

TEST REPORT

Applicant Name: Whirlpool Microwave Products Development Limited.
Address: 17th Fl, Elite Centre, 22 Hung To Rd, Kwun Tong, Hong Kong
Report Number: 2401S71983E-EM-00
FCC ID: PR4SMARTLPKA

Test Standard (s)

FCC PART 18

Sample Description

Product Type: Household microwave oven
Model No.: WMML5530
Multiple Model(s) No.: N/A
Trade Mark: Whirlpool
Date Received: 2024/04/22
Issue Date: 2024/05/31

Test Result:	Pass [▲]
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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Joson Xiao
EMC Engineer

Approved By:

Moon Liu

Moon Liu
EMC Supervisor

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2401S71983E-EM-00	Original Report	2024/05/31

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Household microwave oven
Tested Model	WMML5530
Multiple Model(s)	N/A
Voltage Range	AC 120V/60Hz
Highest operating frequency [#]	2450 MHz
Microwave Output power [#]	1000W
Microwave Input power [#]	1800W
Sample serial number	2KCV-1 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition

Objective

This report is in accordance with Part 2-Subpart J, and Part 18-Subparts A, B and C of the Federal Communication Commissions rules and regulations.

The objective of the manufacturer is to determine compliance with FCC Part 18 limits.

Measurement Uncertainty

Item	Frequency Range		Expanded Measurement uncertainty
Conducted Emissions	AC Mains	150kHz ~30MHz	3.84dB(k=2, 95% level of confidence)
Radiated Emissions	9kHz - 30MHz	/	3.30dB(k=2, 95% level of confidence)
	30MHz~200MHz	Horizontal	4.48dB(k=2, 95% level of confidence)
	30MHz~200MHz	Vertical	4.55dB(k=2, 95% level of confidence)
	200MHz~1000MHz	Horizontal	4.85dB(k=2, 95% level of confidence)
	200MHz~1000MHz	Vertical	5.05dB(k=2, 95% level of confidence)

Note: 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.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

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. : 715558, the FCC Designation No. : CN5045.

Each test item follows test standards and with no deviation.

OPERATING CONDITION/TEST CONFIGURATION

Description of Test Configuration

The EUT was operated at maximum (continuous) RF output power. The loads consisted of water in a glass beaker in the amounts specified in the test procedure.

Test Mode: Microwave heating

EUT Exercise Software

No exercise software was used.

Special Accessories

No special accessory was used.

Equipment Modifications

No modifications were made to the EUT tested.

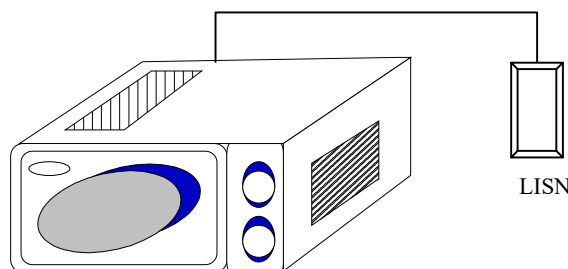
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

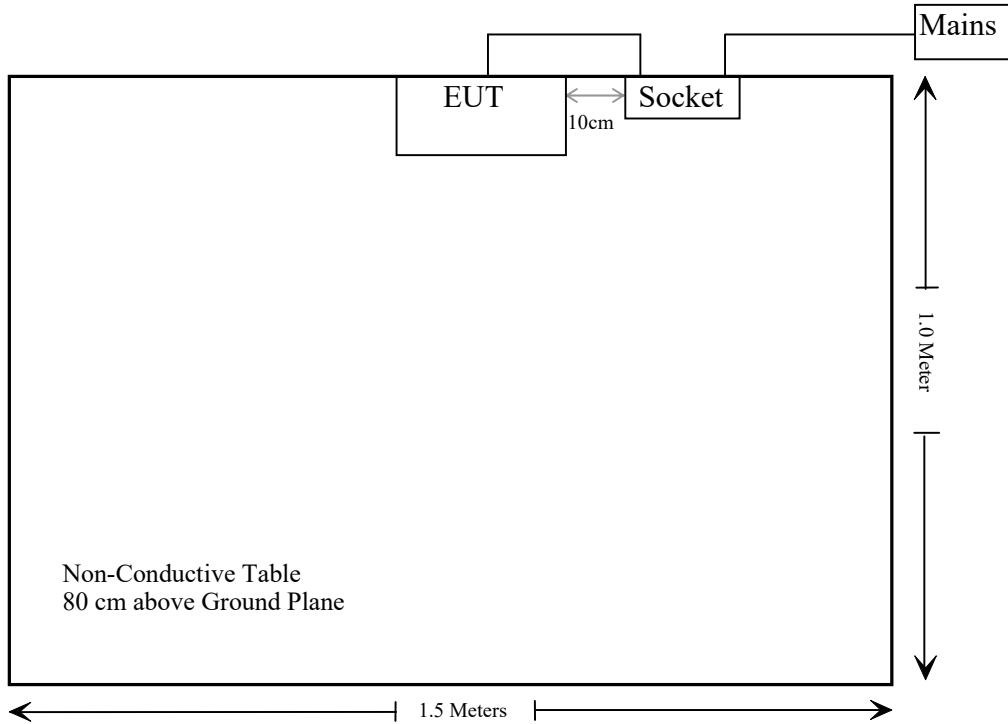
External Cable List and Details

Cable Description	Length (m)	From/Port	To
Unshielded un-detachable AC cable	1.2	Mains	Socket
Unshielded un-detachable AC cable	0.9	EUT	Socket

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULT

FCC Rules	Description of Test	Results
§18.307	AC Line Conducted Emissions	Compliant
FCC/OST MP-5 FCC §18.301	Radiation Hazard Measurement	Compliant
§18.305	Field Strength	Compliant
FCC/§18.313 §1.1310 §1.1091	Maximum Permissible Exposure	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/01/16	2025/01/15
Rohde & Schwarz	LISN	ENV216	101613	2024/01/16	2025/01/15
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2023/08/03	2024/08/02
Unknown	CE Cable	CE Cable	UF A210B-1-0720-504504	2023/08/03	2024/08/02
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
Radiation Hazard Measurement					
R&S	EMI Test Receiver	ESR3	102455	2024/01/16	2025/01/15
Sonoma instrument	Pre-amplifier	310 N	186238	2023/06/08	2024/06/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber Cable 1	F-03-EM236	2023/08/03	2024/08/02
Unknown	Cable	Chamber Cable 4	EC-007	2023/08/03	2024/08/02
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26
COM-POWER	Pre-amplifier	PA-122	181919	2023/06/29	2024/06/28
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	0735	2023/10/08	2024/10/07
Unknown	RF Cable	UFA147	219661	2023/10/08	2024/10/07
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
A.H.System	Pre-amplifier	PAM-1840VH	190	2023/08/02	2024/08/01
UTIFLEX	RF Cable	NO. 13	232308-001	2023/08/03	2024/08/02
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §18.313, §1.1310, §2.1091- MAXIMUM PERMISSIBLE EXPOSURE

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission’s guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)
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
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

Measurement

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Joson Xiao on 2024-04-29.

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

A 275 mL 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 0.1mW/cm² observed at any point 5 cm or more from the external surface of the oven.

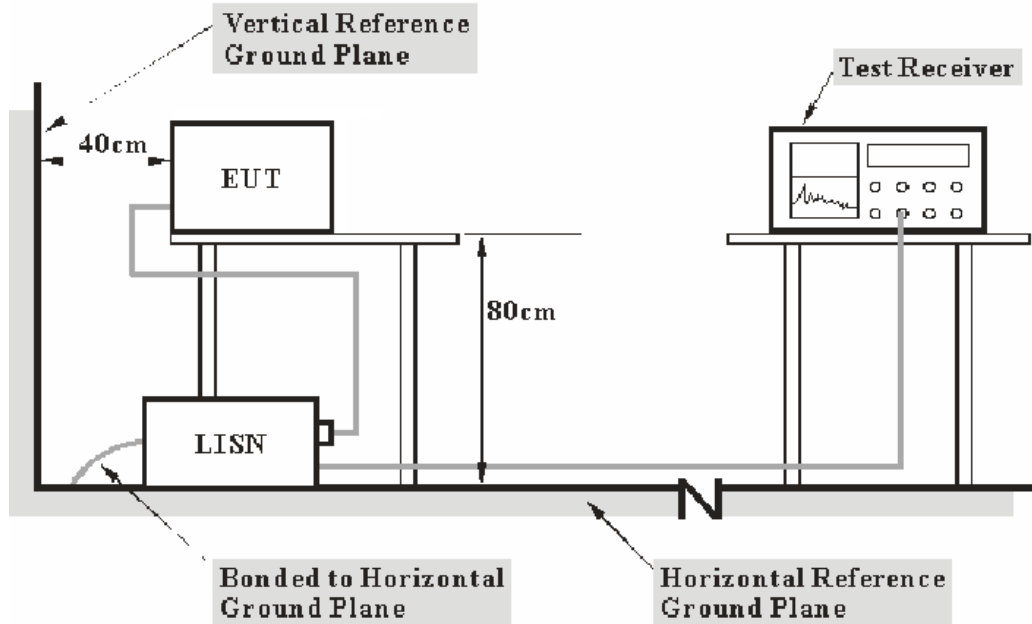
A maximum of 1.0 mW/cm² is allowed in accordance with the applicable Federal Standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.

CONDUCTED EMISSIONS

Applicable Standard

FCC §18.307

EUT Setup



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

The setup of EUT is according with MP-5: 1986 measurement procedure. Specification used was with the FCC Part 18.

The socket was connected to a 120 VAC/ 60Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Test Data**Environmental Conditions**

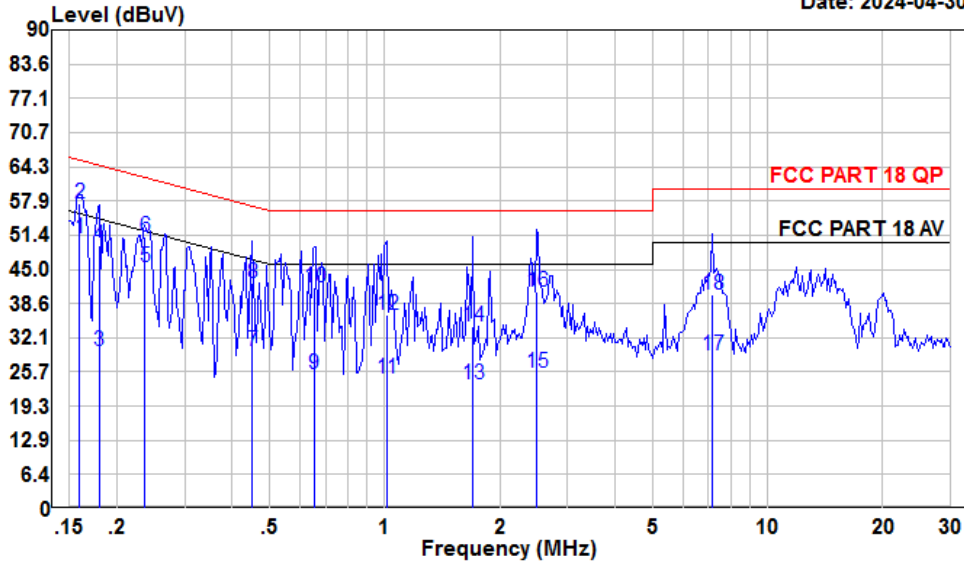
Temperature:	25 °C
Relative Humidity:	72 %
ATM Pressure:	101.0 kPa

The testing was performed by Macy Shi on 2024-04-30.

Test Mode: Microwave heating

AC 120V/60 Hz, Line

Date: 2024-04-30



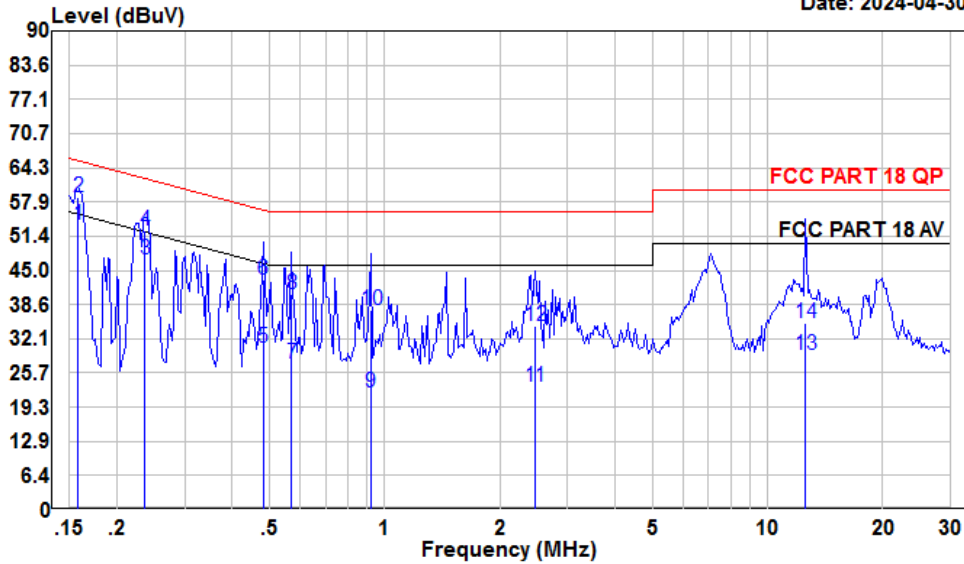
Condition: Line
 Project : 2401S71983E-EM
 Test Mode: Microwave heating

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.16	30.05	50.80	10.60	10.15	54.47	-3.67	Average
2	0.16	36.73	57.48	10.60	10.15	65.47	-7.99	QP
3	0.18	8.90	29.63	10.60	10.13	54.50	-24.87	Average
4	0.18	28.80	49.53	10.60	10.13	64.50	-14.97	QP
5	0.24	24.74	45.54	10.62	10.18	52.22	-6.68	Average
6	0.24	30.23	51.03	10.62	10.18	62.22	-11.19	QP
7	0.45	8.67	29.54	10.69	10.18	46.85	-17.31	Average
8	0.45	21.68	42.55	10.69	10.18	56.85	-14.30	QP
9	0.65	4.40	25.31	10.70	10.21	46.00	-20.69	Average
10	0.65	20.80	41.71	10.70	10.21	56.00	-14.29	QP
11	1.01	3.50	24.40	10.70	10.20	46.00	-21.60	Average
12	1.01	15.60	36.50	10.70	10.20	56.00	-19.50	QP
13	1.70	2.39	23.28	10.78	10.11	46.00	-22.72	Average
14	1.70	13.47	34.36	10.78	10.11	56.00	-21.64	QP
15	2.49	4.64	25.59	10.74	10.21	46.00	-20.41	Average
16	2.49	19.83	40.78	10.74	10.21	56.00	-15.22	QP
17	7.18	7.92	28.93	10.79	10.22	50.00	-21.07	Average

	Freq	Read Level	LISN Level	Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
18	7.18	19.12	40.13	10.79	10.22	60.00	-19.87	QP

AC 120V/60 Hz, Neutral

Date: 2024-04-30



Condition: Neutral
 Project : 2401S71983E-EM
 Test Mode: Microwave heating

	Read Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.16	32.79	53.50	10.56	10.15	55.56	-2.06	Average
2	0.16	37.93	58.64	10.56	10.15	65.56	-6.92	QP
3	0.24	26.43	47.06	10.45	10.18	52.22	-5.16	Average
4	0.24	31.90	52.53	10.45	10.18	62.22	-9.69	QP
5	0.48	9.52	30.37	10.69	10.16	46.32	-15.95	Average
6	0.48	22.41	43.26	10.69	10.16	56.32	-13.06	QP
7	0.57	6.57	27.47	10.70	10.20	46.00	-18.53	Average
8	0.57	19.50	40.40	10.70	10.20	56.00	-15.60	QP
9	0.92	1.00	22.03	10.85	10.18	46.00	-23.97	Average
10	0.92	16.40	37.43	10.85	10.18	56.00	-18.57	QP
11	2.46	2.64	23.25	10.40	10.21	46.00	-22.75	Average
12	2.46	14.05	34.66	10.40	10.21	56.00	-21.34	QP
13	12.58	8.03	29.01	10.80	10.18	50.00	-20.99	Average
14	12.58	14.18	35.16	10.80	10.18	60.00	-24.84	QP

RADIATION HAZARD MEASUREMENT

Applicable Standard

FCC §18.301 & FCC/OST MP-5

Environmental Conditions

Temperature:	24~26 °C
Relative Humidity:	51~55 %
ATM Pressure:	101.0~101.2 kPa

The testing was performed by Joson Xiao on 2024-04-29 and Dylan Yang on 2024-04-30 .

Input Power

Input power and current was measured using a power analyzer. A 1000 mL water load was placed in the center of the oven and the oven was operated at maximum output power. A 1000mL water load was chosen for its compatibility with the procedure commonly used by manufacturers to determine their input ratings.

Input Voltage (V_{AC}/Hz)	Input Current (Amps)	Measured Input Power (Watts)	Rated Input Power (Watts)
120.1	14.6	1753.5	1800

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

Load for Microwave ovens

For all measurements, the energy developed by the oven was absorbed by a dummy load consisting of a quantity of tap water in a beaker. If the oven was provided with a shelf or other utensil support, this support was in its initial normal position. For ovens rated at 1000 watts or less power output, the beaker contained quantities of water as listed in the following subparagraphs. For ovens rated at more than 1000 watts output, each quantity was increased by 50% for each 500watts or fraction thereof in excess of 1000 watts. Additional beakers were used if necessary.

- Load for power output measurement: 1000 milliliters of water in the beaker located in the center of the oven.
- Load for frequency measurement: 1000 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 700 and the other of 300 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.

RF Output Power Measurement

A cylindrical container of borosilicate glass is used for the test. It has a maximum thickness of 3 mm, an external diameter of approximately 190 mm and a height of approximately 90 mm. The mass of the container is determined.

At the start of the test, the oven and the empty container are at ambient temperature. Water having an initial temperature is used for the test. The water temperature is measured immediately before it is poured into the container.

A quantity of 1000 g ± 5 g of water is added to the container and its actual mass obtained. The container is then immediately placed in the centre of the oven shelf, which is in its lowest normal position. The oven is operated and the time for the water temperature to attain is measured. The oven is then switched off and the final water temperature is measured within 60 s.

m _w (g)	m _c (g)	T ₀ (°C)	T ₁ (°C)	T ₂ (°C)	t (s)
1000	377.0	25.0	9.8	20.5	48

RF Output Power = $(4.187 \times 1000 \times (20.5 - 9.8) + 0.55 \times 377.0 \times (20.5 - 25)) / 48 = 913.91$ Watts

- P is the microwave power output, in watts;
- m_w is the mass of the water, in grams;
- m_c is the mass of the container, in grams;
- T₀ is the ambient temperature, in degrees Celsius;
- T₁ is the initial temperature of the water, in degrees Celsius;
- T₂ is the final temperature of the water, in degrees Celsius;
- t is the heating time, in seconds, excluding the magnetron filament heating-up time.

The measurement output power was found to be less than 500 watts. Therefore, in accordance with Section 18.305 of Subpart-C, the measured out-of-band emissions were compared to the limit of 25µV/meter at a 300-meter measurement distance.

☒ The measured output power was found to exceed 500 watts. Therefore, in accordance with Section 18.305 of Subpart-C, the measured out-of-band emissions were compared with the limit calculated as following:

$$LFS = 25 * \sqrt{\text{Power Output}/500}$$

$$LFS = 25 * \sqrt{913.91/500}$$

$$LFS = 33.80$$

Where: LFS is the maximum allowable field strength for out-of-band emissions in $\mu\text{V}/\text{meter}$ at a 300-meter measurement distance. Power Output is the measured output power in watts.

LFS $\mu\text{V}/\text{m}@300\text{m}$	$\text{dB}\mu\text{V}/\text{m}@300\text{m}$	$\text{dB}\mu\text{V}/\text{m}@3\text{m}$
33.80	30.58	70.58

Note: $\text{Limit}(\text{dB}\mu\text{V}/\text{m}@3\text{m}) = \text{Limit}(\text{dB}\mu\text{V}/\text{m}@300\text{m}) + 40(\text{dB})$

Operating Frequency Measurement

Variation in Operating Frequency with Time

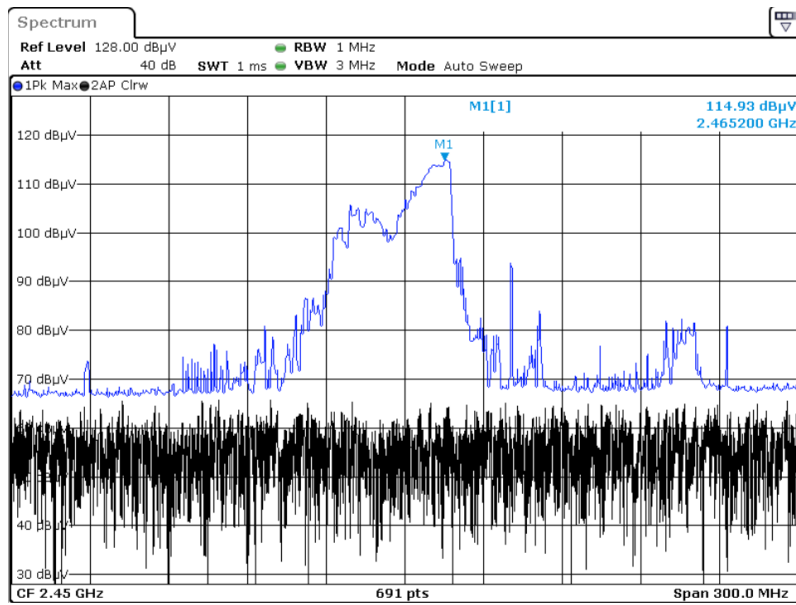
The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000mL water load was placed in the center of the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to 20 percent of the original load.

The results of this test are as follows:

Frequency at Start time (MHz)	Frequency at End time (MHz)
2465.20	2463.89

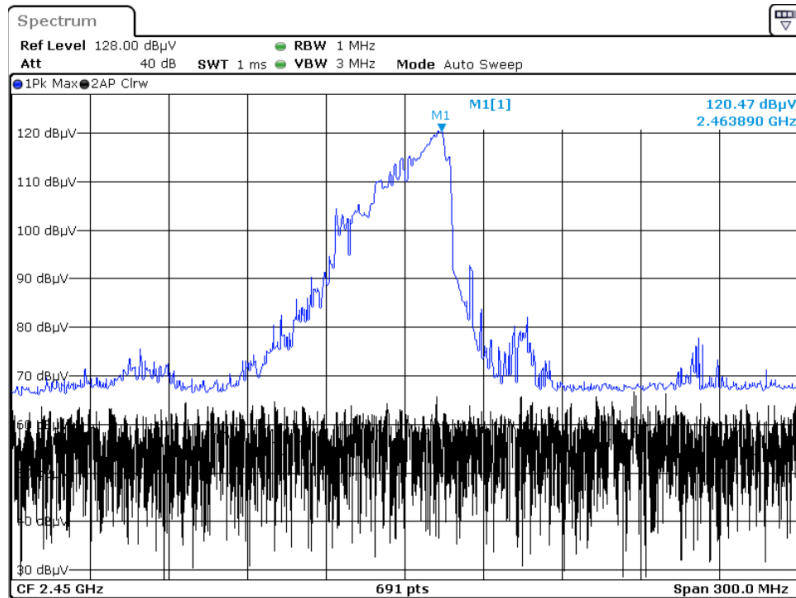
Refer to data pages for details of the variation in operating frequency with time measurement.

Start time:



Date: 30. APR. 2024 14:25:29

End time:



Date: 30. APR. 2024 14:36:14

Variation in Operating Frequency with Line Voltage

The EUT was operated / warmed by at least 10 minutes of use with a 1000 mL 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.

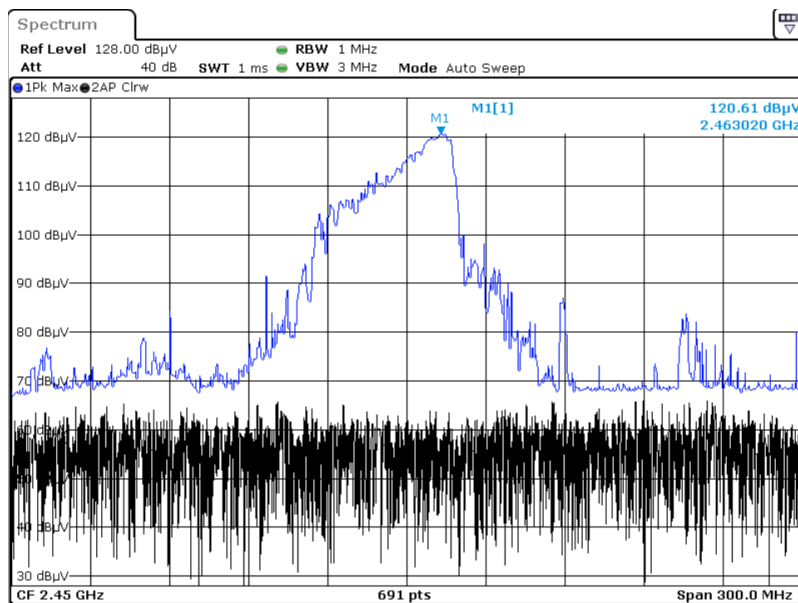
The results of this test are as follows:

Line voltage varied from 96 V_{AC} to 150 V_{AC}.

(Low voltage) Frequency (MHz)	(High voltage) Frequency (MHz)
2463.02	2467.37

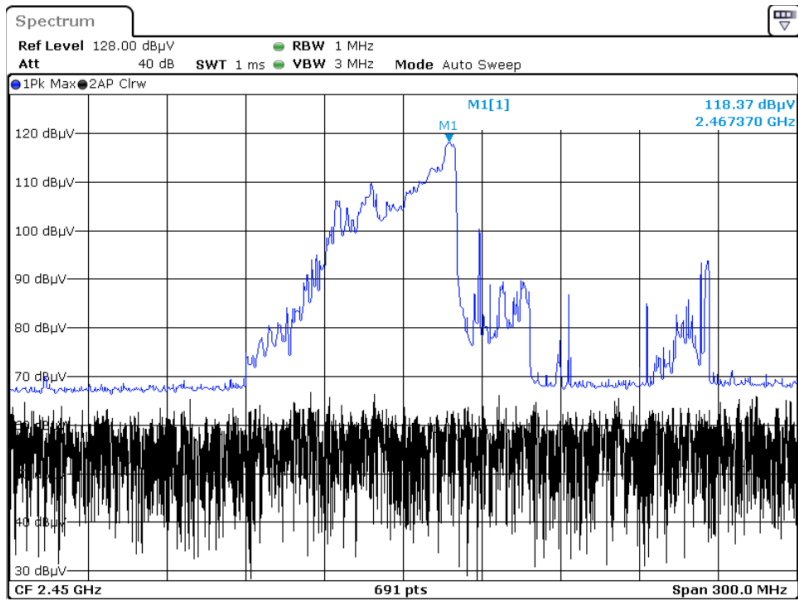
Please refer to following pages for details of the variation in operating frequency with line voltage measurement.

Low Voltage:



Date: 30.APR.2024 15:21:17

High Voltage:



Date: 30.APR.2024 15:31:21

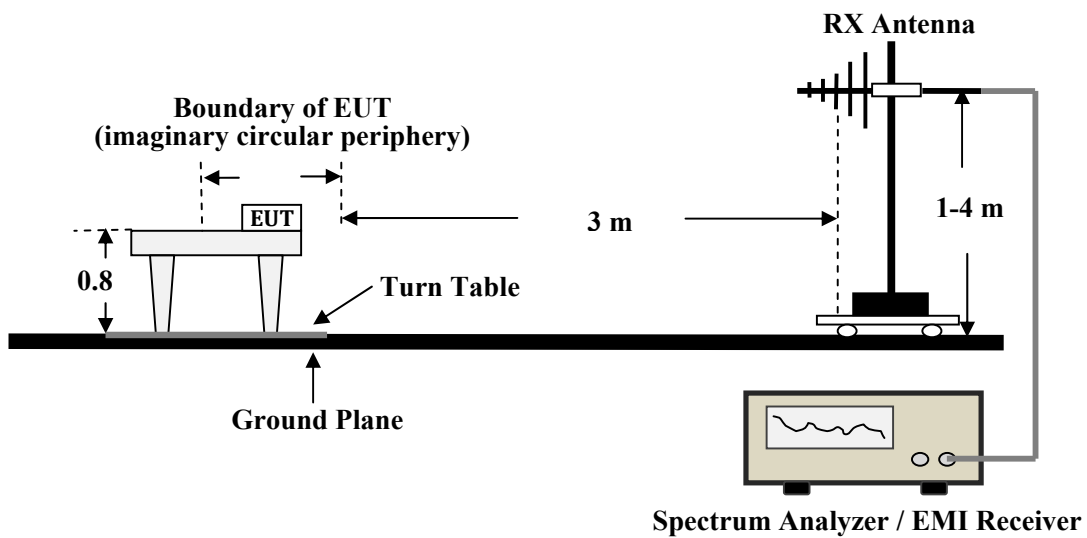
RADIATED EMISSIONS

Applicable Standard

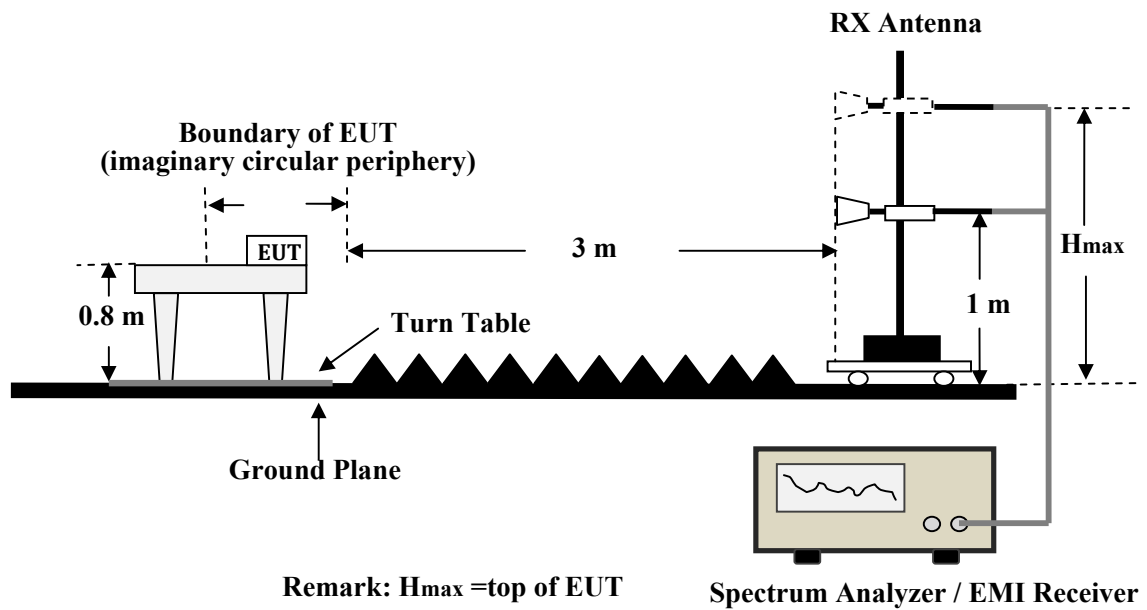
FCC §18.305 and FCC §18.309

EUT Setup

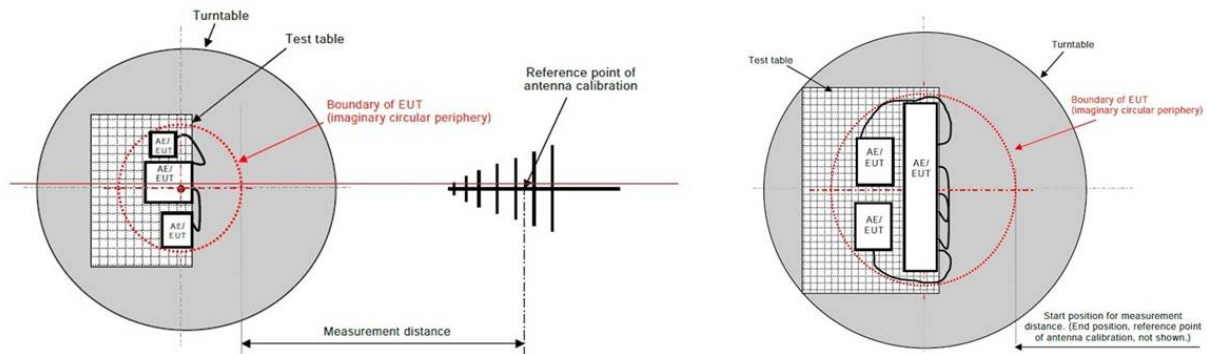
Below 1GHz for Radiated Emissions



Above 1GHz for Radiated Emissions



Radiated Emissions Setup Configuration



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the FCC MP - 5. The specification used was the FCC part 18 limits.

The socket was connected to 120 VAC/60 Hz power source.

EMI Test Receiver Setup and Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

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	Measurement
30MHz – 1000 MHz	100 kHz	300 kHz	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK.
	1MHz	10 Hz	/	Ave.

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions to ensure that the EUT complied with all installation combinations.

The EUT was in the normal (naïve) operating mode during the final qualification test to represent the worst results.

Level & Over Limit Calculation

The Level is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Read Level. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

$$\text{Level} = \text{Read Level} + \text{Factor}$$

The “**Over Limit**” Column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of -6 dB means the emission is 6 dB below the limit. The equation for margin calculation is as follows:

$$\text{Over limit} = \text{Level} - \text{Limit}$$

Test Data and Plots

Environmental Conditions

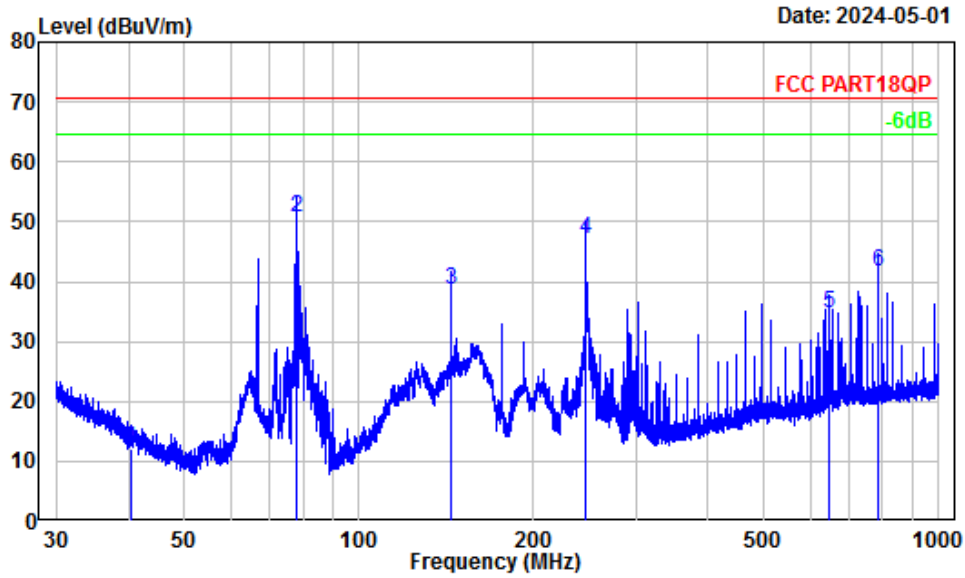
Temperature:	24~26 °C
Relative Humidity:	51~56 %
ATM Pressure:	101.0~101.2 kPa

The testing was performed by Anson Su on 2024-05-01 for below 1GHz and by Dylan Yang on 2024-04-30 for above 1GHz.

Test Mode: Microwave heating

30 MHz – 1 GHz

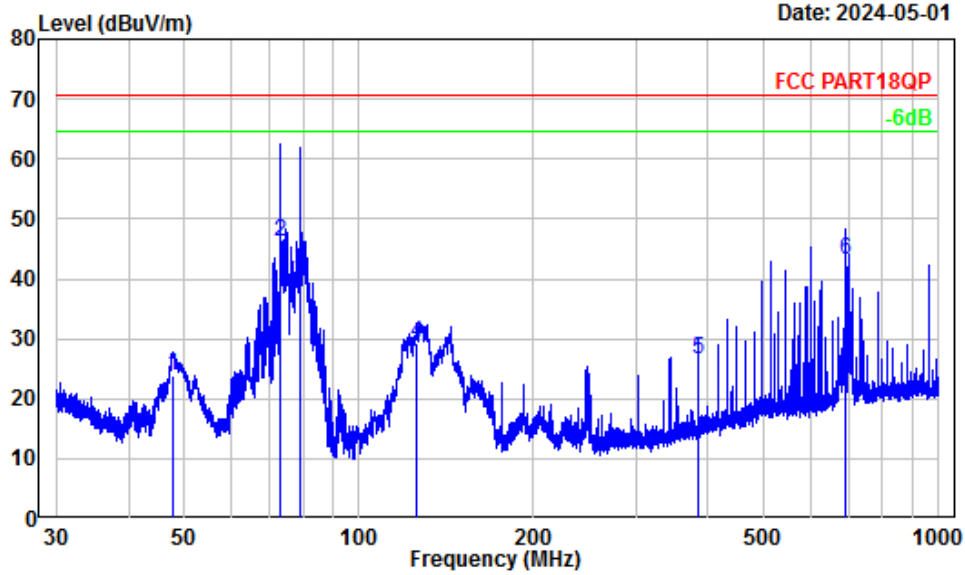
Horizontal



Site : Chamber A
 Condition : 3m Horizontal
 Project Number: 2401S71983E-EM
 Test Mode : Microwave heating

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.29	-11.70	23.79	12.09	70.58	-58.49	QP
2	78.10	-18.11	68.93	50.82	70.58	-19.76	QP
3	144.02	-13.03	51.56	38.53	70.58	-32.05	QP
4	246.17	-14.45	61.54	47.09	70.58	-23.49	QP
5	647.95	-6.72	41.57	34.85	70.58	-35.73	QP
6	784.06	-5.38	47.03	41.65	70.58	-28.93	QP

Vertical

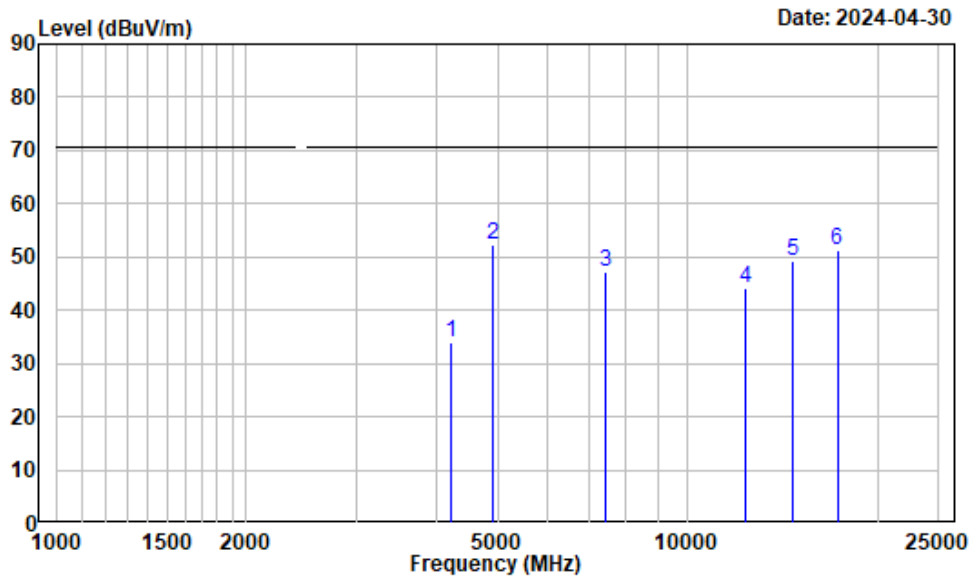


Site : Chamber A
 Condition : 3m Vertical
 Project Number: 2401S71983E-EM
 Test Mode : Microwave heating

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	47.62	-17.33	41.17	23.84	70.58	-46.74	QP
2	73.30	-18.68	65.00	46.32	70.58	-24.26	QP
3	79.03	-18.73	60.00	41.27	70.58	-29.31	QP
4	125.56	-12.65	42.03	29.38	70.58	-41.20	QP
5	384.10	-11.28	37.98	26.70	70.58	-43.88	QP
6	689.26	-6.69	50.01	43.32	70.58	-27.26	QP

1 – 25 GHz

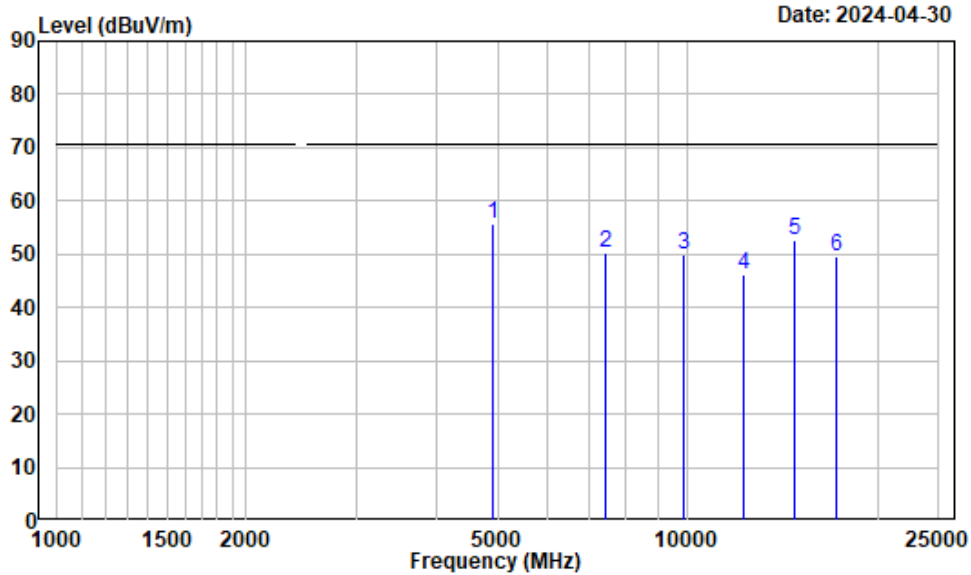
Horizontal



Site : chamber B
 Condition : Horizontal
 Project Number: 2401S71983E-EM
 Test mode : Microwave heating

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4228.000	0.53	33.43	33.96	70.58	-36.62	Average
2	4921.000	2.63	49.67	52.30	70.58	-18.28	Average
3	7399.000	9.63	37.72	47.35	70.58	-23.23	Average
4	12322.000	13.42	30.68	44.10	70.58	-26.48	Average
5	14731.000	17.24	32.09	49.33	70.58	-21.25	Average
6	17272.000	19.14	32.31	51.45	70.58	-19.13	Average

Vertical



Site : chamber B
 Condition : Vertical
 Project Number: 2401S71983E-EM
 Test mode : Microwave heating

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4930.000	2.62	52.94	55.56	70.58	-15.02	Average
2	7396.000	9.64	40.72	50.36	70.58	-20.22	Average
3	9844.000	12.10	37.98	50.08	70.58	-20.50	Average
4	12313.000	13.43	32.61	46.04	70.58	-24.54	Average
5	14773.000	17.04	35.49	52.53	70.58	-18.05	Average
6	17236.000	18.89	30.77	49.66	70.58	-20.92	Average

EUT PHOTOGRAPHS

Please refer to the attachment 2401S71983E-EM External photo and 2401S71983E-EM Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401S71983E-EM Test Setup photo.

******* END OF REPORT *******