

FCC Test Report

Report No.: 2405X63991EA-A1

Applicant: Guangdong Welly Electrical Appliances Co., Ltd

Address: Fusha Industrial Park, Fusha Town, Zhongshan City, Guangdong

Province, China

Product Name: Microwave Oven **Product Model:** C42PXP01-A00

Multiple Models: C42PXP05-A00,C42PXP20-A00,C42PXP08-A00, C42PXP24-A00,

C42PXP26-A00

Trade Mark: N/A

FCC ID: YI4DWC42PXP

Standards: FCC CFR Title 47 Part 18

Test Date: 2024-09-13 to 2024-09-14

Test Result: Complied

Report Date: 2024-09-19

Reviewed by: Approved by:

chen

Abel Chen

Project Engineer

Jacob Gong

Jacob Kong

Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China



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- 5. The information marked "#" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

Revision History

Version No.	Issued Date	Description	
00	2024-09-19	Original	

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1 General Information

1.1 Client Information

Applicant:	Guangdong Welly Electrical Appliances Co., Ltd
Address:	Fusha Industrial Park, Fusha Town, Zhongshan City, Guangdong Province, China
Manufacturer:	Guangdong Welly Electrical Appliances Co., Ltd
Address:	Fusha Industrial Park, Fusha Town, Zhongshan City, Guangdong Province, China

1.2 Product Description of EUT

The EUT is Microwave Oven operate on 2450MHz ISM frequency Band.

<u> </u>		
Sample Serial Number	C42PXP01-A00: 2RJ9-1, C42PXP24-A00: 2U2I-1,	
	C42PXP08-A00: 2U2H-1, C42PXP20-A00: 2U2G-1,	
	C42PXP26-A00: 2U2J-1, C42PXP05-A00: 2U2F-1	
	(assigned by WATC)	
Sample Received Date	2024-09-12	
Sample Status	Good Condition	
Operating Frequency Range	2450MHz±50.0 MHz	
Power Supply	AC 120V/60Hz	
Microwave Rated Input Power#	1500W	
Microwave Rated Output Power#	1000W	
Modification	Sample No Modification by the test lab	

Note: the applicant declared all EUT models list in this report is electrical identical, just difference for model number and appearance, detail please refer to the DOS letter provided by the applicant. Model C42PXP01-A00 was selected to test.

1.3 Related Submittal(s)/Grant(s)

No Related Submittal(s)/Grant(s)

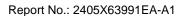
1.4 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conducted Emissions		±3.14dB
	Below 30MHz	±2.78dB
Radiated emission	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Frequency Error		150Hz

Note 1: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Note 2: The Decision Rule is based on simple acceptance with ISO Guide 98-4:2012 Clause 8.2 (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

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1.5 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: ga@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.6 Test Methodology

FCC CFR 47 Part 18 FCC OST MP-5-1986

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2 Description of Measurement

2.1 Test Configuration

Test Mode:	
Microwave	The EUT was operate at the maximum microwave output power, according to FCC OST MP-5-1986 section 4.1, a quantity of water in a beaker was put in the oven cooking cavity during test

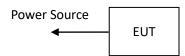
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
Xiangbo	Glass Beaker	unknown	unknown

2.3 Interconnecting Cables

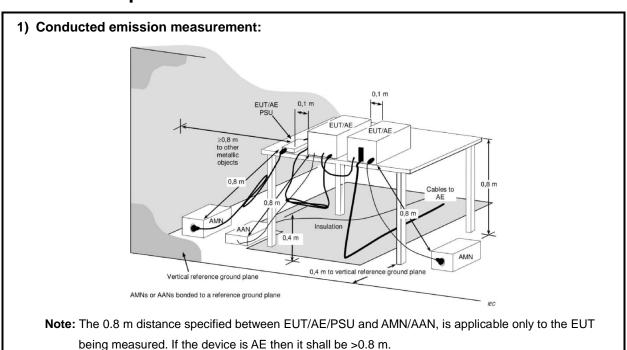
Manufacturer	Description	Length(m)	From	То
Welly	AC Power Cable	1.0	Power Source	EUT

2.4 Block Diagram of Connection between EUT and AE



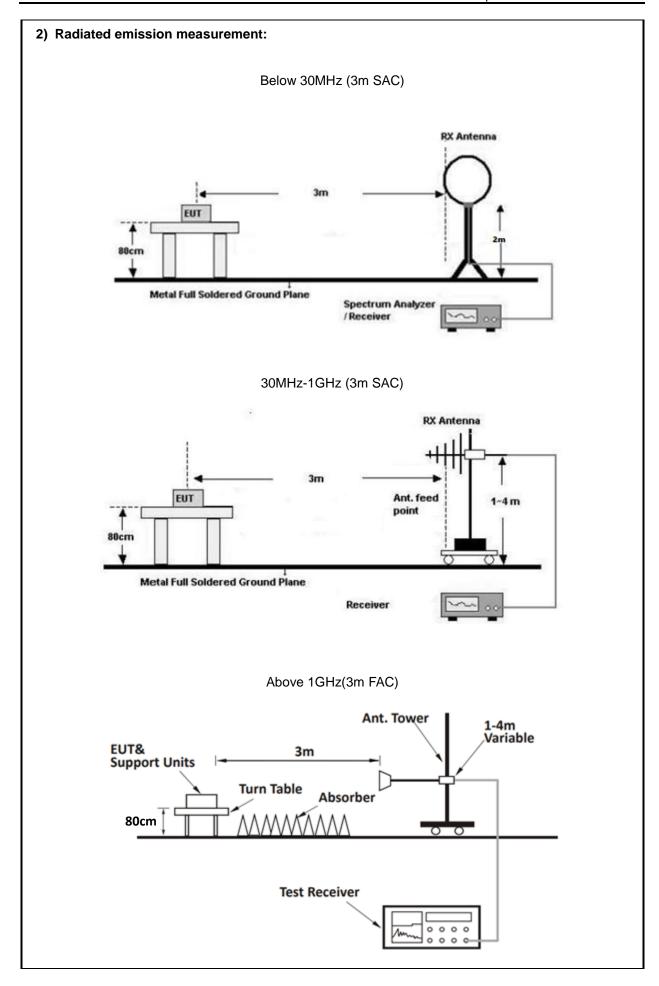
Note: for reference only, the actual connection setup used for testing please refer to the test photos.

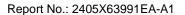
2.5 Test Setup



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2.6 Test Procedure

Conducted emission:

- 1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
- 2. Both sides of A.C. line are checked for maximum conducted interference.
- 3. The receiver is set to 9kHz resolution bandwidth, final data was recorded in the Quasi-peak and average detection mode.
- 4. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For 9kHz-30MHz:

- 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
- 2. Loop antenna was used, the antenna height set at around 2 meters. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360°.
- 3. The RBW/VBW of receiver is set to 300Hz/1kHz for 9kHz to 150kHz range, to 10kHz/30kHz for 150kHz to 30MHz range for scan Peak emission, 200Hz/9kHz IF BW was used for final measurement in the average detection mode for frequency range 9~150kHz/150kHz~30MHz respectively.
- 4. If the Peak emission complies with the average limit, then perform final measurement is optional.

b) For 30MHz-1GHz:

- 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
- 2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
- 3. The RBW/VBW of receiver is set to 100kHz/300kHz for scan Peak emission, 120kHz IF BW was used for final measurement in the average detection mode.
- 4. If the Peak emission complies with the average limit, then perform final measurement is optional.

c) For above 1GHz:

- 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m.
- 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
- 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

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- 4. Measurements may be performed at a distance closer than that specified in the regulations, in this case the distance correct factor should apply to the result.
- 5. The RBW/VBW of spectrum analyzer is set to 1MHz/3MHz for scan Peak emission, for measured average emission, reduce the VBW to 10Hz.
- 6. If the Peak emission complies with the Average limit, then perform average measurement is optional.



2.7 Measurement Method

Description of Test	Measurement Method	
AC Line Conducted Emissions	FCC OST MP-5-1986 Section 7	
Radiated emission	FCC OST MP-5-1986 Section 5	
Operating frequencies	FCC OST MP-5-1986 Section 4.5	
Power Output Measurement	FCC OST MP-5-1986 Section 4.3	
Radio frequency exposure requirements	FCC OST MP-5-1986 Section 3.1	

2.8 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date		
	AC Line Conducted Emission Test						
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2024/6/4	2025/6/3		
R&S	LISN	ENV216	101748	2024/6/4	2025/6/3		
N/A	Coaxial Cable	NO.12	N/A	2024/6/4	2025/6/3		
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	1	1		
		Radiated Emissio	n Test				
R&S	EMI test receiver	ESR3	102758	2024/6/4	2025/6/3		
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2024/6/4	2025/6/3		
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2024/6/4	2025/6/3		
COM-POWER	preamplifier	PAM-118A	18040152	2024/6/4	2025/6/3		
COM-POWER	Amplifier	PAM-840A	461306	2024/8/7	2025/8/6		
BACL	Loop Antenna	1313-1A	4010611	2024-2-7	2027-2-6		
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2026/7/6		
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5		
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2026/7/9		
Oulitong	Band Reject Filter	OBSF-2400-248 3.5-50N	OE02103119	2024/6/4	2025/6/3		
N/A	Coaxial Cable	NO.9	N/A	2024/6/4	2025/6/3		
N/A	Coaxial Cable	NO.14	N/A	2024/6/4	2025/6/3		
N/A	Coaxial Cable	NO.15	N/A	2024/6/4	2025/6/3		
N/A	Coaxial Cable	NO.16	N/A	2024/6/4	2025/6/3		

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N/A	Coaxial Cable	NO.17	N/A	2024/6/4	2025/6/3
Audix	Test Software	E3	191218 V9	1	/
		Operating freque	ncies		
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2024/6/4	2025/6/3
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5
N/A	Coaxial Cable	NO.9	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.15	N/A	2024/6/4	2025/6/3
Audix	Test Software	E3	191218 V9	/	/
		Power Outpu	t		
YOKOGAWA	Digital Power Meter	253503	25BW3075	2024/8/23	2025/8/22
Victor	Digital Thermometer	6801	100730669	2023/12/1	2024/11/30
Radio frequency exposure					
ETS	Microwave Survery Meter	1501	3640274	2023/10/11	2024/10/10

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.



3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result
FCC §18.307	AC Line Conducted Emissions	Compliance
FCC §18.305	Radiated emission	Compliance
FCC §18.301	Operating frequencies	Compliance
FCC OST MP-5 §3.2	Operating frequencies	Соттрпансе
FCC OST MP-5 §4.3	Power Output Measurement	Reporting only
FCC §18.313, §2.1091; §1.1310	Radio frequency exposure requirements	Compliance

Note: This is a Class II Permissive Change test report. The applicant declared the difference between EUT and original device (Granted on 2023/05/18) as below:

- 1. Change the computer board
- 2. Add Multiple Models

The microwave frequency, rated input& output power was not change



3.2 Limit

Test items	Limit								
	Freq	Frequency of emission (MHz)						lμV)	
AC Line Conducted Emissions						Quasi-pea		Average	
	0.15-0.5				66 to	56 *	56 to	46 *	
	0.5-5				56		46		
	5-30				60		50		
	* Decreases with	the log	arithm of the fre	quency.					
Radiated emission	Equipment		Operating frequency	RF Power generated by equipment (watts)		Field strength limit (uV/m)		Distance (meters)	
	Any type unless otherwise speci (miscellaneous)	fied	Any ISM frequency	Below 500 500 or more		25 25 × SQRT(power/500)		300 1300	
Operating frequencies	§18.301 Within ISM fre	quenc	cy band 2400	-2500MHz	7				
	§1.1310								
	Frequency E range (MHz)		electric field strength (V/m)	str	etic fie ength A/m)	ld	Power density (mW/cm ²)	Averaging time (minutes)	
	(ii) Limits for General Population/Uncontrolled Exposure								
Radio frequency exposure	0.3-1.34	614		1.63		*(100)		<30	
requirements	1.34-30	824/	f	2.19/f		*(180/f²)		<30	
,	30-300	27.5		0.073		0.2		<30	
	300-1,500					f/	1500	<30	
	1,500- 100,000					1	.0	<30	
	f = frequency in	MHz. *	= Plane-wave e	quivalent po	wer de	nsity.			



3.3 Operating frequencies

Test Date:	2024-09-14	Test By:	Bard Huang
Environment condition:	Temperature: 21.6°C; Relative	Humidity:67%; ATM Pr	essure: 99.4kPa

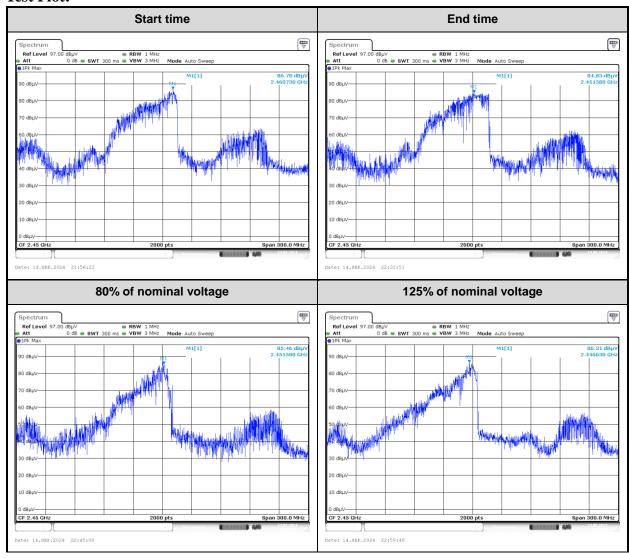
Variation in Operating Frequency with Time

Frequency at Start time(MHz)	Frequency at End time(MHz)	Limit(MHz)
2460.73	2451.58	Within 2400~2500

Variation in Operating Frequency with Line Voltage

Frequency at 80% of nominal voltage(MHz)	Frequency at 125% of nominal voltage(MHz)	Limit(MHz)
2451.58	2446.63	Within 2400~2500

Test Plot:





3.4 Power Output Measurement

Test Date:	2024-09-13	Test By:	Lirou Li
Environment condition:	Temperature: 23.9°C; Relative	Humidity:61%; ATM Pr	essure: 101.4kPa

Power Input:

Input Voltage(V _{AC})	Input Current(A)	Input Power(W)	Rated Input Power(W)	
116.1	13.2	1532.5	1500	

Note:

Based on the measured input power, the EUT was found to be operating within the intended specifications.

Power Output:

Quantity of	Mass of the	Ambient	Initial	Final	Heating	Power
Water	er container temperature		temperature temperature		time	output
(ml)	(g)	(℃)	(℃)	(℃)	(s)	(W)
1000	487	23.9	23.7	36.9	60	979

Formula:

$$P = \frac{4,187 \cdot m_{\rm W} (T_2 - T_1) + 0,55 \cdot m_{\rm C} (T_2 - T_0)}{t}$$

Note:

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_0 is the ambient temperature(\mathcal{C})

 T_1 is the initial temperature of water(\mathcal{C})

 T_2 is the final temperature of water(\mathcal{C})

t is the water heating time(s), excluding the magnetron filament heating-up time

According to FCC § 18.305, the field strength limit of the outside band emissions is:

Limit=20lg(25*SQRT(Power/500))+20lg(300/3)

=20lg(25*SQRT(979/500))+20lg(300/3)

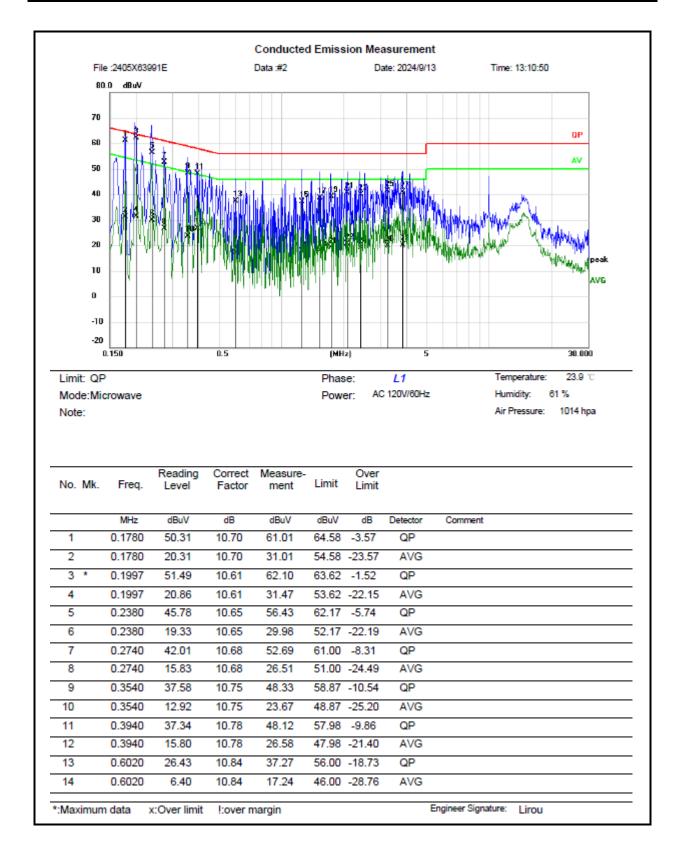
=70.9dBuV/m @3m distance

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3.5 AC Line Conducted Emissions Test Data

Test Date:	2024-09-13	Test By:	Lirou Li
Environment condition:	Temperature: 23.9°C; Relative	Humidity:61%; ATM Pr	essure: 101.4kPa





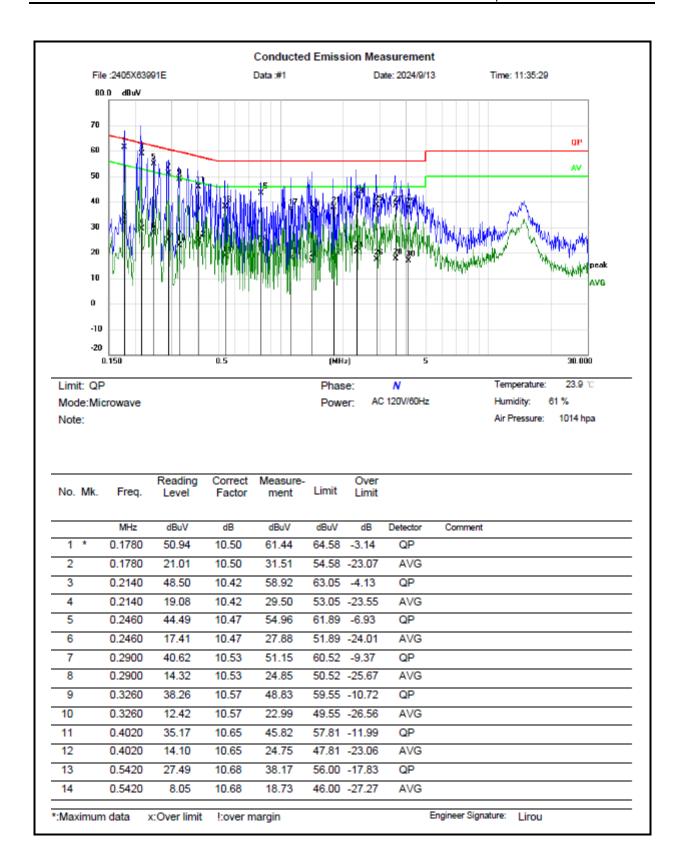
Limit: QP Phase: L1 Temperature: 23.9 °C Mode:Microwave Power: AC 120V/60Hz Humidity: 61 %

Note: Air Pressure: 1014 hpa

No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
15		1.2579	26.31	10.92	37.23	56.00	-18.77	QP	
16		1.2579	6.80	10.92	17.72	46.00	-28.28	AVG	
17		1.5339	27.82	10.76	38.58	56.00	-17.42	QP	
18		1.5339	7.11	10.76	17.87	46.00	-28.13	AVG	
19		1.7380	28.57	10.64	39.21	56.00	-16.79	QP	
20		1.7380	8.39	10.64	19.03	46.00	-26.97	AVG	
21		2.0860	30.06	10.52	40.58	56.00	-15.42	QP	
22		2.0860	10.06	10.52	20.58	46.00	-25.42	AVG	
23		2.4020	29.35	10.61	39.96	56.00	-16.04	QP	
24		2.4020	8.50	10.61	19.11	46.00	-26.89	AVG	
25		3.2500	30.49	10.88	41.37	56.00	-14.63	QP	
26		3.2500	9.03	10.88	19.91	46.00	-26.09	AVG	
27		3.8580	29.80	11.07	40.87	56.00	-15.13	QP	
28		3.8580	9.02	11.07	20.09	46.00	-25.91	AVG	

*:Maximum data x:Over limit !:over margin Engineer Signature: Lirou







Mode:Mi Note:	crowave				Powe	er: AC	120V/60Hz		Humidity: Air Pressure:	61 % 1014 hpa
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over Limit				
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment		
15	0.8059	32.69	10.61	43.30	56.00	-12.70	QP			
16	0.8059	12.37	10.61	22.98	46.00	-23.02	AVG			
17	1.1220	26.40	10.66	37.06	56.00	-18.94	QP			
18	1.1220	7.17	10.66	17.83	46.00	-28.17	AVG			
19	1.4180	25.74	10.67	36.41	56.00	-19.59	QP			
20	1.4180	5.98	10.67	16.65	46.00	-29.35	AVG			
21	1.8060	27.23	10.68	37.91	56.00	-18.09	QP			
22	1.8060	6.99	10.68	17.67	46.00	-28.33	AVG			
23	2.3220	30.93	10.64	41.57	56.00	-14.43	QP			
24	2.3220	9.71	10.64	20.35	46.00	-25.65	AVG			
25	2.8860	27.95	10.57	38.52	56.00	-17.48	QP			
26	2.8860	6.92	10.57	17.49	46.00	-28.51	AVG			
27	3.5700	27.83	10.47	38.30	56.00	-17.70	QP			
28	3.5700	7.25	10.47	17.72	46.00	-28.28	AVG			
29	4.1180	27.27	10.42	37.69	56.00	-18.31	QP			
30	4.1180	6.57	10.42	16.99	46.00	-29.01	AVG			

*:Maximum data x:Over limit !:over margin Engineer Signature: Lirou

Remark:

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

Correct Factor (dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

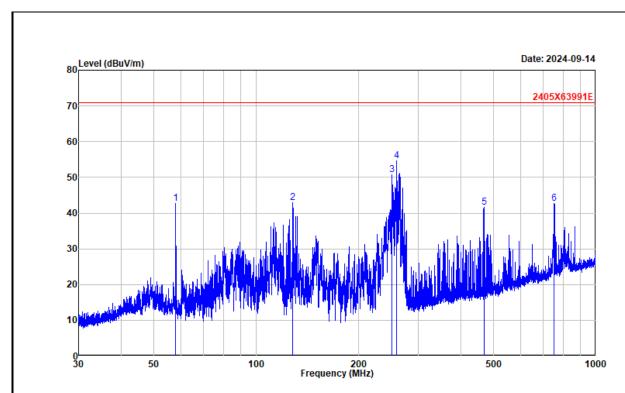
 $Over\ Limit = Measurement - Limit$



3.6 Radiated emission Test Data

30MHz-1GHz:

Test Date:	2024-09-14	Test By:	Bard Huang
Environment condition:	Temperature: 21.6°C; Relative	Humidity:67%; ATM Pr	essure: 99.4kPa



Project No. : 2405X63991E Test Mode : Microwave Test Voltage : AC 120V/60Hz

Environment : $21.6\,^{\circ}\text{C}/67\%\text{R.H.}/99.4\text{kPa}$

Tested by : Bard Huang Polarization : horizontal

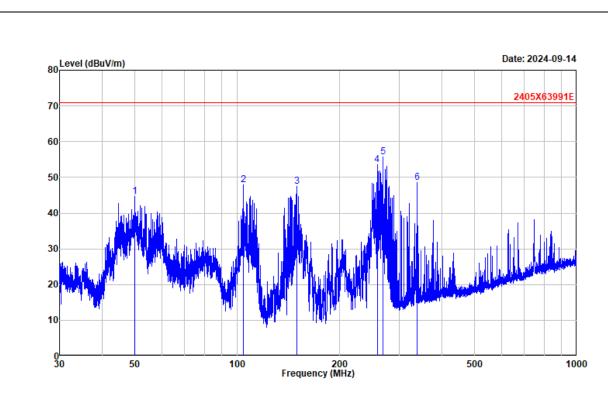
Remark : maximum microwave output power

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	58.029	56.16	-13.39	42.77	70.90	-28.13	Peak
2	128.136	60.01	-17.09	42.92	70.90	-27.98	Peak
3	251.137	63.26	-12.46	50.80	70.90	-20.10	Peak
4	259.190	66.94	-12.29	54.65	70.90	-16.25	Peak
5	468.010	49.83	-8.21	41.62	70.90	-29.28	Peak
6	754.699	45.42	-2.78	42.64	70.90	-28.26	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor Over Limit = Result - Limit





Project No. : 2405X63991E Test Mode : Microwave Test Voltage : AC 120V/60Hz

Environment : $21.6\,^{\circ}\text{C}/67\%\text{R.H.}/99.4\text{kPa}$

Tested by : Bard Huang Polarization : vertical

Remark : maximum microwave output power

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	50.038	56.87	-12.15	44.72	70.90	-26.18	Peak
2	104.415	61.80	-13.91	47.89	70.90	-23.01	Peak
3	149.713	64.81	-17.43	47.38	70.90	-23.52	Peak
4	258.283	65.90	-12.29	53.61	70.90	-17.29	Peak
5	268.794	67.81	-12.07	55.74	70.90	-15.16	Peak
6	338.206	58.68	-10.13	48.55	70.90	-22.35	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor Over Limit = Result - Limit Report No.: 2405X63991EA-A1

Above 1GHz:

Test Date:	2024-09-14 Test By :		Bard Huang	
Environment condition:	Temperature: 21.6°C; Relative	Humidity:67%; ATM Pr	ATM Pressure: 99.4kPa	

Frequency (MHz)	Reading level (dBµV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
2316.077	45.12	horizontal	-2.83	42.29	70.90	-28.61	Average
2539.091	50.92	horizontal	-2.72	48.20	70.90	-22.70	Average
9839.520	42.33	horizontal	2.98	45.31	70.90	-25.59	Average
2367.080	46.19	vertical	-2.80	43.39	70.90	-27.51	Average
2565.092	57.66	vertical	-2.71	54.95	70.90	-15.95	Average
9813.519	41.53	vertical	2.77	44.30	70.90	-26.60	Average
Second and third harmonic							
700ml Water							
4930.231	44.50	horizontal	0.24	44.74	70.90	-26.16	Average
7375.375	45.17	horizontal	1.46	46.63	70.90	-24.27	Average
4906.230	47.41	vertical	0.19	47.60	70.90	-23.30	Average
7358.374	42.80	vertical	1.48	44.28	70.90	-26.62	Average
300ml Water							
4905.624	45.11	horizontal	0.19	45.30	70.90	-25.60	Average
7373.093	46.05	horizontal	1.46	47.51	70.90	-23.39	Average
4903.718	45.92	vertical	0.19	46.11	70.90	-24.79	Average
7375.475	46.71	vertical	1.46	48.17	70.90	-22.73	Average

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Corrected Amplitude – Limit

The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

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Report No.: 2405X63991EA-A1

3.7 Radio frequency exposure

Test Date:	2024-09-13	Test By:	Lirou Li	
Environment condition:	Temperature: 23.9°C; Relative	Humidity:61%; ATM Pr	ATM Pressure: 101.4kPa	

Radiation leakage was measured in the as-received condition with the oven door closed using a microwave leakage meter.

A 275mL water load was placed in the center of the oven and the oven was operated at maximum output power.

There was no microwave leakage exceeding a power level of $\underline{\mathbf{0.1}}$ mW/cm² observed at any point 5 cm or more from the external surface of the oven.

A maximum of 1.0mW/cm² is allowed in accordance with the applicable Federal Standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.

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4 Test Setup Photo

Please refer to the attachment 2405X63991E-A1 Test Setup photo.



5 E.U.T Photo

Please refer to the attachment 2405X63991E-A1 External photo and 2405X63991E-A1 Internal photo.

---End of Report---