

FCC Test Report

Report No.: 2505P08635EA

Applicant: Whirlpool Microwave Products Development Limited.

Address: 17th Fl, Elite Centre, 22 Hung To Rd, Kwun Tong, Hong Kong

Product Name: Household microwave oven

Product Model: KMBT730S

Multiple Models: JOETC330

Trade Mark: KitchenAid, Jenn-Air

FCC ID: PR4B1FLUSHKAX

Standards: FCC CFR Title 47 Part 18

Test Date: 2025-01-20 to 2025-02-14

Test Result: Complied

Report Date: 2025-02-20

Reviewed by:

Frank Yin

Frank Yin

Project Engineer

Approved by:

Jacob Kong

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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Revision History

Version No.	Issued Date	Description
00	2025-02-20	<i>Original</i>

Contents

1	General Information	4
1.1	Client Information	4
1.2	Product Description of EUT	4
1.3	Related Submittal(s)/Grant(s).....	4
1.4	Measurement Uncertainty	4
1.5	Laboratory Location.....	5
1.6	Test Methodology	5
2	Description of Measurement.....	6
2.1	Test Configuration.....	6
2.2	Test Auxiliary Equipment	6
2.3	Interconnecting Cables.....	6
2.4	Block Diagram of Connection between EUT and AE	6
2.5	Test Setup.....	6
2.6	Test Procedure	8
2.7	Measurement Method.....	9
2.8	Measurement Equipment	10
3	Test Results	11
3.1	Test Summary.....	11
3.2	Limit	11
3.3	Operating frequencies	12
3.4	Power Output Measurement	14
3.5	AC Line Conducted Emissions Test Data.....	16
3.6	Radiated emission Test Data.....	20
3.7	Radio frequency exposure	30
4	Test Setup Photo.....	31
5	E.U.T Photo	32

1 General Information

1.1 Client Information

Applicant:	Whirlpool Microwave Products Development Limited.
Address:	17th Fl, Elite Centre, 22 Hung To Rd, Kwun Tong, Hong Kong
Manufacturer:	Whirlpool Microwave Products Development Limited.
Address:	17th Fl, Elite Centre, 22 Hung To Rd, Kwun Tong, Hong Kong

1.2 Product Description of EUT

The EUT is Household microwave oven operate on 2450MHz ISM frequency Band.

Sample Serial Number	2XRO-1(for configuration 1), 2XRO-2(for configuration 2) (assigned by WATC)
Sample Received Date	2025-01-20
Sample Status	Good Condition
Operating Frequency Range	2450MHz±50.0 MHz
Power Supply	AC 120V/60Hz
Microwave Rated Input Power [#]	1800W
Microwave Rated Output Power [#]	950W
Modification	Sample No Modification by the test lab

Note: the EUT has two difference configurations, the differences between the two configurations are magnetron and high voltage components(transformer, H.V. Capacitor).

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
Radiated emission	Below 30MHz
	Below 1GHz
	Above 1GHz
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.)

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: qa@wutc.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

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method

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

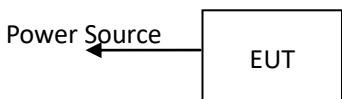
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
Xiangbo	Glass Beaker	unknown	unknown

2.3 Interconnecting Cables

Manufacturer	Description	Length(m)	From	To
Whirlpool	AC Power Cable	1.0	Power Source	EUT

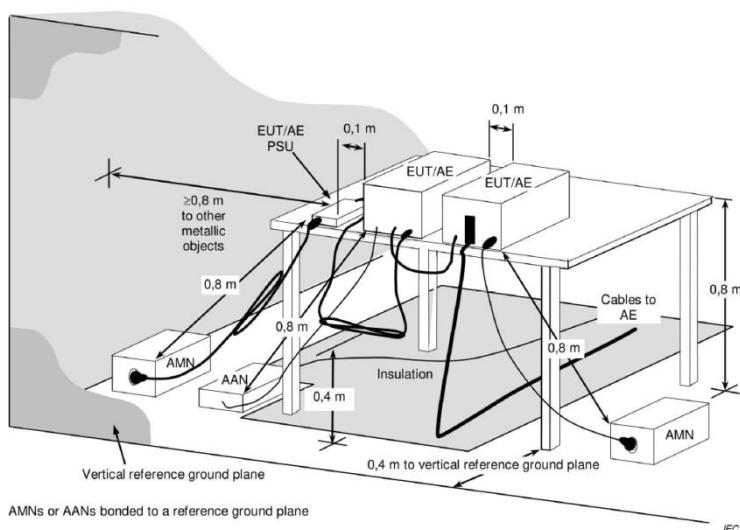
2.4 Block Diagram of Connection between EUT and AE



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

2.5 Test Setup

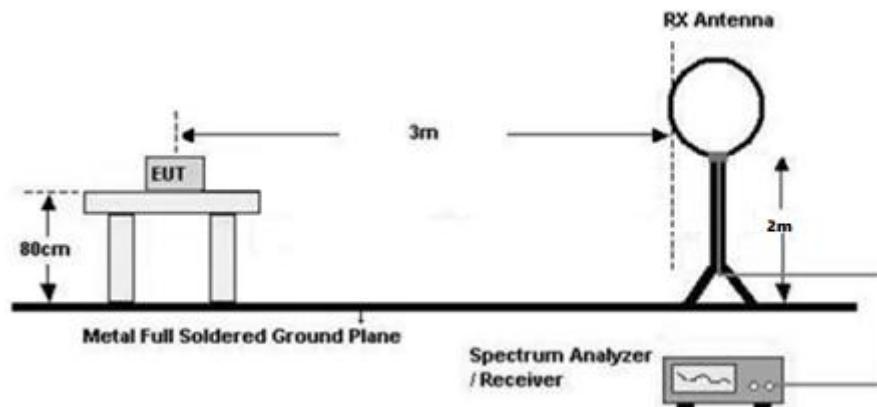
1) Conducted emission measurement:



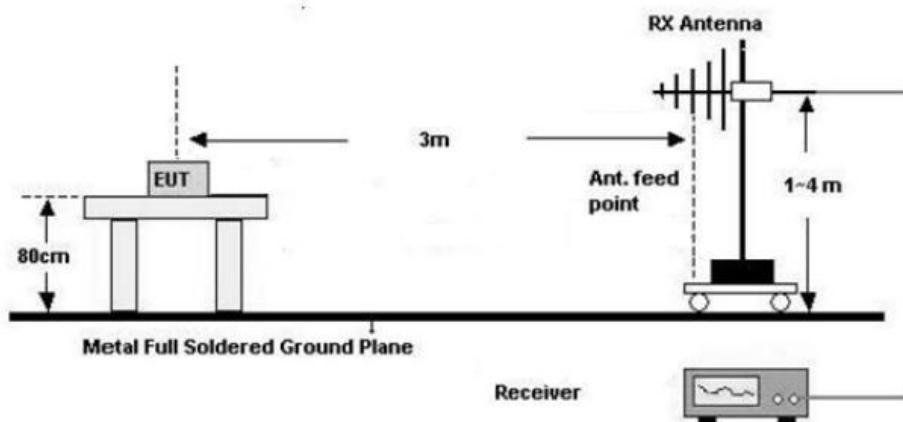
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

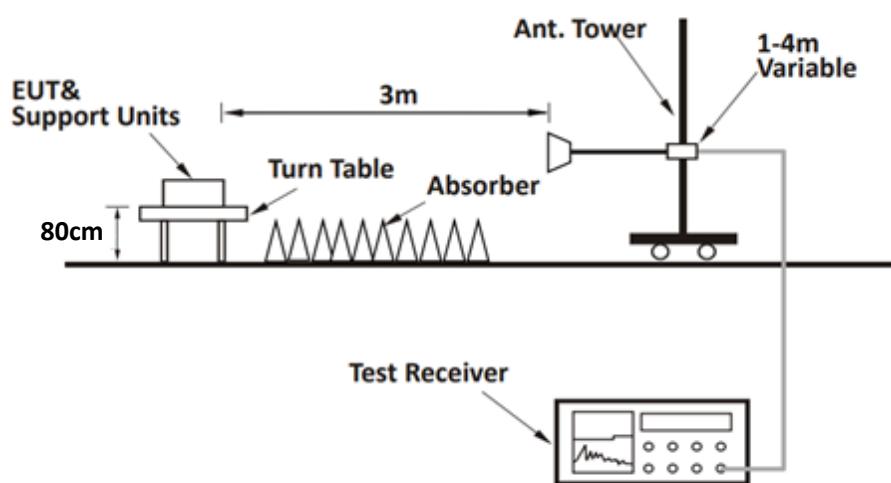
Below 30MHz (3m SAC)



30MHz-1GHz (3m SAC)



Above 1GHz(3m FAC)



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.

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	/	/
Radiated Emission 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
A.H. Systems	PREAMPLIFIER	PAM-0118P	531	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
Ouitong	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.13	N/A	2024/8/7	2025/8/6
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
N/A	Coaxial Cable	NO.17	N/A	2024/6/4	2025/6/3
Audix	Test Software	E3	191218 V9	/	/
Operating frequencies					
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 Output					
YOKOGAWA	Digital Power Meter	253503	25BW3075	2024/8/23	2025/8/22
Victor	Digital Thermometer	6801	100730669	2024/12/1	2025/11/30
Radio frequency exposure					
ETS	Microwave Survey Meter	1501	3640274	2024/10/11	2025/10/10

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 FCC OST MP-5 §3.2	Operating frequencies	Compliance
FCC OST MP-5 §4.3	Power Output Measurement	Reporting only
FCC §18.313, §2.1091; §1.1310	Radio frequency exposure requirements	Compliance

3.2 Limit

Test items	Limit				
	Frequency of emission (MHz)		Conducted limit (dB μ V)		
AC Line Conducted Emissions	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.				
Radiated emission	Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
	Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25 × SQRT(power/500)	300 1300
Operating frequencies	§18.301 Within ISM frequency band 2400–2500MHz				
	§1.1310 (ii) Limits for General Population/Uncontrolled Exposure				
Radio frequency exposure requirements	0.3–1.34	614	1.63	*(100)	<30
	1.34–30	824/f	2.19/f	*(180/f ²)	<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 equivalent power density.				

3.3 Operating frequencies

For Configuration 1:

Test Date:	2025-01-22	Test By:	Luke Li
Environment condition:	Temperature: 23.3°C; Relative Humidity:43%; ATM Pressure: 101.0kPa		

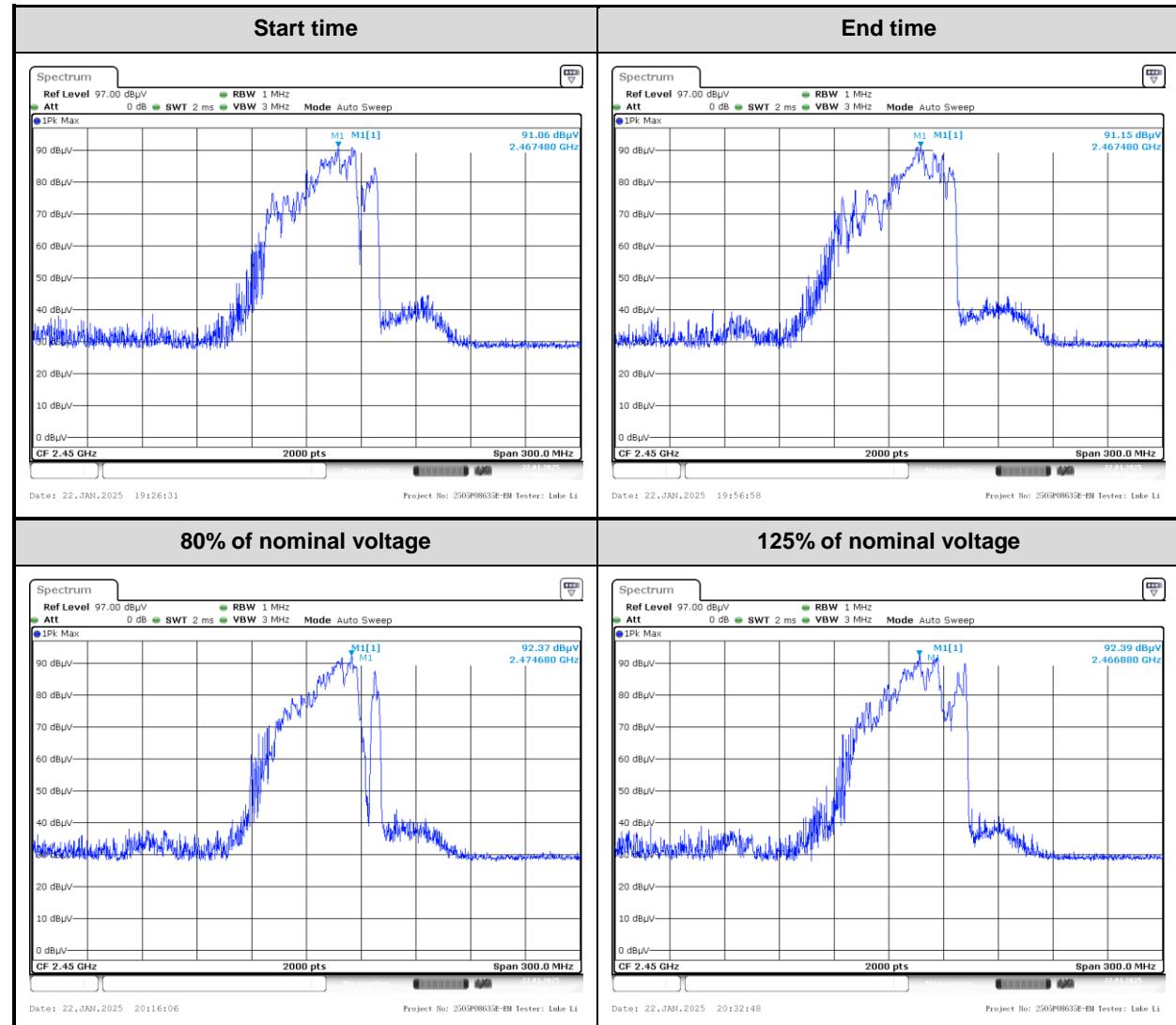
Variation in Operating Frequency with Time

Frequency at Start time(MHz)	Frequency at End time(MHz)	Limit(MHz)
2467.48	2467.48	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)
2474.68	2466.88	Within 2400~2500

Test Plot:



For Configuration 2:

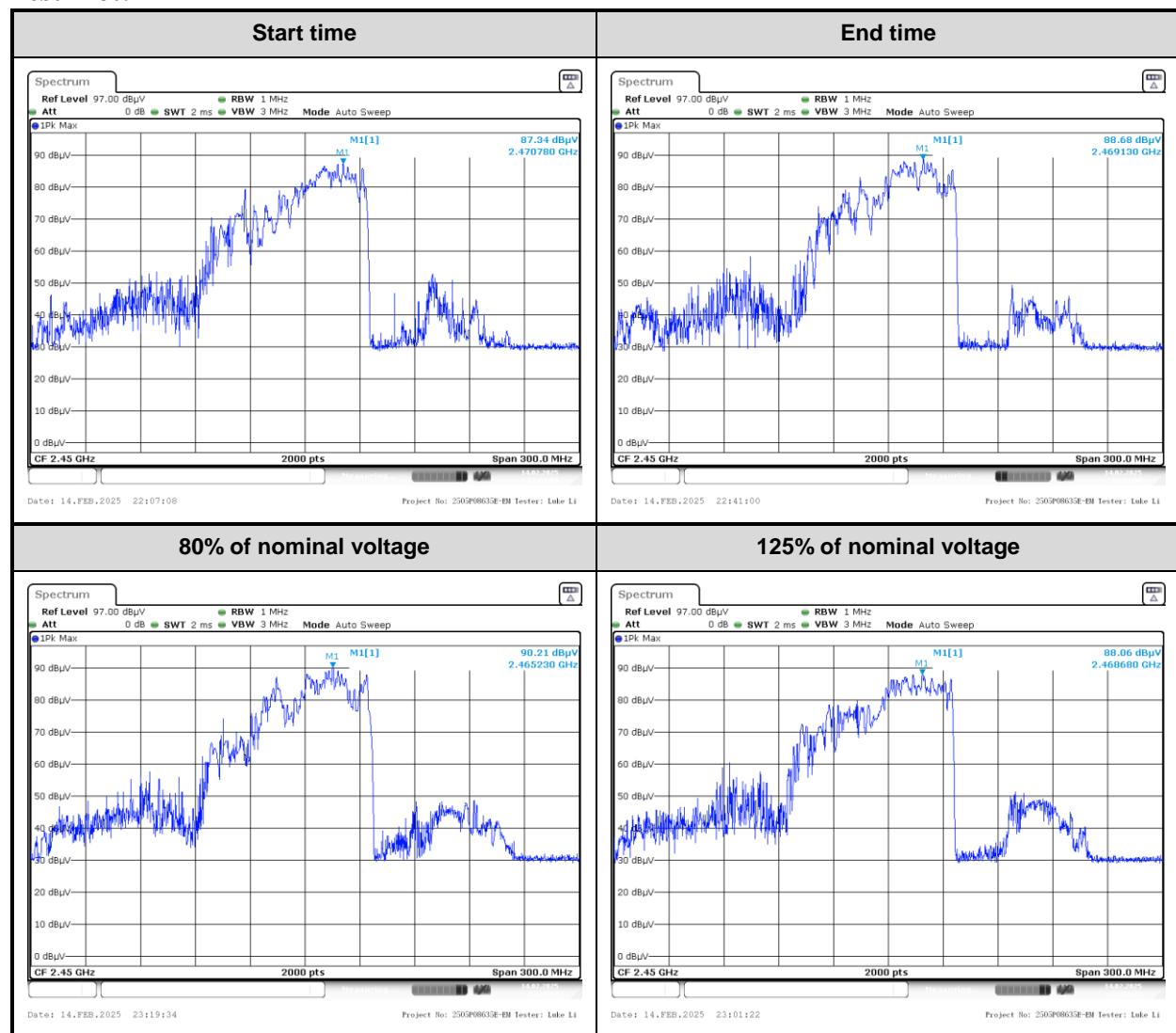
Test Date:	2025-02-14	Test By:	Luke Li
Environment condition:	Temperature: 22.3°C; Relative Humidity:55%; ATM Pressure: 101.1kPa		

Variation in Operating Frequency with Time

Frequency at Start time(MHz)	Frequency at End time(MHz)	Limit(MHz)
2470.78	2469.13	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)
2465.23	2468.68	Within 2400~2500

Test Plot:


3.4 Power Output Measurement

For Configuration 1:

Test Date:	2025-01-20	Test By:	Ryan Zhang
Environment condition:	Temperature: 22.6°C; Relative Humidity: 42%; ATM Pressure: 100.8kPa		

Power Input:

Input Voltage(V _{AC})	Input Current(A)	Input Power(W)	Rated Input Power(W)
114.3	14.97	1711.07	1800

Note:

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

Power Output:

Quantity of Water (ml)	Mass of the container (g)	Ambient temperature (°C)	Initial temperature (°C)	Final temperature (°C)	Heating time (s)	Power output (W)
1000	487	22.2	32.8	44.3	60	901

Formula:

$$P = \frac{4,187 \cdot m_w (T_2 - T_1) + 0,55 \cdot m_c (T_2 - T_0)}{t}$$

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)

T₀ is the ambient temperature(°C)

T₁ is the initial temperature of water(°C)

T₂ is the final temperature of water(°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:

$$\begin{aligned}
\text{Limit} &= 20\lg(25 * \text{SQRT}(\text{Power}/500)) + 20\lg(300/3) \\
&= 20\lg(25 * \text{SQRT}(\text{Power}/500)) + 20\lg(300/3) \\
&= 70.5 \text{ dBuV/m} @ 3 \text{m distance}
\end{aligned}$$

For Configuration 2:

Test Date:	2025-02-05	Test By:	Ryan Zhang
Environment condition:	Temperature: 22.3°C; Relative Humidity:55%; ATM Pressure: 101.1kPa		

Power Input:

Input Voltage(V _{AC})	Input Current(A)	Input Power(W)	Rated Input Power(W)
114.3	15.34	1753.36	1800

Note:

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

Power Output:

Quantity of Water (ml)	Mass of the container (g)	Ambient temperature (°C)	Initial temperature (°C)	Final temperature (°C)	Heating time (s)	Power output (W)
1000	487	21.7	19.4	30.6	60	821

Formula:

$$P = \frac{4,187 \cdot m_w (T_2 - T_1) + 0,55 \cdot m_c (T_2 - T_0)}{t}$$

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)

T₀ is the ambient temperature(°C)

T₁ is the initial temperature of water(°C)

T₂ is the final temperature of water(°C)

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

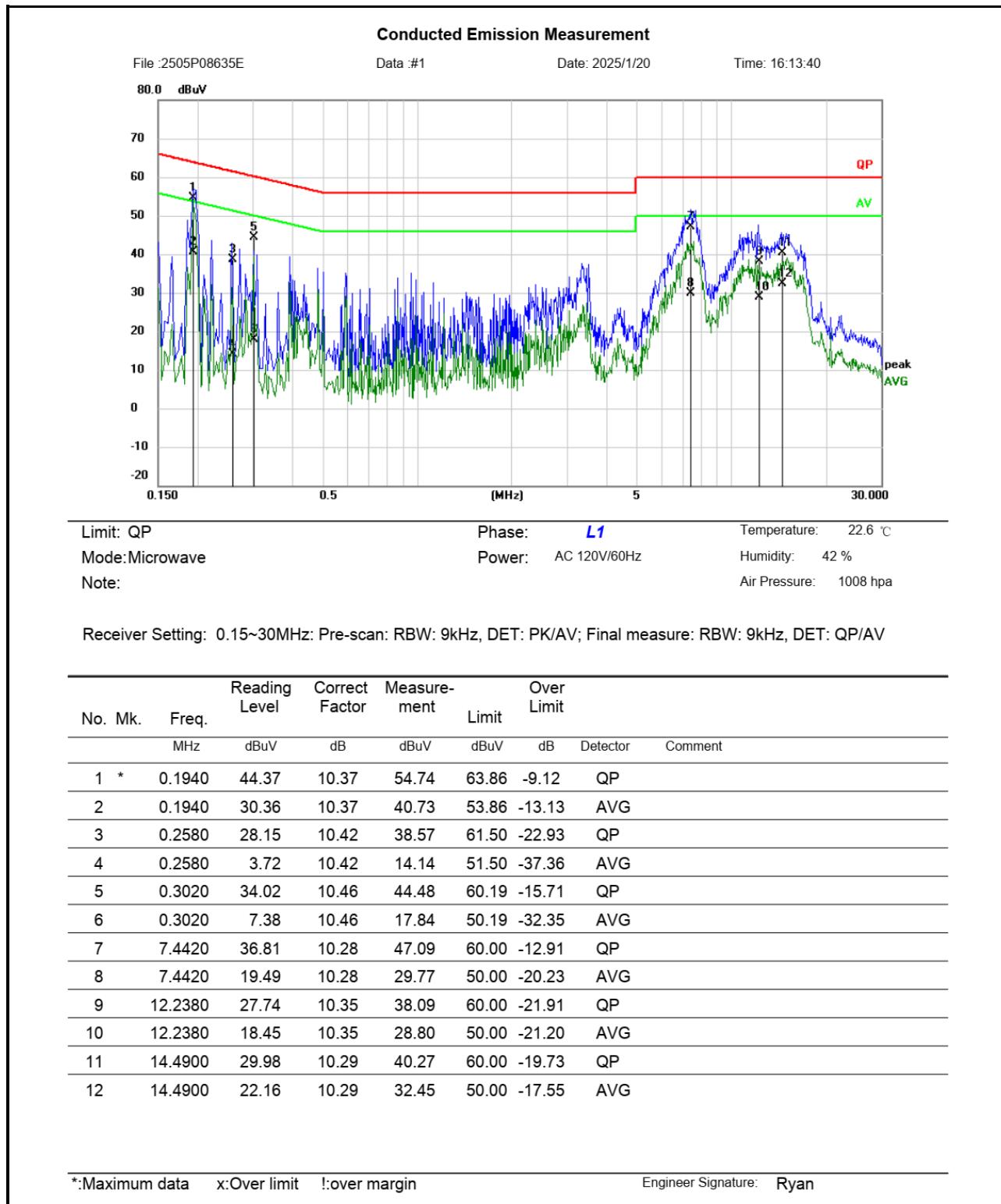
According to FCC § 18.305, the field strength limit of the outside band emissions is:

$$\begin{aligned}
\text{Limit} &= 20\lg(25 * \text{SQRT}(\text{Power}/500)) + 20\lg(300/3) \\
&= 20\lg(25 * \text{SQRT}(\text{Power}/500)) + 20\lg(300/3) \\
&= 70.11 \text{dBuV/m} @ 3 \text{m distance}
\end{aligned}$$

3.5 AC Line Conducted Emissions Test Data

For Configuration 1:

Test Date:	2025-01-20	Test By:	Ryan Zhang
Environment condition:	Temperature: 22.6°C; Relative Humidity:42%; ATM Pressure: 100.8kPa		



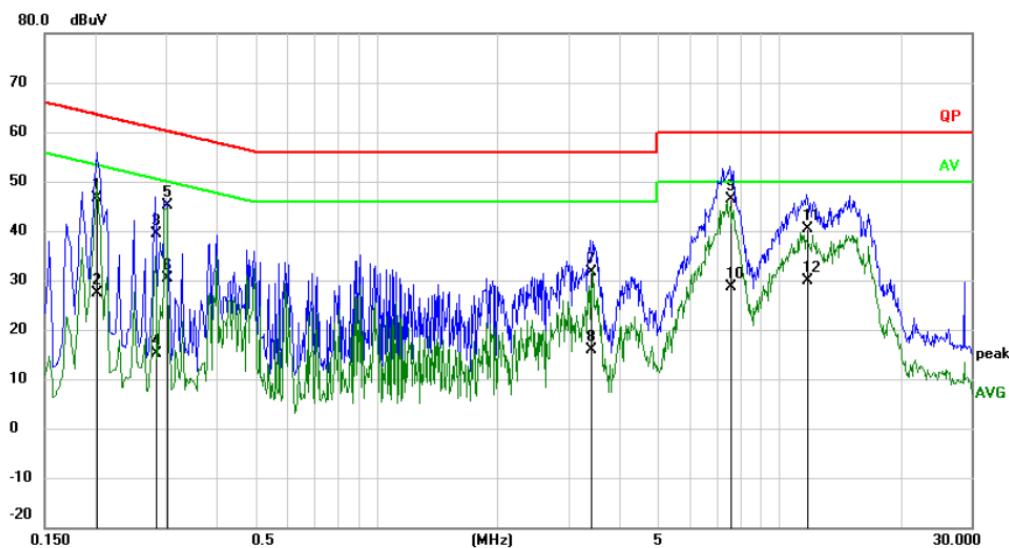
Conducted Emission Measurement

File :2505P08635E

Data #:2

Date: 2025/1/20

Time: 16:15:41



Limit: QP

Phase: *N*

Temperature: 22.6 °C

Mode:Microwave

Power: AC 120V/60Hz

Humidity: 42 %

Note:

Air Pressure: 1008 hpa

Receiver Setting: 0.15~30MHz; Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq.	Reading	Correct	Measure-	Over	Limit	Over
			Level	Factor	ment			
1		0.2020	36.17	10.36	46.53	63.53	-17.00	QP
2		0.2020	17.12	10.36	27.48	53.53	-26.05	AVG
3		0.2819	28.84	10.43	39.27	60.76	-21.49	QP
4		0.2819	4.77	10.43	15.20	50.76	-35.56	AVG
5		0.3020	34.59	10.46	45.05	60.19	-15.14	QP
6		0.3020	19.89	10.46	30.35	50.19	-19.84	AVG
7		3.4060	21.04	10.48	31.52	56.00	-24.48	QP
8		3.4060	5.37	10.48	15.85	46.00	-30.15	AVG
9	*	7.5420	35.95	10.37	46.32	60.00	-13.68	QP
10		7.5420	18.29	10.37	28.66	50.00	-21.34	AVG
11		11.6980	29.92	10.39	40.31	60.00	-19.69	QP
12		11.6980	19.37	10.39	29.76	50.00	-20.24	AVG

*:Maximum data x:Over limit !:over margin

Engineer Signature: Ryan

Remark:

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

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

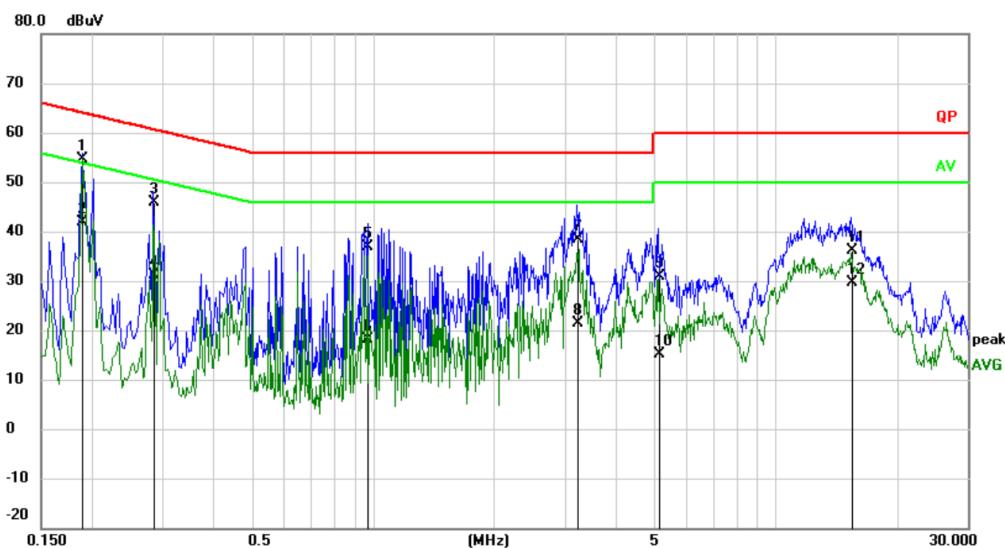
Over Limit = Measurement – Limit

For Configuration 2:

Test Date:	2025-02-05	Test By:	Ryan Zhang
Environment condition:	Temperature: 21.4°C; Relative Humidity:45%; ATM Pressure: 100.8kPa		

Conducted Emission Measurement

File :2505P08635E Data :#3 Date: 2025/2/5 Time: 15:46:43



Limit: QP Phase: **L1** Temperature: 21.4 °C
 Mode:Microwave Power: AC 120V/60Hz Humidity: 45 %
 Note: Air Pressure: 1008 hpa

Receiver Setting: 0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq.	Reading	Correct	Measure-	Over	Limit	Limit	Detector	Comment
			Level	Factor	ment					
1	*	0.1900	43.88	10.64	54.52	64.04	-9.52	QP		
2		0.1900	31.16	10.64	41.80	54.04	-12.24	AVG		
3		0.2860	35.22	10.69	45.91	60.64	-14.73	QP		
4		0.2860	20.38	10.69	31.07	50.64	-19.57	AVG		
5		0.9700	25.66	11.19	36.85	56.00	-19.15	QP		
6		0.9700	6.91	11.19	18.10	46.00	-27.90	AVG		
7		3.2139	27.81	10.49	38.30	56.00	-17.70	QP		
8		3.2139	10.94	10.49	21.43	46.00	-24.57	AVG		
9		5.1220	20.31	10.56	30.87	60.00	-29.13	QP		
10		5.1220	4.48	10.56	15.04	50.00	-34.96	AVG		
11		15.4140	25.63	10.55	36.18	60.00	-23.82	QP		
12		15.4140	19.19	10.55	29.74	50.00	-20.26	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: Ryan

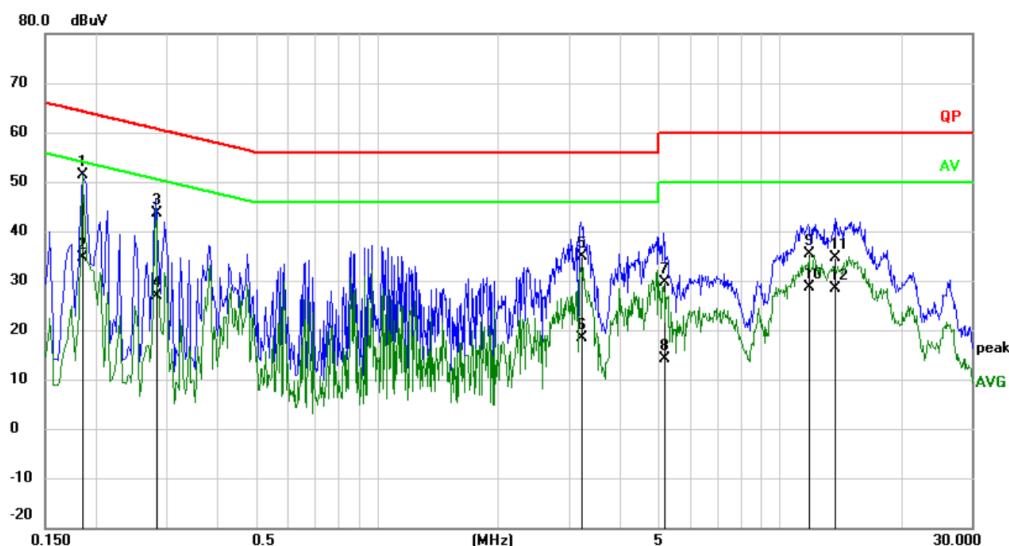
Conducted Emission Measurement

File :2505P08635E

Data #:4

Date: 2025/2/5

Time: 15:48:39



Limit: QP

Phase: **N**

Temperature: 21.4 °C

Mode: Microwave

Power: AC 120V/60Hz

Humidity: 45 %

Note:

Air Pressure: 1008 hpa

Receiver Setting: 0.15~30MHz; Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq.	Reading	Correct	Measure-	Over	Limit	Over
			Level	Factor	ment			
1	*	0.1860	40.86	10.46	51.32	64.21	-12.89	QP
2		0.1860	24.14	10.46	34.60	54.21	-19.61	AVG
3		0.2819	33.00	10.56	43.56	60.76	-17.20	QP
4		0.2819	16.44	10.56	27.00	50.76	-23.76	AVG
5		3.2100	24.49	10.45	34.94	56.00	-21.06	QP
6		3.2100	7.96	10.45	18.41	46.00	-27.59	AVG
7		5.1460	19.29	10.39	29.68	60.00	-30.32	QP
8		5.1460	3.63	10.39	14.02	50.00	-35.98	AVG
9		11.7460	24.83	10.62	35.45	60.00	-24.55	QP
10		11.7460	17.92	10.62	28.54	50.00	-21.46	AVG
11		13.7500	24.00	10.53	34.53	60.00	-25.47	QP
12		13.7500	17.89	10.53	28.42	50.00	-21.58	AVG

*:Maximum data x:Over limit !:over margin

Engineer Signature: Ryan

Remark:

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

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

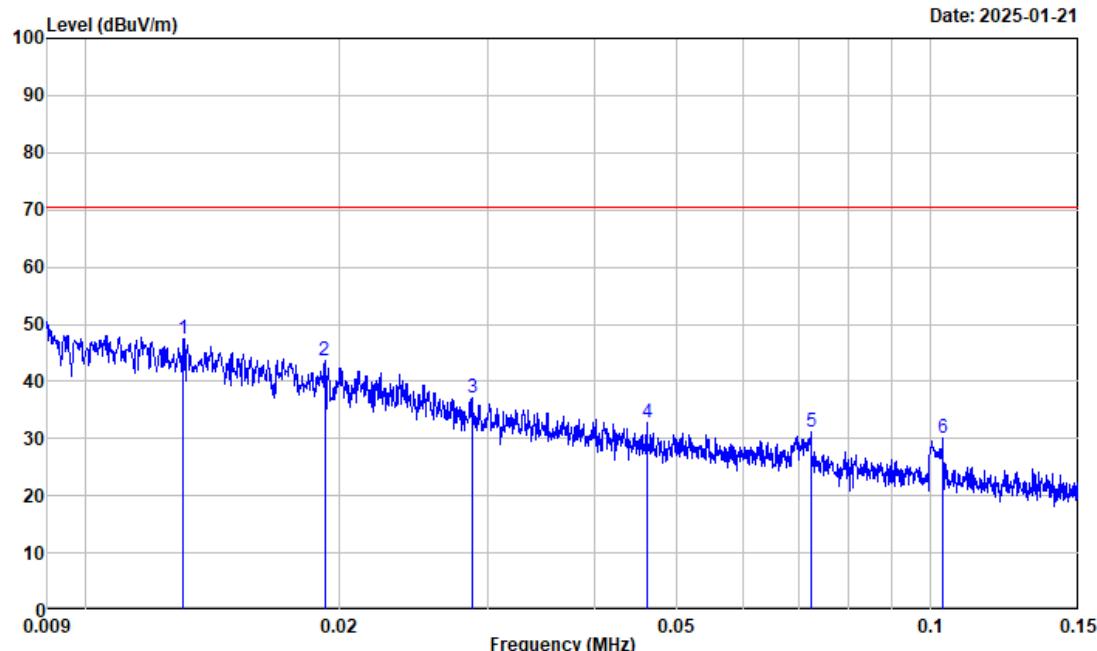
Over Limit = Measurement – Limit

3.6 Radiated emission Test Data

For Configuration 1:

9 kHz-30MHz:

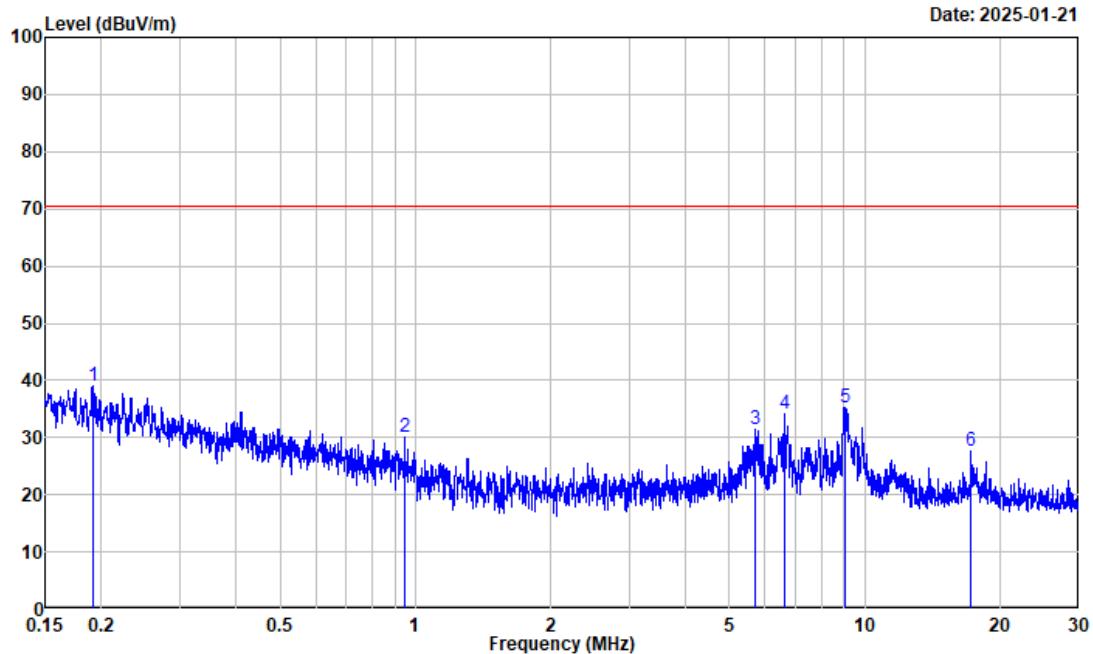
Test Date:	2025-01-21	Test By:	Luke Li
Environment condition:	Temperature: 22.5°C; Relative Humidity:41%; ATM Pressure: 101.1kPa		



Project No. : 2505P08635E
 Test Mode : Microwave
 Test Voltage : AC 120V/60Hz
 Environment : 22.5°C/41%R.H./101.1kPa
 Tested by : Luke Li
 Polarization : PARALLEL
 Remark : Maximum microwave output power

--No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector
1	0.013	12.27	35.27	47.54	70.50	-22.96	Peak
2	0.019	12.25	31.38	43.63	70.50	-26.87	Peak
3	0.029	11.84	25.34	37.18	70.50	-33.32	Peak
4	0.046	11.62	21.19	32.81	70.50	-37.69	Peak
5	0.072	13.72	17.33	31.05	70.50	-39.45	Peak
6	0.103	15.06	14.90	29.96	70.50	-40.54	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: RBW/VBW: 200Hz/1kHz, DET: PK



Project No. : 2505P08635E
 Test Mode : Microwave
 Test Voltage : AC 120V/60Hz
 Environment : 22.5°C/41%R.H./101.1kPa
 Tested by : Luke Li
 Polarization : PARALLEL
 Remark : Maximum microwave output power

--No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector
1	0.191	26.61	12.40	39.01	70.50	-31.49	Peak
2	0.949	29.28	0.93	30.21	70.50	-40.29	Peak
3	5.700	35.58	-4.05	31.53	70.50	-38.97	Peak
4	6.624	38.09	-4.03	34.06	70.50	-36.44	Peak
5	9.072	38.89	-3.66	35.23	70.50	-35.27	Peak
6	17.227	31.00	-3.28	27.72	70.50	-42.78	Peak

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

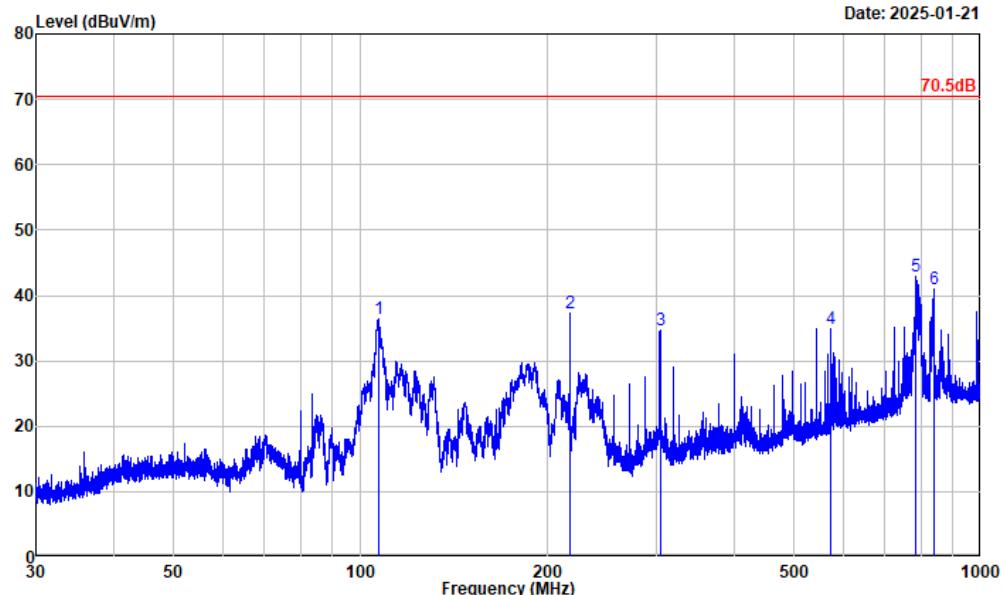
Result = Reading + Factor

Over Limit = Result - Limit

SA setting: RBW/VBW: 9kHz/30kHz, DET: PK

30MHz-1GHz:

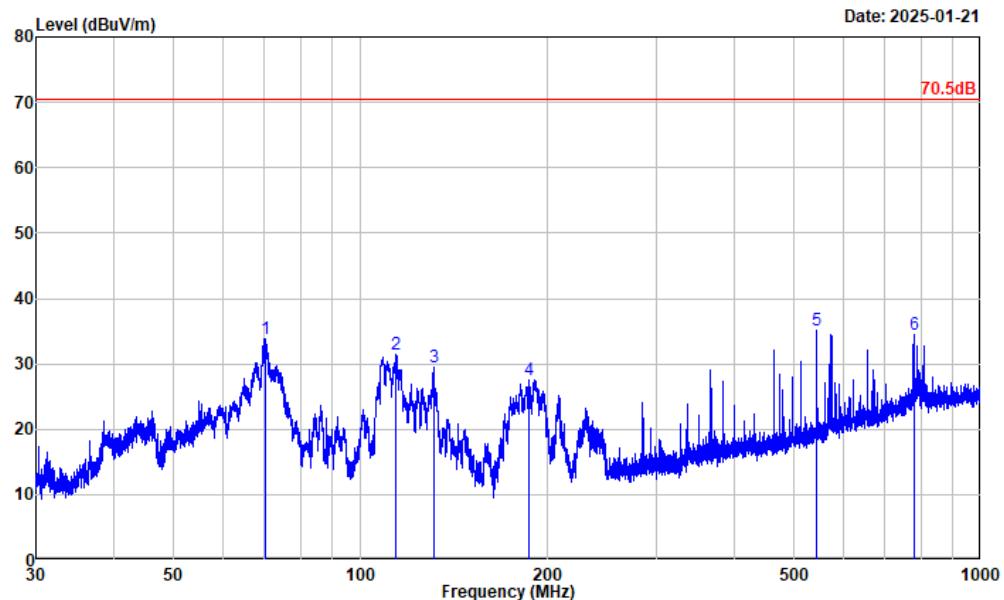
Test Date:	2025-01-21	Test By:	Luke Li
Environment condition:	Temperature: 22.5°C; Relative Humidity:41%; ATM Pressure: 101.1kPa		



Project No. : 2505P08635E
 Test Mode : Microwave
 Test Voltage : AC 120V/60Hz
 Environment : 22.5°C/41%R.H./101.1kPa
 Tested by : Luke Li
 Polarization : horizontal
 Remark : Maximum microwave output power

--No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector
1	107.040	50.36	-13.91	36.45	70.50	-34.05	Peak
2	217.258	50.89	-13.64	37.25	70.50	-33.25	Peak
3	304.076	45.87	-11.19	34.68	70.50	-35.82	Peak
4	573.368	40.77	-5.92	34.85	70.50	-35.65	Peak
5	785.093	45.38	-2.39	42.99	70.50	-27.51	Peak
6	839.182	43.26	-2.22	41.04	70.50	-29.46	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
 Final measure: RBW: 120kHz, DET: QP



Project No. : 2505P08635E
 Test Mode : Microwave
 Test Voltage : AC 120V/60Hz
 Environment : 22.5°C/41%R.H./101.1kPa
 Tested by : Luke Li
 Polarization : vertical
 Remark : Maximum microwave output power

--No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector

1	70.337	50.19	-16.40	33.79	70.50	-36.71	Peak
2	114.164	46.23	-14.70	31.53	70.50	-38.97	Peak
3	131.182	46.59	-17.18	29.41	70.50	-41.09	Peak
4	187.096	42.45	-14.86	27.59	70.50	-42.91	Peak
5	543.989	41.62	-6.51	35.11	70.50	-35.39	Peak
6	779.949	36.92	-2.39	34.53	70.50	-35.97	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
 Final measure: RBW: 120kHz, DET: QP

Above 1GHz:

Test Date:	2025-01-22	Test By:	Luke Li
Environment condition:	Temperature: 22.8°C; Relative Humidity:40%; ATM Pressure: 101.0kPa		

Frequency (MHz)	Reading level (dB μ V)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
2335.000	41.13	horizontal	-2.98	38.15	70.50	-32.35	Average
2512.273	45.66	horizontal	-2.63	43.03	70.50	-27.47	Average
2751.876	49.56	horizontal	-2.35	47.21	70.50	-23.29	Average
2358.913	40.49	vertical	-2.91	37.58	70.50	-32.92	Average
2512.910	46.34	vertical	-2.62	43.72	70.50	-26.78	Average
2795.076	48.45	vertical	-2.34	46.11	70.50	-24.39	Average

Second and third harmonic

700ml Water							
4926.000	48.49	horizontal	-1.71	46.78	70.50	-23.72	Average
7429.215	42.38	horizontal	-1.34	41.04	70.50	-29.46	Average
4928.964	51.03	vertical	-1.71	49.32	70.50	-21.18	Average
7426.000	42.63	vertical	-1.34	41.29	70.50	-29.21	Average

300ml Water

4943.000	52.37	Horizontal	-1.70	50.67	70.50	-19.83	Average
7424.560	44.83	Horizontal	-1.32	43.51	70.50	-26.99	Average
4941.215	51.64	Vertical	-1.71	49.93	70.50	-20.57	Average
7432.505	44.30	Vertical	-1.35	42.95	70.50	-27.55	Average

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Corrected Amplitude – Limit

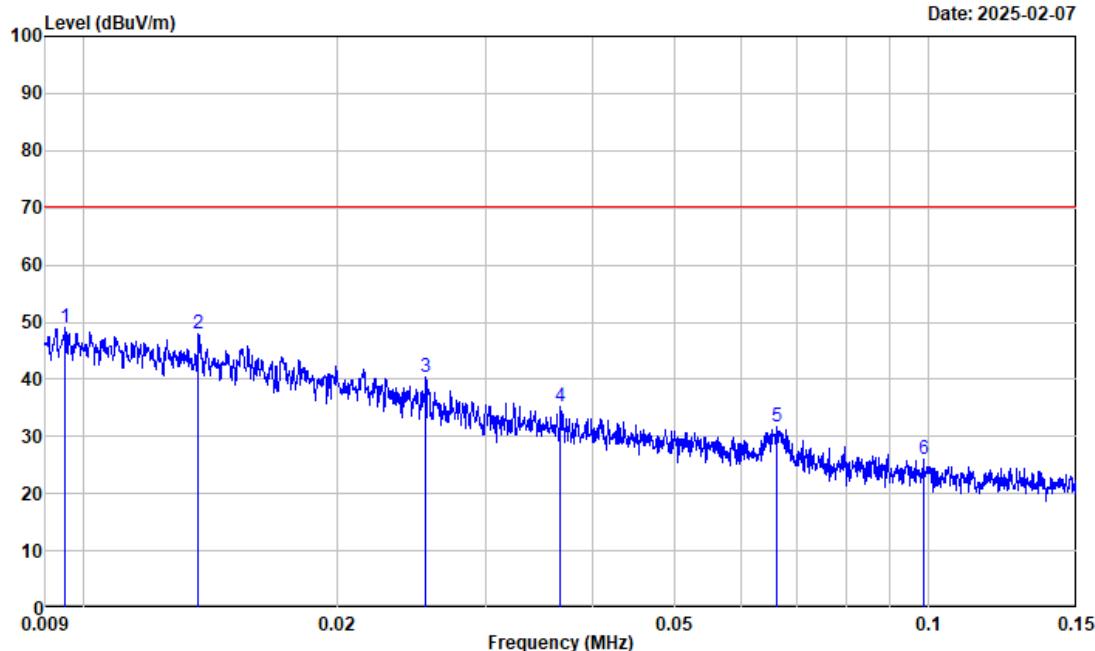
The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

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

For Configuration 2:

9 kHz-30MHz:

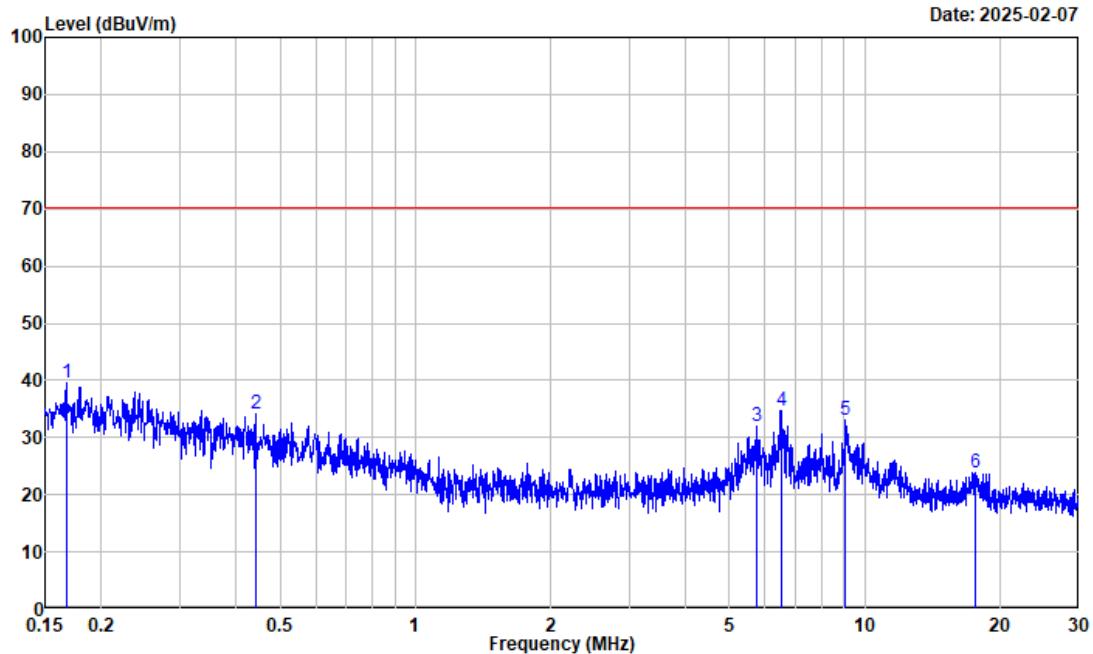
Test Date:	2025-02-07	Test By:	Luke Li
Environment condition:	Temperature: 21.2°C; Relative Humidity:44%; ATM Pressure: 101.3kPa		



Project No. : 2505P08635E
 Test Mode : Microwave
 Test Voltage : AC 120V/60Hz
 Environment : 21.2°C/44%R.H./101.3kPa
 Tested by : Luke Li
 Polarization : PARALLEL
 Remark : Maximum microwave output power

--No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector
1	0.010	11.40	37.61	49.01	70.11	-21.10	Peak
2	0.014	13.00	34.88	47.88	70.11	-22.23	Peak
3	0.025	13.07	27.42	40.49	70.11	-29.62	Peak
4	0.037	12.04	23.14	35.18	70.11	-34.93	Peak
5	0.066	13.62	18.17	31.79	70.11	-38.32	Peak
6	0.099	10.82	15.08	25.90	70.11	-44.21	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: RBW/VBW: 200Hz/1kHz, DET: PK



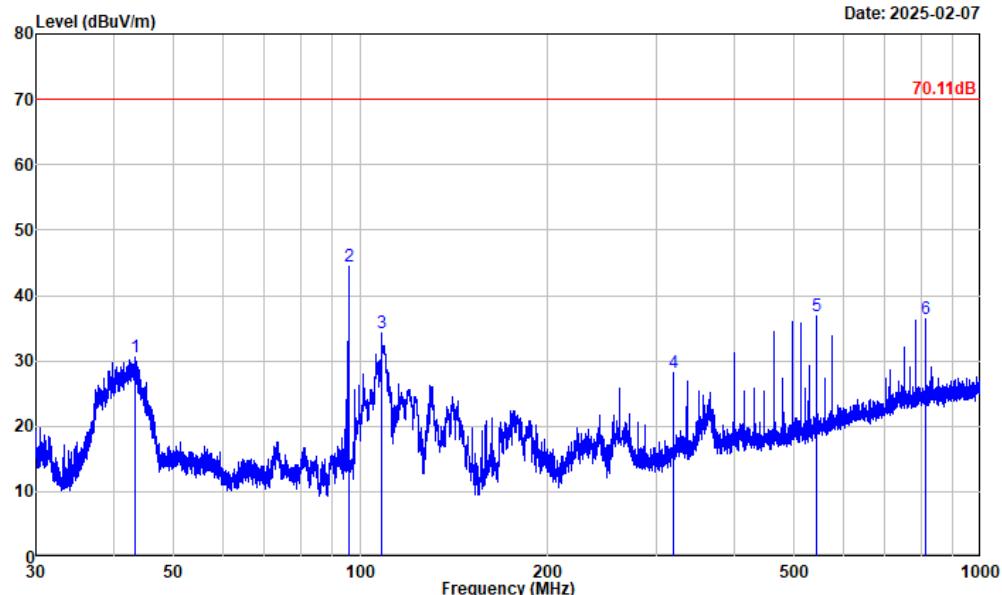
Project No. : 2505P08635E
 Test Mode : Microwave
 Test Voltage : AC 120V/60Hz
 Environment : 21.2°C/44%R.H./101.3kPa
 Tested by : Luke Li
 Polarization : PARALLEL
 Remark : Maximum microwave output power

--No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector
1	0.167	26.53	13.08	39.61	70.11	-30.50	Peak
2	0.441	27.44	6.70	34.14	70.11	-35.97	Peak
3	5.751	36.06	-4.05	32.01	70.11	-38.10	Peak
4	6.508	38.72	-4.04	34.68	70.11	-35.43	Peak
5	9.056	36.84	-3.66	33.18	70.11	-36.93	Peak
6	17.658	27.10	-3.20	23.90	70.11	-46.21	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: RBW/VBW: 9kHz/30kHz, DET: PK

30MHz-1GHz:

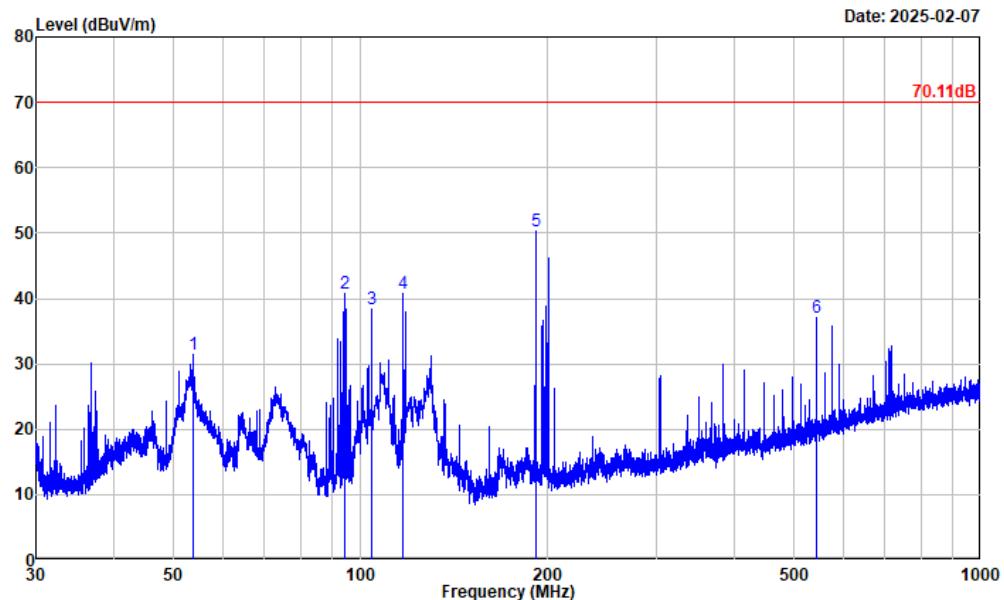
Test Date:	2025-02-07	Test By:	Luke Li
Environment condition:	Temperature: 21.2°C; Relative Humidity:44%; ATM Pressure: 101.3kPa		



Project No. : 2505P08635E
 Test Mode : Microwave
 Test Voltage : AC 120V/60Hz
 Environment : 21.2°C/44%R.H./101.3kPa
 Tested by : Luke Li
 Polarization : horizontal
 Remark : Maximum microwave output power

--No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector
1	43.391	42.83	-12.26	30.57	70.11	-39.54	Peak
2	95.678	59.00	-14.59	44.41	70.11	-25.70	Peak
3	108.172	48.20	-13.92	34.28	70.11	-35.83	Peak
4	320.077	38.99	-10.82	28.17	70.11	-41.94	Peak
5	543.989	43.42	-6.51	36.91	70.11	-33.20	Peak
6	816.326	38.62	-2.28	36.34	70.11	-33.77	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
 Final measure: RBW: 120kHz, DET: QP



Project No. : 2505P08635E
 Test Mode : Microwave
 Test Voltage : AC 120V/60Hz
 Environment : 21.2°C/44%R.H./101.3kPa
 Tested by : Luke Li
 Polarization : vertical
 Remark : Maximum microwave output power

--No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector

1	53.646	43.69	-12.34	31.35	70.11	-38.76	Peak
2	94.553	55.41	-14.75	40.66	70.11	-29.45	Peak
3	104.216	52.11	-13.82	38.29	70.11	-31.82	Peak
4	117.309	55.98	-15.31	40.67	70.11	-29.44	Peak
5	191.829	64.59	-14.37	50.22	70.11	-19.89	Peak
6	543.989	43.58	-6.51	37.07	70.11	-33.04	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK
 Final measure: RBW: 120kHz, DET: QP

Above 1GHz:

Test Date:	2025-02-14	Test By:	Luke Li
Environment condition:	Temperature: 22.3°C; Relative Humidity:55%; ATM Pressure: 101.1kPa		

Frequency (MHz)	Reading level (dB μ V)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
2352.176	41.96	horizontal	-2.93	39.03	70.11	-31.08	Average
2513.757	45.03	horizontal	-2.62	42.41	70.11	-27.70	Average
4197.599	42.53	horizontal	-3.71	38.82	70.11	-31.29	Average
2369.185	45.16	vertical	-2.90	42.26	70.11	-27.85	Average
2539.270	45.29	vertical	-2.61	42.68	70.11	-27.43	Average
4189.095	44.61	vertical	-3.69	40.92	70.11	-29.19	Average
Second and third harmonic							
700ml Water							
4920.460	44.10	horizontal	-1.70	42.40	70.11	-27.71	Average
7429.215	40.96	horizontal	-1.34	39.62	70.11	-30.49	Average
4920.460	40.13	vertical	-1.70	38.43	70.11	-31.68	Average
7420.710	42.01	vertical	-1.32	40.69	70.11	-29.42	Average
300ml Water							
4917.060	45.25	horizontal	-1.71	43.54	70.11	-26.57	Average
7429.601	41.54	horizontal	-1.34	40.20	70.11	-29.91	Average
4923.770	40.81	vertical	-1.70	39.11	70.11	-31.00	Average
7420.502	41.69	vertical	-1.32	40.37	70.11	-29.74	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.

3.7 Radio frequency exposure

For Configuration 1:

Test Date:	2025-01-20	Test By:	Ryan Zhang
Environment condition:	Temperature: 22.6°C; Relative Humidity:42%; ATM Pressure: 100.8kPa		

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 **0.15mW/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.

For Configuration 2:

Test Date:	2025-02-05	Test By:	Ryan Zhang
Environment condition:	Temperature: 21.7°C; Relative Humidity:45%; ATM Pressure: 100.8kPa		

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 **0.12mW/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.

4 Test Setup Photo

Please refer to the attachment 2505P08635E Test Setup photo.

5 E.U.T Photo

Please refer to the attachment 2505P08635E External photo and 2505P08635E Internal photo.

---End of Report---