	<b>TEST REPO</b>	ORT		
FCC ID	2BKCFBFCT-X15			
Test Report No:	TCT240717E003	(Å	6	
Date of issue:	Jul, 25, 2024	<b>C</b>	)	
Testing laboratory: :	SHENZHEN TONGCE TE	STING LAB		
Testing location/ address:	2101 & 2201, Zhenchang Fuhai Subdistrict, Bao'an I 518103, People's Republic	District, Shenzl		
Applicant's name:	SHENZHEN BOFU MECH	IANIC & ELEC	TRONIC CO	., LTD
Address:	Building D, the 1st area of HePing community, Fuhai China	•		
Manufacturer's name :	SHENZHEN BOFU MECH	IANIC & ELEC	TRONIC CO	., LTD
Address:	Building D, the 1st area of HePing community, Fuhai China			
Standard(s):	FCC CFR Title 47 Part 15	Subpart C Sec	ction 15.231	No.
Product Name:	Transmitter			
Trade Mark :	N/A			
Model/Type reference :	BFCT-X15			
Rating(s):	Rechargeable Li-ion Batte	ry DC 3.7V	()	
Date of receipt of test item	Jul, 17, 2024	C		
Date (s) of performance of test:	Jul, 17, 2024 ~ Jul, 25, 20	24	Ś	
Tested by (+signature) :	Yannie ZHONG	Yanni	e Ziokecz	
Check by (+signature) :	Beryl ZHAO	Boyl	TOT	STING
Approved by (+signature):	Tomsin	Tom	5 1 m s s s s	

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# 

### **1. General Product Information**

### 1.1. EUT description

Product Name:	Transmitter		
Model/Type reference:	BFCT-X15		
Sample Number	TCT240717E003-0101		
Operation Frequency:	433.92MHz		
Modulation Technology:	FSK		
Antenna Type:	Spring Antenna		$(\mathbf{c})$
Antenna Gain:	0dBi		
Rating(s):	Rechargeable Li-ion Battery DC	3.7V	

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) I None.	ist						
						Page	3 of 36
Hotline: 400-6611-	140 Tel: 8	<u>6-755-27673</u>	<u>339 Fax: (</u>	<u>36-755-2767</u>	<u>3332 http:</u>	://www.tct-la	

Report No.: TCT240717E003



## 2. Test Result Summary

Requirement	CFR 47 Section	Result		
Antenna Requirement	§15.203	PASS		
Conduction Emission, 0.15MHz to 30MHz	§15.207	PASS		
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

Conditio	n	Conducted Em	nission	Radiated E	mission	
Tempera	ature:	22.7 °C		25.1 °C		
Humidity	y:	52 % RH	(O)	54 % RH	(O)	
Fest Mode:	:					
Operatio	on mode:		Keep the EUT vith modulatio		us transmitt	ing
continuousl Z) and cons nterconnec both horizor shown in Te	y working, inves sidered typical c ting cables, rota ntal and vertical	each emission w stigated all operat onfiguration to ob ating the turntable polarizations. Th e following pages	ting modes, ro otain worst po e, varying ante ne emissions v	tated about sition, manip enna height f	all 3 axis (> oulating from 1m to	4m in
test mode.	the construction ar	nd function in typical	operation, The E	UT was place	d on three dif	ferent po
		which was shown in				
Δ Δ	vie (					
	xxis gth(dBuV/m)	X 52.47	Y 55.3	(c)	Z 52.59	- C
		X	Y	(c)	Z	(Č
Field Stren	gth(dBuV/m)	X 52.47	Y 55.3	1	Z 52.59	- E
Field Stren	gth(dBuV/m)	X	Y 55.3	1	Z 52.59	Ê
Field Stren	gth(dBuV/m)	X 52.47	Y 55.3	1	Z 52.59	
Field Stren	gth(dBuV/m)	X 52.47	Y 55.3	1	Z 52.59	
Field Stren	gth(dBuV/m)	X 52.47	Y 55.3	1	Z 52.59	

### 3.2. Description of Support Units

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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	1	1		

**Note:** TPMS Service tool TBM0100 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.

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### 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
  - SHENZHEN TONGCE TESTING LAB
  - CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

### 4.2. Location

### SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, 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	± 1.08dB
3	Spurious emissions, conducted	± 2.94 dB
4	Occupied Bandwidth	± 0.25 KHz
5	All emissions, radiated(<1 GHz)	± 4.56 dB
6	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
7	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB
8	Temperature	± 0.1°C
9	Humidity	± 1.0%



### 5. Test Results and Measurement Data

### 5.1. Antenna Requirement

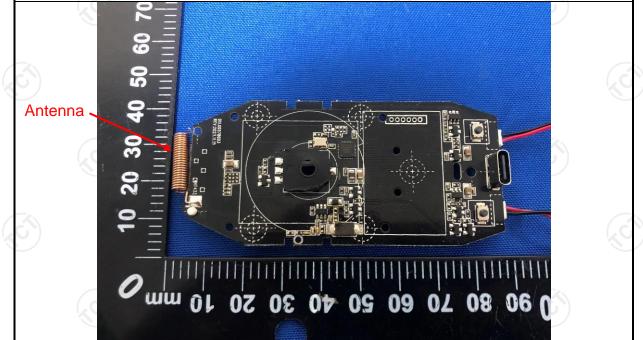
Standard requirement: FCC Part15 C Section 15.203

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 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.

### E.U.T Antenna:

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



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### 5.2. Conducted Emission

### 5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207 🕙						
Test Method:	ANSI C63.4:2014	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 ( Quasi-peak 66 to 56* 56 60	dBuV) Average 56 to 46* 46 50					
	Reference	201	601					
Test Setup:	40cm E.U.T AC pow Test table/Insulation plane Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization I Test table height=0.8m	EMI Receiver	r AC power					
Test Mode:	Charging + Transmitti	ng Mode						
Test Procedure:	<ol> <li>The E.U.T and simpower through a line (L.I.S.N.). This primpedance for their 2. The peripheral devi power through a L coupling impedance refer to the block photographs).</li> <li>Both sides of A.C conducted interfere emission, the relative for the block photograph and the second procession.</li> </ol>	ne impedance stat ovides a 500hm measuring equipm ces are also conne ISN that provides e with 500hm term diagram of the . line are checked ince. In order to fin ve positions of equ	bilization network h/50uH coupling ent. ected to the main s a 50ohm/50uH nination. (Please test setup and ed for maximum nd the maximum ipment and all o					
	ANSI C63.4: 2014	s must be chang on conducted mea						

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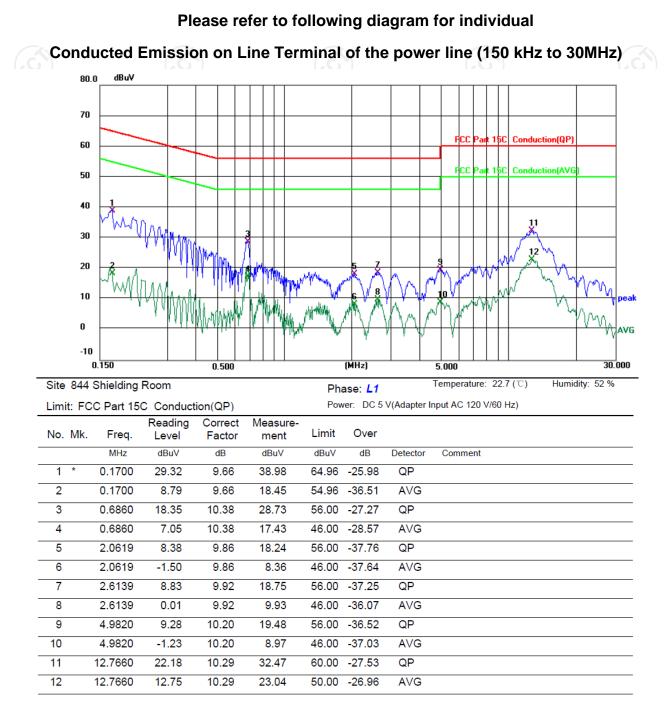
### 5.2.2. Test Instruments

Hotline: 400-6611-140

Tel: 86-755-27673339

Conducted Emission Shielding Room Test Site (843)										
Equipment	Manufacturer	Model	Serial Number	Calibration Due						
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025						
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025						
Attenuator	N/A	10dB	164080	Jun. 26, 2025						
Line-5	тст	CE-05	/	Jun. 26, 2025						
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	1						

### 5.2.1. Test data



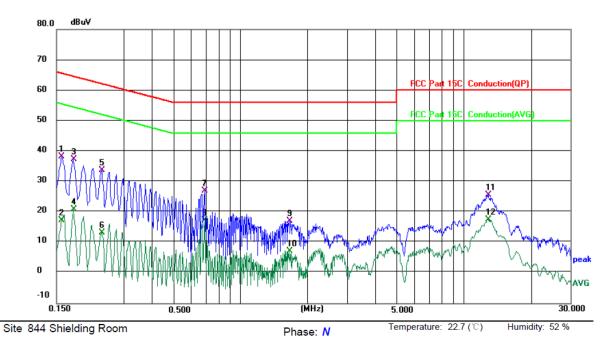
#### Note:

Freq. = Emission frequency in MHz Reading level  $(dB\mu V)$  = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement  $(dB\mu V)$  = Reading level  $(dB\mu V)$  + Corr. Factor (dB)Limit  $(dB\mu V)$  = Limit stated in standard Margin (dB) = Measurement  $(dB\mu V)$  – Limits  $(dB\mu V)$ 

Q.P. =Quasi-Peak

AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz



#### Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

Limit: FCC Part 15C Conduction(QP)						Power: DC 5 V(Adapter Input AC 120 V/60 Hz)			
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	28.58	9.65	38.23	65.57	-27.34	QP	
2		0.1580	7.64	9.65	17.29	55.57	-38.28	AVG	
3	*	0.1780	27.71	9.64	37.35	64.58	-27.23	QP	
4		0.1780	11.30	9.64	20.94	54.58	-33.64	AVG	
5		0.2380	24.04	9.63	33.67	62.17	-28.50	QP	
6		0.2380	3.74	9.63	13.37	52.17	-38.80	AVG	
7		0.6900	16.73	10.35	27.08	56.00	-28.92	QP	
8		0.6900	7.02	10.35	17.37	46.00	-28.63	AVG	
9		1.6580	7.30	9.76	17.06	56.00	-38.94	QP	
10		1.6580	-2.63	9.76	7.13	46.00	-38.87	AVG	
11		12.9100	15.42	10.27	25.69	60.00	-34.31	QP	
12		12.9100	7.37	10.27	17.64	50.00	-32.36	AVG	

#### Note:

Freq. = Emission frequency in MHz Reading level  $(dB\mu V)$  = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement  $(dB\mu V)$  = Reading level  $(dB\mu V)$  + Corr. Factor (dB)Limit  $(dB\mu V)$  = Limit stated in standard Margin (dB) = Measurement  $(dB\mu V)$  – Limits  $(dB\mu V)$ Q.P. =Quasi-Peak

AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

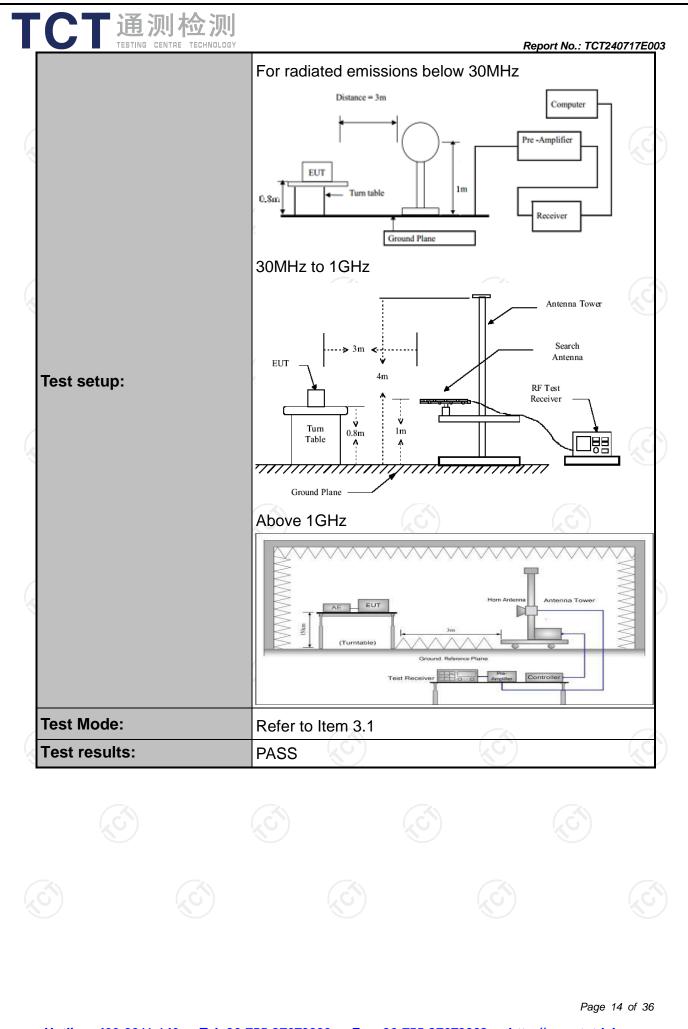
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### 5.3. Radiated Emission Measurement

### 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 C6	3.10:201	13
Frequency Range:	9 kHz to 5 G	Hz	Ĩ,		
Measurement Distance:	3 m	No.	<u>)</u>		<b>S</b>
Antenna Polarization:	Horizontal &	Vertical			
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz	Detector Quasi-peak Quasi-peak Quasi-peak	RBW 200Hz 9kHz 120KHz	VBW 1kHz 30kHz 300KHz	Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value
Test Procedure:	below 10 1GHz. T determine 2. The EU interferen on the top 3. The anten meters at value of vertical p the meas 4. For each s to its wor heights fr table was find the m 5. The test- Function Hold Mod 6. If the emi 10dB lowe be stopped reported. 0 10dB mar	GHz, 1.5m he table the position T was so ince-receiving the field olarizations urement. Suspected of the field olarizations the field olarizations urement. Suspected of the field olarizations the field olarizations the field olarizations the field olarizations the field olarizations the field olarizations the field olarizations the field olarizations the field olarizations the field the f	above was rot on of the et 3 m ig anteni ble-heigh is varied ound to o strength s of the a emission d then th er to 4 m om 0 deg eading. ystem w ified Ban of the B imit spec eak valu the emis be re-te average r	the gro tated 36 highest eters a na, which tantenr from on determin tantenna a , the EU e antenr ters ar grees to as set t ndwidth EUT in p cified, the es of the sions th sted one method a	way from th h was mounte



### 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
Horn Antenna	Schwarzbeck	BBHA 9120D
*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,  $\mu V/m$  at 3 meters = 56.81818(F) - 6136.3636;

for the band 260-470 MHz,  $\mu$ 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 undamental (dBµV	[ [/m]	Filed Strength of Spurious Emission(dBµV/m)		
3)	433.92		80.83		60.83	No.	
limits meas 2.Accor	tional radiators operating on the field strength of e sured emissions. rding to 15.35, on any fre	emissions, as a equency or freq	shown in the above tab	le, based on the a I to 1000 MHz, the	verage value of limits Shown a	f the re based	
band maxii 3. Acco on th avera	widths, unless otherwise mum permitted average rding to 15.231(b), The I e fundamental frequency age (or, alternatively, CIS	e specified the emission limit limits on the fie y of the intentio SPR quasi-pea	limit on peak radio freq applicable to the equip eld strength of the spuri onal radiator. Spurious k) limits shown in this ta	uency emissions i ment under test. ous emissions in t emissions shall be	s 20dB above t he above table attenuated to a	he is baseo the	
band maxii 3. Acco on th avera	widths, unless otherwise mum permitted average rding to 15.231(b), The l e fundamental frequency	e specified the emission limit limits on the fie y of the intentio SPR quasi-pea	limit on peak radio freq applicable to the equip eld strength of the spuri onal radiator. Spurious k) limits shown in this ta	uency emissions i ment under test. ous emissions in t emissions shall be	s 20dB above t he above table attenuated to a	he is basec the	

#### Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dBµV/m)
0.009-0.490	3	20log 2400/F (kHz) + 80
0.490-1.705	3	20log 24000/F (kHz) + 40
1.705-30	3	20log 30 + 40
30-88	3 (0)	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

#### 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)



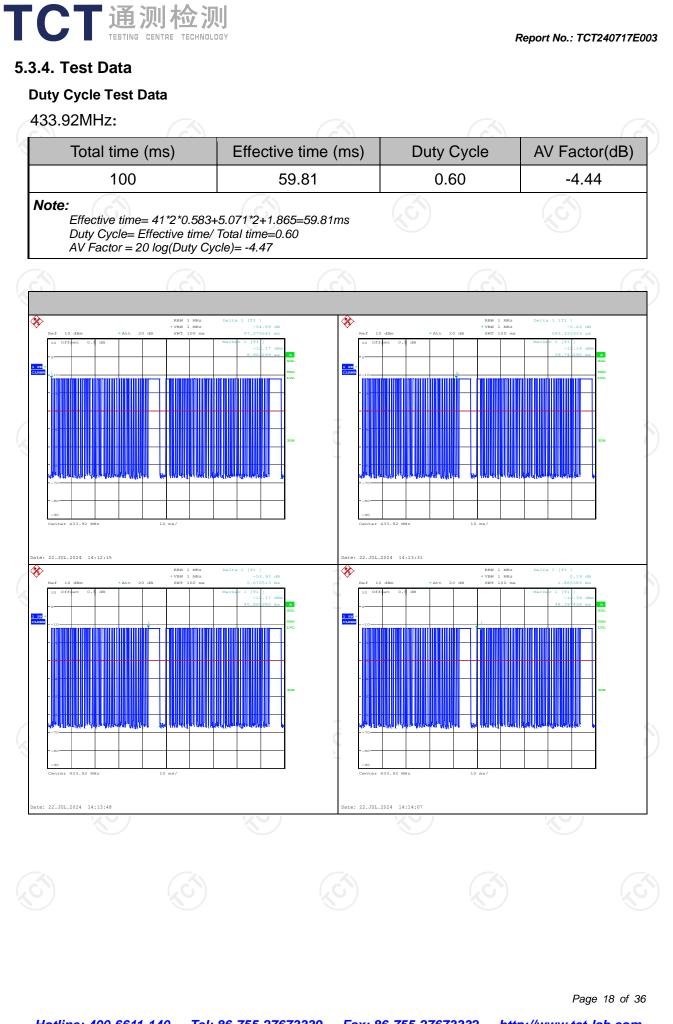
### 5.3.3. Test Instruments

Radiated Emission Test Site (966)							
Name of Equipment	Manufactur er	Model	Serial Number	Calibration Due			
EMI Test Receiver	R&S	ESCI7	100529	Jan. 31, 2025			
Spectrum Analyzer	R&S	FSQ40	<u>200061</u>	Jun. 26, 2025			
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025			
Pre-amplifier	SKET	LNPA_0118G-4 5	SK2021012102	Jan. 31, 2025			
Pre-amplifier	SKET	LNPA_1840G-5 0	SK20210920350 0	Jan. 31, 2025			
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025			
Broadband Antenna	Schwarzbec k	VULB9163	340	Jun. 28, 2025			
Horn Antenna	Schwarzbec k	BBHA 9120D	631	Jun. 28, 2025			
Horn Antenna	Schwarzbec k	BBHA 9170	00956	Feb. 02, 2025			
Coaxial cable	SKET	RE-03-D		Jun. 26, 2025			
Coaxial cable	SKET	RE-03-M	1	Jun. 26, 2025			
Coaxial cable	SKET	RE-03-L	KO	Jun. 26, 2025			
Coaxial cable	SKET	RE-04-D	/	Jun. 26, 2025			
Coaxial cable	SKET	RE-04-M	G 1	Jun. 26, 2025			
Coaxial cable	SKET	RE-04-L	1	Jun. 26, 2025			
Antenna Mast	Keleto	RE-AM	1	1			
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	1			

Rec.



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(MHz)	(dBuV/m)	/Vertical	(dBuV/m)	(dB)
433.92	77.11	Н	100.83	-23.72
433.92	77.80	V	100.83	-23.03

Frequency (MHz)	Emission PK (dBuV/m)	AV Factor(dB)	Horizontal /Vertical	Emission AVG (dBuV/m)	Limits AV (dBuV/m)	Margin (dB)
433.92	77.11	-4.44	ЮН	72.67	80.83	-8.16
433.92	77.80	-4.44	V	73.36	80.83	-7.47

### Harmonics and Spurious Emissions

### Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
$(\mathbf{C}) = (\mathbf{C})$	(ku )	
Note: 1 Emission Level-Reading C	able loss Antonno factor Amp factor	

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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Margin

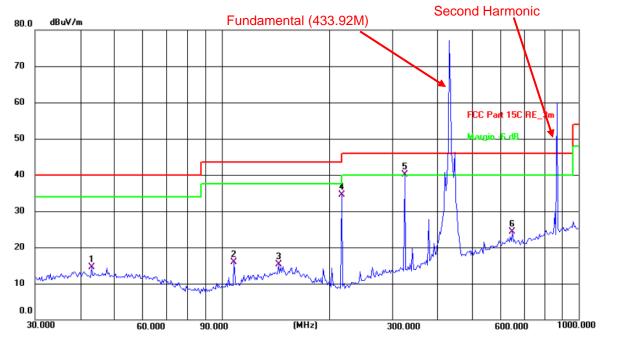
Limits PK



**Field Strength of Fundamental** 

### Below 1GHz

TCT通测检测 TECTIM CENTRE TECHNOLOGY



#### Site: 3m Anechoic Chamber1 Polarization: Horizontal Temperature: 25.1(C) Humidity: 54 %

Limit: FCC Part 15C RE\_3m

Power: DC 3.7V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	43.2014	26.65	-12.12	14.53	40.00	-25.47	QP	Р	
2	108.2664	30.65	-14.83	15.82	43.50	-27.68	QP	Р	
3	144.3343	27.23	-11.92	15.31	43.50	-28.19	QP	Р	
4	216.7828	49.44	-15.00	34.44	46.00	-11.56	QP	Р	
5 *	325.5957	50.35	-10.28	40.07	46.00	-5.93	QP	Ρ	
6	651.9415	28.27	-4.01	24.26	46.00	-21.74	QP	Р	







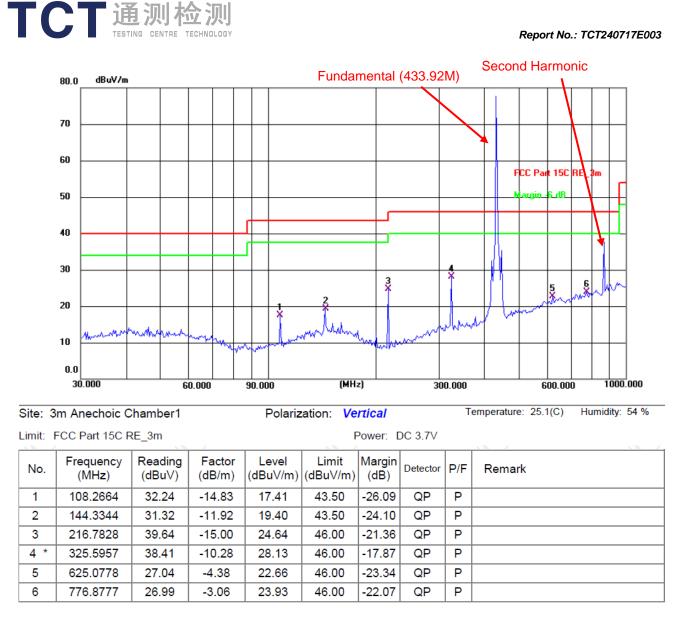




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**Note:** 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

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

Any value more than 10dB below limit have not been specifically reported

\* is meaning the worst frequency has been tested in the test frequency range second harmonic 3. The limit value of the fundamental frequency is 100.83dBuV/m.

The limit value of the Second Harmonic frequency is 60.83dBuV/m.

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#### Above 1GHz (PK value)

Frequency PK Value (MHz)	Read Level PK (dBuV)	Correction Factor (dB/m)	Level PK (dBuV/m)	Limit Line PK (dBuV/m)	Over Limit (dB)	Polarization
1301.76	62.37	-17.96	44.41	80.83	-36.42	Vertical
1735.68	47.76	-17.65	30.11	80.83	-50.72	Vertical
2169.60	56.62	-17.20	39.42	80.83	-41.41	Vertical
2603.52	51.09	-16.30	34.79	80.83	-46.04	Vertical
3037.44	55.42	-14.88	40.54	80.83	-40.29	Vertical
3471.36	55.10	-13.63	41.47	80.83	-39.36	Vertical
3905.28	55.31	-11.82	43.49	80.83	-37.34	Vertical
4339.20	51.39	-10.61	40.78	80.83	-40.05	Vertical
1301.76	67.95	-17.96	49.99	80.83	-30.84	Horizontal
1735.68	58.13	-17.65	40.48	80.83	-40.35	Horizontal
2169.60	61.92	-17.20	44.72	80.83	-36.11	Horizontal
2603.52	53.67	-16.30	37.37	80.83	-43.46	Horizontal
3037.44	62.27	-14.88	47.39	80.83	-33.44	Horizontal
3471.36	64.02	-13.63	50.39	80.83	-30.44	Horizontal
3905.28	63.68	-11.82	51.86	80.83	-28.97	Horizontal
4339.20	59.47	-10.61	48.86	80.83	-31.97	Horizontal

#### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

2. Margin (dB) = Emission Level (dB $\mu$ V/m)- limit (dB $\mu$ V/m)

3. Measurements were conducted in all mode, and the worst case Mode (TM4) was submitted only.

4. The emission levels of other frequencies are very lower than the limit and not show in test report.

5. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

6. 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.

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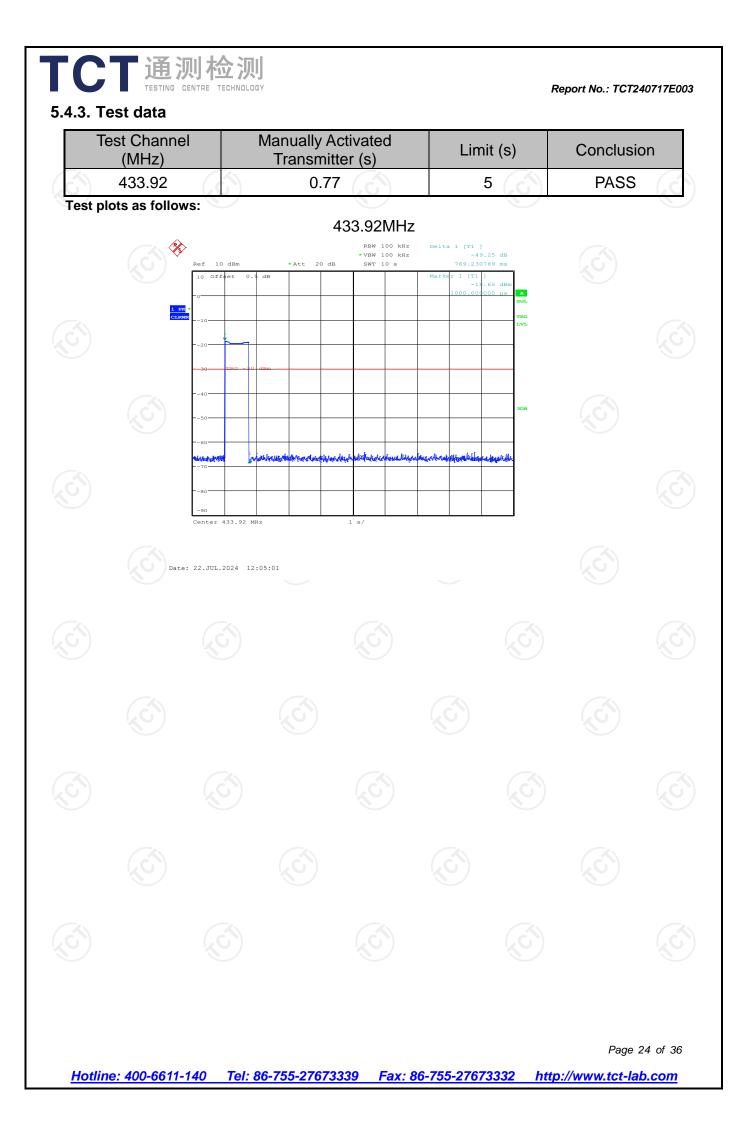
### 5.4. Manually Activated Transmitter

### 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 deactivat the transmitter within not more than 5 seconds of bein released.			
Test Procedure:	<ol> <li>According to the follow Test-s position between the artificial</li> <li>Set to the maximum power s EUT transmit continuously.</li> <li>Use the following spectrum an RBW = 100KHz, VBW≥RBW; Span = 0; Sweep Time &gt; T(or Detector function = peak;</li> <li>Measure and record the results</li> </ol>	antenna and the EUT. setting and enable the alyzer settings. n)+5S;		
Test setup:	Spectrum Analyzer	EUT		
Test Mode:	Refer to Item 3.1			
Test results:	PASS			

### 5.4.2. Test Instruments

	RF Test Room						
	Equipment	Manufacturer	Model	Serial Number	Calibration Due		
3	Spectrum Analyzer	R&S	FSU	200054	Jun. 26, 2025		



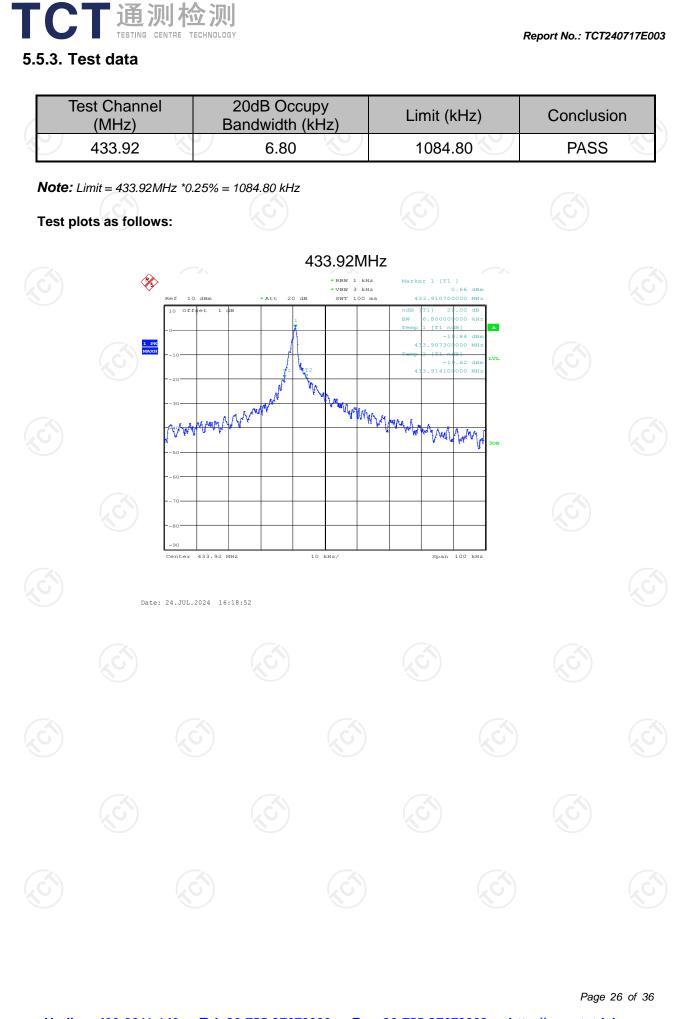
### 5.5. Occupied Bandwidth

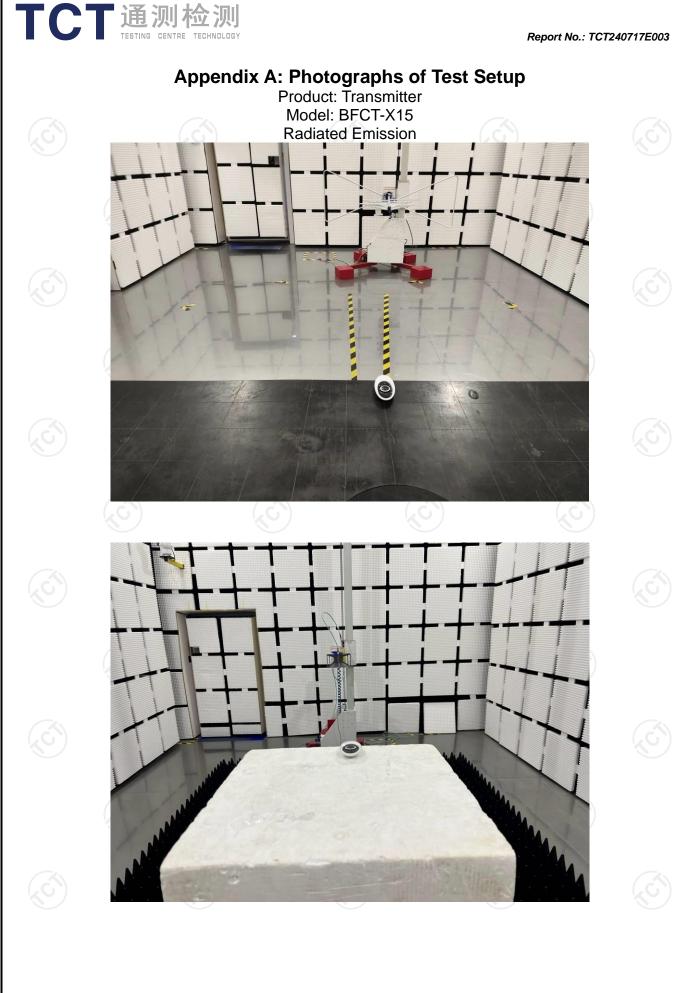
### 5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231C	6			
Test Method:	<ul> <li>ANSI C63.10: 2013</li> <li>According to 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the centre frequency fo 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.</li> <li>1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. Use the following spectrum analyzer settings fo 20dB Bandwidth measurement. Span = 100KHz, centered on a hopping channel RBW = 1KHz; VBW = 3KHz; Sweep = auto; Detecto function = peak; Trace = max hold.</li> <li>4. Measure and record the results in the test report.</li> </ul>				
Limit:					
Test Procedure:					
Test setup:	Spectrum Analyzer EUT	6			
Test Mode:	Refer to Item 3.1				
Test results:	PASS				

### 5.5.2. Test Instruments

S	RF Test Room						
	Equipment	Manufacturer	Model	Serial Number	Calibration Due		
	Spectrum Analyzer	R&S	FSU	200054	Jun. 26, 2025		





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