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FCC TEST REPORT FCC ID: 2AWDBHTP115FRF Report Number..... ZHT-231228024E Date of Test...... Dec. 28, 2023 to Jan. 11, 2024 Date of issue.....: Jan. 11, 2024 Test Result: PASS Testing Laboratory.....: Guangdong Zhonghan Testing Technology Co., Ltd. Address Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China Applicant's name FUJIAN BALDR TECHNOLOGY CO., LTD Manufacturer's name: FUJIAN BALDR TECHNOLOGY CO., LTD Address Floor 3-4, Building 2, No.71 Yangqi Road, Gaishan Town, Cangshan District, Fuzhou, 350007 Fujian, P.R. China Test specification: Standard...... FCC CFR Title 47 Part 15 Subpart C Section 15.231 ANSI C63.10:2013 Test procedure.....: / Non-standard test method N/A This device described above has been tested by ZHT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of ZHT, this document may be altered or revised by ZHT, personal only, and shall be noted in the revision of the document. Product name......: Pump Timer, Water Timer Trademark: N/A Model/Type reference.....: HTP115FRF TTP115W, HTP137FRF, HTP138FRF, HTP142FRF, ITP137, ITP138, HTV210B, TTV210B Model Difference...... All models use the same circuit and RF module, and the only difference is the model name. The model HTP115FRF is the tested sample. Ratings.....: Input: solar DC 5V1A type-C 5V1A Battery capacity: 2600mAh 9.62Wh/3.7V Battery: 18650 Lithium Ion Rechargeable Battery (3.7V 2600mAh)



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	port No. 31228024E	Version Rev.01	Descriptio	Approved Jan. 11, 2024
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2. SUMMARY OF TEST RESULTS





Test procedures according to the technical standards:

FCC Part15 (15.231) , Subpart C							
Standard Section	Test Item						
15.207	15.207 Conducted Emission						
15.209,15.231b	Fundamental &Radiated Spurious Emission Measurement	PASS					
15.231c	15.231c Occupy Bandwidth						
15.231a	Dwell time	PASS					
15.203	Antenna Requirement	PASS					

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report





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2.1 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd. Add. : Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

FCC Registration Number: 255941 Designation Number: CN0325 IC Registered No.: 29832 CAB identifier: CN0143

2.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty	
1	Conducted Emission Test	±1.38dB	
2	RF power conducted	±0.16dB	
3	Spurious emissions conducted	±0.21dB	
4	All emissions radiated(9k-30MHz)	±4.68dB	
5	All emissions radiated(<1G)	±4.68dB	
6	All emissions radiated(>1G)	±4.89dB	
7 P	Temperature	±0.5°C	
8	Humidity	±2%	
9	Occupied Bandwidth	±4.96%	





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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Pump Timer, Water Timer	
Test Model Name	HTP115FRF	
Hardware version	V1.0	
Software version	V1.0	
Operation Frequency:	433.15MHz	
Modulation Type:	ASK	
Antenna Type:	Spring Antenna	
Antenna Gain:	-1.6dBi	
	Input: solar DC 5V1A type-C 5V1A	
Detinue	Battery capacity: 2600mAh 9.62Wh/3.7V	
Ratings	Battery: 18650 Lithium Ion Rechargeable	
	Battery (3.7V 2600mAh)	







3.2 DESCRIPTION OF TEST MODES

/ LA ())		
	For All Emission	
Final Test Mode	Description	
Transmitting mode	Keep the EUT in continuously transmitting mode	

Note:

(1) Fully-charged battery is used during the test

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

RE Spurious emissions

	E-1 EUT
1	

3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Mfr/Bra	ind Mo	del/Type No.	Series No.	Note
/	/	1		/	1	/
120)					
Item	Shielded Type	Ferrite Core	Length		Note	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in $\[$ Length $\]$ column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Model	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	May 12, 2023	May 11, 2024
2	Loop antenna	EMCI	LAP600	May 12, 2023	May 11, 2024
3	Amplifier	Schwarzbeck	BBV 9743 B	May 12, 2023	May 11, 2024
4	Amplifier	Schwarzbeck	BBV 9718 B	May 12, 2023	May 11, 2024
5	Bilog Antenna	Schwarzbeck	VULB9162	May 17, 2023	May 16, 2024
6	Horn Antenna	Schwarzbeck	BBHA9120D	May 17, 2023	May 16, 2024
7	Horn Antenna	A.H.SYSTEMS	SAS574	May 12, 2023	May 11, 2024
8	Amplifier	AEROFLEX	100KHz-40GHz	May 12, 2023	May 11, 2024
9	Spectrum Analyzer	R&S	FSV40	May 12, 2023	May 11, 2024
10	CDNE	Schwarzbeck	CDNE M2 + CDNE M3	May 12, 2023	May 11, 2024
11	966 Anechoic Chamber	EMToni	9m6m6m	Nov. 25, 2021	Nov. 24, 2024
12	Spectrum Analyzer	KEYSIGHT	N9020A	May 12, 2023	May 11, 2024
13	WIDBAND RADIO COMMUNICATI ON TESTER	R&S	CMW500	May 12, 2023	May 11, 2024
14	Single Generator	Agilent	N5182A	May 12, 2023	May 11, 2024
15	Power Sensor	MWRFtest	MW100-RFCB	May 12, 2023	May 11, 2024
16	Audio analyzer	R&S	UPL	May 12, 2023	May 11, 2024
17	Single Generator	R&S	SMB100A	May 12, 2023	May 11, 2024
18	Power Amplifier Shielding Room	EMToni	2m3m3m	Nov. 25, 2021	Nov. 24, 2024

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Conduction Test equipment

				2
Equipment	Manufacturer	Model	Last Cal.	Next Cal.
Receiver	R&S	ESCI	May 12, 2023	May 11, 2024
LISN	R&S	ENV216	May 12, 2023	May 11, 2024
ISN CAT 6	Schwarzbeck	NTFM 8158	May 12, 2023	May 11, 2024
ISN CAT 5	Schwarzbeck	CAT5 8158	May 12, 2023	May 11, 2024
Capacitive Voltage Probe	Schwarzbeck	CVP 9222 C	May 12, 2023	May 11, 2024
Current Transformer Clamp	Schwarzbeck	SW 9605	May 12, 2023	May 11, 2024
CE Shielding Room	EMToni	9m4m3m	Nov. 25, 2021	Nov. 24, 2024

Conducted Test equipment

- / M.)		/ / /	/		7 M D
ltem	Equipment	Manufacturer	Model	Last Cal.	Next Cal.
1	Spectrum Analyzer	KEYSIGHT	N9020A	May 12, 2023	May 11, 2024

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207	
Test Method:	ANSI C63.10:2013	
Test Frequency Range:	150KHz to 30MHz	11
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto	

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS

(Frequency Range 150KHz-30MHz)

FREQUNCY (MHz)	Limit (Standard	
FREQUICT (MILZ)	Quasi-peak	Average	Stanuaru
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



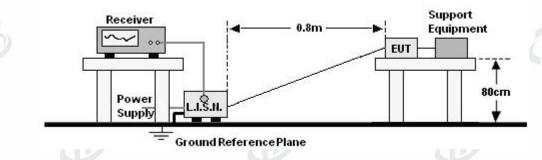
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4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.
- 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 TEST RESULTS

The EUT is powered by battery (DC 3.7V), the test item is not applicable.

Note: The battery is a detachable battery. When charging the battery with 5V1A input, it needs to be removed from the product for charging. The product cannot work while charging, so this project is not applicable.



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4.2 RADIATED EMISSION MEASUREMENT

FCC Part15 C Sect	FCC Part15 C Section 15.209				
ANSI C63.10:2013	ANSI C63.10:2013				
9kHz to 25GHz	9kHz to 25GHz				
Measurement Dista	Measurement Distance: 3m				
Frequency	Detector	RBW	VBW	Value	
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak	
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak	
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak	
	Peak	1MHz	3MHz	Peak	
	Peak	1MHz	10Hz	Average	
	ANSI C63.10:2013 9kHz to 25GHz Measurement Dista Frequency 9KHz-150KHz 150KHz-30MHz	ANSI C63.10:2013 9kHz to 25GHz Measurement Distance: 3m Frequency Detector 9KHz-150KHz Quasi-peak 150KHz-30MHz Quasi-peak 30MHz-1GHz Peak	ANSI C63.10:20139kHz to 25GHzMeasurement Distance: 3mFrequencyDetector9KHz-150KHzQuasi-peak200Hz150KHz-30MHzQuasi-peak30MHz-1GHzQuasi-peak100KHzAbove 1GHz	ANSI C63.10:2013 9kHz to 25GHz Measurement Distance: 3m Frequency Detector RBW VBW 9KHz-150KHz Quasi-peak 200Hz 600Hz 150KHz-30MHz Quasi-peak 9KHz 30KHz 30MHz-1GHz Quasi-peak 100KHz 300KHz Above 1GHz Peak 1MHz 3MHz	

4.2.1 RADIATED EMISSION LIMITS

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.231(b) limit in the table below has to be followed.

Frequencies(MHz)	Field Strength(micorvolts/meter)	Measurement Distance(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

	Limit (dBu	√/m) (at 3M)	15
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).







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FUNDAMENTAL AND HARMONICS EMISSION LIMITS

Fundamental	Field Strength of	Field Strength of
Frequency (MHz)	Fundamental (microvolts/meter)	Spurious Emissions (microvolts/meter)
2019.00. 2020.00 V2		
40.66 - 40.70	2,250	225
70 - 130	1,250	125
130 - 174	1,250 to 3,750 **	125 to 375 **
174 - 260	3,750	375
260 - 470	3,750 to 12,500 **	375 to 1,250 **
Above 470	12,500	1,250

** linear interpolations

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

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW setting	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average
5 M	a sub-

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

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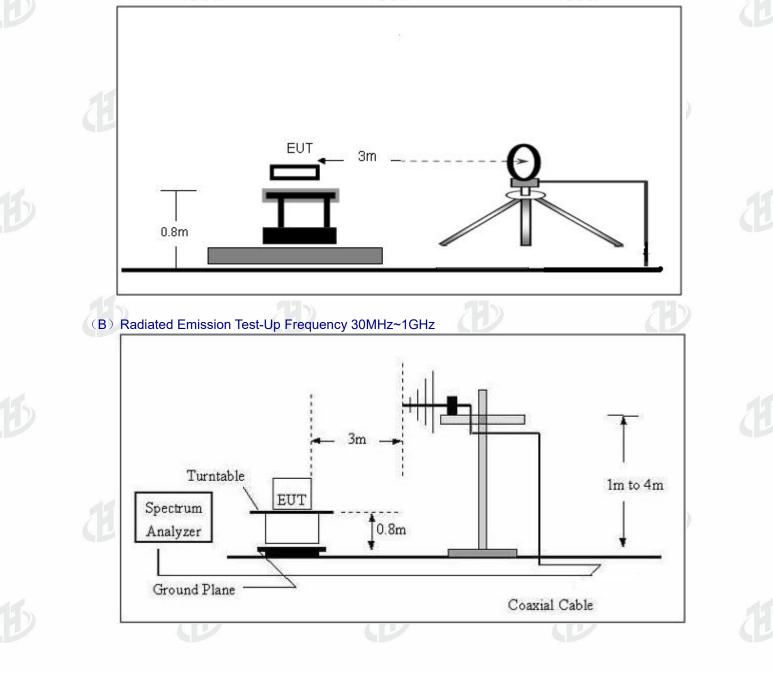
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- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:
 - Both horizontal and vertical antenna polarities were tested

and performed pretest to three orthogonal axis. The worst case was X axis and the emissions were reported

4.2.3 TEST SETUP

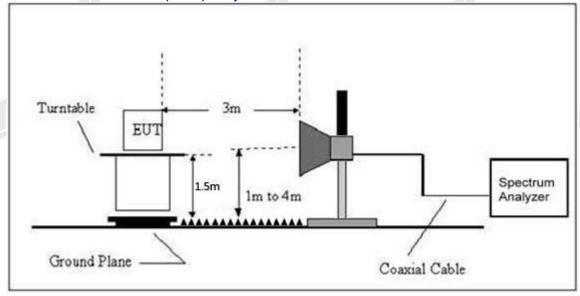
(A) Radiated Emission Test-Up Frequency Below 30MHz





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(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.5 TEST RESULTS

Radiated Spurious Emission (Below 9KHz - 30MHz)

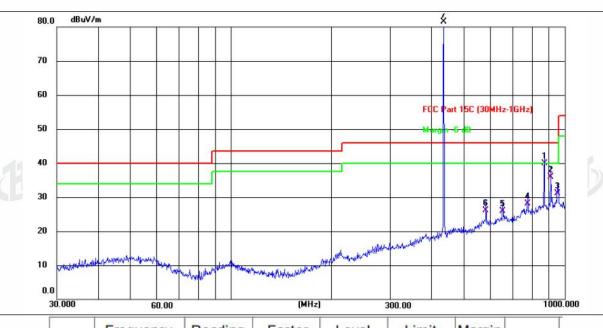
NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



Radiated Spurious Emission (Between 30MHz – 1GHz)

Temperature :	24.9 ℃	Relative Humidity :	53%
Pressure :	101 kPa	Polarization :	Horizontal
Test Voltage :	DC 3.7V		1.4
Test Mode :	TX Mode		



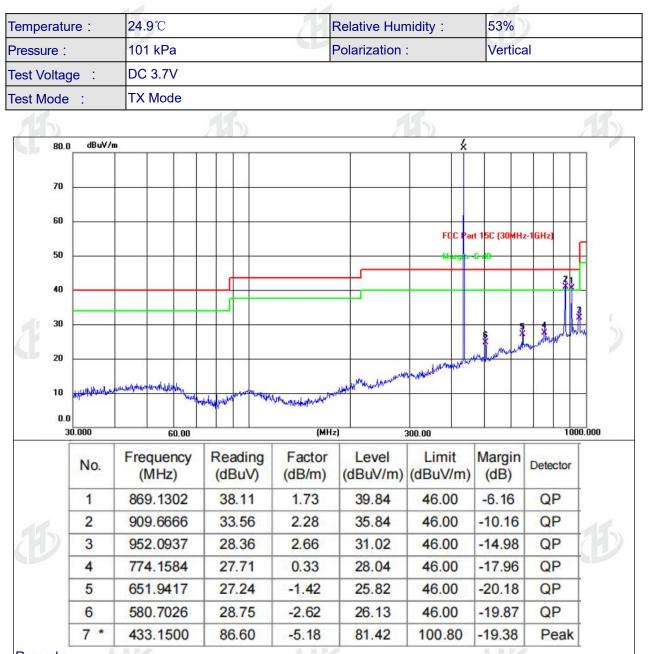
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	906.4824	38.16	2.26	40.42	46.00	-5.58	QP
2 !	869.1302	39.10	1.73	40.83	46.00	-5.17	QP
3	955.4381	29.11	2.70	31.81	46.00	-14.19	QP
4	752.7431	27.54	0.05	27.59	46.00	-18.41	QP
5	649.6596	28.53	-1.46	27.07	46.00	-18.93	QP
6	504.7062	28.61	-3.99	24.62	46.00	- <mark>21</mark> .38	QP
7 *	433.1500	86.52	-5.18	81.34	100.80	-19.46	Peak

Remarks:

1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



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Remarks:

1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor 2.The emission levels of other frequencies are very lower than the limit and not show in test report.









For average Emission

Frequency MHz	Peak Level dBuV/m	Duty cycle factor	Average Level dBuV/m	Limit PK	Limit AV	Margin PK	Margin AV	Polarization
433.15	81.34	0		100.80	80.80	-19.46	1	Horizontal
866.3	43.62	0	43.62	80.80	60.80	-37.18	-17.18	Horizontal

Notes: 1. Average emission Level = Peak Level + Duty cycle factor

2. Duty cycle level please see clause 6.

Frequency MHz	Peak Level dBuV/m	Duty cycle factor	Average Level dBuV/m	Limit PK	Limit AV	Margin PK	Margin AV	Polarization
433.15	81.42	0		100.80	80.80	-19.38	1	Horizontal
866.3	42.03	0	42.03	80.80	60.80	-38.77	-18.77	Horizontal

Notes: 1. Average emission Level = Peak Level + Duty cycle factor 2. Duty cycle level please see clause 6.





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Radiated Spurious Emission (1GHz to 10th harmonics)

	12 3			25				
Frequency	Peak	Duty	Average	Lii	mit	Margi	n dB	
MHz	Level	cycle	Level	РК	AV	PK	AV	Polarization
	dBuV/m	factor	dBuV/m		Av	FK	AV	
1301.1	42.25	0	42.25	74	54	-31.75	-11.75	Н
1734.8	36.91	0 2	36.91	80.8	60.8	-43.89	-23.89	H
2168.5	40.45	0	40.45	80.8	60.8	-40.35	-20.35	Н
2602.2	39.51	0	39.51	80.8	60.8	-41.29	-21.29	Н
3035.9	31.67	0	31.67	74	54	-42.33	-22.33	Н
1301.1	40.40	0	40.40	74	54	-33.6	-13.6	V
1734.8	38.71	0	38.71	80.8	60.8	-42.09	-22.09	V
2168.5	40.17	0	40.17	80.8	60.8	-40.63	-20.63	V
2602.2	35.76	0	35.76	80.8	60.8	-45.04	-25.04	V
3035.9	31.55	0	31.55	74	54	-42.45	-22.45	V ()
							•	

Notes: 1.Average emission Level = Peak Level + Duty cycle factor

2.Duty cycle level please see clause 6.

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5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

According to FCC 15.231(c) requirement:

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating between 70 MHz to 900 MHz. Those devices operating above 900 MHz, the emission spurious shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

B.W (20dBc) Limit = 0.25% * f(MHz) = 0.25% * 433.15MHz = 1.0828MHz

Spectrum Parameter		Setting	
Attenuation		Auto	
Span Frequency	> Measuremen	t Bandwidth or Channel Se	paration
RB		100KHz	
VB		≥RBW	
Detector		Peak	
Trace		Max Hold	
Sweep Time		Auto	

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW \geq RBW, Sweep time = Auto.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

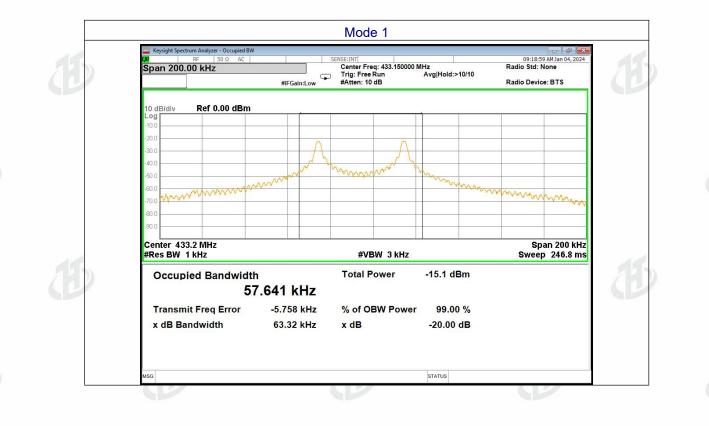


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5.6 TEST RESULTS

Temperature :	25.1 ℃	Relative Humidity :	55%
Pressure :	101kPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode		
CP (P)			

Frequency	20dB Bandwidth	Limit	Result
Frequency	(kHz)	(MHz)	Result
433.15MHz	63.32	1.0828	PASS





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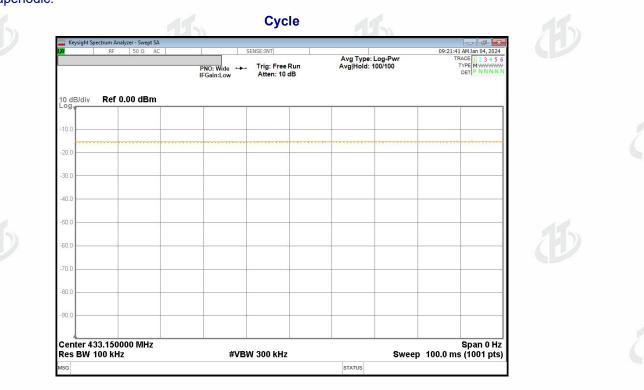
6. CALCULATION OF AVERAGE FACTOR

The output field strengths of specification in accordance with the FCC rules specify measurements with an average detector. During the test, a spectrum analyzer incorporating a peak detector was used. Therefore, a reduction factor can be applied to the resultant peak signal level and compared to the limit for measurement instrumentation incorporating an average detector.

The duty cycle is measured by placing the spectrum analyzer to set zero span at 0.1MHz resolution bandwidth.

Averaging factor in dB =20log (duty cycle) Duty Cycle = 100%=1 Therefore, the averaging factor is found by 20log1= 0dB

Test plot as follows: Note: aperiodic.





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7. DWELL TIME

According to FCC 15.231(a) requirement:

A manually operated transmitter shall employ a switch that will automatically deactivate the

transmitter within not more than 5 seconds of being released.

7.2 TEST PROCEDURE

Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

1.Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.

2.Set RBW to 1MHz and VBW of spectrum analyzer to 3MHz with a convenient frequency span including 100 kHz bandwidth from band edge.

3. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

4. Repeat above procedures until all measured frequencies were complete.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

	5. T
EUT	SPECTRUM
	ANALYZER

7.5 EUT OPERATION CONDITIONS

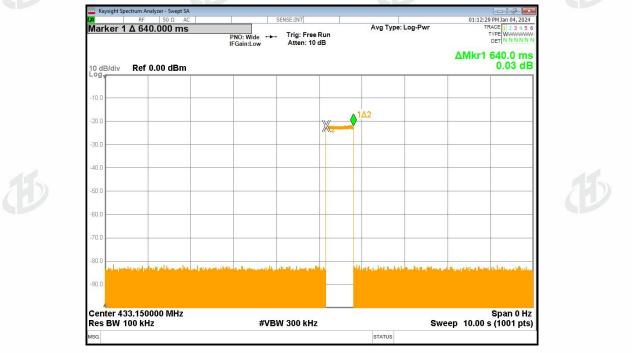
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



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Test plot as follows:



















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8. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203
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 de	vice. The use of a permanently attached antenna or of an antenna that uses a
unique coupling to the intentio	nal radiator, the manufacturer may design the unit so that a broken antenna car
be replaced by the user, but th	e use of a standard antenna jack or electrical connector is prohibited.
EUT Antenna:	
The antenna is Spring Antenna	a, the best case gain of the antennas are -1.6dBi, reference to the appendix II fo
details	



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Referer	nce to the appen	dix II for details.				
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