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TEST REPORT

Product Name	:	Doorbell
Brand Mark	:	TeckNet TECKNET
Model No.	:	TK-WD006
FCC ID	:	2AK8Q-TKWD006
Report Number	:	BLA-EMC-202209-A0701
Date of Sample Receipt	:	2022/9/2
Date of Test	:	2022/9/2 to 2022/9/16
Date of Issue	:	2022/9/16
Test Standard	:	47 CFR Part 15, Subpart C 15.231
Test Result	:	Pass

Prepared for:

Shenzhen Unichain Technology Co., Ltd 201, 111-3, Huangjinshan District, Bantian Community, Bantian Street, Longgang District, Shenzhen, China

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd. Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China TEL: +86-755-23059481

Review by:

nicell

Compiled by: Jozu Approved by: Bhe Theng

Date:







REPORT REVISE RECORD

Version No.	Date	Description	
00	2022/9/16	Original	



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1 TEST SUMMARY

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
Field strength of the fundamental signal	15.231 (b)	Pass
Spurious emissions	15.231 (b)/15.209	Pass
20dB Bandwidth	15.231(c)	Pass
Dwell time	15.231 (a)(1)	Pass
Conducted Emission	15.207	N/A

Remarks:

N/A: The EUT not applicable of the test item.

Pass: The EUT complies with the essential requirements in the standard.

Test according to ANSI C63.4:2014 and ANSI C63.10:2013.



GENERAL INFORMATION 2

Applicant	Shenzhen Unichain Technology Co., Ltd	
Address 201, 111-3, Huangjinshan District, Bantian Community, Bantian Street, Longgang District, Shenzhen, China		
Manufacturer Shenzhen Unichain Technology Co., Ltd		
Address 201, 111-3, Huangjinshan District, Bantian Community, Bantian Street, Longgang District, Shenzhen, China		
Factory Shenzhen Unichain Technology Co., Ltd		
Address	201, 111-3, Huangjinshan District, Bantian Community, Bantian Street, Longgang District, Shenzhen, China	
Product Name	Doorbell	
Test Model No.	TK-WD006	
3 GENERAL DESC	RIPTION OF E.U.T.	

GENERAL DESCRIPTION OF E.U.T. 3

3

Hardware Version	N/A
Software Version	N/A
Operation Frequency:	433.92MHz
Channel numbers:	1
Modulation type:	ASK
Antenna Type:	PCB antenna
Antenna gain:	0dBi(Provided by customer)
Power supply:	DC 3V



4 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25°C	DC3V

5 TEST MODE

TEST MODE	TEST MODE DESCRIPTION			
TX mode	Transmitter mode, New battery is used during all test, X,Y,Z axis of EUT all have been tested, only worse case is reported.			
Remark: Only the data of the worst mode would be recorded in this report.				

6 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB





7 DESCRIPTION OF SUPPORT UNIT

Device Type Manufacturer		Model Name	Serial No.	Remark	
Note:					
"" means no any support device during testing.					

8 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.



9 TEST INSTRUMENTS LIST

Test Equipment Of Radiated Emissions						
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due	
Chamber	SKET	966	N/A	2020/11/10	2023/11/9	
Spectrum	R&S	FSP40	100817	2021/10/12	2022/10/11	
Receiver	R&S	ESR7	101199	2021/10/12	2022/10/11	
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25	
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25	
Amplifier	SKET	PA-000318G-45	N/A	2021/10/12	2022/10/11	
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A	
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2020/9/26	2022/9/25	
Controller	SKET	N/A	N/A	N/A	N/A	
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A	
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A	
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A	

Test Equipment Of	Field Strength of th	ne Fundamental S	ignal (15.231(I	o))	
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	2020/11/10	2023/11/9
Spectrum	R&S	FSP40	100817	2021/10/12	2022/10/11
Receiver	R&S	ESR7	101199	2021/10/12	2022/10/11
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25



Amplifier	SKET	PA-000318G-45	N/A	2021/10/16	2022/10/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2020/9/26	2022/9/25
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A
Test Equipment Of	Dwell Time (15.231	(a))			

Test Equipment Of Dwell Time (15.231(a))

		(* <i>11</i>			
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2021/10/12	2022/10/11
Spectrum	Agilent	N9020A	MY49100060	2021/10/12	2022/10/11
Signal Generator	Agilent	N5182A	MY49060650	2021/10/12	2022/10/11
Signal Generator	Agilent	E8257D	MY44320250	2021/10/12	2022/10/11

Test Equipment Of 2	20dB Bandwidth				
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2021/10/12	2022/10/11
Spectrum	Agilent	N9020A	MY49100060	2021/10/12	2022/10/11
Signal Generator	Agilent	N5182A	MY49060650	2021/10/12	2022/10/11
Signal Generator	Agilent	E8257D	MY44320250	2021/10/12	2022/10/11



10 RADIATED EMISSIONS

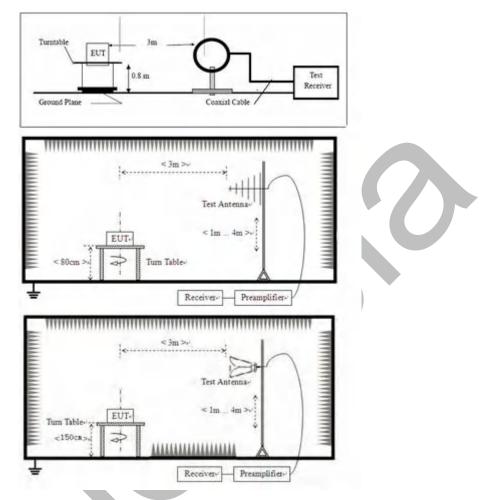
Test Standard	47 CFR Part 15, Subpart C 15.231
Test Method	ANSI C63.10 (2013) Section 6.4&6.5&6.6
Test Mode (Pre-Scan)	Normal Working
Test Mode (Final Test)	Normal Working
Tester	Jozu
Temperature	25℃
Humidity	60%
10.1 LIMITS	

10.1 LIMITS

	_		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
(Field strength of the	433.92 MHz	80.8	Average Value
fundamental signal)	400.02 10112	100.8	Peak Value
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
(Spurious Emissions)	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
		nitted unwanted emissior	
		fundamental level whiche	ever limit permits higher
	field strength.		
	 /1.5m(above 1GHz) was rotated 360 deg radiation. b. The EUT was set 3 in antenna, whichwas in tower. c. The antenna height ground to determine horizontal and vertice measurement. d. For each suspected and thenthe antenna and the rotatabletab find the maximum reference SpecifiedBandwidth f. If the emission level limitspecified, then the EUT wouldbe report 10dB margin would 	d on the top of a rotating ta above the ground at a 3 m grees to determine the pos meters away from the inte mounted on the top of a va is varied from one meter t the maximum value of the cal polarizations of the ante emission, the EUT was an a was tuned to heights from le was turned from 0 degree ading. stem was set to Peak Deter with Maximum Hold Mode of the EUT in peak mode esting could be stopped ar red. Otherwise the emission bere-tested one by one us specified andthen reported	neter chamber. The table bition of the highest rference-receiving ariable-height antenna o four meters above the e field strength. Both enna are set to make the rranged to its worst case m 1 meter to 4 meters ees to 360 degrees to ect Function and e. was 10dB lower than the nd the peak values of the ons that did not have sing peak, quasi-peak or

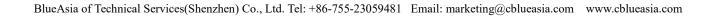


10.2 BLOCK DIAGRAM OF TEST SETUP



10.3 PROCEDURE

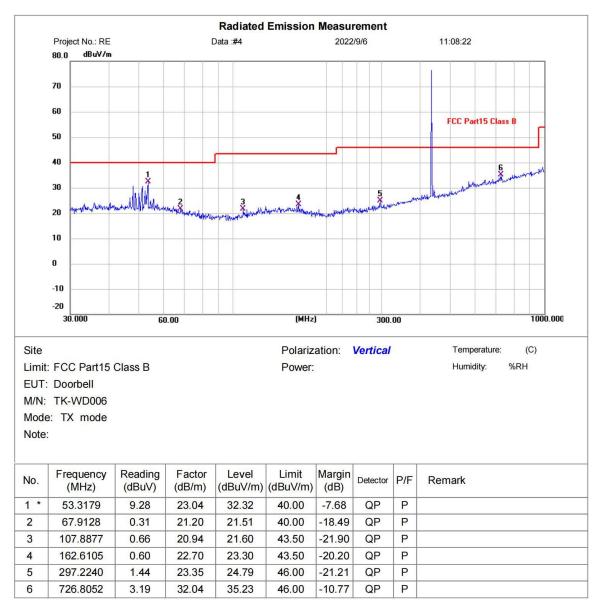
For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.





10.4 TEST DATA

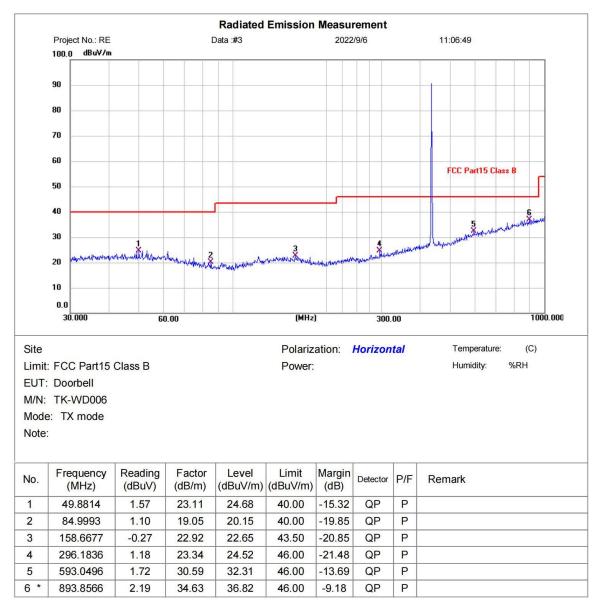
30M-1G Vertical



No.	Frequency (MHz)	QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result
1	726.8052	35.23	60.8	-25.57	Pass







No.	Frequency (MHz)	Peak Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result
1	893.8556	36.82	60.8	-23.98	Pass

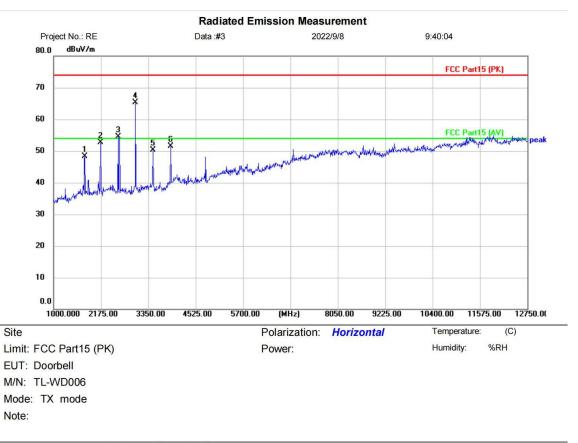
Remark:

1.Final Level =Receiver Read level +Correct factor

- 2.Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3.Average value = Peak value + Duty Cycle Factor



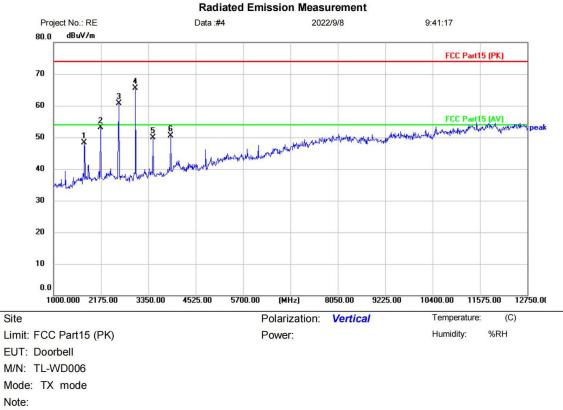
Above 1GHz Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		1775.500	54.51	-6.21	48.30	74.00	-25.70	peak	
2		2163.250	57.78	-4.99	52.79	74.00	-21.21	peak	
3		2598.000	58.76	-4.16	54.60	74.00	-19.40	peak	
4	*	3032.750	69.27	-3.99	65.28	74.00	-8.72	peak	
5		3467.500	53.24	-2.92	50.32	74.00	-23.68	peak	
6		3902.250	52.72	-1.14	51.58	74.00	-22.42	peak	

No.	Frequency (MHz)	Peak Result	Duty cycle	Average Result	Limit (dBuV/m)	Margin (dB)	Result
		(dBuV/m)	factor	(dBuV/m)			
1	1775.500	48.30	-14.19	34.11	60.8	-26.69	Pass
2	2163.250	52.79	-14.19	38.6	60.8	-22.2	Pass
3	2598.000	54.60	-14.19	40.41	60.8	-20.39	Pass
4	3032.750	65.28	-14.19	51.09	60.8	-9.71	Pass
5	3467.500	50.32	-14.19	36.13	60.8	-24.67	Pass
6	3902.250	51.58	-14.19	37.39	60.8	-23.41	Pass





		V	′er	tical	
	-	100	-	1000	

No. Mł	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	1763.750	54.51	-6.24	48.27	74.00	-25.73	peak	
2	2163.250	58.17	-4.99	53.18	74.00	-20.82	peak	
3	2621.500	64.77	-4.14	60.63	74.00	- <mark>13</mark> .37	peak	
4 *	3032.750	69.46	-3.99	65.47	74.00	-8.53	peak	
5	3467.500	52.74	-2.92	49.82	74.00	-24.18	peak	
6	3902.250	51.59	-1.14	50.45	74.00	-23.55	peak	

No.	Frequency (MHz)	Peak Result	Duty cycle	Average Result	Limit (dBuV/m)	Margin (dB)	Result
		(dBuV/m)	factor	(dBuV/m)			
1	1763.750	48.27	-14.19	34.08	60.8	-26.72	Pass
2	2163.250	53.18	-14.19	38.99	60.8	-21.81	Pass
3	2621.500	60.63	-14.19	46.44	60.8	-14.36	Pass
4	3032.750	65.47	-14.19	51.28	60.8	-9.52	Pass
5	3467.500	49.82	-14.19	35.63	60.8	-25.17	Pass
6	3902.250	50.45	-14.19	36.26	60.8	-24.54	Pass



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Remark:

- 1.Final Level =Receiver Read level +Correct factor
- 2.Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3.Average value = Peak value + Duty Cycle Factor

BlueAsia of Technical Services(Shenzhen) Co., Ltd. Tel: +86-755-23059481 Email: marketing@cblueasia.com www.cblueasia.com



11 FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL (15.231(b))

Test Standard	47 CFR Part 15, Subpart C 15.231
Test Method	ANSI C63.10 (2013) Section 6.5
Test Mode (Pre-Scan)	Normal Working
Test Mode (Final Test)	Normal Working
Tester	Jozu
Temperature	25°C
Humidity	60%
11.1 LIMITS	

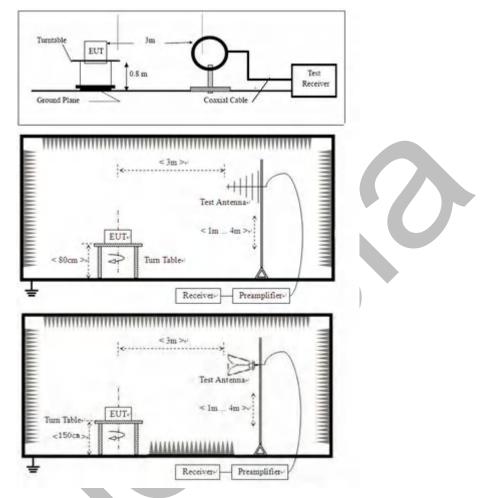
11.1 LIMITS

Fundamental	Field strength of fundamental(microvolts/meter)	Field strength of spurious emissions(microvolts/meter)
frequency(MHz)	Tunuamentai(microvoits/meter)	emissions(inicrovoits/ineter)
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

Remark: the emission limit is based on measurement instrumentation employing an average detector at a distance of 3 meters. The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



11.2 BLOCK DIAGRAM OF TEST SETUP



11.3 PROCEDURE

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

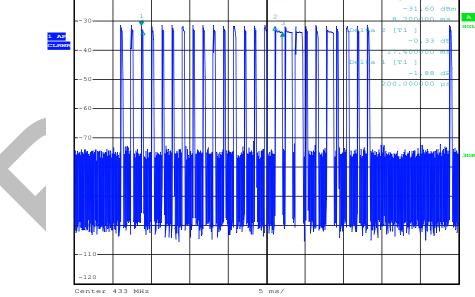


h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



11.4 TEST DATA

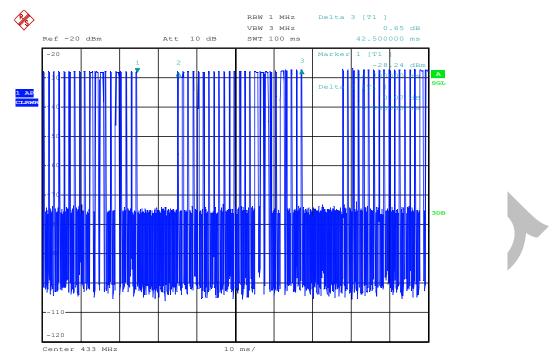
			Pea	k value		-	-		
Frequency (MHz)	Read Level (dBuV)		Correct Facor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
433.92		64	26.96	90.96	100.80	-9.84	Horizontoal		
433.92		49.45	26.96	76.41	100.80	-24.39	Vertical		
			Aver	age value					
Frequency (MHz)	Pe	ak value	Duty cycle factor	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
433.92		90.96	-14.19	76.77	80.80	-4.03	Horizontoal		
433.92		76.41	-14.19	61.71	80.80	-19.09	Vertical		
	Average value = Peak value + Duty Cycle Factor								
Calculate Formul	la:	Duty cycle factor = 20log(Duty cycle)							
		Duty cycl	e = on time/ period						
T on time =0.20ms*21+1ms*4=8.2(ms)									
Ta at data :		T period =42.0(ms)							
Test data:	Ī	Duty cycle =19.52%							
Duty cycle factor = 20log(Duty cycle) = -14.19									
*	Ref -2	20 dBm	,	RBW 1 MHz Del VBW 3 MHz SWT 50 ms	lta 3 [T1] -2.51 dB 18.400000 ms				
	-20 30	1		Max	cker 1 [T1 -31.60 dBr 8.700000 ms Lta 2 [T1] -0.33 dE	A SGL			



Date: 15.SEP.2022 08:54:41



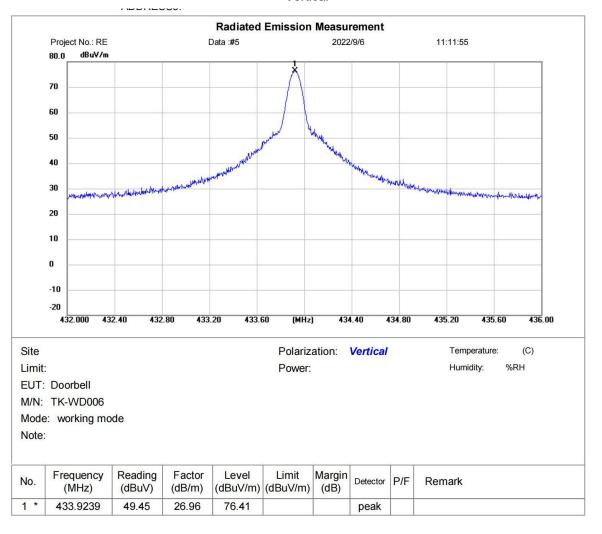
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Date: 14.SEP.2022 12:22:22

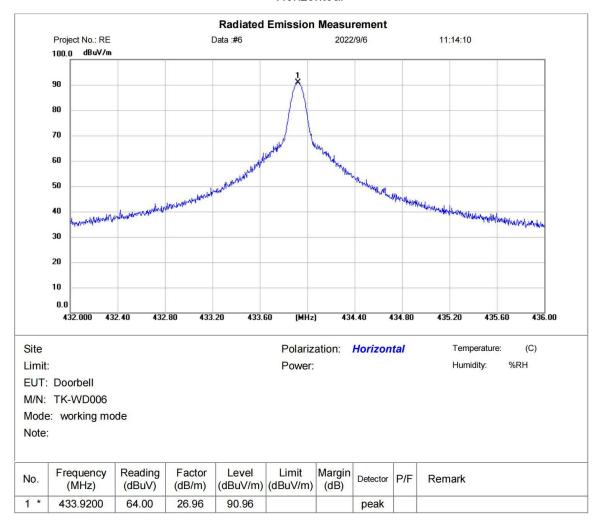








Horizontoal







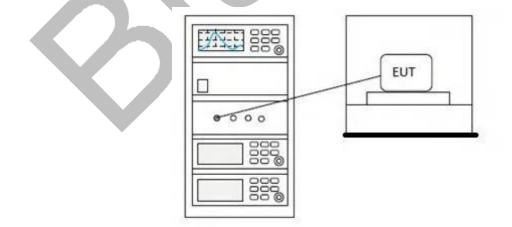
12 DWELL TIME (15.231(a1))

Test Standard	47 CFR Part 15, Subpart C 15.231	
Test MethodANSI C63.10 (2013) Section 7.8.4		
Test Mode (Pre-Scan)	Normal Working	
Test Mode (Final Test)	Normal Working	
Tester	Jozu	
Temperature	25℃	
Humidity	60%	
12.1 LIMITS		

12.1 LIMITS

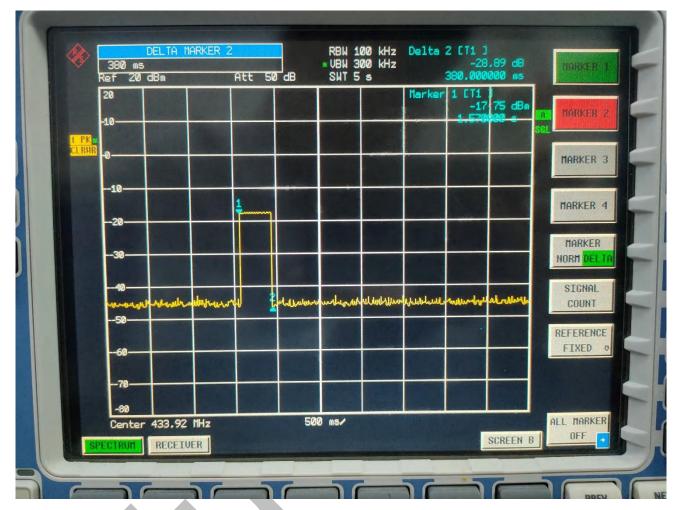
Device type	Limit
Manually operated transmitter	The switch automatically deactivate the transmitter within not more than 5 seconds of being released
Automatically actived transmitter	Cease transmission within 5 seconds after activation
Periodic transmissions to determine system integrity of transmitters used in security or safety applications	The total transmission time does not exceed 2 seconds per hour

12.2 BLOCK DIAGRAM OF TEST SETUP





12.3 TEST DATA



Measurement Data

Duration time (second)	Limit (second)	Result
0.38	<5.0	Pass



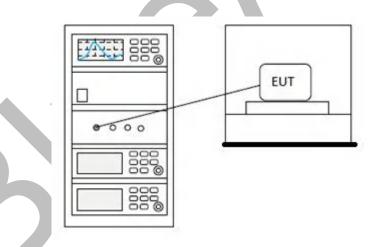
13 20DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.231		
Test Method	ANSI C63.10 (2013) Section 6.9		
Test Mode (Pre-Scan)	Normal Working		
Test Mode (Final Test)	Normal Working		
Tester	Jozu		
Temperature	25°C		
Humidity	60%		

13.1 LIMITS

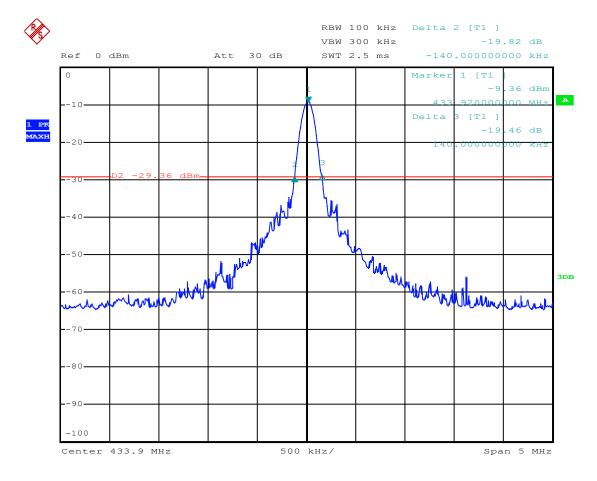
Frequency range(MHz)	Limit		
70-900	No wider than 0.25% of the center frequency		
Above 900	No wider than 0.5% of the center frequency		

13.2 BLOCK DIAGRAM OF TEST SETUP





13.3 TEST DATA



Date: 15.SEP.2022 13:25:47

Measurement Data

20dB bandwidth (MHz)		Limit (MHz)	Results
0.280		1.0848	Passed

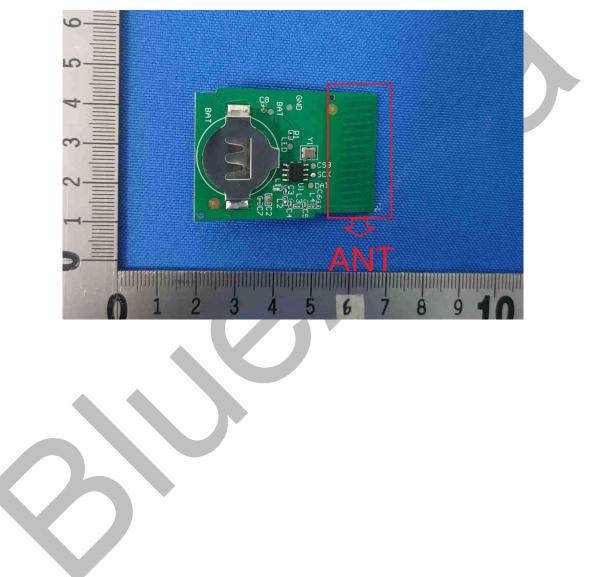
Note: Limit= Fundamental frequency×0.25%=433.92×0.25%=1.0848MHz



14 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.231
Test Method	N/A

14.1 CONCLUSION







APPENDIX A: PHOTOGRAPHS OF TEST SETUP



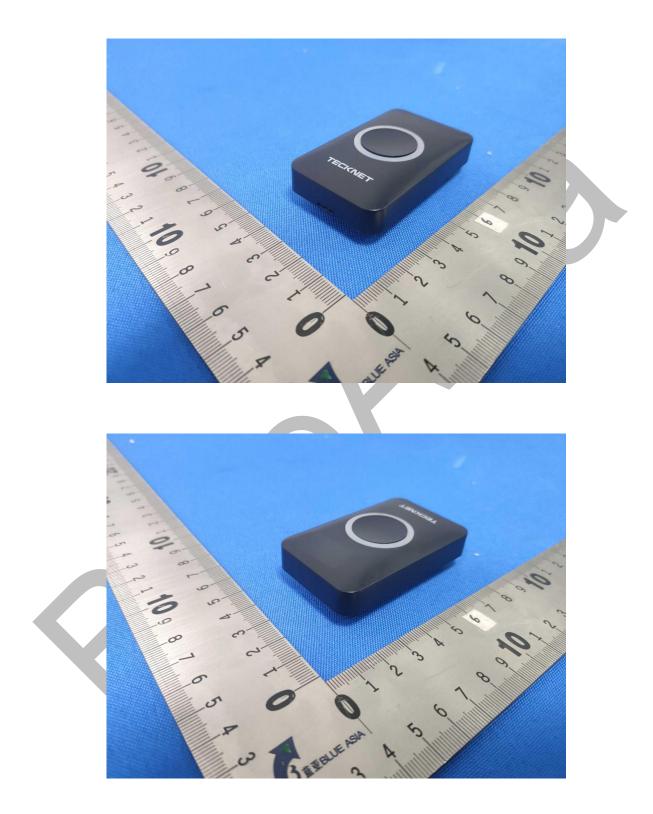
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APPENDIX B: PHOTOGRAPHS OF EUT





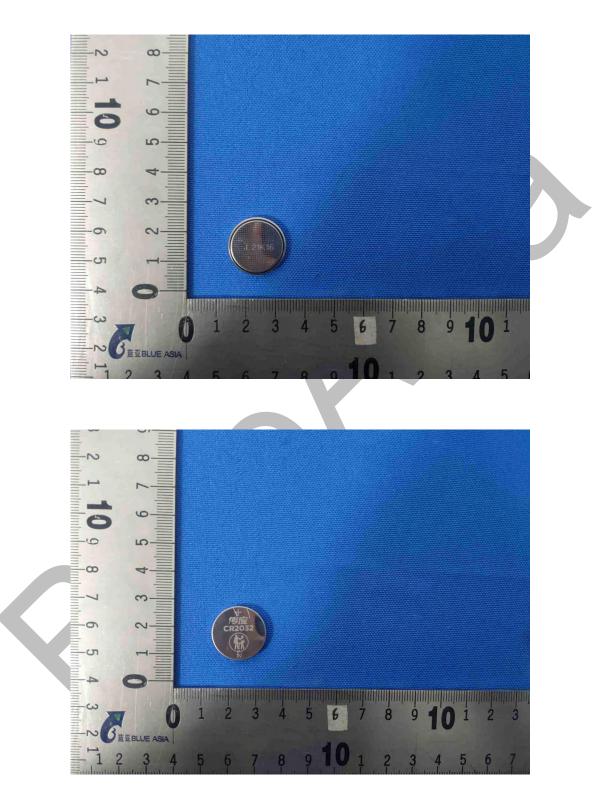
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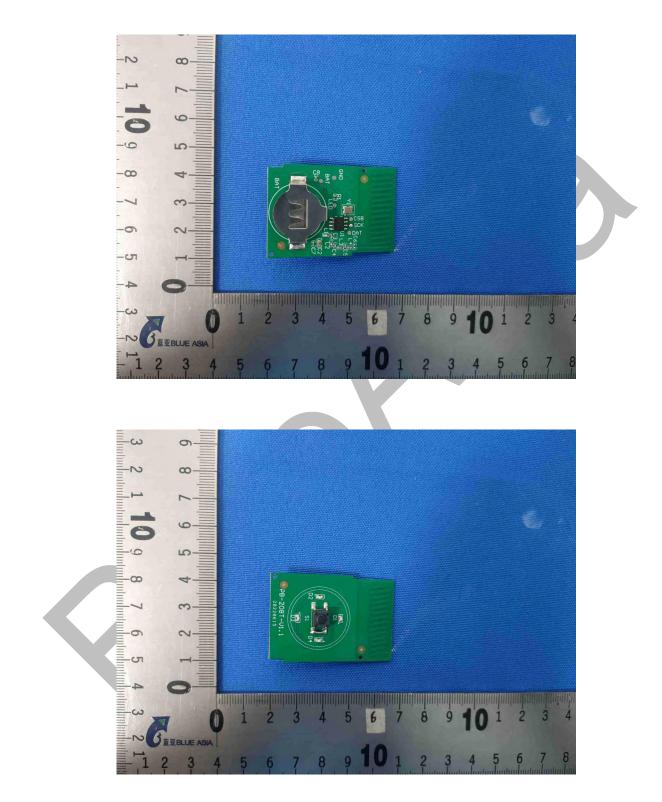














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----END OF REPORT----

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.

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