

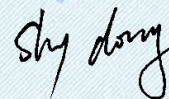
TEST REPORT

Report No..... : KS2307S3683E
Applicant..... : Jafanda LLC
Address..... : 1309 Coffeen Avenue STE 4304 Sheridan, Wyoming 82801
Manufacturer..... : Dongguan PureMate Technology Co.,Ltd.
Address..... : Floor 6,Building No.4 ,Haiyong Technology Park, Xiawei shenwo industrial zone,Zhutang Village,Fenggang Town,Dongguan City,Guangdong Province, China
Product Name..... : Air Purifier
Trademark..... : **JAFANDA**
Model/Type reference..... : JF1500
Standard..... : 47 CFR Part 15, Subpart B
Date of Receipt..... : July 17, 2023
Date of Test Date..... : July 17, 2023 to July 24, 2023
Date of issue..... : September 12, 2023
Test result..... : Pass

Prepared by: Chad Lin
(Printed name + Signature)



Approved by: Sky Dong
(Printed name + Signature)



Testing Laboratory Name...: KSIGN(Guangdong) Testing Co., Ltd.

Address..... : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:
47 CFR Part 15, Subpart B: Unintentional Radiators

1.2. Report Version

Revised No.	Date of issue	Description
01	September 12, 2023	Original

1.3. Test Description

Test Item	Standard	Requirement	Result
Conducted emissions on AC mains	47 CFR Part 15, Subpart B	15.107, Class B	Pass
Radiated emissions (Below 1GHz)	47 CFR Part 15, Subpart B	15.109, Class B	Pass

1.4. Test Facility

KSIGN(Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L13261

KSIGN(Guangdong) Testing Co., Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5457.01

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing

ISED#: 25693 CAB identifier.: CN0096

KSIGN(Guangdong) Testing Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

FCC-Registration No.: 294912 Designation Number: CN1328

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

1.5. Measurement Uncertainty

Test Items	Measurement Uncertainty
Conducted Emission (150k-30MHz)	± 3.34dB
RE (30-1000MHz)	± 5.7dB

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

2. GENERAL INFORMATION

2.1. General Description Of EUT

Test Sample Number:	1-1 (Normal Sample)
Product Name:	Air Purifier
Trademark:	JAFÄNDÄ
Model / Type reference:	JF1500
Ratings:	Input: AC120V/60Hz

2.2. Accessory Equipment Information

The EUT was tested as an independent device.

2.3. Description of Test Modes

No.	Title	Description of Mode
Test Mode1	Minimum working mode	N/A
Test Mode2	Maximum working mode	N/A

2.4. Measurement Instruments List

Conducted emissions on AC mains				
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
LISN	R&S	ENV432	1326.6105.02	2024-02-17
EMI Test Receiver	R&S	ESR	102524	2024-02-17
Manual RF Switch	JS TOYO	/	MSW-01/002	2024-02-17
ISN CAT6	Schwarzbeck	CAT5 8158	227	2024-02-17
Color Signal Generator	Philips	PM5418	672926	2024-02-17
Power Absorbing Clamp	R&S	MDS-21	100925	2024-02-19

Radiated emissions (Below 1GHz)				
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Color Signal Generator	Philips	PM5418	672926	2024-02-17
Ultra-Broadband logarithmic period Antenna	Schwarzbeck	VULB 9163	1230	2025-02-18
Pre-Amplifier	Schwarzbeck	BBV 9745	9745#129	2024-02-17
Broadcast Television Signal Generator	R&S	SFE100	141038	2024-02-17
Analog Signal Generator	Agilent	8648A	3847M00445	2024-02-17
EMI Test Receiver	R&S	ESR	102525	2024-02-17
Loop Antenna	Beijin ZHINAN	ZN30900C	18050	2024-02-19
Horn Antenna	Schwarzbeck	BBHA 9120 D	2023	2026-02-19
Pre-Amplifier	EMCI	EMC051835SE	980662	2024-02-17
Spectrum Analyzer	Keysight	N9020A	MY46471971	2024-02-17

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3. Emission Test Results (EMI)

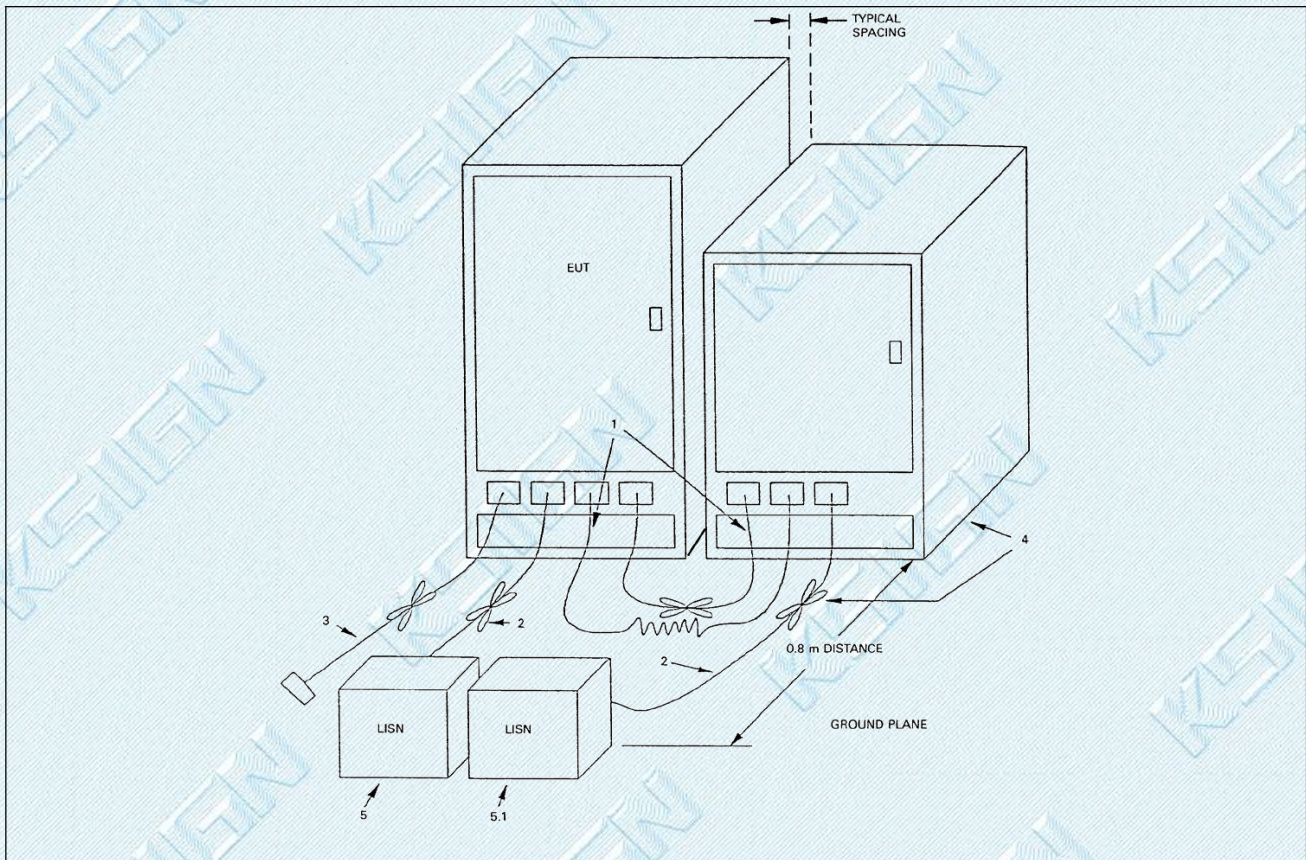
3.1. Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Limit:	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.		
Test Method:	ANSI C63.4-2014		
Procedure:	An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Level= Read Level+ Cable Loss+ LISN Factor		

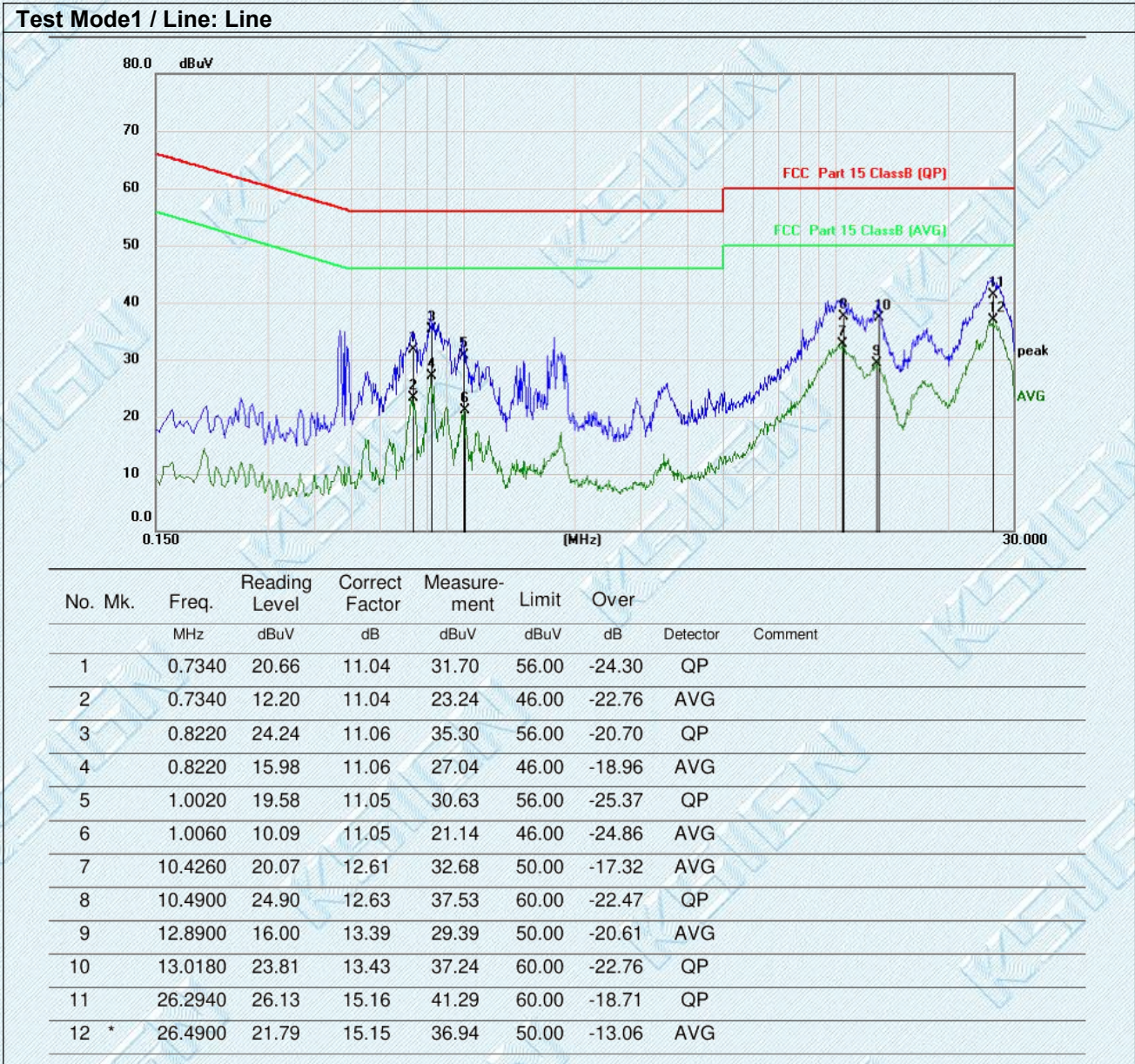
3.1.1. E.U.T. Operation:

Operating Environment:	
Temperature:	24.4 °C
Humidity:	54.9 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1, Test Mode2

3.1.2. Test Setup Diagram:



3.1.3. Test Data:

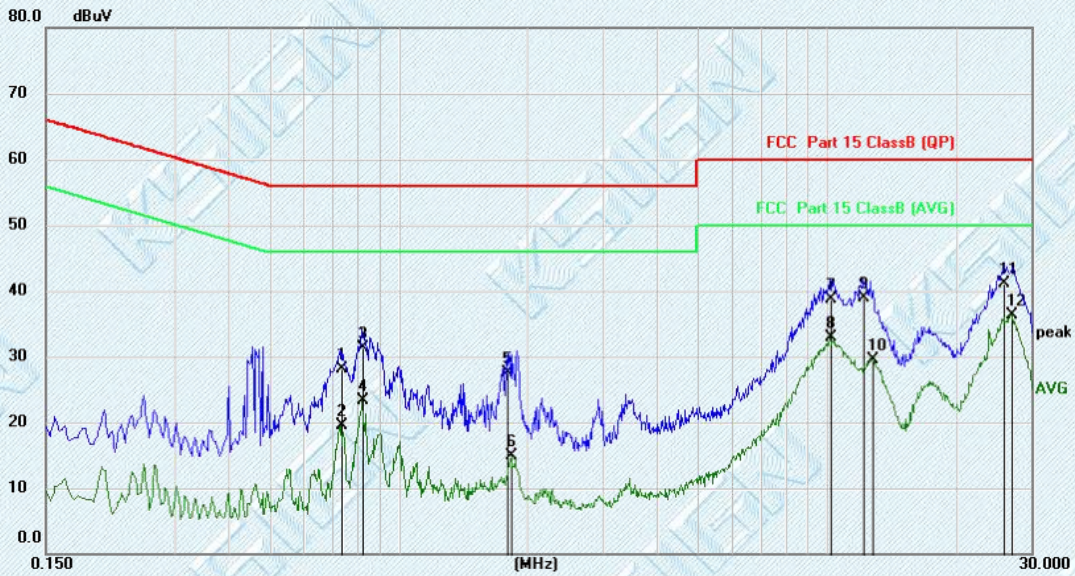


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Test Mode1 / Line: Neutral



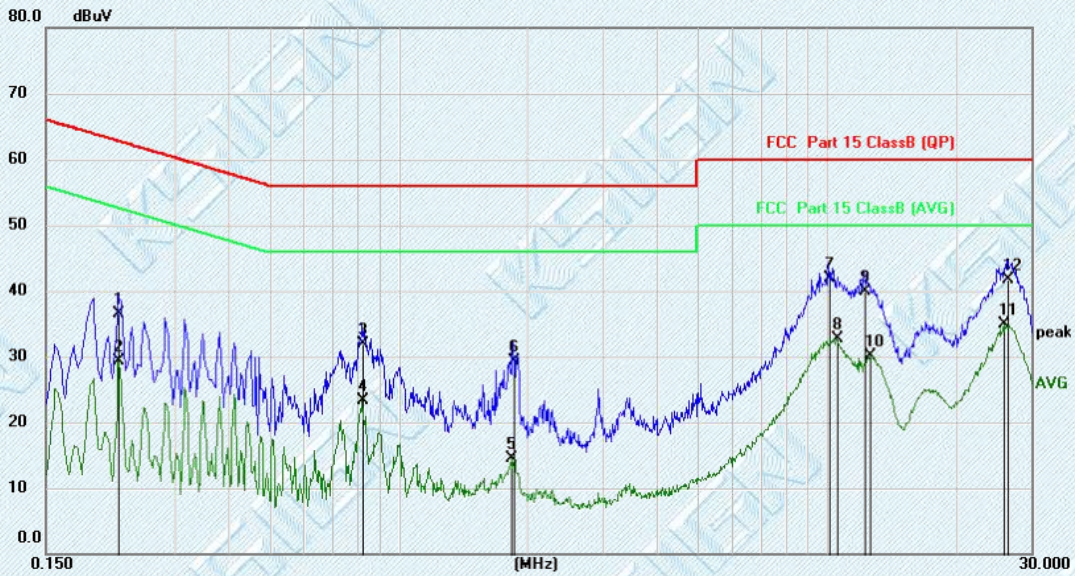
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.7340	17.12	11.05	28.17	56.00	-27.83	QP	
2	0.7340	8.41	11.05	19.46	46.00	-26.54	AVG	
3	0.8220	20.32	11.05	31.37	56.00	-24.63	QP	
4	0.8220	12.34	11.05	23.39	46.00	-22.61	AVG	
5	1.7980	16.42	11.15	27.57	56.00	-28.43	QP	
6	1.8380	3.69	11.15	14.84	46.00	-31.16	AVG	
7	10.1700	26.15	12.58	38.73	60.00	-21.27	QP	
8	10.1700	20.23	12.58	32.81	50.00	-17.19	AVG	
9	12.1540	25.50	13.33	38.83	60.00	-21.17	QP	
10	12.7580	16.04	13.55	29.59	50.00	-20.41	AVG	
11	25.9180	25.71	15.35	41.06	60.00	-18.94	QP	
12 *	26.8420	21.09	15.30	36.39	50.00	-13.61	AVG	

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Test Mode2 / Line: Line



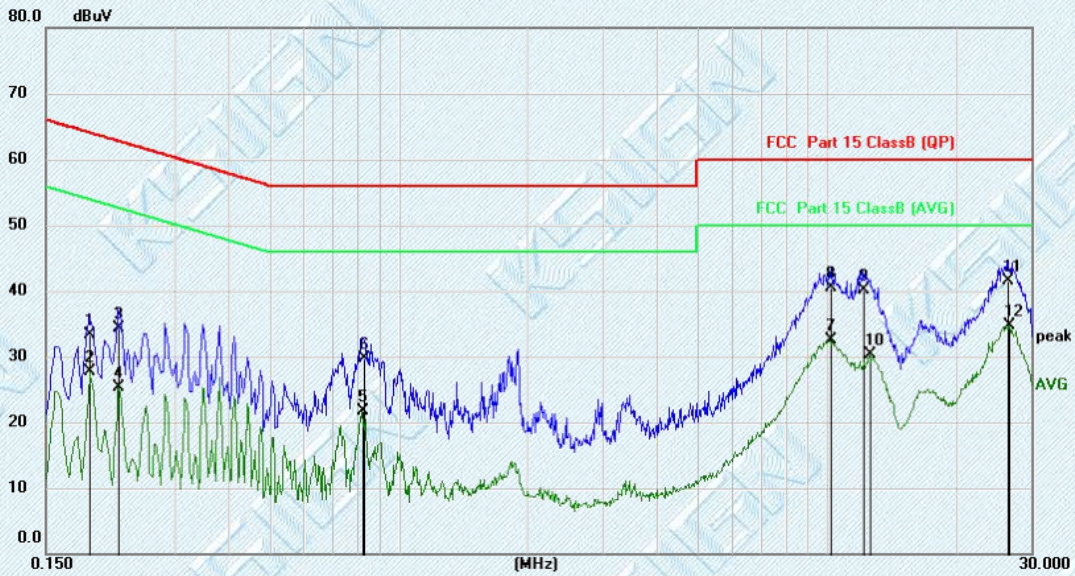
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.2220	25.37	11.04	36.41	62.74	-26.33	QP	
2	0.2220	18.24	11.04	29.28	52.74	-23.46	AVG	
3	0.8220	20.86	11.05	31.91	56.00	-24.09	QP	
4	0.8220	12.22	11.05	23.27	46.00	-22.73	AVG	
5	1.8340	3.38	11.15	14.53	46.00	-31.47	AVG	
6	1.8580	18.12	11.15	29.27	56.00	-26.73	QP	
7	10.1059	29.27	12.56	41.83	60.00	-18.17	QP	
8	10.5580	19.97	12.73	32.70	50.00	-17.30	AVG	
9	12.2460	26.62	13.36	39.98	60.00	-20.02	QP	
10	12.6220	16.63	13.50	30.13	50.00	-19.87	AVG	
11 *	25.9860	19.47	15.35	34.82	50.00	-15.18	AVG	
12	26.3620	26.43	15.33	41.76	60.00	-18.24	QP	

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Test Mode2 / Line: Neutral



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1900	22.27	11.06	33.33	64.04	-30.71	QP	
2	0.1900	16.56	11.06	27.62	54.04	-26.42	AVG	
3	0.2220	23.31	11.04	34.35	62.74	-28.39	QP	
4	0.2220	14.28	11.04	25.32	52.74	-27.42	AVG	
5	0.8220	10.65	11.06	21.71	46.00	-24.29	AVG	
6	0.8300	18.74	11.06	29.80	56.00	-26.20	QP	
7	10.1420	19.90	12.51	32.41	50.00	-17.59	AVG	
8	10.2020	27.89	12.53	40.42	60.00	-19.58	QP	
9	12.1420	26.91	13.16	40.07	60.00	-19.93	QP	
10	12.5260	17.00	13.28	30.28	50.00	-19.72	AVG	
11	26.3660	26.43	15.16	41.59	60.00	-18.41	QP	
12 *	26.6140	19.63	15.14	34.77	50.00	-15.23	AVG	

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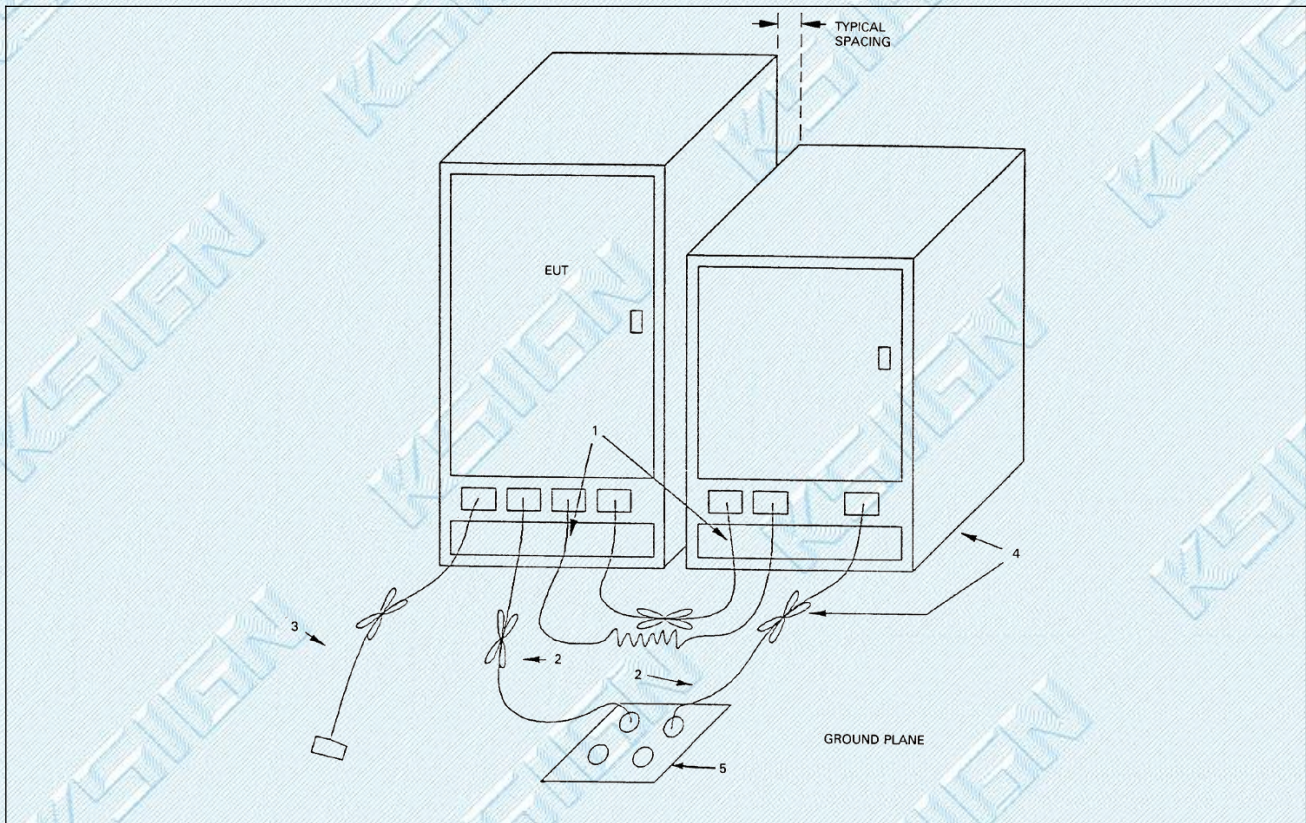
3.2. Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B				
Test Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:				
	Frequency of emission (MHz)	Field strength @3m		Field strength @10m	
		(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)
	30 – 88	100	40	30	29.5
	88 – 216	150	43.5	45	33.1
216 – 960	200	46	60	35.6	
Above 960	500	54	150	43.5	
Test Method:	ANSI C63.4-2014				
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor				

3.2.1. E.U.T. Operation:

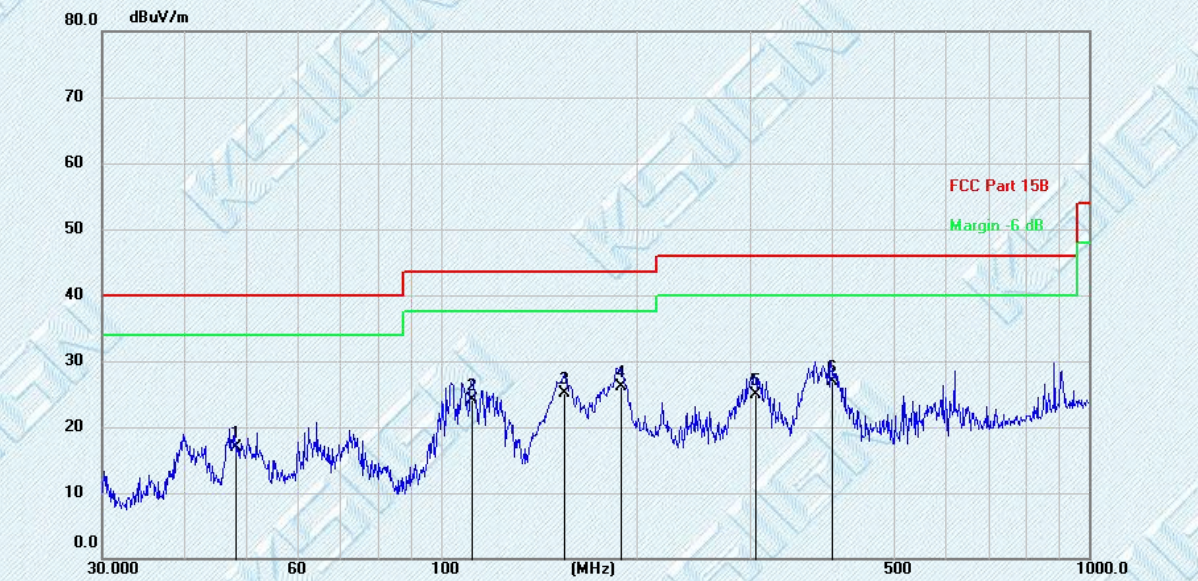
Operating Environment:	
Temperature:	24.4 °C
Humidity:	54.9 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1, Test Mode2

3.2.2. Test Setup Diagram:



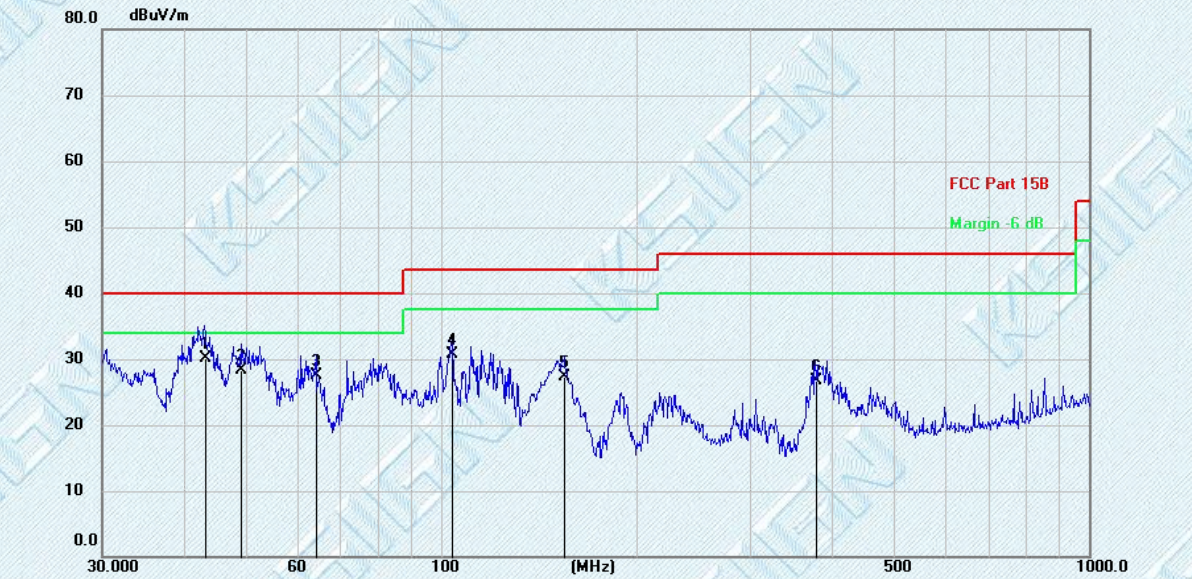
3.2.3. Test Data:

Test Mode1 / Polarization: Horizontal



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		48.0108	32.72	-15.80	16.92	40.00	-23.08	QP
2		111.7379	42.77	-18.58	24.19	43.50	-19.31	QP
3		155.2554	46.31	-21.26	25.05	43.50	-18.45	QP
4	*	189.4725	44.63	-18.47	26.16	43.50	-17.34	QP
5		304.8236	39.44	-14.45	24.99	46.00	-21.01	QP
6		399.8706	37.81	-10.91	26.90	46.00	-19.10	QP

Test Mode1 / Polarization: Vertical



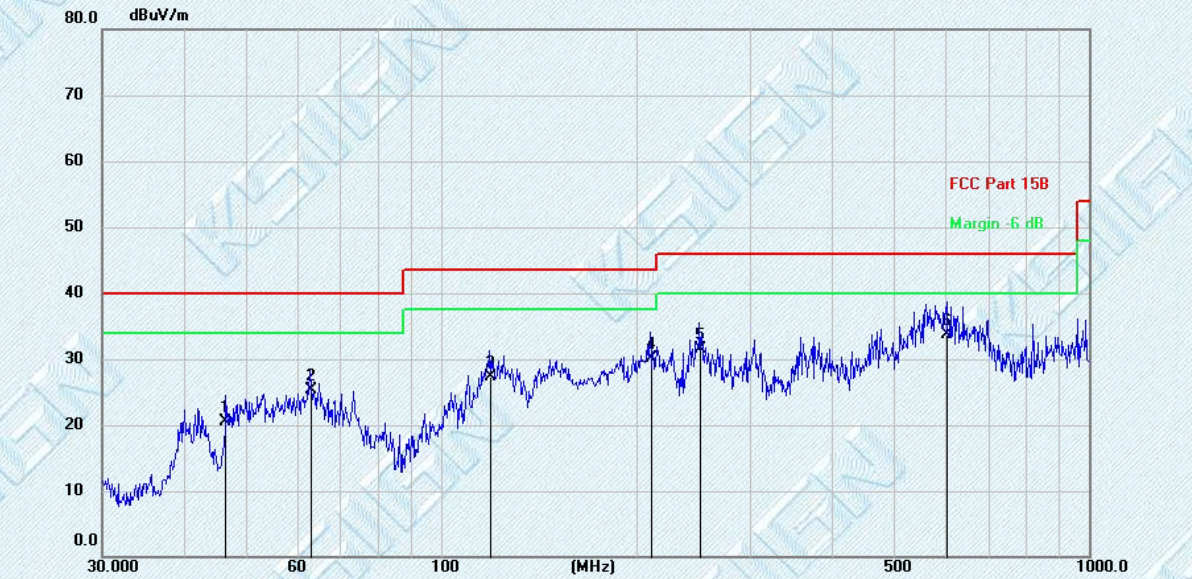
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1	*	43.1260	46.50	-16.47	30.03	40.00	-9.97	QP
2		49.1349	44.00	-15.71	28.29	40.00	-11.71	QP
3		64.0276	45.98	-18.44	27.54	40.00	-12.46	QP
4		103.9876	48.64	-17.94	30.70	43.50	-12.80	QP
5		154.8747	48.49	-21.27	27.22	43.50	-16.28	QP
6		377.7886	38.37	-11.63	26.74	46.00	-19.26	QP

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Test Mode2 / Polarization: Horizontal



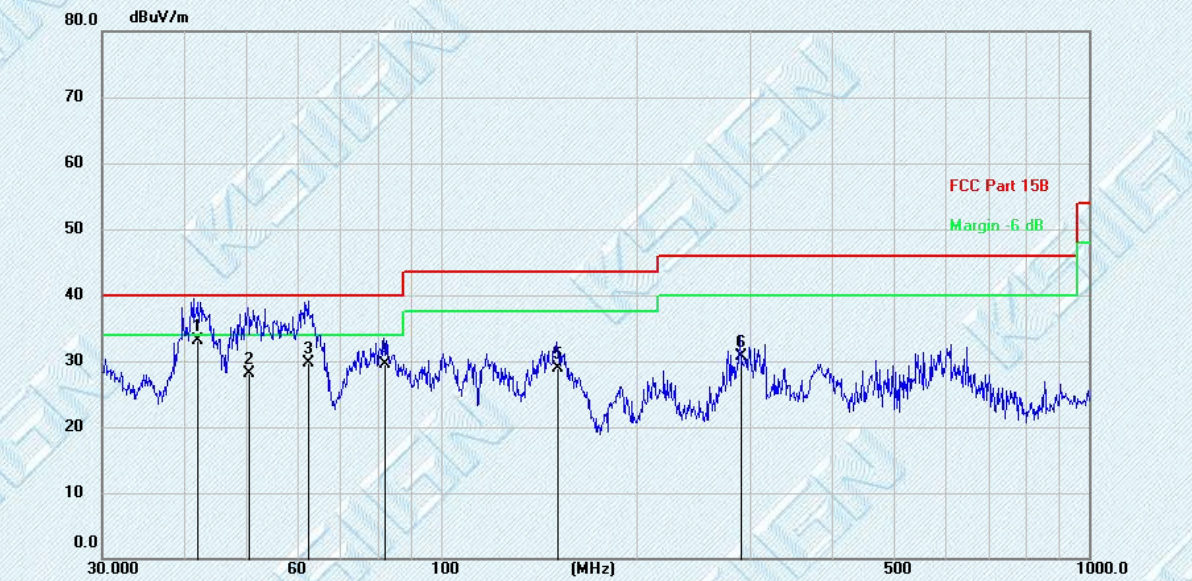
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		46.5030	36.41	-15.94	20.47	40.00	-19.53	QP
2		62.6946	43.36	-18.15	25.21	40.00	-14.79	QP
3		119.3104	46.67	-19.27	27.40	43.50	-16.10	QP
4		210.4905	47.65	-17.53	30.12	43.50	-13.38	QP
5		250.3889	47.23	-15.72	31.51	46.00	-14.49	QP
6	*	604.3862	41.34	-7.64	33.70	46.00	-12.30	QP

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Test Mode2 / Polarization: Vertical



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1	*	41.9927	49.86	-16.70	33.16	40.00	-6.84	QP
2		50.2677	43.76	-15.69	28.07	40.00	-11.93	QP
3		62.3657	47.72	-18.07	29.65	40.00	-10.35	QP
4		81.8120	50.68	-21.13	29.55	40.00	-10.45	QP
5		151.1725	50.30	-21.37	28.93	43.50	-14.57	QP
6		289.8139	45.54	-14.91	30.63	46.00	-15.37	QP

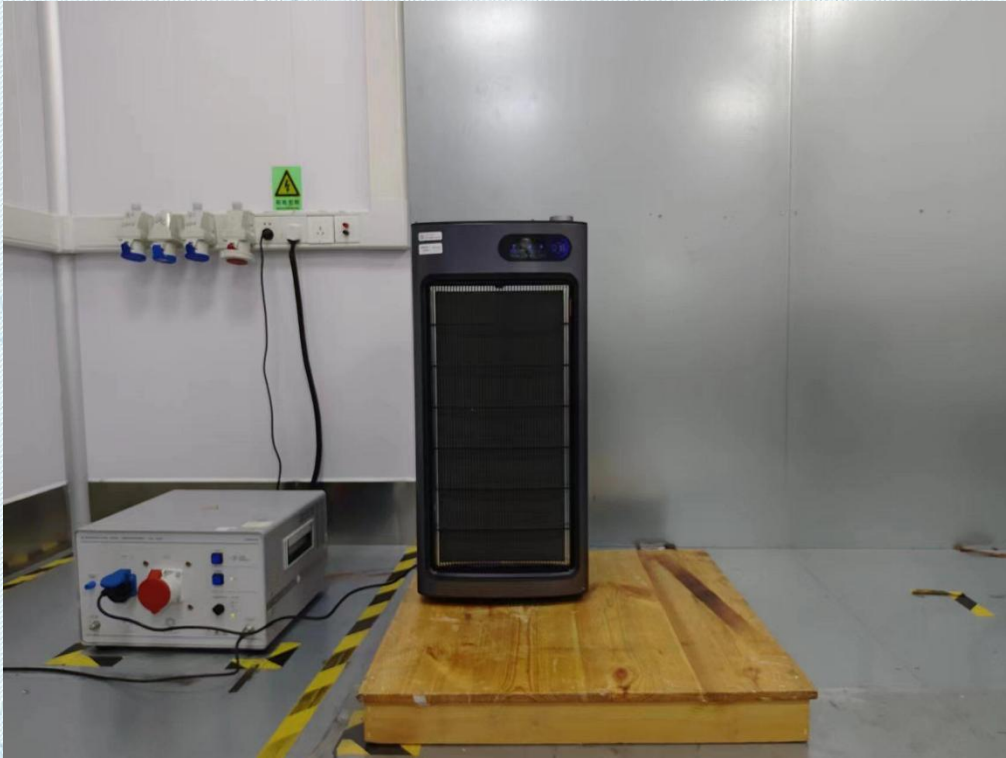
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4. EUT TEST PHOTOS

Conducted emissions on AC mains



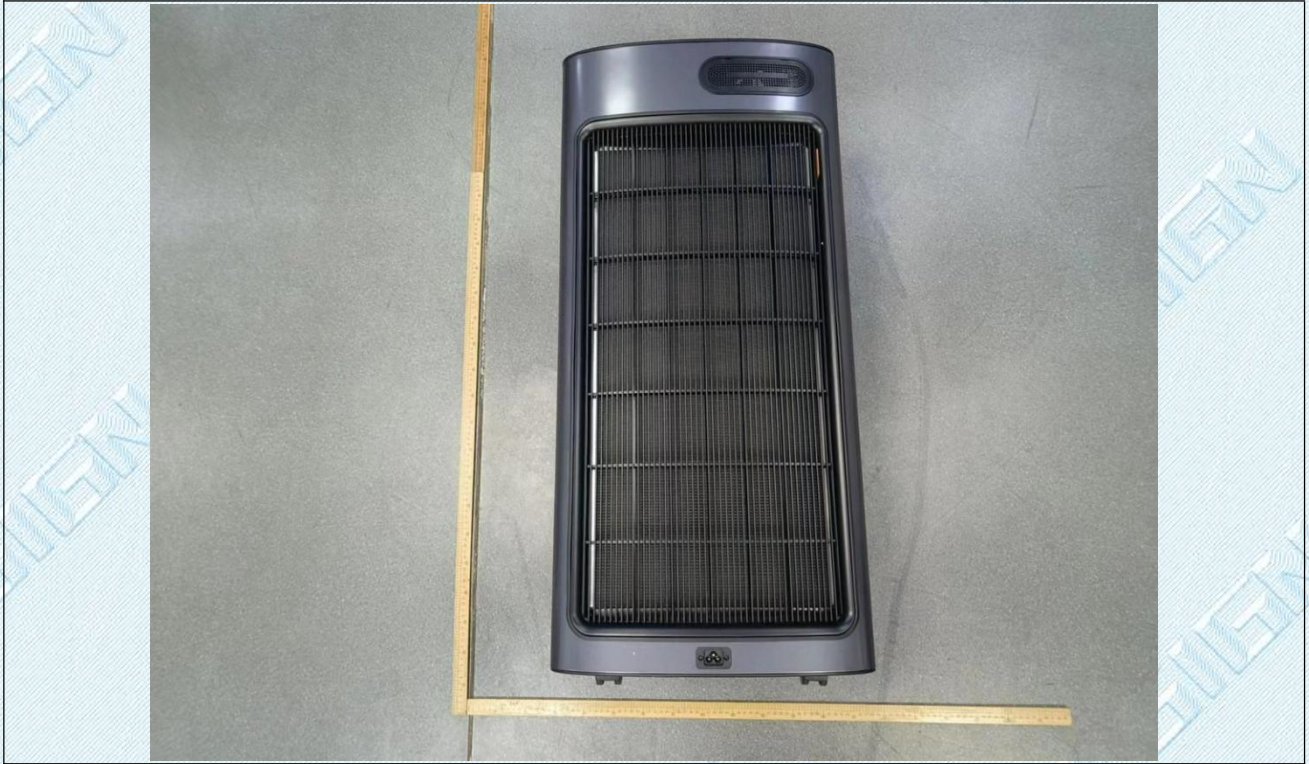
Radiated emissions (Below 1GHz)



5. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

External





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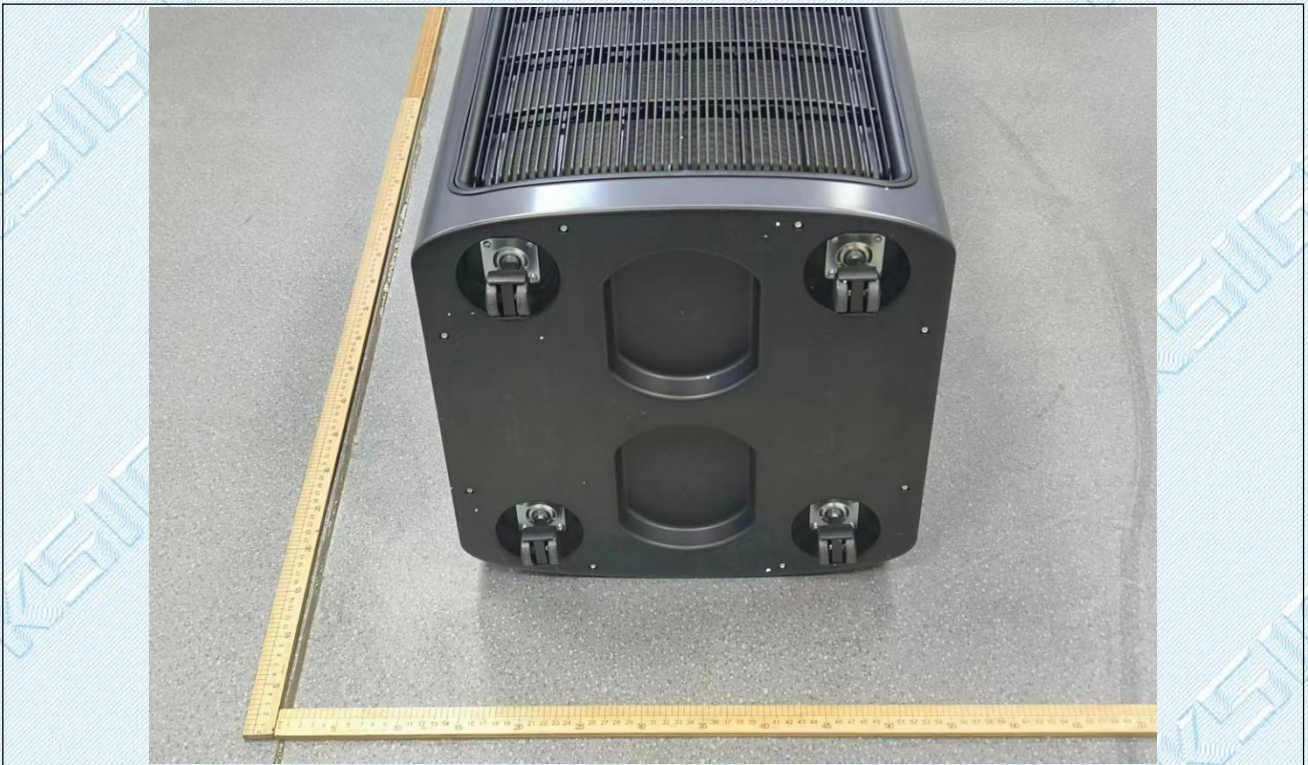
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--THE END--