

TEST REPORT

FCC ID: 2ANX5TIBE

Product: Bluetooth Tracker Model No.: Tibe connect

Additional Model No.: N/A

Trade Mark: N/A

Report No.: TCT171018E015 Issued Date: Oct. 27, 2017

Issued for:

TICATAG
4 rue Louis de Broglie LANNION FRANCE

Issued By:

Shenzhen Tongce Testing Lab.

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1. Test Certification

Report No.: TCT171018E015

Product:	Bluetooth Tracker
Model No.:	Tibe connect
Additional Model No.:	N/A
Trade Mark:	N/A
Applicant/ Manufacturer:	TICATAG
Address:	4 rue Louis de Broglie LANNION FRANCE
Factory:	Shenzhen Huagon Technology Co., Ltd.
Address:	Room 1704, Block C, Nanxian Business Square, Nanyuan New Village, Minzhi St., Longhua New District, Shenzhen, Guangdong, China
Factory:	Shenzhen Huagon Technology Co., Ltd.
Address:	Room 1704, Block C, Nanxian Business Square, Nanyuan New Village, Minzhi St., Longhua New District, Shenzhen, Guangdong, China
Date of Test:	Oct. 11 - 18, 2017
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Date: Oct. 18, 2017

Brews Xu

Reviewed By: Date: Oct. 27, 2017

Approved By: Date: Oct. 27, 2017

Tomsin



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	N/A
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	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.





3. EUT Description

Product:	Bluetooth Tracker	
Model No.:	Tibe connect	
Additional Model No.:	N/A	
Trade Mark:	N/A	
Hardware Version:	YJ-16006-YUNJIAKE JI	
Software Version:	2.1.5	
Operation Frequency:	2402MHz~2480MHz	
Channel Separation:	2MHz	
BT Version:	V4.0	
Number of Channel:	40	
Modulation Technology:	GFSK	
Antenna Type:	PCB antenna	
Antenna Gain:	2.0dBi (declaration by manufacturer)	
Power Supply:	1* DC 3.0V CR2032 battery	

Operation Frequency each of channel

Operation requeitly each or chainler							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
	(O')		(0)				(C)
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark: Channel 0, 19 & 39 have been tested.							



4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.

The sample was placed (0.1m 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 are shown in Test Results of the following pages.

4.2. 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	1		1	

Note:

- 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.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber 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

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. 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
9	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

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6. Test Results and Measurement Data

6.1. Antenna requirement

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

15.203 requirement:

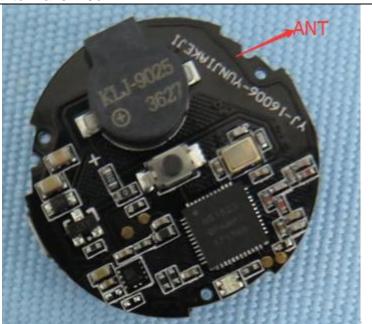
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 Bluetooth antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 2.0dBi.





6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207	ΚĆ		
Test Method:					
	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	(0)	(C)		
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto			
Limits:	Frequency range (MHz) 0.15-0.5	Quasi-peak 66 to 56*	Average 56 to 46*		
	0.5-5 5-30	56 60	46 50		
	(201)	nce Plane			
Test Setup:	Test table/Insulation plan Remark: E.U.T: Equipment Under Test LISN Line Impedence Stabilization Test table height=0.8m	EMI Receiver	Iter — AC power		
Test Mode:	Charging + Transmitting Mode				
Test Procedure:	 The E.U.T is conne impedance stabilize provides a 500hm/5 measuring equipment. The peripheral device power through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferer emission, the relative the interface cables ANSI C63.10: 2013 	cation network 50uH coupling im nt. ces are also connects are also connects with 50ohm terror diagram of the line are checked in order to five positions of equals must be changed.	(L.I.S.N.). This appedance for the ected to the main a 500hm/50uH mination. (Please test setup and ed for maximum and the maximum sipment and all of ged according to		
Test Result:	N/A				



6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074
Limit:	30dBm
Test Setup:	
	Power meter EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the Peak output power and record the results in the test report.
Test Result:	PASS

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Power Meter	Anritsu	ML2495A	1005002	Sep. 27, 2018
Pulse Power Senor	Anritsu	MA2411B	0917070	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018

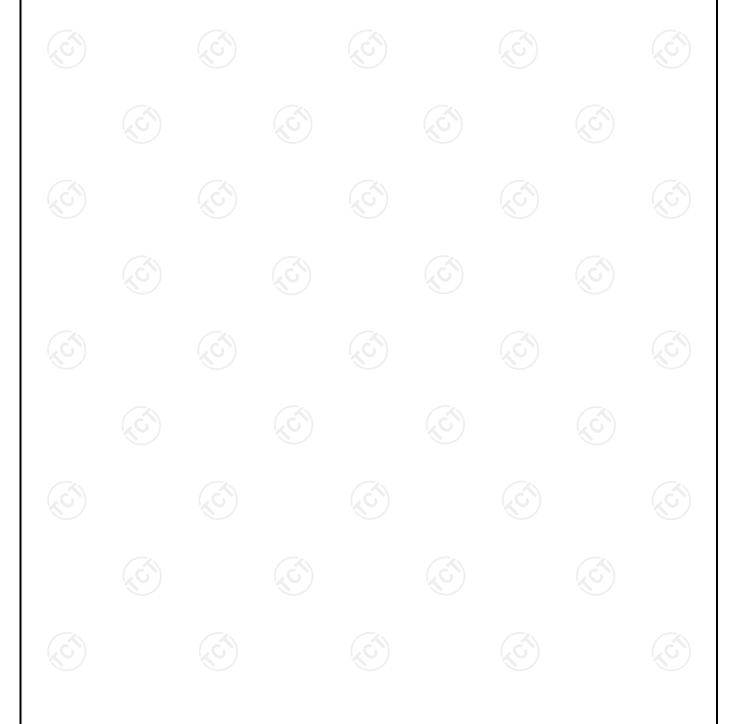
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.3.3. Test Data

BT LE mode			
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
Lowest	-3.93	30.00	PASS
Middle	-3.76	30.00	PASS
Highest	-3.66	30.00	PASS





6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

RF Test Room									
Equipment	Manufacturer	Model	Serial Number Calibration						
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018					
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018					
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018					

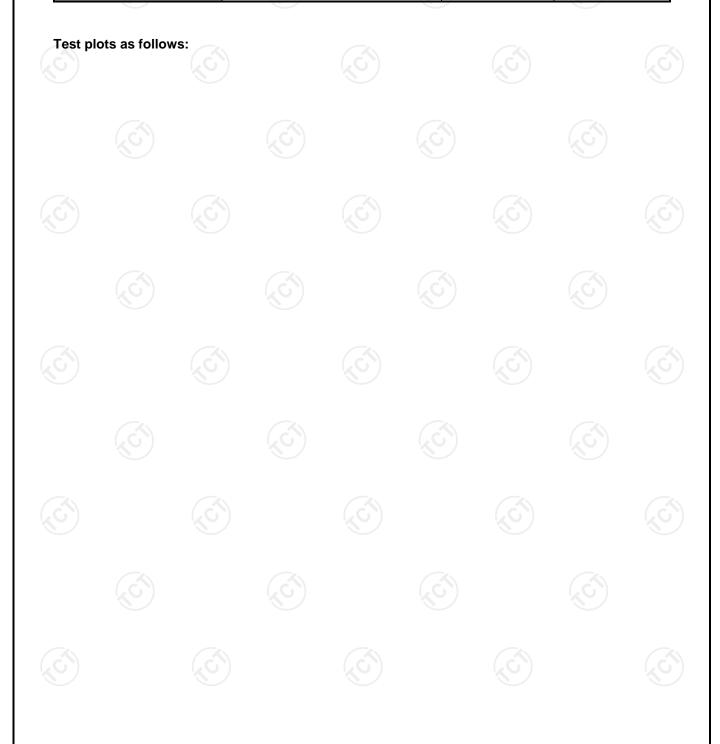
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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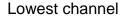
6.4.3. Test data

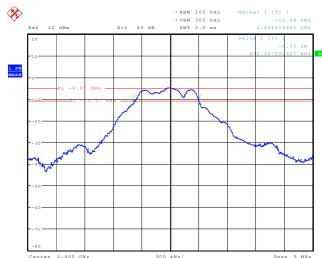
Test channel	6dB Emission I	Bandwidth (kHz)	
rest channel	BT LE mode	Limit	Result
Lowest	0.692	>500k	0
Middle	0.712	>500k	PASS
Highest	0.707	>500k	



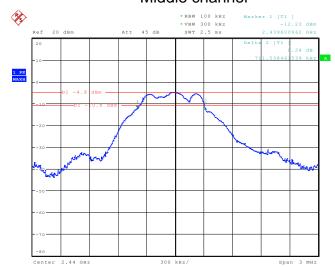


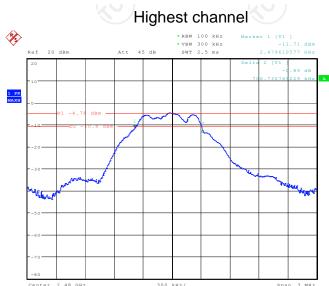
BT LE mode





Middle channel







6.5. Power Spectral Density

6.6. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	Spectrum Anatomy FUT
	Spectrum Analyzer
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS

6.6.1. Test Instruments

RF Test Room									
Equipment	Manufacturer	Model	Serial Number	Calibration Due					
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018					
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018					
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018					

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



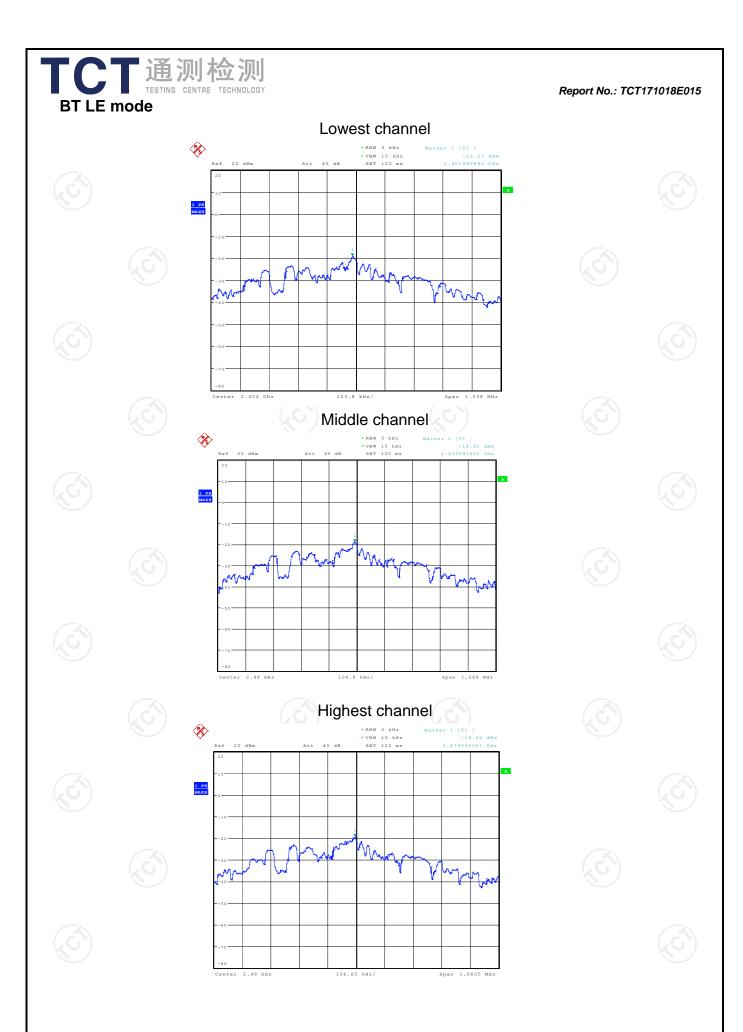
6.6.2. Test data

Report No.: TCT171018E015

Toot channel	Power Spectral Density (dBm/3kHz)						
Test channel	BT LE mode	Limit	Result				
Lowest	-19.23	8 dBm/3kHz	80				
Middle	-18.91	8 dBm/3kHz	PASS				
Highest	-19.32	8 dBm/3kHz	(3)				

Test plots as follows:









6.7. Conducted Band Edge and Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	KDB558074					
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Refer to item 4.1					
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 					
Test Result:	PASS					

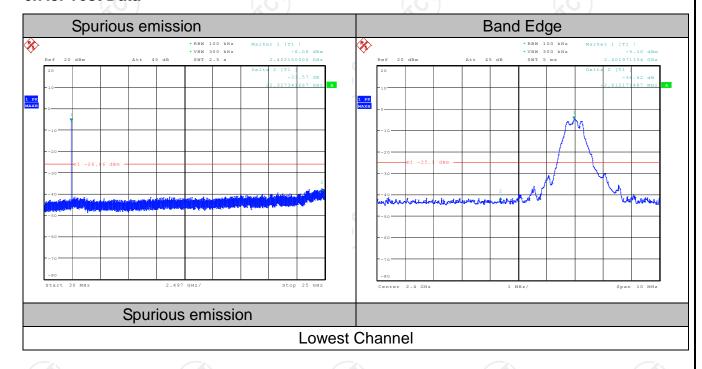


6.7.2. Test Instruments

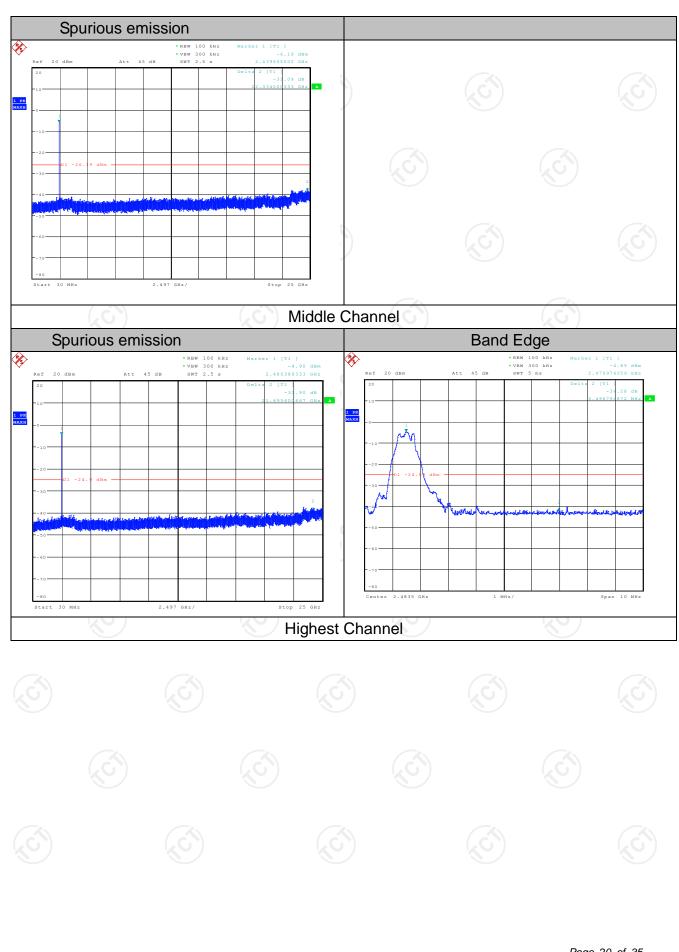
	RI	Test Room	1		
Equipment	Manufacturer	Model	Serial Number Calibration		
Spectrum Analyzer	nalyzer R&S FSU		200054	Sep. 27, 2018	
Spectrum Analyzer	ROHDE&SCH WARZ	RZ FSQ 200061		Sep. 27, 2018	
RF cable (9kHz-26.5GHz)	тст			Sep. 27, 2018	
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018	

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.7.3. Test Data











6.8. Radiated Spurious Emission Measurement

6.8.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10	0: 2013							
Frequency Range:	9 kHz to 25 (GHz							
Measurement Distance:	3 m	(6)		1/6)		
Antenna Polarization:	Horizontal &	Vertical							
Operation mode:	Refer to item	1 4.1			C		ĆĆ		
	Frequency 9kHz- 150kHz 150kHz-	Detecto Quasi-pe	ak 200Hz		VBW 1kHz 30kHz	Quas	Remark si-peak Value si-peak Value		
Receiver Setup:	30MHz 30MHz-1GHz Above 1GHz	Quasi-peak	ak	100KHz 1MHz	300KHz 3MHz		si-peak Value eak Value		
	Above TGHZ	Peak		1MHz	10Hz	Ave	erage Value		
	Frequency			Field Strength (microvolts/meter)		Measurement Distance (meters)			
	0.009-0.490			2400/F(KHz)		300			
	0.490-1.705			24000/F(KHz)		30			
	1.705-30 30-88			30 100			30		
	88-216		150			3			
Limit:	216-960			200			3		
	Above 9		500			3			
	(,G)			((0))			KC		
			Field Strength microvolts/meter)		Measuremen Distance (meters)		Detector		
	Above 1GH	z	500		3	-(c	Average		
		For radiated emissions below 30MHz					Peak		
	Distance = 3m								
	Computer Pre -Amplifier								
Test setup:	EUT	EUT Turn table Receiver							
			Grou	nd Plane		L			
	30MHz to 10	30MHz to 1GHz							

「通测检测 Report No.: TCT171018E015 Antenna Tower Search Antenna EUT 4m RF Test Receiver Turn 0.8mAbove 1GHz 1. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: **Test Procedure:** Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for

maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission

and staying aimed at the emission source for receiving the maximum signal. The final

detector and reported.
4. Use the following spectrum analyzer settings:
(1) Span shall wide enough to fully capture the
emission being measured;
(2) Set RBW=100 kHz for f < 1 GHz; VBW RBW;
Sweep = auto; Detector function = peak; Trace =
max hold;
(3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz
for peak measurement.
For average measurement: VBW = 10 Hz, when
duty cycle is no less than 98 percent. VBW \geq 1/T,
when duty cycle is less than 98 percent where T is
the minimum transmission duration over which the
transmitter is on and is transmitting at its maximum
power control level for the tested mode of operation.
Refer to section 4.1 for details



Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

PASS

Test mode:

Test results:





6.8.2. Test Instruments

Radiated Emission Test Site (966) Name of Serial								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018				
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018				
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018				
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018				
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018				
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018				
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018				
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018				
Antenna Mast	Keleto	CC-A-4M	N/A	N/A				
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018				
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018				
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018				
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018				
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



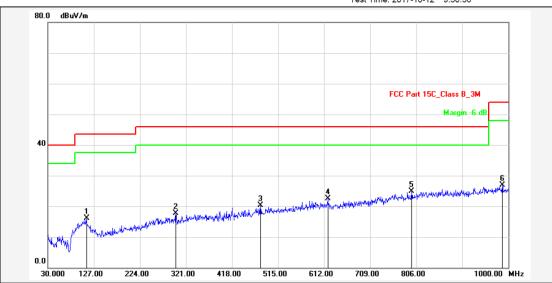
6.8.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:

Test Time: 2017-10-12 9:30:36

Report No.: TCT171018E015



Report No.: Tibe connect

Test Standard: FCC Part 15C_Class B_3M

Test item: Radiation Emission
Applicant: TICATAG SAS

Product: Buletooth tracker
Model No.: Tibe connect

Test Mode: TX
Remark: High Channel

Test Distance: 3m

Ant. Polarization: Horizontal
Temp.(C)/Hum.(%): 24(C) / 47 %

Power Rating: DC 3.0V

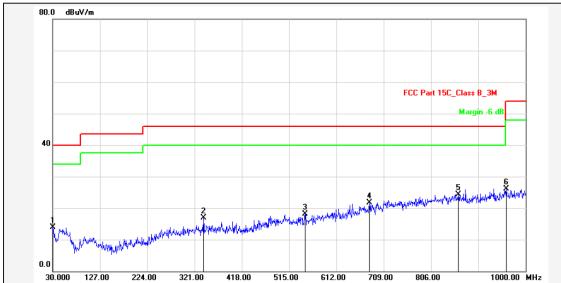
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	111.4800	-12.41	28.57	16.16	43.50	-27.34	QP			Р	
2	299.6600	-10.47	28.17	17.70	46.00	-28.30	QP			Р	
3	478.1400	-7.25	27.57	20.32	46.00	-25.68	QP			Р	
4	619.7600	-5.05	27.46	22.41	46.00	-23.59	QP			Р	
5	796.3000	-2.00	26.91	24.91	46.00	-21.09	QP			Р	
6	987.3900	-0.27	27.19	26.92	54.00	-27.08	QP			Р	

Note: Level=Reading+Factor.

Margin=Limit-Level.



Test Time: 2017-10-12 9:39:01



Report No.: Tibe connect

Test Standard: FCC Part 15C_Class B_3M

Test item: Radiation Emission
Applicant: TICATAG SAS

Product: Buletooth tracker

Model No.: Tibe connect

Test Mode: TX

Remark: High Channel

MANAN	MATTER VIEW						
				_			
00	709.00 806.	00		1000.	00	MHz	
	Test Distance:	3m					
	Ant. Polarization:	Ve	ertical				
	Temp.(C)/Hum.(%)	:	24(C)	47 %			
	Power Rating:	DC 3.0	V				

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.9700	-15.83	29.78	13.95	40.00	-26.05	QP			Р	
2	339.4300	-11.31	28.18	16.87	46.00	-29.13	QP			Р	
3	547.9800	-8.57	26.69	18.12	46.00	-27.88	QP			Р	
4	679.9000	-4.36	26.12	21.76	46.00	-24.24	QP			Р	
5	862.2600	-1.11	25.47	24.36	46.00	-21.64	QP			Р	
6	960.2300	-0.23	26.34	26.11	54.00	-27.89	QP			J	

Note: Level=Reading+Factor.

Margin=Limit-Level.

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. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (high channel) was submitted only.

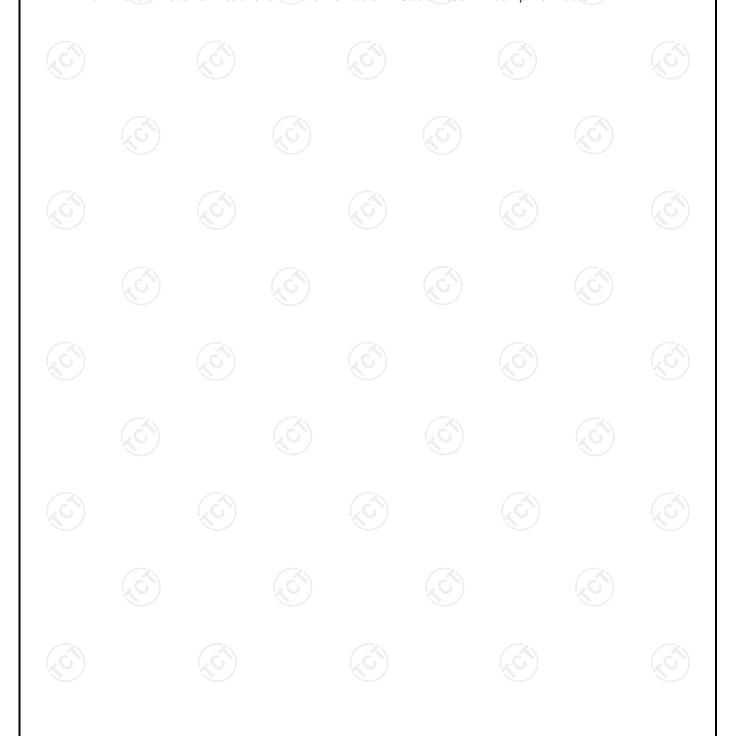


Band Edge

Freq.	Ant.Po I.	Reading Level(dBuV)		Factor	Emission Level (dBuV)		Limit 3m (dBuV/m)		Margin (dB)	
(MHz)	(H/V)	PK	AV	(dB/m)	PK	AV	PK	AV	PK	AV
2390.00	Н	46.66	31.98	0.13	46.79	32.11	74.00	54.00	-27.21	-21.89
2390.00	V	48.40	33.92	0.13	48.53	34.05	74.00	54.00	-25.47	-19.95
2483.50	Н	46.69	32.81	0.35	47.04	33.16	74.00	54.00	-26.96	-20.84
2483.50	V	48.27	33.92	0.35	48.62	34.27	74.00	54.00	-25.38	-19.73

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor





■ Above 1GHz

Freq.	Ant.Po	Reading Level(dBuV)		Factor	Emission Level (dBuV)		Limit 3m (dBuV/m)		Margin (dB)	
(MHz)	(H/V)	PK	AV	(dB/m)	PK	AV	PK	AV	PK	AV
Operation Mode: TX Mode (Low)										
4804	V	54.54	39.03	6.30	60.84	45.33	74.00	54.00	-13.16	-8.67
7206	V	46.79	32.75	10.44	57.23	43.19	74.00	54.00	-16.77	-10.81
4804	Н	53.28	38.38	6.30	59.58	44.68	74.00	54.00	-14.42	-9.32
7206	Н	46.43	31.79	10.44	56.87	42.23	74.00	74.00 54.00		-11.77
<u></u>										
				Operation	n Mode: TX	Mode (Mic	d)			
4880	V	54.65	39.21	6.60	61.25	45.81	74.00	54.00	-12.75	-8.19
7320	V	46.95	32.94	10.55	57.50	43.49	74.00	54.00	-16.50	-10.51
4880	Н	54.07	38.52	6.60.	60.67	45.12	74.00	54.00	-13.33	-8.88
7320	Н	47.40	32.54	10.55	57.95	43.09	74.00	54.00	-16.05	-10.91
							1			
				Operation	n Mode: TX	Mode (Hig	h)			
4960	V	55.08	39.12	6.89	61.97	46.01	74.00	54.00	-12.03	-7.99
7440	V	47.09	32.97	10.60	57.69	43.57	74.00	54.00	-16.31	-10.43
			· ·							
4960	Н	54.43	39.07	6.89	61.32	45.96	74.00	54.00	-12.68	-8.04
7440	Н	47.05	33.44	10.60	58.10	44.04	74.00	54.00	-15.90	-9.96
$(C_{C_{1}})$		(_K C			(C)		(20			(C))

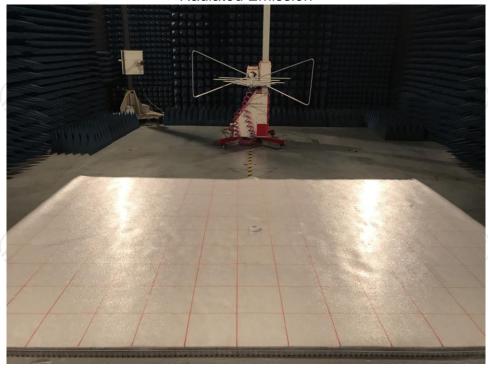
Note:

- 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. 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.



Appendix A: Photographs of Test Setup Product: Bluetooth Tracker

Product: Bluetooth Tracker Model: Tibe connect Radiated Emission

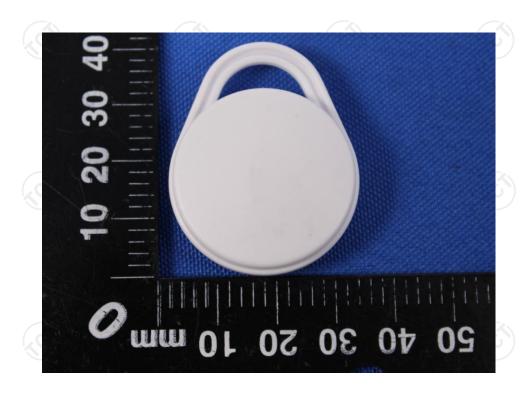




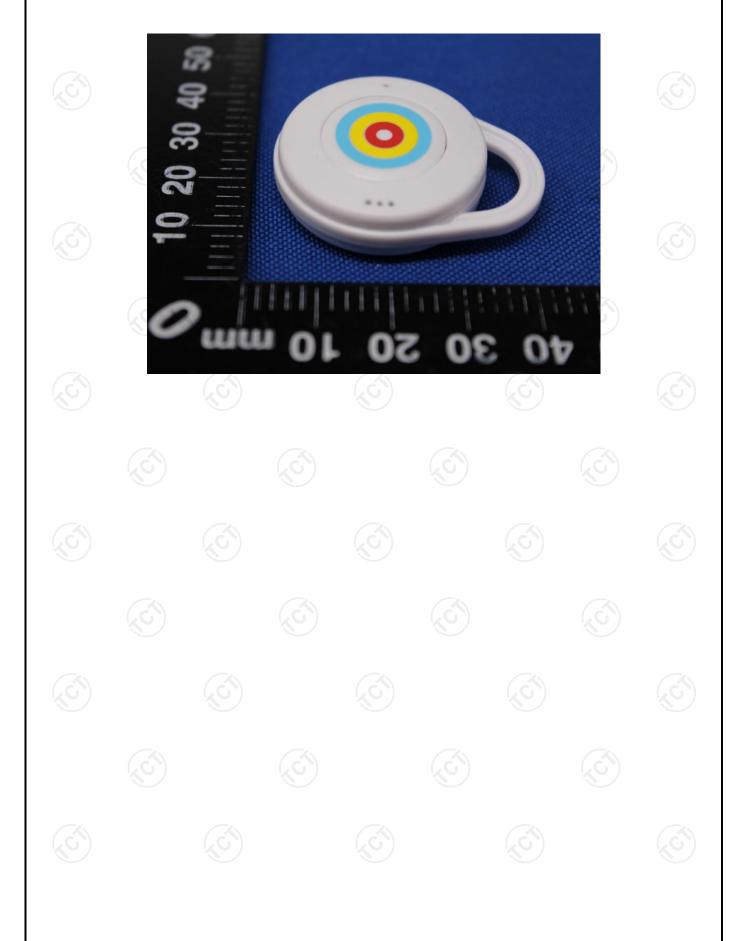


Appendix B: Photographs of EUT Product: Bluetooth Tracker Model: Tibe connect External Photos



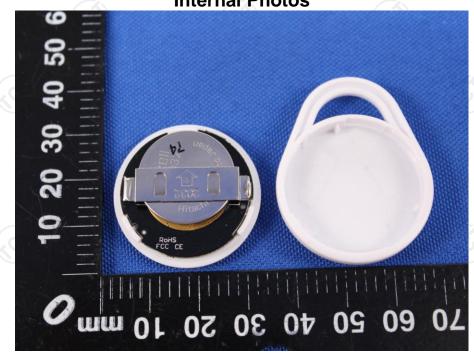


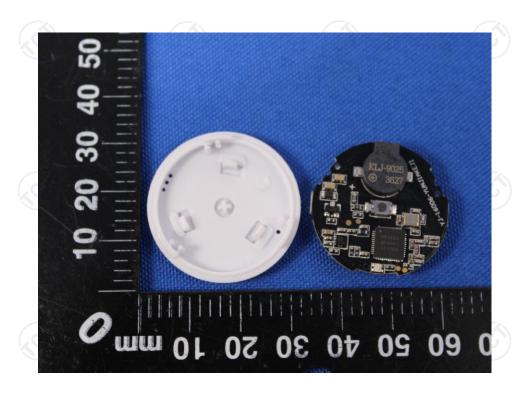




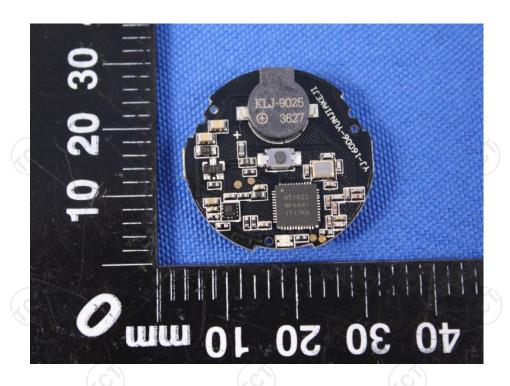


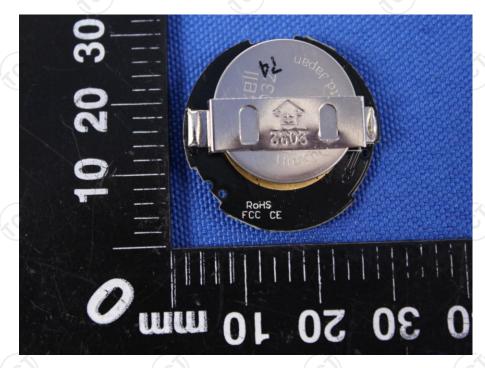
Product: Bluetooth Tracker Model: Tibe connect Internal Photos





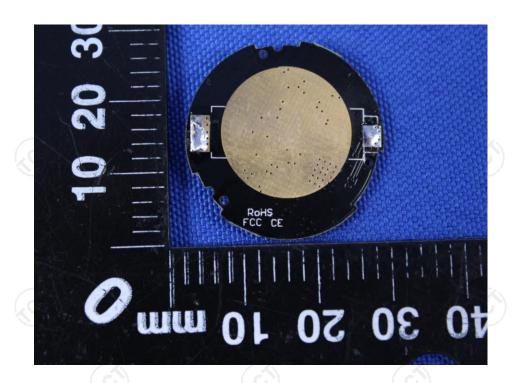
TCT通测检测 TESTING CENTRE TECHNOLOGY





TCT通测检测

Report No.: TCT171018E015









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









