TCT通测检测 FESTING CENTRE TECHNOLOGY

TESTING CENTRE TE			
	TEST REPORT		
FCC ID:	2ALNA-YG2200		
Test Report No::	TCT211207E004		
Date of issue::	Mar. 10, 2022		
Testing laboratory:	SHENZHEN TONGCE TESTING LAB		
Testing location/ address:	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China		
Applicant's name::	Shenzhen Thousandshores Technology Co., Ltd.		
Address::	Room 1101, Building B, Lotus Plaza, No. 3186, Nanshan Avenue, Majialong Community, Nantou Street, Nanshan District, Shenzhen, China		
Manufacturer's name:	Shenzhen Thousandshores Technology Co., Ltd.		
Address::	Room 1101, Building B, Lotus Plaza, No. 3186, Nanshan Avenue, Majialong Community, Nantou Street, Nanshan District, Shenzhen, China		
Standard(s)::	FCC CFR Title 47 Part 15 Subpart C Section 15.231		
Product Name::	Fog Machine		
Trade Mark:	Theefun		
Model/Type reference:	YG-2200, TFM01, YG-2300, LA-4001, LA-302404, W07-0634E-04, W07-0634B-03, T29-6634A-03, W07-0634E-41, W07-0634B-41, W07-0634A-41, W07-0634A-42, 251-00111-23, W07-0634E-02, W07-0634B-01, W07-6634A-01, W07-0634A-81, TFM02, TFM03, TFM04, TFM05, TFM06, TFM07, TFM08, TFM09, TFM10, TFM11, TFM12		
Rating(s)::	DC 3V		
Date of receipt of test item	Dec. 07, 2021		
Date (s) of performance of test:	Dec. 07, 2021 ~ Mar. 10, 2022		
Tested by (+signature) :	Rleo LIU		
Check by (+signature):	Beryl ZHAO Rost Italy		
Approved by (+signature):	Tomsin		

General disclaimer:

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1. General Product Information

Report No.: TCT211207E004

1.1.EUT description

Product Name:	Fog Machine		
Model/Type reference:	YG-2200		
Sample Number:	TCT211207E004-0101		(C)
Operation Frequency:	433.94MHz		
Modulation Technology:	FSK		(;
Antenna Type:	Telescopic Antenna		
Antenna Gain:	0dBi		
Rating(s):	DC 3V	((0)

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2.Model(s) list

No.	Model No.	Tested with
1	YG-2200	\boxtimes
Other models	TFM01, YG-2300, LA-4001, LA-302404, W07-0634E-04, W07-0634B-03, T29-6634A-03, W07-0634E-41, W07-0634B-41, W07-0634A-41, W07-0634A-42, 251-00111-23, W07-0634E-02, W07-0634B-01, W07-6634A-01, W07-0634A-81, TFM02, TFM03, TFM04, TFM05, TFM06, TFM07, TFM08, TFM09, TFM10, TFM11, TFM12	

Note: YG-2200 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of YG-2200 can represent the remaining models.

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2. Test Result Summary

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Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203/§15.247 (c)	PASS
Conduction Emission, 0.15MHz to 30MHz	§15.207	N/A
Manually Activated Transmitter	§15.231(a)	PASS
Radiation Emission	§15.231(b), §15.205, §15.209, §15.35	PASS
Occupied Bandwidth	§15.231(c)	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.



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3. General Information

3.1. Test Environment and Mode

Operating Environment:		
Condition	Radiated Emission	
Temperature:	24.8 °C	
Humidity:	55 % RH	

Test Mode:

Operation mode: with modulation	Operation mode:	Keep the EUT in continuous transmitting with modulation
---------------------------------	-----------------	---

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case (Y axis) are shown in Test Results of the following pages.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis, which was shown in this test report and defined as follows:

Axis	Х	Υ	Z
Field Strength(dBuV/m)	52.47	55.31	52.59

Final Test Mode:

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo)

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
	1 (6)	/	(6)1	

Note: TPMS Service tool T1000 has passed FCC DoC test certification and meets the requirements of auxiliary device.

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



4. Facilities and Accreditations

4.1. Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB.

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

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

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB
7	Temperature	± 0.1°C
8	Humidity	± 1.0%



5. Test Results and Measurement Data

5.1. Antenna Requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

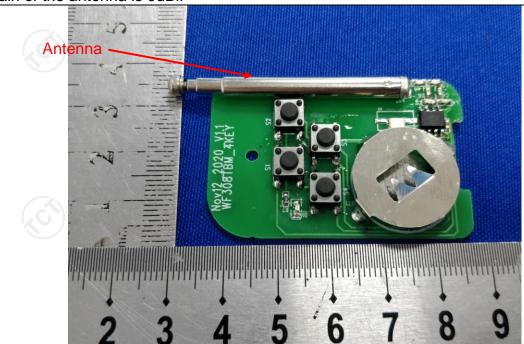
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is telescopic antenna which permanently attached, and the best case gain of the antenna is 0dBi.







5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207		
Test Method:	ANSI C63.4:2014			
Frequency Range:	150 kHz to 30 MHz			
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto	
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (c Quasi-peak 66 to 56* 56 60	AVerage 56 to 46* 46 50	
Test Setup:	AUX Equipment E.L Test table/Insulation plan Remark: E.U.T: Equipment Under Test	AUX Equipment Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network		
Test Mode:	Transmitting Mode	Transmitting Mode		
Test Procedure:	1. The E.U.T and simulation power through a line (L.I.S.N.). This profimpedance for the m 2. The peripheral device power through a LIS coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferent emission, the relative the interface cables ANSI C63.4: 2014 or	e impedance stabeling a 50 measuring equipment es are also conners. With 50 measuring with 50 measuring are checked are are checked are in order to first expositions of equipment expositions of equipment in the control of the expositions of equipment in the change of the expositions of equipment in the change of the expositions of equipment in the exposition in	ilization network /50uH coupling ent. ected to the main a 50ohm/50uH hination. (Please test setup and d for maximum of the maximum ipment and all of ed according to	
Test Result:	N/A; Because the EUT item is not applicable.			

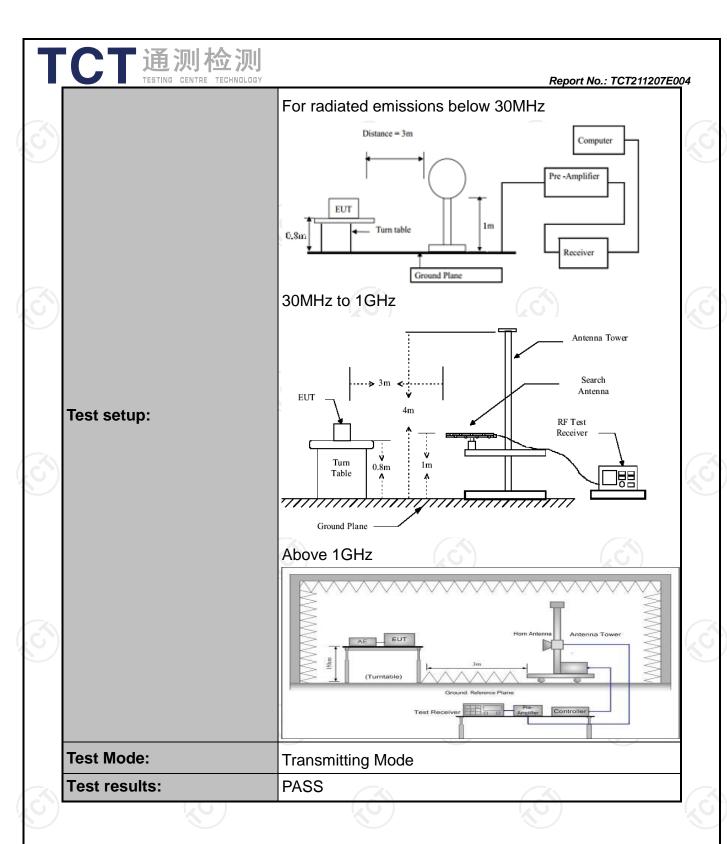


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5.3. Radiated Emission Measurement

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231(a) and 15.209								
Test Method:	ANSI C63.4: 2014 and ANSI C63.10:2013								
Frequency Range:	9 kHz to 5 GHz								
Measurement Distance:	3 m								
Antenna Polarization:	Horizontal & Vertical								
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz Above 1GHz	Detector Quasi-peak Quasi-peak Peak Peak	RBW 200Hz 9kHz 120KHz 1MHz 1MHz	VBW 1kHz 30kHz 300KHz 3MHz 10Hz	Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak Value Average Value				
Test Procedure:	meters a below 10 1GHz. T determine 2. The EU interferen on the top 3. The anten meters at value of vertical pethe meas 4. For each sto its work heights frestable was find the mass fin	was placed bove the game of the position of a variation of the content of the content of the variation of the variati	on the to ground a above was rot on of the et 3 m and the emission of the Emis	t a 3 m the gro tated 36 highest eters a ha, which from or determin Both antenna the EU e antenna reters ar grees to as set the cified, the es of the sions the sted one	otating table 0.8 leter camber in bund in above 60 degrees to radiation. way from the h was mounted				





5.3.2. Limit

Fundamental Frequency (MHz)	Filed Strength of Fundamental (microvolts/meter)	Filed Strength of Spurious Emission (microvolts/meter)		
40.66-40.70	2250	225		
70-130	1250	125		
130-174	1250 to 3750*	125 to 375*		
174-260	3750	375		
260-470	3750 to 12500*	375 to 1250*		
Above 470	12500	1250		

^{*}Linear interpolations

Horn Antenna

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

Schwarzbeck

For the band 130-174 MHz, μ V/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, μ V/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

For EUT

Fundamental Frequency (MHz)	Filed Strength of Fundamental (dBµV/m)	Filed Strength of Spurious Emission(dBµV/m)		
433.94	80.83	60.83		

Note:

- Intentional radiators operating under the provisions of this Section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions.
- 2.According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits Shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.
- 3. According to 15.231(b), The limits on the field strength of the spurious emissions in the above table is based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in Section 15.209, whichever limit permits one higher field strength.



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BBHA 9120D



Frequencies in restricted band are complied to limit on Paragraph 15.209

Distance (m)	Field strength (dB μ V/m)
3	20log 2400/F (kHz) + 80
3	20log 24000/F (kHz) + 40
3 (0)	20log 30 + 40
3	40.0
3	43.5
3	46.0
3	54.0
	3 3 3 3 3 3

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 * (d2/d1)







5.3.3. Test Instruments

	Radiated En	nission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Mar. 11, 2022
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Apr. 08, 2022
Pre-amplifier	HP	8447D	2727A05017	Jul. 07, 2022
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Coaxial cable	SKET	RC_DC18G-N	N/A	Apr. 08, 2022
Coaxial cable	SKET	RC-DC18G-N	N/A	Apr. 08, 2022
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A



5.3.4. Test Data

Duty Cycle Test Data:

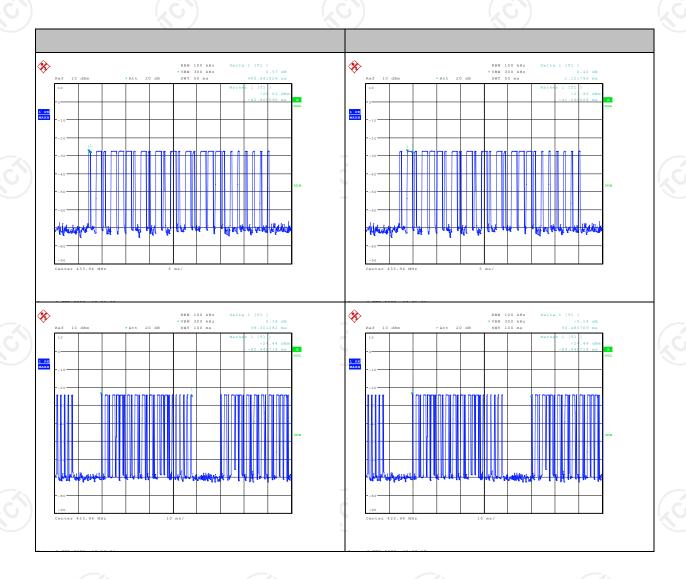
Total time one cycle(ms) Effective time cycle(ms)		Duty Cycle	AV Factor(dB)
50.48	17.92	0.35	-9.00

Note:

Effective time one cycle= 0.40*14+1.12*11=17.92ms

Duty Cycle= Effective time one cycle/ Total time one cycle= 0.35

AV Factor = 20 log(Duty Cycle)= -9.00





Field Strength of Fundamental

Frequency (MHz)	•		Limits PK (dBuV/m)	Margin (dB)	
433.94	77.56	Н	100.83	-23.27	
433.94	66.64	V	100.83	-34.19	

Frequency (MHz)	Emission PK (dBuV/m)	AV Factor(dB)	Horizontal /Vertical	Emission AVG (dBuV/m)	Limits AV (dBuV/m)	Margin (dB)
433.94	77.56	-9.00	Н	68.56	80.83	-12.27
433.94	66.64	-9.00	V	57.64	80.83	-23.19

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
(\(\)	
	-	1
	<u> </u>	(3)

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

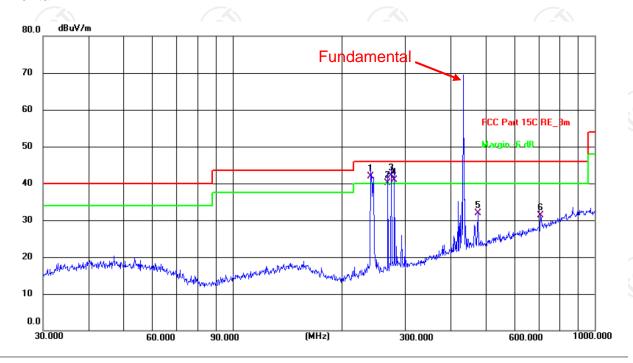
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Please refer to following diagram for individual

Below 1GHz

Horizontal:

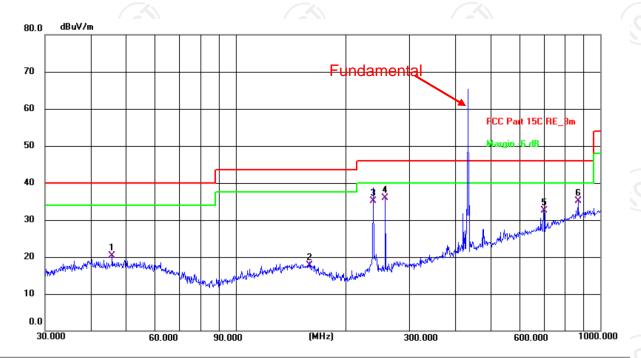


Site #2 3m Anechoic Chamber Polarization: *Horizontal* Temperature: 24.8(C) Humidity: 55 % Limit: FCC Part 15C RE_3m Power: DC 3 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1!	240.8300	29.09	12.74	41.83	46.00	-4.17	QP	Р	
2!	268.4852	26.98	13.20	40.18	46.00	-5.82	QP	Р	
3 *	274.1938	28.49	13.67	42.16	46.00	-3.84	QP	Р	
4!	280.0237	26.74	14.15	40.89	46.00	-5.11	QP	Р	
5	475.4990	12.95	18.86	31.81	46.00	-14.19	QP	Р	
6	709.1820	8.14	23.08	31.22	46.00	-14.78	QP	Р	



Vertical:



Site #2 3m Anechoic Chamber Polarization: Vertical Temperature: 24.8(C) Humidity: 55 %

Power: DC 3 V

Limit: FCC Part 15C RE_3m

No	0.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1		45.8551	6.34	13.88	20.22	40.00	-19.78	QP	Р	
2	.	159.7844	4.24	13.41	17.65	43.50	-25.85	QP	Р	
3		238.3101	22.57	12.63	35.20	46.00	-10.80	QP	Р	
4	*	257.4221	23.31	12.53	35.84	46.00	-10.16	QP	Р	
5		699.3044	9.68	22.87	32.55	46.00	-13.45	QP	Р	
6		869.1301	9.17	26.03	35.20	46.00	-10.80	QP	Р	

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

Freq. = Emission frequency in MHz
 Measurement (dBμV/m) = Reading level (dBμV) + Corr. Factor (dB)
 Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
 Limit (dBμV/m) = Limit stated in standard
 Margin (dB) = Measurement (dBμV/m) – Limits (dBμV/m)

* is meaning the worst frequency has been tested in the test frequency range

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Above 1GHz (PK value)

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Frequency PK Value (MHz)	Read Level PK (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level PK (dBuV/m)	Limit Line PK (dBuV/m)	Over Limit (dB)	Polarization
1370.00	37.56	25.66	4.59	33.39	34.42	74.00	-39.58	Vertical
2355.00	37.42	27.69	5.34	34.05	36.40	74.00	-37.60	Vertical
3415.00	37.37	28.67	6.80	32.85	39.99	74.00	-34.01	Vertical
4150.00	33.74	30.06	8.01	32.01	39.8	74.00	-34.20	Vertical
4695.00	33.95	31.65	8.51	32.03	42.08	74.00	-31.92	Vertical
5645.00	31.12	32.36	9.72	32.35	40.85	74.00	-33.15	Vertical
1430.00	36.88	25.42	4.64	33.47	33.47	74.00	-40.53	Horizontal
2410.00	36.76	27.57	5.40	33.99	35.74	74.00	-38.26	Horizontal
3395.00	37.89	28.60	6.76	32.87	40.38	74.00	-33.62	Horizontal
4115.00	30.34	29.95	7.97	32.05	36.21	74.00	-37.79	Horizontal
4635.00	31.87	31.57	8.46	32.01	39.89	74.00	-34.11	Horizontal
5590.00	29.13	32.22	9.63	32.38	38.60	74.00	-35.40	Horizontal

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (dB μ V/m)- limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown " * "in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.







5.4. Manually Activated Transmitter

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231(a)(1)		
Test Method:	ANSI C63.10: 2013		
Limit:	According to 15.231(a), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.		
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings. VBW = 1MHz, VBW ≥ RBW; Span = 0; Sweep Time = 5s; Detector function = peak; Measure and record the results in the test report. 		
Test setup:	Spectrum Analyzer EUT		
Test Mode:	Transmitting Mode		
Test results:	PASS		

5.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Jul. 18, 2022



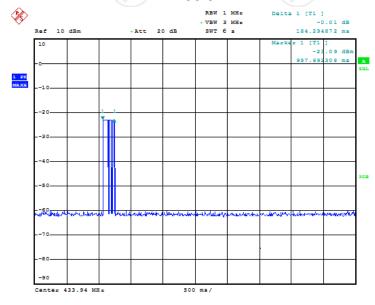
5.4.3. Test data

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)	Test Channel (MHz)	Manually Activated Transmitter (s)	Limit (s)	Conclusion
	433.94	0.18	5	PASS

Test plots as follows:





Date: 6.FEB.2022 12:18:15







5.5. Occupied Bandwidth

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231C		
Test Method:	ANSI C63.10: 2013		
Limit:	According to 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the centre frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.		
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW ≥ 1% of the 20 dB bandwidth; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. 		
Test setup:	Spectrum Analyzer EUT		
Test Mode:	Transmitting Mode		
Test results:	PASS		

5.5.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Jul. 18, 2022



5.5.3. Test data

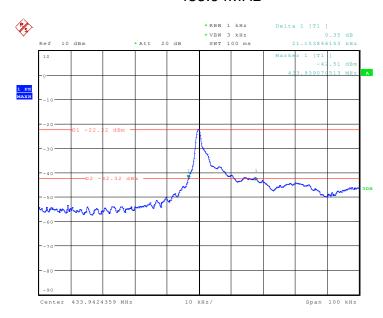
Report No.: TCT211207E004

Test Channel (MHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
433.94	21.15	1084.85	PASS

Note: Limit = 433.94MHz *0.25% = 1084.85 kHz

Test plots as follows:

433.94MHz



Date: 6.FEB.2022 12:15:13





Appendix A: Photographs of Test Setup Product: Fog Machine Model: YG-2200

Radiated Emission







Appendix B: Photographs of EUT
Product: Fog Machine
Model: YG-2200

External Photos





TCT通测检测 testing centre technology





TCT通测检测 TESTING CENTRE TECHNOLOGY





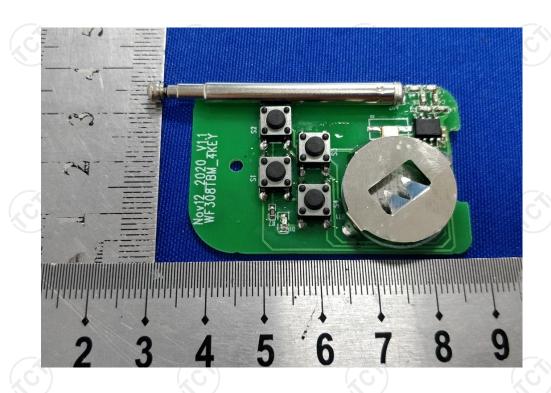
TCT通测检测 TESTING CENTRE TECHNOLOGY



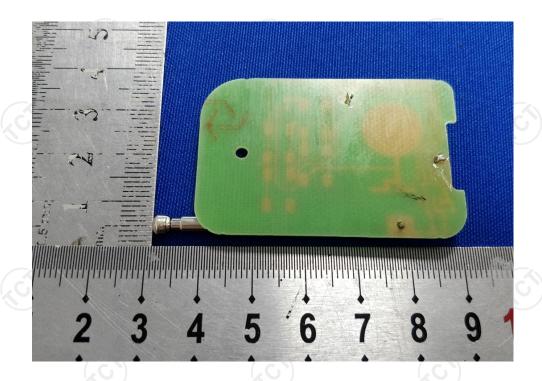


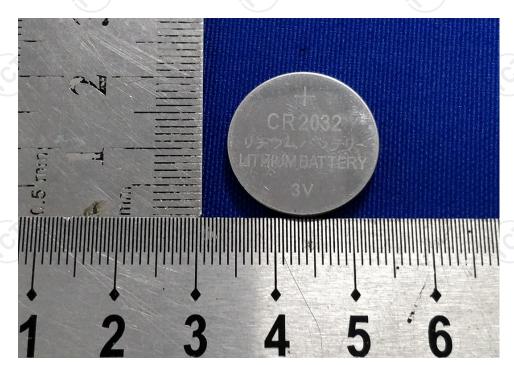
Product: Fog Machine Model: YG-2200 Internal Photos











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