



EMC TEST REPORT

Test item description: High Speed Handy-Fan

Trademark(s): /

Model/Type reference: HF-263MH, H6-V5

S/N: /

Report No.: CTB26031608501E01

Applicant's name: Foshan Tuboshu Intelligent Technology Co., Ltd

No. 204-2, Bldg. B, Shunde Creative Industry Park, No.41, Fengxiang

Address: Road.Xinjiao Community, Daliang Street, Shunde District, Foshan City,
Guangdong Province, China

Manufacturer: Foshan Tuboshu Intelligent Technology Co., Ltd

No. 204-2, Bldg. B, Shunde Creative Industry Park, No.41, Fengxiang

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Sample No.: 26031608501

Date of Receipt: Mar. 17, 2026

Date of Test(s): Mar. 17, 2026 to Mar. 17, 2026

Date of Issue: Mar. 25, 2026

Test Standard(s): J55014-1(H27)

Test Result: Pass

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

Compiled by:

Reviewed by:

Approved by:

Alex Li

Bin Mei



Rita Xiao

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. The tested sample(s) and the sample information are provided by the applicant. The authenticity, accuracy, and completeness of the provided information are the sole responsibility of the applicant. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The result decision rules of our laboratory are based solely on the direct comparison between the actual measured values of test results and the standard limits, without considering the measurement uncertainty. "★" indicates the testing items were fulfilled by subcontracted lab. "×" indicates the items are not in CNAS accreditation scope.

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1. Description of version

Report No.	Issue Date	Description	Approved
CTB26031608501E01	Mar. 25, 2026	Original	Valid

2. Test summary

Emission		
Test Item	Test Method	Result
Continuous disturbance	J55014-1(H27)	PASS
Discontinuous disturbance		N/A
Disturbance power		N/A
Radiated emission		PASS

Note: N/A is abbreviation for Not Applicable.

3. Measurement uncertainty

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 %

Test Item	Frequency	Expanded Uncertainty (U_{Lab})
Conducted Emission	150 kHz to 30 MHz	No.1 ± 3.4 dB No.2 ± 3.5 dB
Disturbance Power	30 MHz to 300 MHz	± 3.3 dB
Radiated Emission	30 MHz to 1000 MHz	No.1 ± 4.9 dB No.2 ± 4.6 dB
Radiated Emission	1000 MHz to 6000 MHz	No.1 ± 4.9 dB, No.2 ± 4.8 dB

4. General information

4.1. Description of EUT

Test item description	High Speed Handy-Fan
Trademark(s)	/
Model/Type reference	HF-263MH
Serial Model No.	H6-V5
Model Difference	All models are only named differently. Test Sample Model: HF-263MH.
Rated Power	1-4W
Rated Voltage& current	DC 5V 1.5A from adapter(AC 100V/60Hz) or 3.7V---3000mAh from battery
Highest Clock Frequency	< 15MHz
Configuration	☒ Table-top ☐ Floor-standing
Adapter Information	/

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

4.2. Description of Accessory Device

Description	Manufacturer	Model	Specification	Note
Adapter	Xu Yuan	XY-CU01200500 200U01	Input: 100-240V~ 50/60Hz 0.4A Max Output: 5V---2A	☐ Applicant ☒ CTB

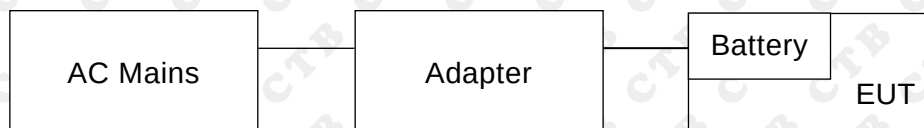
External I/O Cable

Cable Description	Shielded Type	Ferrite Core	Length(m)	Note
/	☐ Shielded ☐ Non-shielded	☐ Yes ☐ No	/	☐ Applicant ☐ CTB

4.3. Test conditions

Temperature: 15-25°C
Relative Humidity: 30-60%RH
Atmospheric pressure: 800hPa-1060hPa

4.4. Block diagram of EUT configuration



4.5. Operating condition of EUT

The test system was pre-tested based on the consideration of all possible combinations of EUT operation modes according to test plan. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively. All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, (*)the worst data were recorded and reported.

Pretest Test Mode	Description	Test Voltage
Mode 1*	Charging	AC 100V/60Hz
Mode 2*	Working	DC 3.7V

Conducted emission test		
Final Test Mode	Description	Test Voltage
Mode 1*	Charging	AC 100V/60Hz

Radiated emission test		
Final Test Mode	Description	Test Voltage
Mode 2*	Working	DC 3.7V

5. List of test and measurement instruments

No.1 Continuous disturbance						
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated until
1	843 Shield Room	C/ R/ T	843	/	/	2027/6/21
2	LISN	ROHDE&SCHWARZ	ESH3-Z5	100318	/	2026/5/21
3	Pulse limiter	ROHDE&SCHWARZ	ESH3-Z2	0357.8810.54-1 02700-NB	/	2026/5/21
4	EMI TEST RECEIVER	R&S	ESCI	100428	V4.42.SP3	2026/5/21
5	Coaxial cable	Agilent	UCE500-SMNM-1. 5M	/	/	2026/5/21
6	ISN	Schwarzbeck	NTFM8158	183	/	2026/6/17
7	ISN	Schwarzbeck	CAT5 8158	473	/	2026/6/17
8	Voltage Probe	Schwarzbeck	TK 9420	01189	/	2026/9/18
9	EMI test software	Frad	EZ-EMC	Ver/ EMC-con3A1/1	/	/
10	Current Probe	FCC	F-52B	199453	/	2026/5/23

Radiated emission(No.1 Chamber)						
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated until
1	966 Chamber	C/ R/ T	966	/	/	2027/6/21
2	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	01911	/	2026/6/1
3	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2026/6/28
4	Preamplifier	Agilent	8449B	3008A01838	/	2026/6/3
5	Amplifier	HP	8447E	2945A02747	/	2026/5/23
6	6dB attenuator	Agilent	6dB (8491B)	MY39170906	/	2026/5/23
7	loop antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2026/6/1
8	EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESPI	100362	RF_ATTEN_7 (104489/003)	2026/5/23
9	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2026/5/22
10	26.5G cable	ETS	RFC-SNS-100-N MS-80	/	/	2026/5/23
11	26.5G cable	ETS	RFC-SN-100-NM S-20	/	/	2026/5/23
12	26.5G cable	ETS	RFC-SNS-100-S	/	/	2026/5/23

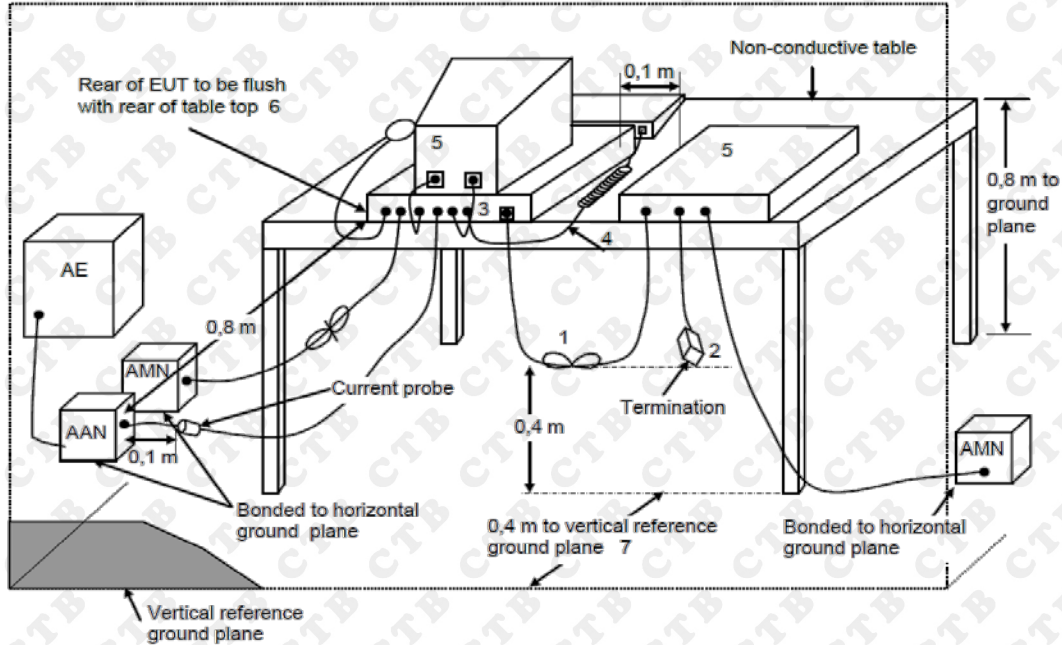
			MS-20			
13	26.5G cable	ETS	RFC-NNS-100-N MS-300	/	/	2026/5/23
14	EMI test software	Frad	EZ-EMC	Ver/ FA-03A2 RE	/	/

6. Emission

6.1. Continuous disturbance

6.1.1. Block diagram of test setup

For table-top equipment



6.1.2. Limit

General limits						
Frequency range	Mains ports		Associated ports			
	Disturbance voltage		Disturbance voltage		Disturbance current	
MHz	Quasi-peak dB μ V	Average dB μ V	Quasi-peak dB μ V	Average dB μ V	Quasi-peak dB μ A	Average dB μ A
0,15 to 0,50	Decreasing linearly with the logarithm of the frequency from:		80	70	Decreasing linearly with the logarithm of the frequency from:	
	66 to 56	59 to 46			40 to 30	30 to 20
0,50 to 5	56	46	74	64	30	20
5 to 30	60	50	74	64		
The lower limit applies at the transition frequencies. The test report shall state which test method was used and which limits were applied.						

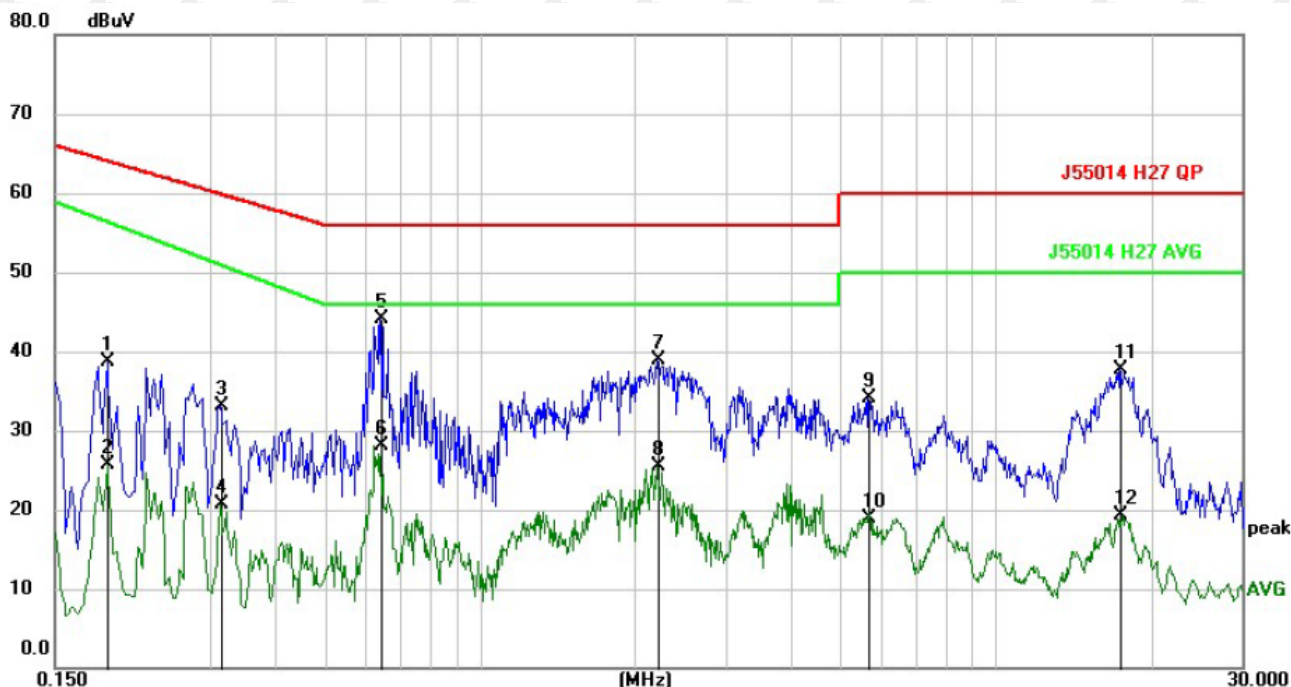
Limits for mains port of tools						
Frequency range	$P \leq 700 \text{ W}$		$700 \text{ W} < P \leq 1\,000 \text{ W}$		$P > 1\,000 \text{ W}$	
MHz	Quasi-peak dB μ V	Average dB μ V	Quasi-peak dB μ V	Average dB μ V	Quasi-peak dB μ V	Average dB μ V
	Decreasing linearly with the logarithm of the frequency from:					
0,15 to 0,35	66 to 59	59 to 49	70 to 63	63 to 53	76 to 69	69 to 59
0,35 to 5	59	49	63	53	69	59
5 to 30	64	54	68	58	74	64
The lower limit applies at the transition frequencies. P = rated power of the motor only.						

6.1.3. Test procedure

1. The AMN placed 0,8m from the boundary of the unit under test and bonded to a round reference plane. This distance was between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment were at least 0,8 m from the AMN. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.
2. Both sides of AC line are checked to find out the maximum conducted emission according to the CISPR 14-1 regulations during conducted emission test. And the voltage probe had been used for the load terminals test according to the CISPR 14-1 standard.
3. The bandwidth of the test receiver (R&S ESCS30) is set at 9 kHz in 150 kHz~30 MHz.
4. The frequency range from 150 kHz to 30MHz is checked.

6.1.4. Test results

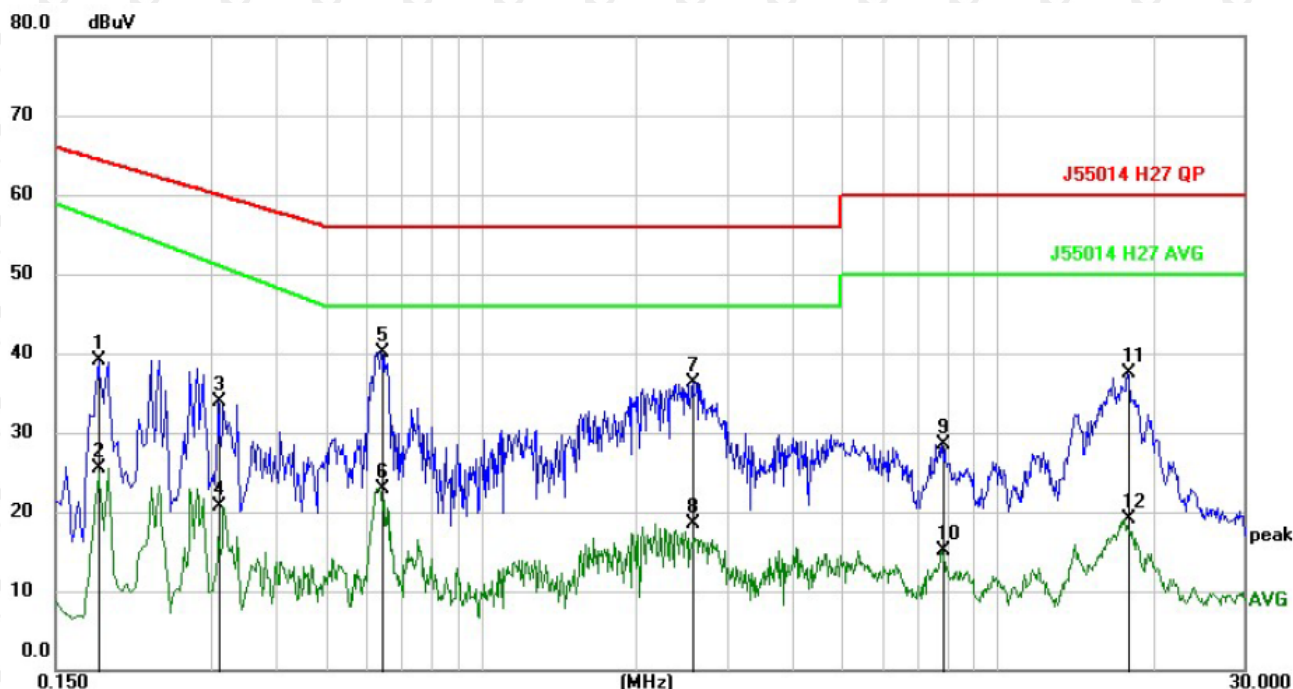
Temperature:	24°C	Relative Humidity:	54 %RH
Pressure:	101kPa	Phase :	Line
Test Voltage :	AC 100V/60Hz	Test Mode:	Mode 1



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1900	28.54	10.08	38.62	64.04	-25.42	QP
2		0.1900	15.60	10.08	25.68	56.45	-30.77	AVG
3		0.3140	23.11	10.08	33.19	59.86	-26.67	QP
4		0.3140	10.67	10.08	20.75	51.02	-30.27	AVG
5	*	0.6419	33.99	10.10	44.09	56.00	-11.91	QP
6		0.6419	18.06	10.10	28.16	46.00	-17.84	AVG
7		2.2060	28.65	10.18	38.83	56.00	-17.17	QP
8		2.2060	15.35	10.18	25.53	46.00	-20.47	AVG
9		5.6700	23.80	10.31	34.11	60.00	-25.89	QP
10		5.6700	8.60	10.31	18.91	50.00	-31.09	AVG
11		17.4180	26.93	10.84	37.77	60.00	-22.23	QP
12		17.4180	8.37	10.84	19.21	50.00	-30.79	AVG

Note: Result=Reading + Factor
Over Limit=Result – Limit

Temperature:	24°C	Relative Humidity:	54 %RH
Pressure:	101kPa	Phase :	Neutral
Test Voltage :	AC 100V/60Hz	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1819	28.97	10.08	39.05	64.40	-25.35	QP
2		0.1819	15.48	10.08	25.56	56.92	-31.36	AVG
3		0.3100	23.73	10.08	33.81	59.97	-26.16	QP
4		0.3100	10.60	10.08	20.68	51.16	-30.48	AVG
5	*	0.6419	30.09	10.10	40.19	56.00	-15.81	QP
6		0.6419	12.81	10.10	22.91	46.00	-23.09	AVG
7		2.5700	26.15	10.19	36.34	56.00	-19.66	QP
8		2.5700	8.27	10.19	18.46	46.00	-27.54	AVG
9		7.8140	18.16	10.40	28.56	60.00	-31.44	QP
10		7.8140	4.74	10.40	15.14	50.00	-34.86	AVG
11		17.9020	26.61	10.86	37.47	60.00	-22.53	QP
12		17.9020	8.16	10.86	19.02	50.00	-30.98	AVG

Note: Result=Reading + Factor
Over Limit=Result - Limit

6.2.3. Test procedure

1. The measurements of the number of clicks for determining the click rate shall be carried out only on two frequencies: 150 kHz and 500 kHz.

The click rate is determined from the formula: $N=n_1/T$.

2. After determining the click rate it is recommended to prove the applicability of the exception instantaneous switching. If the therein given conditions apply (duration of all clicks <20 ms, 90 % of them with a duration <10 ms, click rate $N < 5$), the procedure can be stopped. A measurement of the amplitudes of the clicks in this case is not necessary, the EUT passed the test.

3. If the measurements of the click rate, duration and spacing of the clicks established that the relaxed limits for discontinuous disturbance can be applied, the amplitude of the clicks shall be evaluated by using the upper quartile method.

The frequency 150kHz, 500kHz, 1.4MHz, 30MHz was checked.

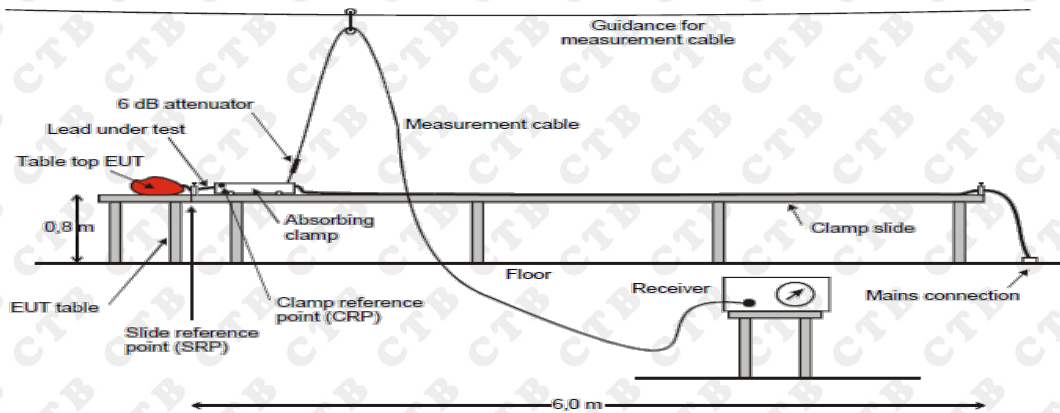
6.2.4. Test results

N/A

6.3. Disturbance power

6.3.1. Block diagram of test setup

For table-top equipment



6.3.2. Limits

Table 1 - Disturbance power limits – 30 MHz to 300 MHz								
Frequency range	General		Tools					
			$P \leq 700 \text{ W}$		$700 \text{ W} < P \leq 1\,000 \text{ W}$		$P > 1\,000 \text{ W}$	
1	2	3	4	5	6	7	8	9
MHz	Quasi-peak dBpW	Average dBpW	Quasi-peak dBpW	Average dBpW	Quasi-peak dBpW	Average dBpW	Quasi-peak dBpW	Average dBpW
30 to 300	Increasing linearly with the frequency from:							
	45 to 55	35 to 45	45 to 55	35 to 45	49 to 59	39 to 49	55 to 65	45 to 55
Key P = rated power of the motor only.								

Note:

If the quasi-peak measurements meet the average limit, the EUT shall be deemed to meet both limits and the measurements using the average detector need not be carried out.

Table 2 - Reduction applicable to Table 1 limit								
Frequency range	General		Tools					
			$P \leq 700 \text{ W}$		$700 \text{ W} < P \leq 1\,000 \text{ W}$		$P > 1\,000 \text{ W}$	
1	2	3	4	5	6	7	8	9
MHz	Quasi-peak dBpW	Average dBpW	Quasi-peak dBpW	Average dBpW	Quasi-peak dBpW	Average dBpW	Quasi-peak dBpW	Average dBpW
200 to 300	Increasing linearly with the frequency from:							
	0 to 10	0	0 to 10	0	0	0 to 10	0 to 10	0
Key P = rated power of the motor only.								

6.3.3. Test procedure

1. The disturbance power is measured on the cables attached to the ports of the EUT according to Clause 7 of CISPR 16-2-2 and the methods described in this standard.
 2. The measurement was performed in a shielded room.
- Frequency range 30MHz – 300MHz was checked and EMI receiver measurement bandwidth was set to 120 kHz.

Note:

The EUT shall be also deemed to comply with the requirement of this standard in the frequency range from 300 MHz to 1 000 MHz without further testing if both conditions 1) and 2) below are fulfilled:

- 1) the disturbance power emission from the EUT is lower than the limits of Table 1 reduced by the values of Table 2;
- 2) the maximum clock frequency is less than 30 MHz

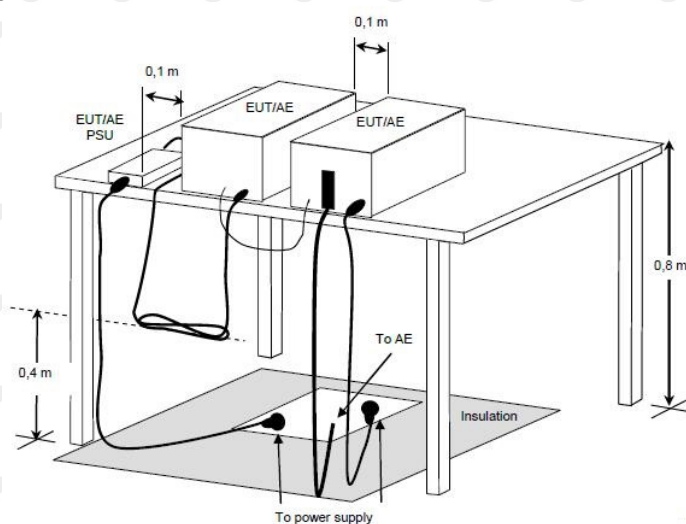
If either of the conditions 1) or 2) is not fulfilled, radiated measurements in the frequency range from 300 MHz to 1 000 MHz shall be performed. In any case, the limits of Table 1 in the frequency range 30 MHz to 300 MHz shall be met.

6.3.4. Test results

N/A

6.4.1. Block diagram of test setup

Measurement distance



6.4.2. Limit

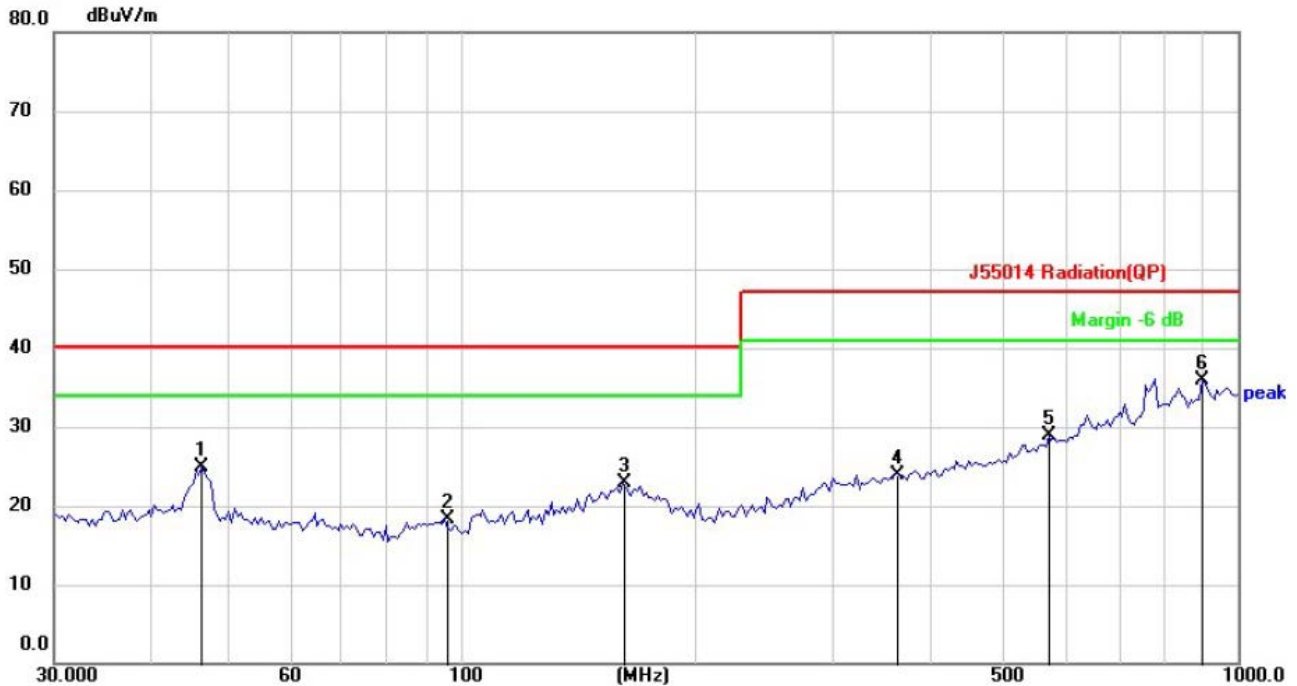
Frequency range MHz	Measurement			Limits dB(μV/m)
	Facility	Distance m	Detector type / bandwidth	
30 to 230	SAC	3	Quasi Peak / 120 kHz	40
230 to 1 000				47

6.4.3. Test procedure

1. The EUT is placed on a turn table which is 0,8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The Boundary of EUT (imaginary circular periphery) is set 3 meters away from the receiving antenna (Reference point of antenna calibration) which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antennas (calibrated by dipole antenna) are used as a receiving antenna.
2. Both horizontal and vertical polarizations of the antenna are set on test.
3. The bandwidth setting on the test receiver (R&S ESPI) reference 5.3.2.
4. The EUT is tested in Semi-Anechoic Chamber.
5. The Test results are listed in Section 5.3.4.

6.4.4. Test results

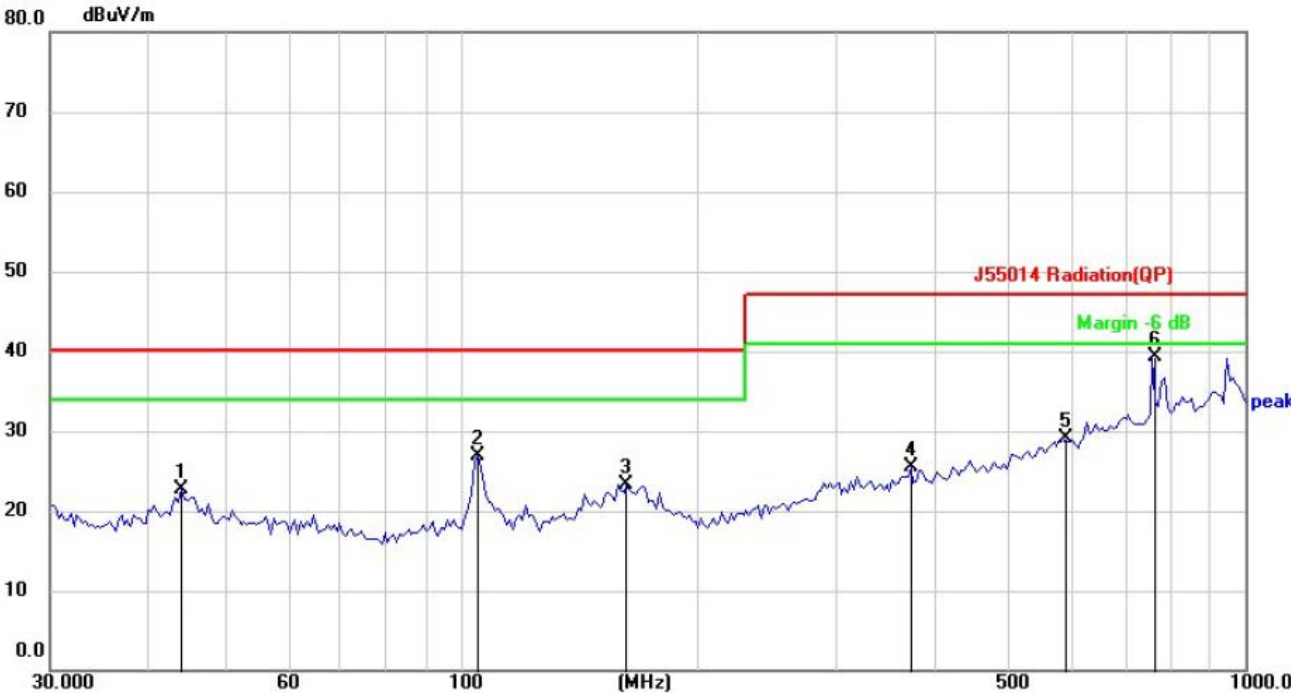
Temperature:	24°C	Relative Humidity:	54 %RH
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	DC 3.7V	Test Mode:	Mode 2



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		46.5030	31.17	-6.24	24.93	40.00	-15.07	QP
2		95.4270	26.28	-7.91	18.37	40.00	-21.63	QP
3		161.4742	26.41	-3.42	22.99	40.00	-17.01	QP
4		361.7139	25.48	-1.52	23.96	47.00	-23.04	QP
5		570.6100	25.84	3.09	28.93	47.00	-18.07	QP
6	*	900.1474	26.44	9.51	35.95	47.00	-11.05	QP

Note: Result=Reading + Factor
Over Limit=Result - Limit

Temperature:	24°C	Relative Humidity:	54 %RH
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	DC 3.7V	Test Mode:	Mode 2



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		44.1202	28.71	-6.10	22.61	40.00	-17.39	QP
2		105.0873	34.27	-7.37	26.90	40.00	-13.10	QP
3		162.8959	26.70	-3.41	23.29	40.00	-16.71	QP
4		374.6225	26.83	-1.31	25.52	47.00	-21.48	QP
5		585.8157	25.48	3.56	29.04	47.00	-17.96	QP
6	*	762.0385	31.57	7.73	39.30	47.00	-7.70	QP

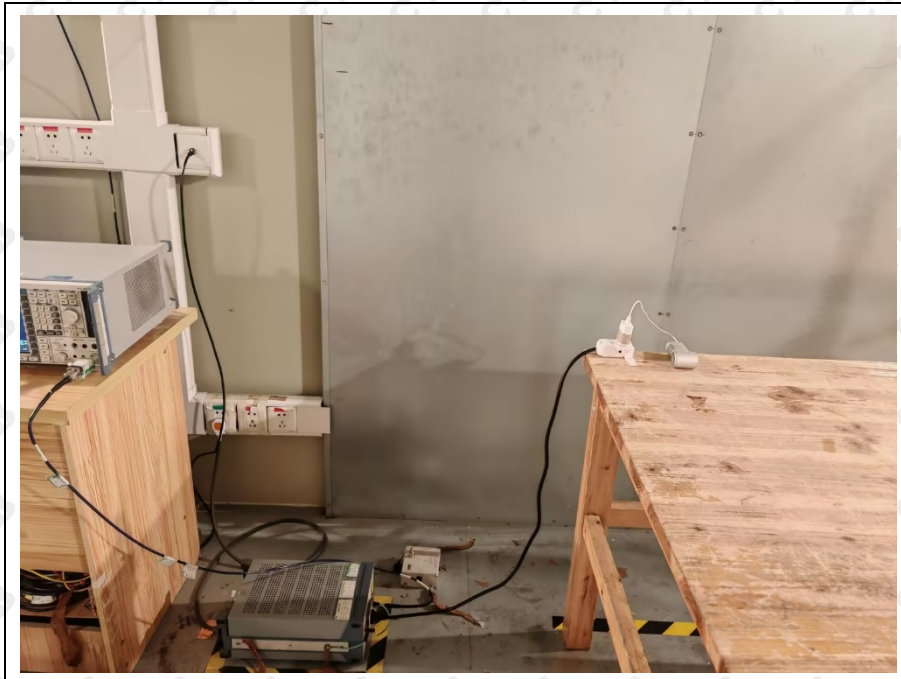
Note: Result=Reading + Factor
Over Limit=Result - Limit

7. Photographs of test setup

Radiated Emission

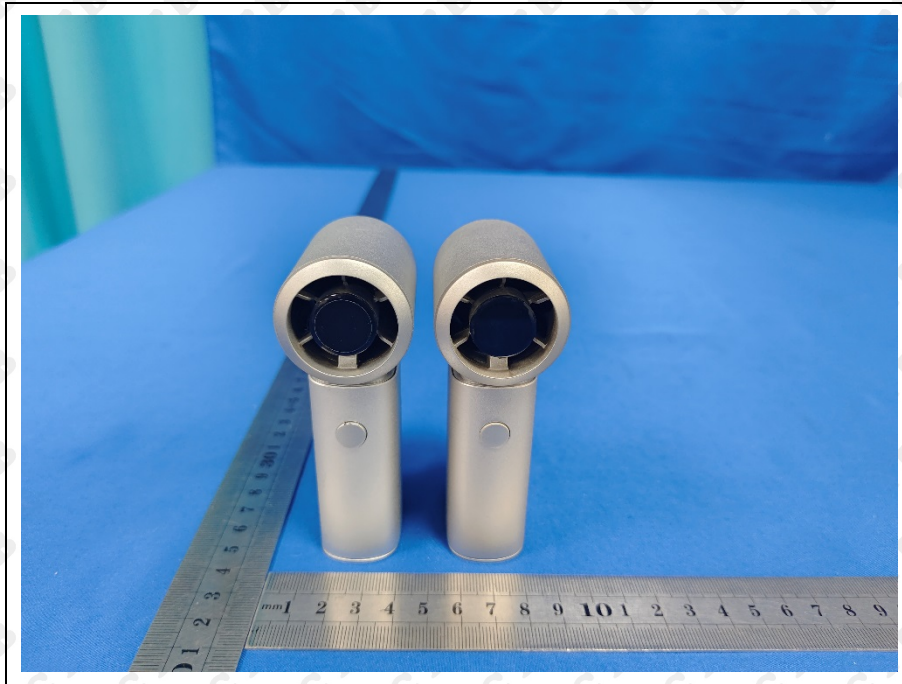


Conducted disturbances



8. Photographs of EUT

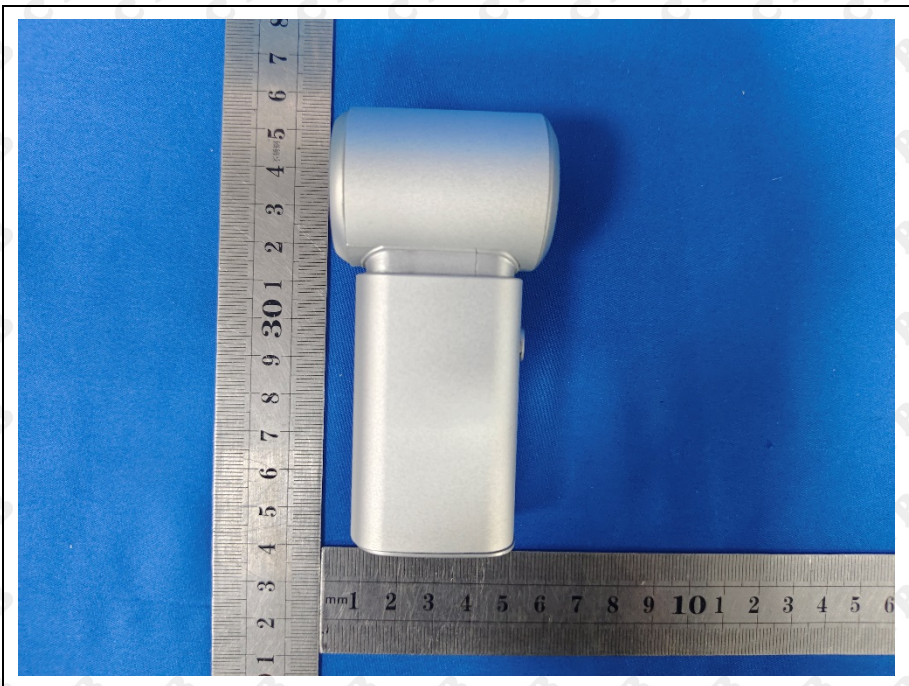
EUT photo 1



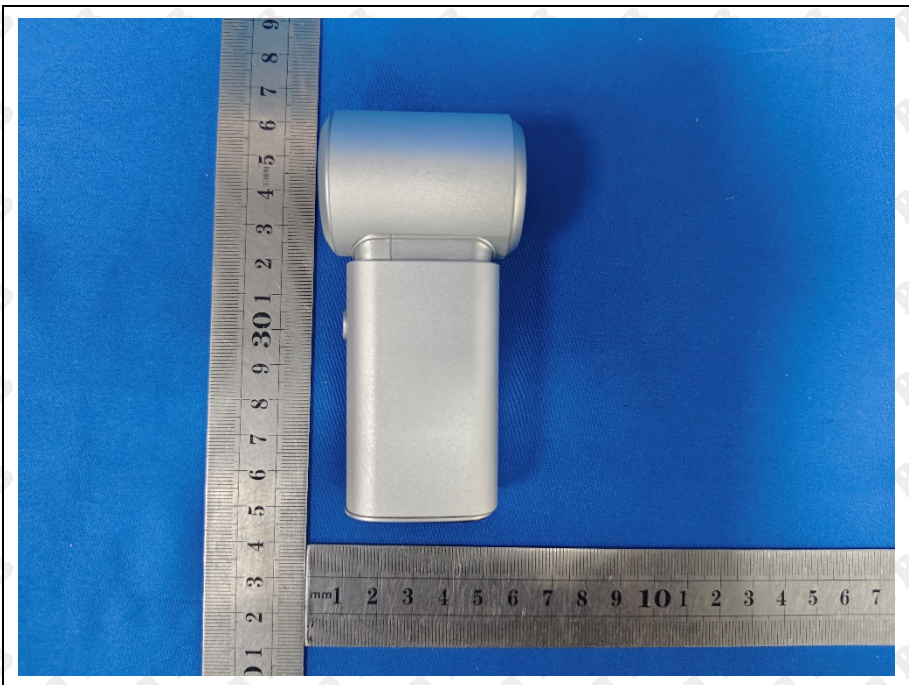
EUT photo 2



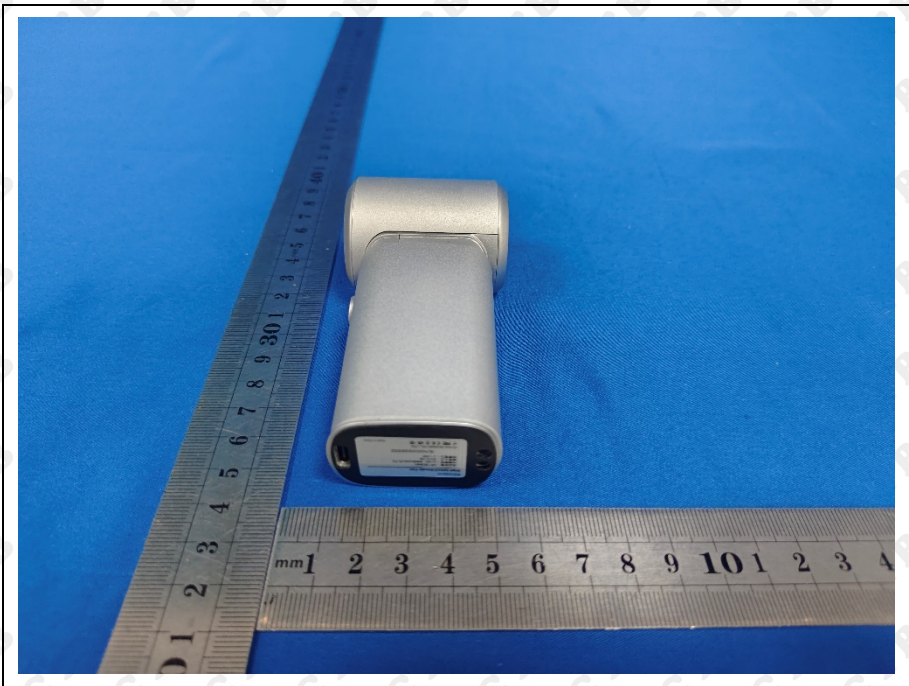
EUT photo 3



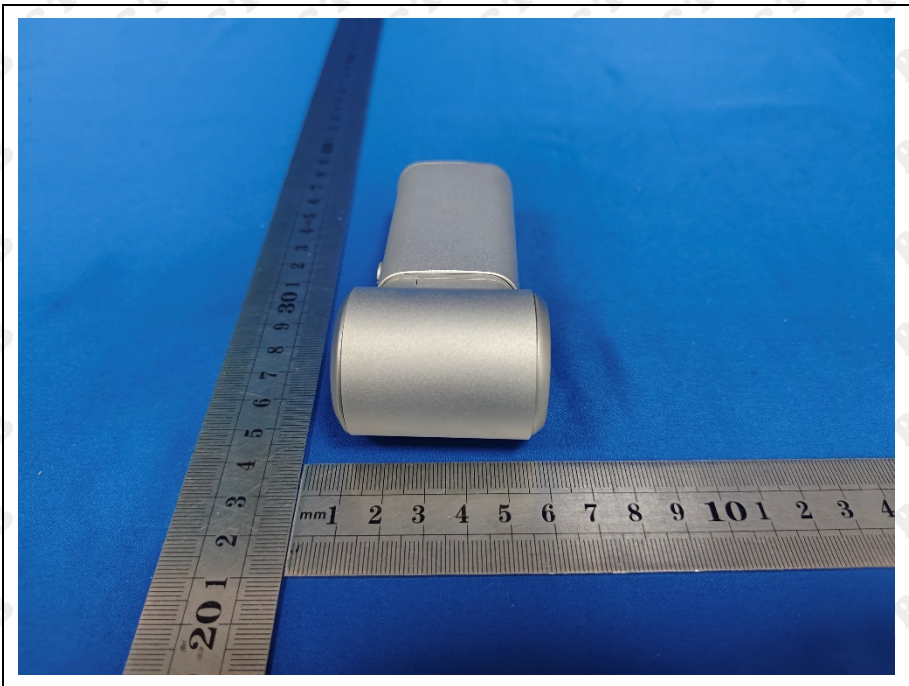
EUT photo 4



EUT photo 5



EUT photo 6



EUT photo 7



End of report