

FCC RADIO TEST REPORT FCC ID: 2AEBMCHASE

Product Name:	Bluetooth Smart Wristband
Trademark:	wearme
Model Name :	Chase I Chase 1, Chase 2, Chase 3, Chase 4, Chase 5, Chase HR, Chase I, Chase II, Chase IV, Chase V, Beyonder 1, Beyonder 2, Beyonder 3, Beyonder 4, Beyonder 5, Beyonder HR, Beyonder I, Beyonder III, Beyonder IV, Beyonder V
Prepared For :	Shenzhen Wearme Technology Co.,Ltd
Address :	4/F,10# Building Changxing Industry Zone Baoan, Shenzhen, China
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Test Date:	Mar. 01 - Mar. 10, 2015
Date of Report :	Mar. 10, 2015
Report No.:	BCTC-150100989



TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen Wearme Technology Co.,Ltd		
Address:	4/F,10# Building Changxing Industry Zone Baoan, Shenzhen, China		
Manufacture's Name:	Shenzhen Wearme Technology Co.,Ltd		
Address:	4/F,10# Building Changxing Industry Zone Baoan, Shenzhen, China		
Product description			
Product name:	Bluetooth Smart Wristband		
Model and/or type reference :	Chase I		
Trade Name	wearme		
Standards:	FCC Part15.247		
Test procedure	. ANSI C63.4-2003		
	as been tested by BCTC, and the test results show that the n compliance with the FCC requirements. And it is applicable only n the report.		
document may be altered or revithe document.	ced except in full, without the written approval of BCTC, this vised by BCTC, personal only, and shall be noted in the revision of		
Date of Test			
Test Result	Pass		
Testing Engineer	Evic Yang		
	(Eric Yang)		
Technical Manager	Sophie lu		
	(Sophia Lee)		
Authorized Signatory	Casey Wang this		
	(Casey Wang)		



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247(a)(1)	Hopping Channel Separation	PASS		
15.247(b)(1)	Peak Output Power	PASS		
15.247(c)	Radiated Spurious Emission	PASS		
15.247(a)(iii)	Number of Hopping Frequency	PASS		
15.247(a)(iii)	Dwell Time	PASS		
15.247(a)(1)	Bandwidth	PASS		
15.205	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		



1.1 TEST FACILITY

Shenzhen BCTC Technology Co., Ltd.

Add.: No.101, Yousong Road, Longhua New District, Shenzhen, China

FCC Registered No.: 187086

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, 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(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Bluetooth Smart Wristband		
Trade Name	wearme		
Model Name	Chase I		
Serial Model	Chase 1, Chase 2, Cha	se 3, Chase 4, Chase 5, Chase HR,	
	Chase I, Chase II, Chas	se IV, Chase V, Beyonder 1,	
	Beyonder 2, Beyonder 3	3, Beyonder 4, Beyonder 5,	
	Beyonder HR, Beyonde	r I, Beyonder II, Beyonder III,	
	Beyonder IV, Beyonder	V.	
Model Difference	All the same,Only mode	el name is different	
	The EUT is a Bluetooth		
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	BT(1Mbps): GFSK	
		BT EDR(2Mbps):⊓/4-DQPSK	
		BT EDR(3Mbps): 8-DPSK	
	Bit Rate of Transmitter	1Mbps/2Mbps/3Mbps	
	Number Of Channel	79 CH	
Product Description	Antenna Designation:	Please see Note 3.	
	Output	BT(1Mbps): 0.736dBm	
	Power(Conducted):	BT EDR(2Mbps): -0.216dBm	
		BT EDR(3Mbps): -0.929dBm	
	Based on the application, features, or specification exhibited		
	in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical		
		fer to the User's Manual.	
Channel List	Please refer to the Note 2.		
Adapter	N/A		
Battery	DC 3.7V		
Connecting I/O Port(s)	Please refer to the User's Manual		



Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	PCB Antenna	NA	3.0	BT Antenna



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78
Mode 4	BT Link Mode

For Conducted Emission			
Final Test Mode	Description		
Mode 4	BT Link Mode		

For Radiated Emission			
Final Test Mode	Description		
Mode 1	CH00		
Mode 2	CH39		
Mode 3	CH78		

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The data rate was set in 1Mbps for radiated emission due to the highest RF output power.

2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Test program: BC5				
Frequency	2402 MHz	2441 MHz	2480 MHz		
Parameters(1Mbps)	DEF	DEF	DEF		
Parameters(2Mbps)	DEF	DEF	DEF		
Parameters(3Mbps)	DEF	DEF	DEF		

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Report No.: BCTC-150100989



2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test

E-1 EUT

FCC Report

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2.5 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/Brand	Model/Type No.	Series No.	Note
E-1	Bluetooth Smart Wristband	N/A	Chase I	N/A	EUT
E-2	Notebook	N/A	X550C		
E-3	Adapter	N/A	AD887520		

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	0.5M	
C2	NO	NO	1.5M	

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 <code>"Length_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Naui	ation rest equip						
Item	_ Kind of	Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibration
	Equipment				calibration	until	period
1	Spectrum Analyzer	Agilent	E4407B	MY4510957 2	2014.08.25	2015.08.24	1 year
2	Test Receiver	R&S	ESPI	101396	2014.08.25	2015.08.24	1 year
3	Bilog Antenna	SCHWARZB ECK	VULB9160	VULB9160- 3369	2014.08.25	2015.08.24	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2014.06.07	2015.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.07	2015.06.06	1 year
6	Horn Antenna	SCHWARZB ECK	9120D	9120D-1275	2014.08.25	2015.08.24	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	SCHWARZBE CK	BBV9718	9718-270	2014.08.25	2015.08.24	1 year
9	Amplifier	SCHWARZBE CK	BBV9743	9743-119	2014.08.25	2015.08.24	1 year
10	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year
11	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
12	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year
13	RF cables	R&S	N/A	N/A	2014.07.06	2015.07.05	1 year

Conduction Test equipment

Item		Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibration
	Equipment				calibration	until	period
1	Test Receiver	R&S	ESCI	101421	2014.08.25	2015.08.24	1 year
2	LISN	SCHWARZB ECK	NSLK8127	812779	2014.08.25	2015.08.24	1 year
3	LISN	EMCO	Feb-16	42990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2014.06.07	2015.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.07	2015.06.06	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Class A (dBuV)		Class B	Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	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



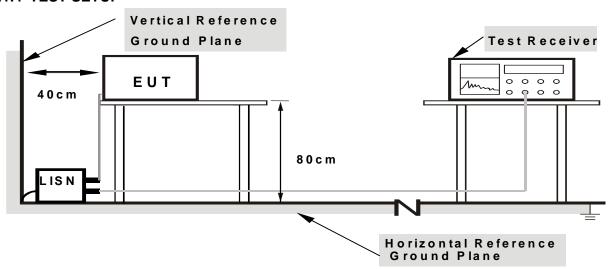
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 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.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 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.



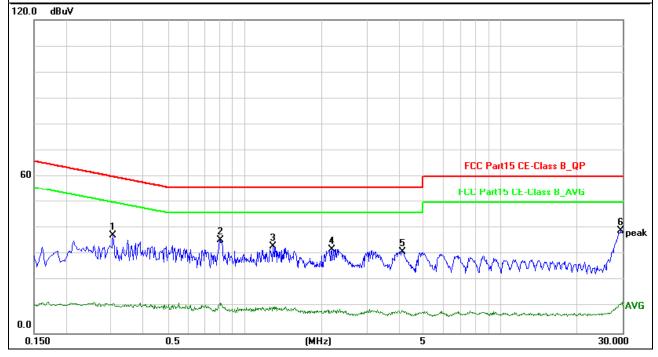
3.1.6 TEST RESULTS

EUT:	Bluetooth Smart Wristband	Model Name. :	Chase I
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V	Test Mode:	Mode 4

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotootor Typo
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.306	27.25	10.11	37.36	60.08	-22.72	QP
0.8059	25.4	10.07	35.47	56	-20.53	QP
1.294	23.13	10.09	33.22	56	-22.78	QP
2.198	22	10.09	32.09	56	-23.91	QP
4.146	21.02	10.13	31.15	56	-24.85	QP
29.518	28.72	10.45	39.17	60	-20.83	QP

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





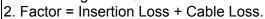
EUT:	Bluetooth Smart Wristband	Model Name. :	Chase I
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V	Test Mode:	Mode 4

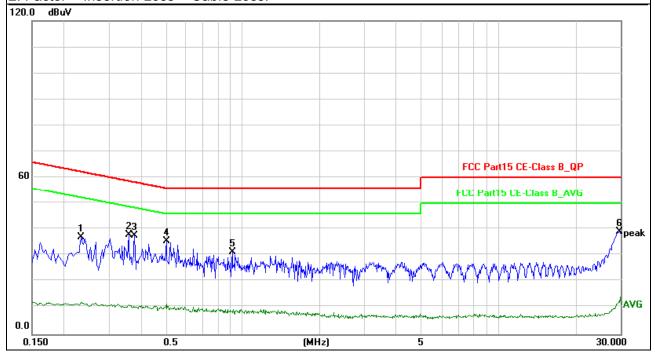
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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.234	26.92	10.12	37.04	62.3	-25.26	QP
0.358	27.86	10.1	37.96	58.77	-20.81	QP
0.378	27.41	10.1	37.51	58.32	-20.81	QP
0.502	25.56	10.09	35.65	56	-20.35	QP
0.91	21.16	10.07	31.23	56	-24.77	QP
29.73	28.68	10.45	39.13	60	-20.87	QP

Remark:

1. All readings are Quasi-Peak and Average values.







3.2 RADIATED EMISSION MEASUREMENT

3.2.1 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 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

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

3.2.2 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; 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.
- 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.



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- 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 emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

No deviation

FCC Report

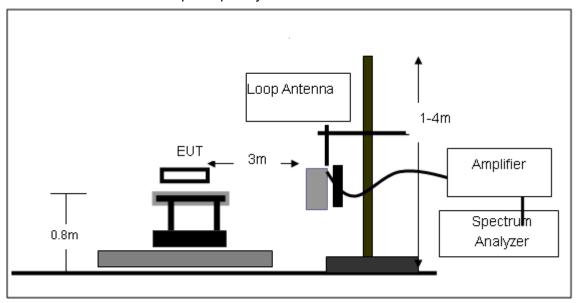
Tel: 400-788-9558 0755-33019988

Report No.: BCTC-150100989

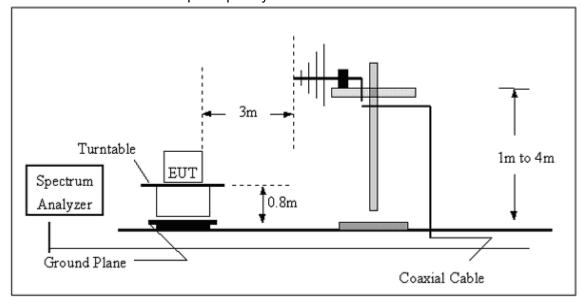


3.2.4 TEST SETUP

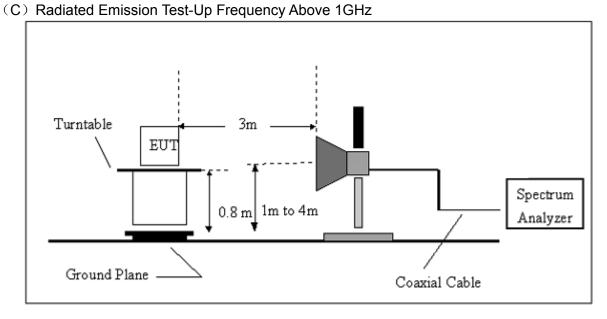
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz







3.2.5 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.



3.2.6 TEST RESULTS (BELOW 30 MHZ)

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Polarization :	
Test Voltage :	DC3.7V		
Test Mode :	TX		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

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.



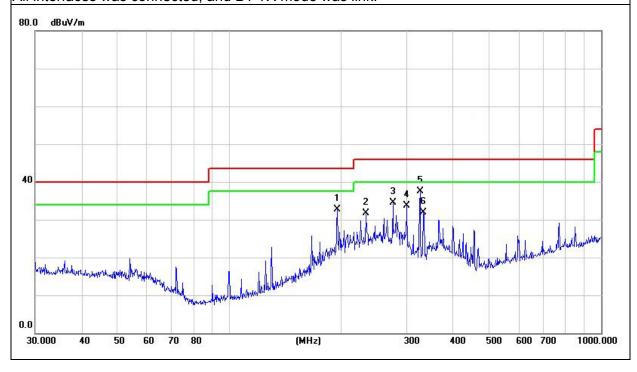
3.2.7 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC3.7V		
Test Mode :	TX		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
195.1365	48.62	-15.90	32.72	43.50	-10.78	QP
233.3487	46.63	-14.87	31.76	46.00	-14.24	QP
275.1570	47.88	-13.29	34.59	46.00	-11.41	QP
300.3672	46.22	-12.57	33.65	46.00	-12.35	QP
325.5958	49.41	-11.92	37.49	46.00	-8.51	QP
332.5187	43.58	-11.74	31.84	46.00	-14.16	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.
All interfaces was connected, and BT TX mode was link.





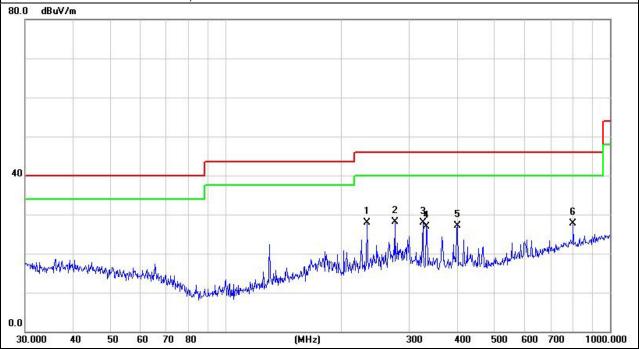


EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	DC3.7V		
Test Mode :	TX		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
233.3487	42.79	-14.87	27.92	46.00	-18.08	QP
275.1570	41.43	-13.29	28.14	46.00	-17.86	QP
325.5958	39.82	-11.92	27.90	46.00	-18.10	QP
332.5187	38.65	-11.74	26.91	46.00	-19.09	QP
400.4319	37.33	-10.17	27.16	46.00	-18.84	QP
801.7863	30.17	-2.49	27.68	46.00	-18.32	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.
All interfaces was connected, and BT TX mode was link.



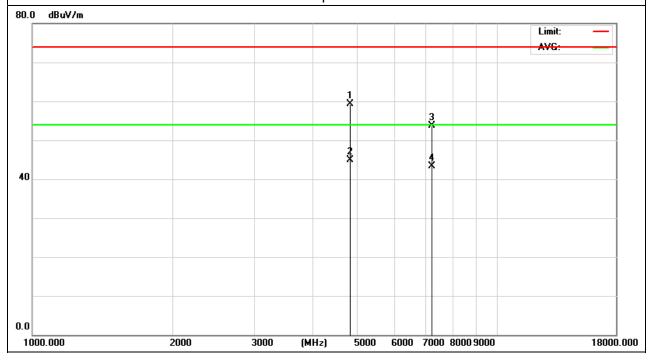


3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2402MHz – CH 00(1Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4803.226	63.01	-3.64	59.37	74	-14.63	peak
4803.226	48.59	-3.64	44.95	54	-9.05	AVG
7210.115	54.57	-0.95	53.62	74	-20.38	peak
7210.115	44.28	-0.95	43.33	54	-10.67	AVG

Remark:

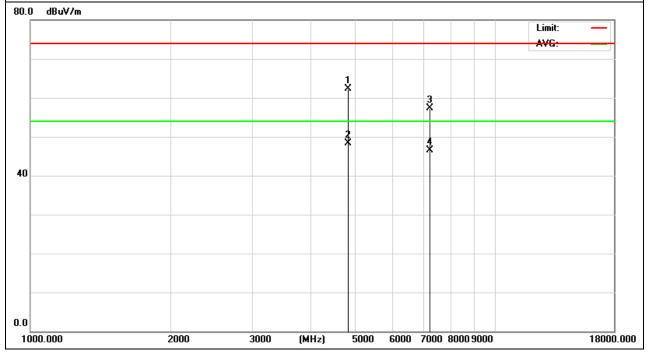




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2402MHz - CH 00(1Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4803.216	65.91	-3.64	62.27	74	-11.73	peak
4803.216	51.97	-3.64	48.33	54	-5.67	AVG
7210.125	58.32	-0.96	57.36	74	-16.64	peak
7210.125	47.54	-0.96	46.58	54	-7.42	AVG

Remark:

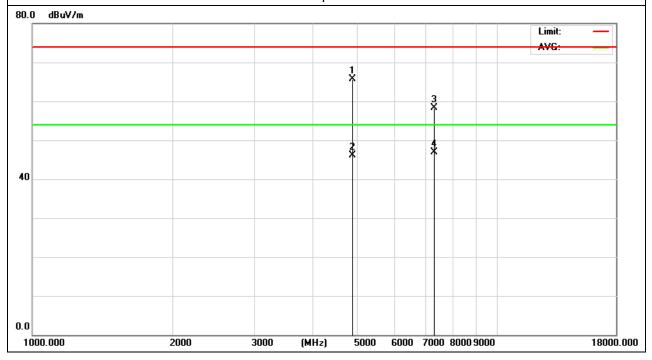




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2441MHz – CH 39(1Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.225	69.47	-3.67	65.8	74	-8.2	peak
4882.225	49.74	-3.67	46.07	54	-7.93	AVG
7323.517	59.21	-0.82	58.39	74	-15.61	peak
7323.517	47.68	-0.82	46.86	54	-7.14	AVG

Remark:

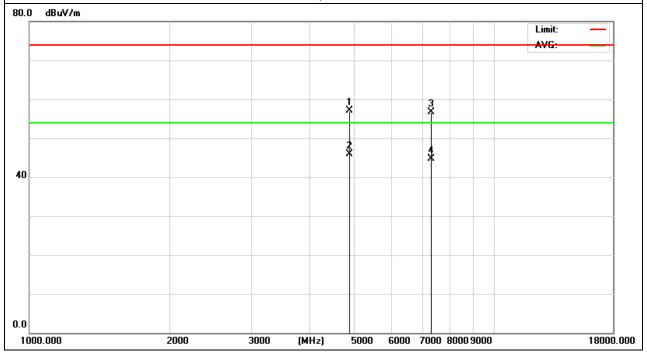




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2441MHz – CH 39(1Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.323	60.7	-3.67	57.03	74	-16.97	peak
4882.323	49.55	-3.67	45.88	54	-8.12	AVG
7323.253	57.57	-0.82	56.75	74	-17.25	peak
7323.253	45.45	-0.82	44.63	54	-9.37	AVG

Remark:

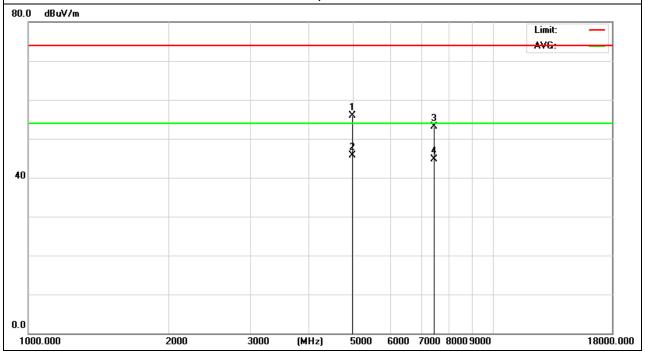




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2480MHz – CH 78(1Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4960.406	59.53	-3.59	55.94	74	-18.06	peak
4960.406	49.35	-3.59	45.76	54	-8.24	AVG
7440.445	53.79	-0.68	53.11	74	-20.89	peak
7440.445	45.3	-0.68	44.62	54	-9.38	AVG

Remark:

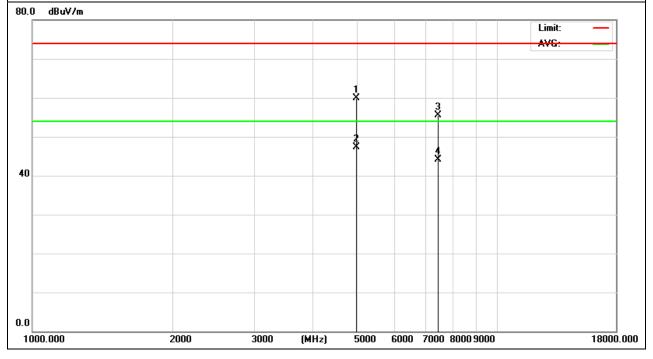




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2480MHz - CH 78(1Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4960.233	63.53	-3.59	59.94	74	-14.06	peak
4960.233	50.98	-3.59	47.39	54	-6.61	AVG
7440.648	56.24	-0.68	55.56	74	-18.44	peak
7440.648	44.79	-0.68	44.11	54	-9.89	AVG

Remark:

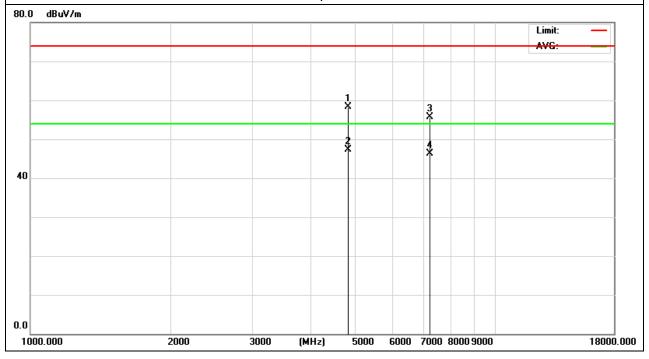




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature:	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2402MHz – CH 00(2Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4804.269	61.9	-3.64	58.26	74	-15.74	peak
4804.269	50.96	-3.64	47.32	54	-6.68	AVG
7206.538	56.64	-0.95	55.69	74	-18.31	peak
7206.538	47.2	-0.95	46.25	54	-7.75	AVG

Remark:

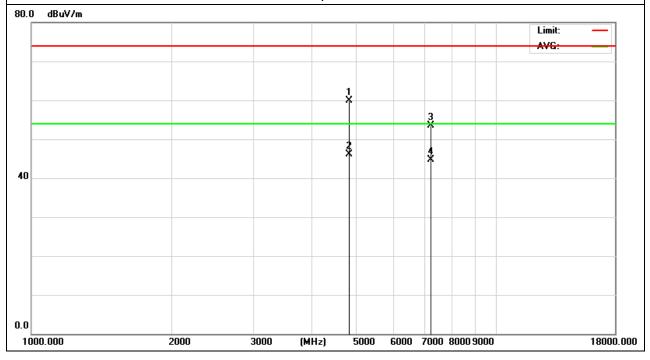




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2402MHz – CH 00(2Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4804.251	63.56	-3.64	59.92	74	-14.08	peak
4804.251	49.72	-3.64	46.08	54	-7.92	AVG
7206.312	54.43	-0.95	53.48	74	-20.52	peak
7206.312	45.68	-0.95	44.73	54	-9.27	AVG

Remark:

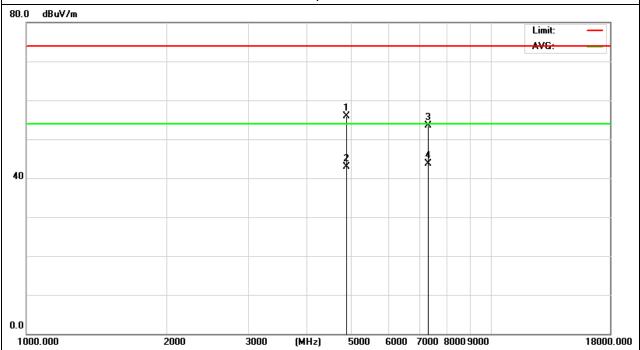




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature:	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2441MHz – CH 39(2Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.214	59.51	-3.67	55.84	74	-18.16	peak
4882.214	46.6	-3.67	42.93	54	-11.07	AVG
7323.339	54.35	-0.82	53.53	74	-20.47	peak
7323.339	44.53	-0.82	43.71	54	-10.29	AVG

Remark:

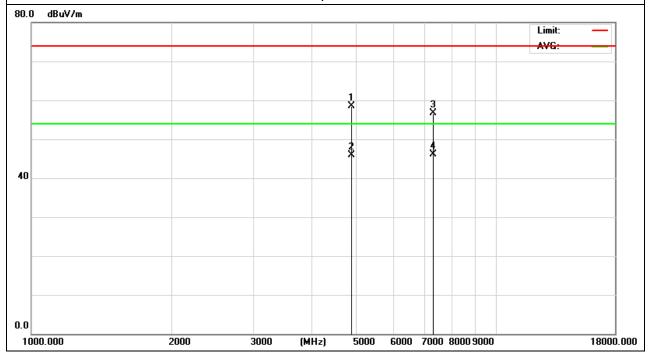




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2441MHz – CH 39(2Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.389	62.19	-3.67	58.52	74	-15.48	peak
4882.389	49.64	-3.67	45.97	54	-8.03	AVG
7323.175	57.46	-0.82	56.64	74	-17.36	peak
7323.175	46.98	-0.82	46.16	54	-7.84	AVG

Remark:

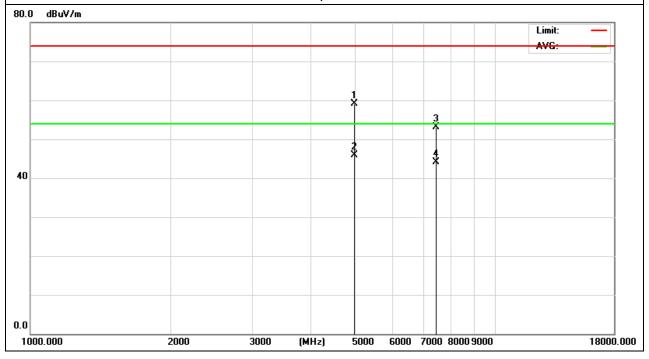




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2480MHz – CH 78(2Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4960.562	62.63	-3.6	59.03	74	-14.97	peak
4960.562	49.58	-3.6	45.98	54	-8.02	AVG
7440.125	53.75	-0.68	53.07	74	-20.93	peak
7440.125	44.69	-0.68	44.01	54	-9.99	AVG

Remark:





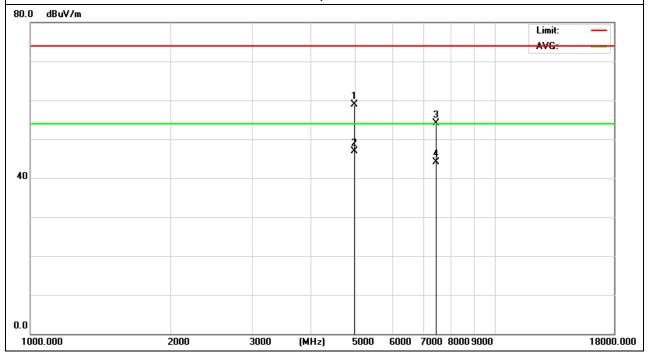
Shenzhen BCTC Technology Co., Ltd.

Report No.: BCTC-150100989

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2480MHz – CH 78(2Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4960.163	62.42	-3.59	58.83	74	-15.17	peak
4960.163	50.46	-3.59	46.87	54	-7.13	AVG
7440.231	54.73	-0.68	54.05	74	-19.95	peak
7440.231	44.8	-0.68	44.12	54	-9.88	AVG

Remark:

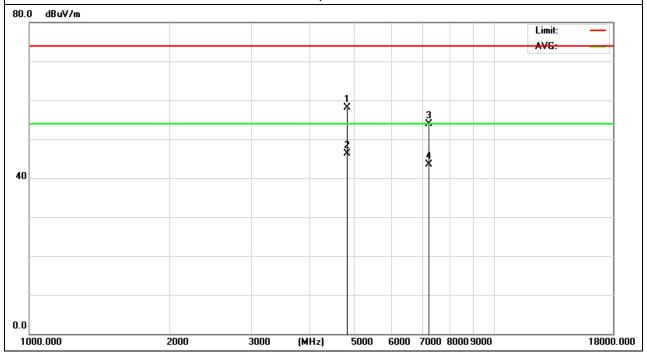




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2402MHz - CH00 (3Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotootor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4804.231	61.71	-3.64	58.07	74	-15.93	peak
4804.231	49.95	-3.64	46.31	54	-7.69	AVG
7206.342	54.79	-0.95	53.84	74	-20.16	peak
7206.342	44.37	-0.95	43.42	54	-10.58	AVG

Remark:

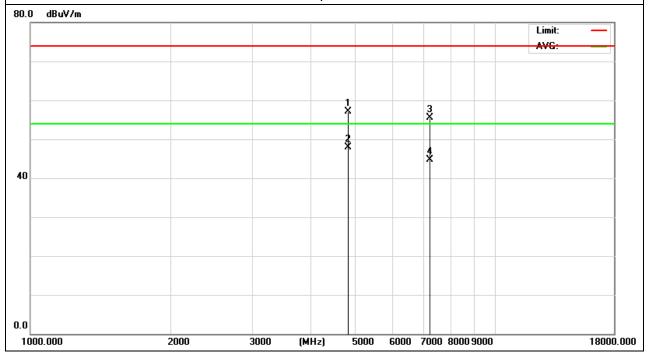




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2402MHz - CH00 (3Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4804.352	60.81	-3.64	57.17	74	-16.83	peak
4804.352	51.58	-3.64	47.94	54	-6.06	AVG
7206.136	56.49	-0.95	55.54	74	-18.46	peak
7206.136	45.57	-0.95	44.62	54	-9.38	AVG

Remark:





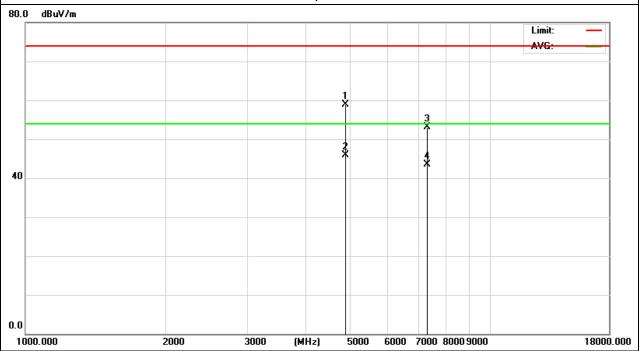
Shenzhen BCTC Technology Co., Ltd.

Report No.: BCTC-150100989

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2441MHz – CH39(3Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turns
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.386	62.5	-3.67	58.83	74	-15.17	peak
4882.386	49.66	-3.67	45.99	54	-8.01	AVG
7323.498	53.87	-0.82	53.05	74	-20.95	peak
7323.498	44.33	-0.82	43.51	54	-10.49	AVG

Remark:

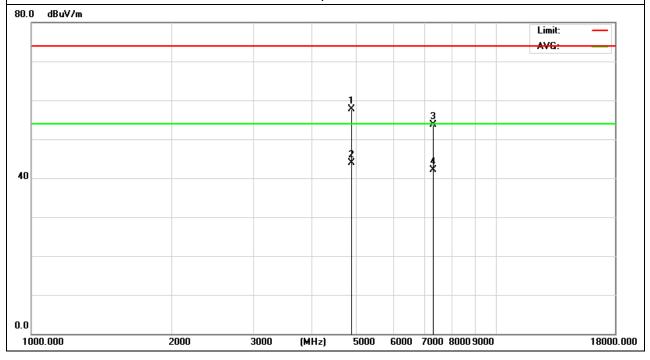




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2441MHz – CH39 (3Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.672	61.46	-3.67	57.79	74	-16.21	peak
4882.672	47.58	-3.67	43.91	54	-10.09	AVG
7323.203	54.46	-0.82	53.64	74	-20.36	peak
7323.203	42.95	-0.82	42.13	54	-11.87	AVG

Remark:

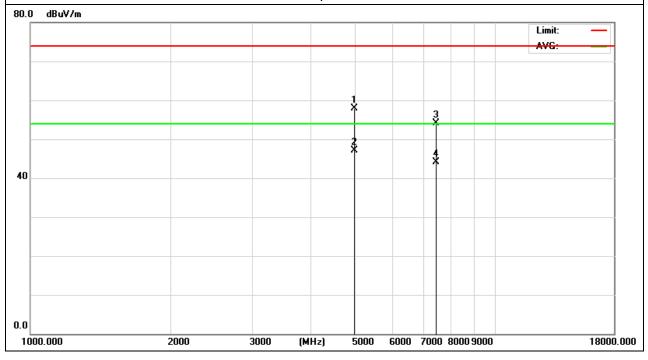




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2480MHz – CH78 (3Mbps)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4960.382	61.47	-3.59	57.88	74	-16.12	peak
4960.382	50.65	-3.59	47.06	54	-6.94	AVG
7440.234	54.74	-0.68	54.06	74	-19.94	peak
7440.234	44.84	-0.68	44.16	54	-9.84	AVG

Remark:





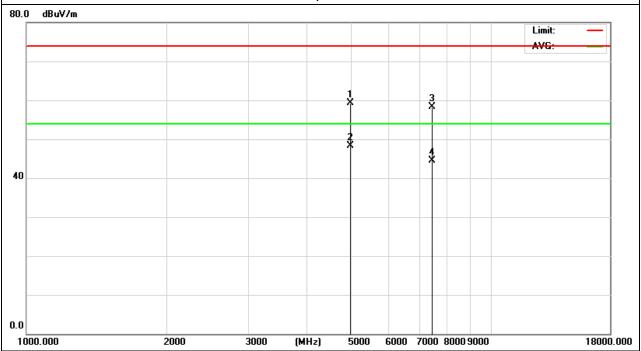
Shenzhen BCTC Technology Co., Ltd.

Report No.: BCTC-150100989

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX 2480MHz – CH78 (3Mbps)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4960.211	62.92	-3.59	59.33	74	-14.67	peak
4960.211	51.89	-3.59	48.3	54	-5.7	AVG
7440.834	59.06	-0.68	58.38	74	-15.62	peak
7440.834	45.15	-0.68	44.47	54	-9.53	AVG

Remark:



Report No.: BCTC-150100989

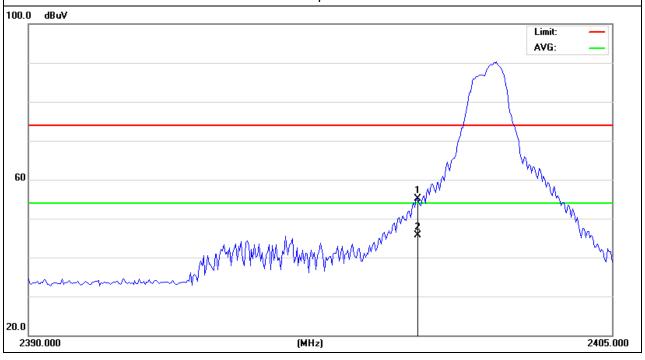


3.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX /2402MHz-1Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2400	68.07	-12.99	55.08	74	-18.92	peak
2400	58.74	-12.99	45.75	54	-8.25	AVG

Remark:

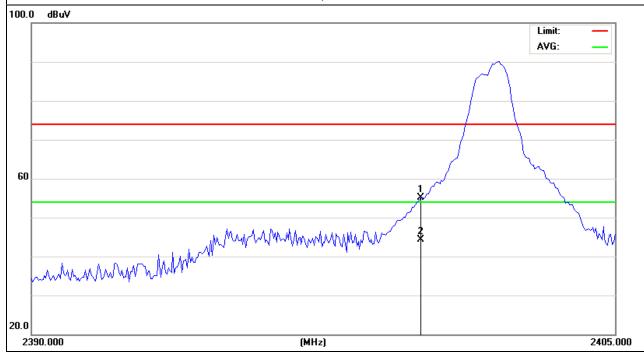




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX /2402MHz-1Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	68.09	-12.99	55.1	74	-18.9	peak
2400	57.21	-12.99	44.22	54	-9.78	AVG

Remark:

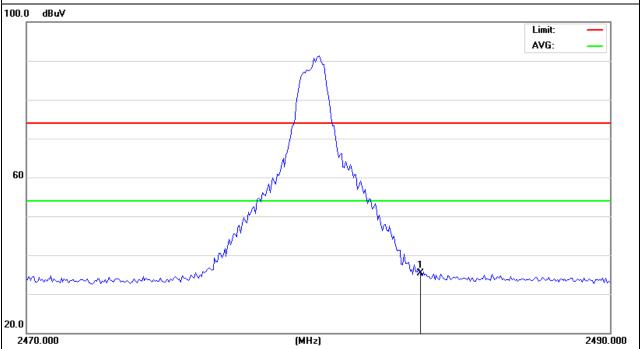




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature:	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX /2480MHz-1Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	48.06	-12.78	35.28	74	-38.72	peak

Remark:





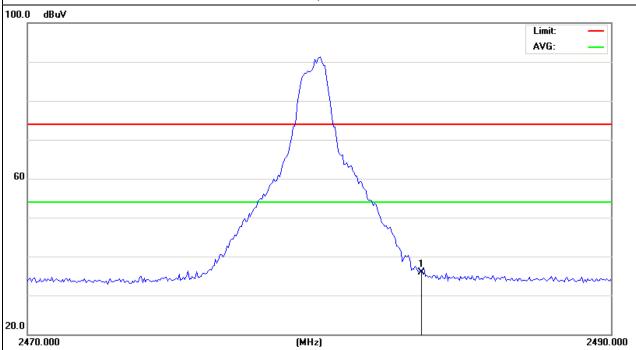
Shenzhen BCTC Technology Co., Ltd.

Report No.: BCTC-150100989

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX /2480MHz-1Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	48.65	-12.78	35.87	74	-38.13	peak

Remark:

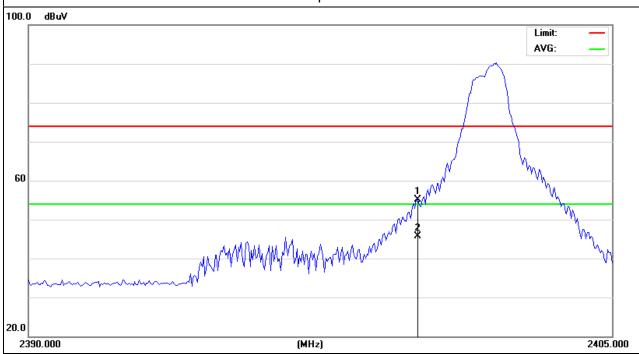




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX /2402MHz-2Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	68.07	-12.99	55.08	74	-18.92	peak
2400	58.74	-12.99	45.75	54	-8.25	AVG

Remark:





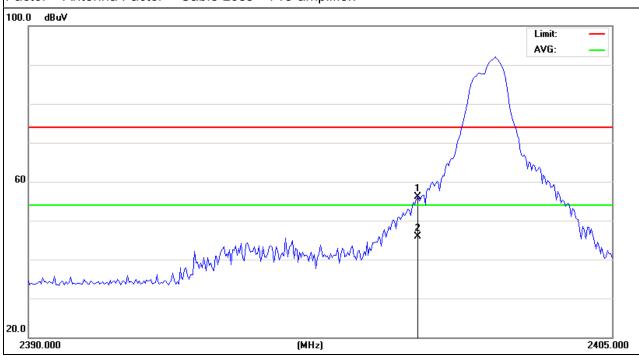
Shenzhen BCTC Technology Co., Ltd.

Report No.: BCTC-150100989

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX /2402MHz-2Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	69.09	-12.99	56.1	74	-17.9	peak
2400	58.88	-12.99	45.89	54	-8.11	AVG

Remark:

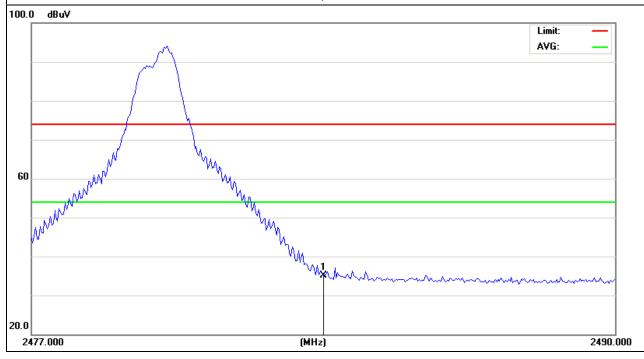




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX /2480MHz-2Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	47.85	-12.78	35.07	74	-38.93	peak

Remark:

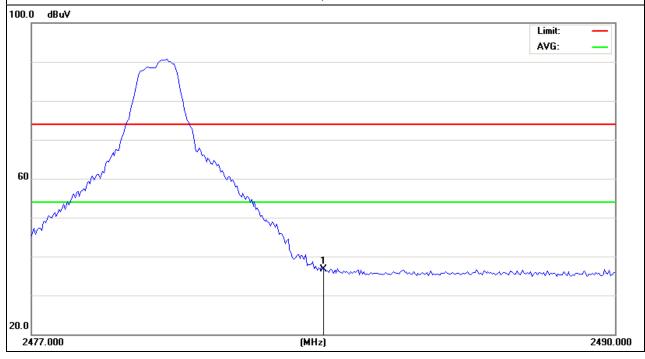




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX /2480MHz-2Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	49.52	-12.78	36.74	74	-37.26	peak

Remark:

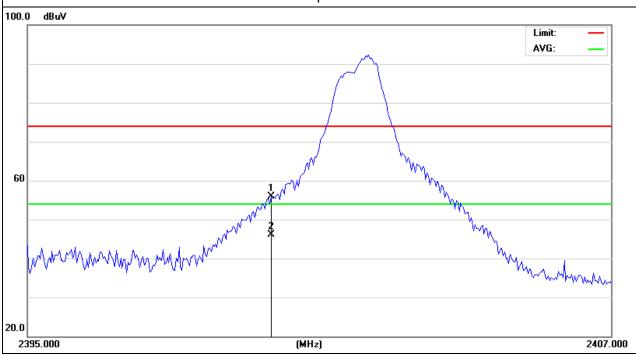




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX /2402MHz-3Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	68.93	-12.99	55.94	74	-18.06	peak
2400	59.12	-12.99	46.13	54	-7.87	AVG

Remark:

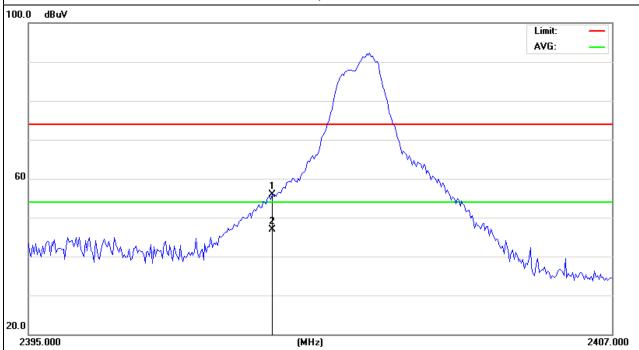




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX /2402MHz-3Mbps	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	68.93	-12.99	55.94	74	-18.06	peak
2400	59.84	-12.99	46.85	54	-7.15	AVG

Remark:

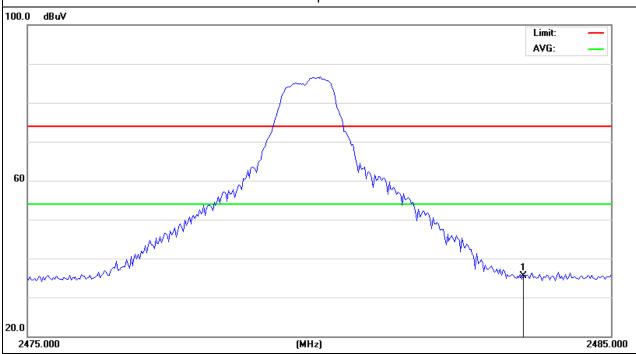




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX /2480MHz-3Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	48.33	-12.78	35.55	74	-38.45	peak

Remark:

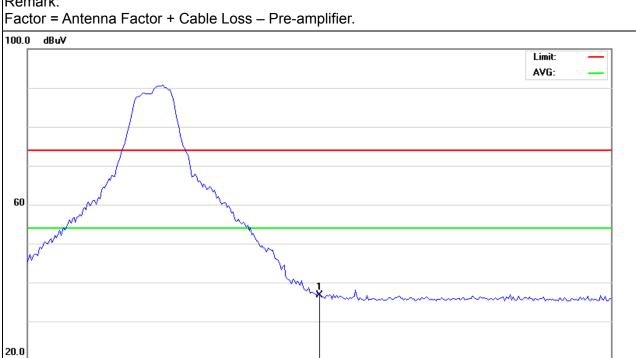




EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	TX /2480MHz-3Mbps	Polarization :	Horizontal

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			Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
49.52	-12.78	36.74	74	-37.26	peak
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.					



NOTE: Hopping enabled and disabled have evaluated, and the worrest data (disabled)was reported

(MHz)

2477.000

2490.000



4. NUMBER OF HOPPING CHANNEL

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.1.1 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=100KHz, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

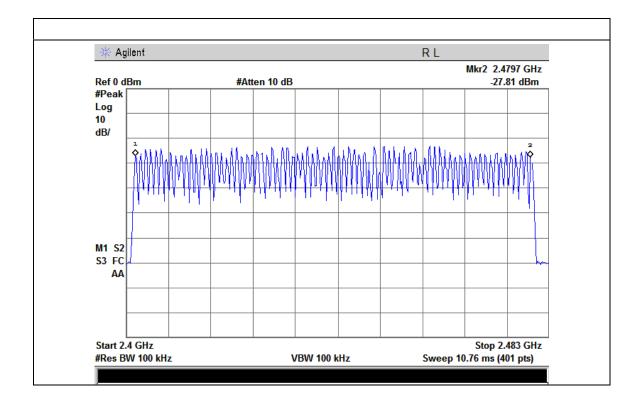
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



4.1.5 TEST RESULTS

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1015 hPa	Test Voltage :	DC3.7V
Test Mode :	Hopping Mode		







5. AVERAGE TIME OF OCCUPANCY

5.1 APPLIED PROCEDURES / LIMIT

	** *** * ==== * *** *== * *** == ***			
FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. A Period Time = (channel number)*0.4
 - DH1 Time Slot: Reading * (1600/2)*31.6/(channel number)

 - DH3 Time Slot: Reading * (1600/4)*31.6/(channel number) DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

5.1.2 DEVIATION FROM STANDARD

No deviation.



5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 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.

FCC Report Tel: 400-788-9558 0755-33019988

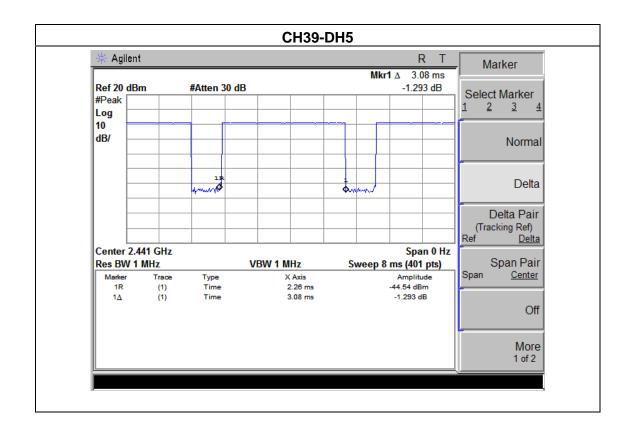
Report No.: BCTC-150100989



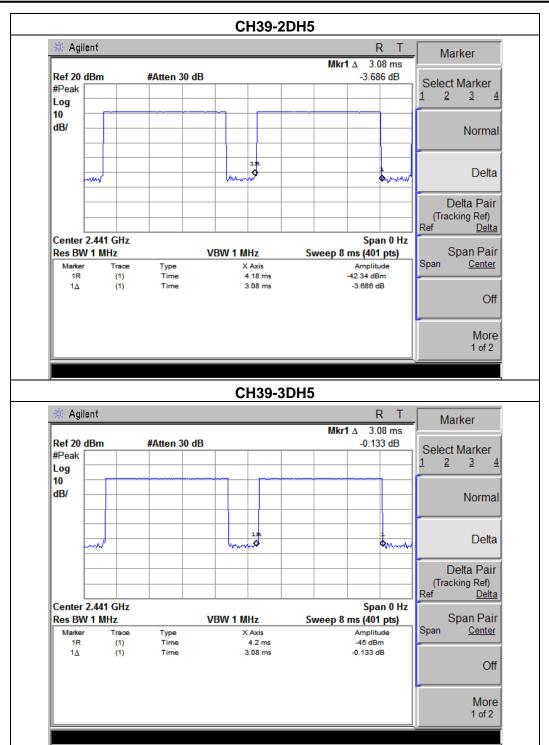
5.1.5 TEST RESULTS

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1012 hPa	Test Voltage :	DC3.7V
Test Mode :	CH39-DH5 ,2DH5,3DH5		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	3.08	0.33	0.4
2DH5	2441 MHz	3.08	0.33	0.4
3DH5	2441 MHz	3.08	0.33	0.4



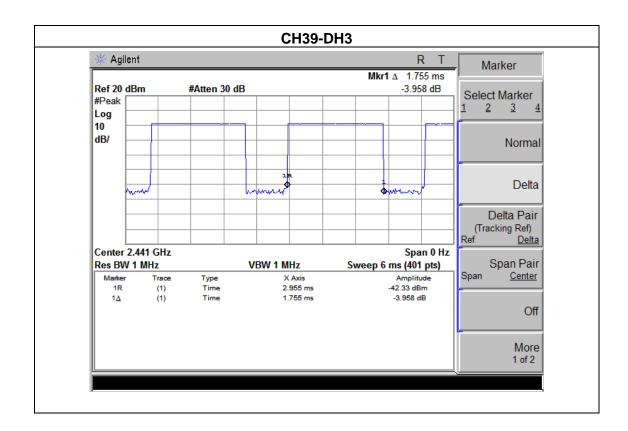




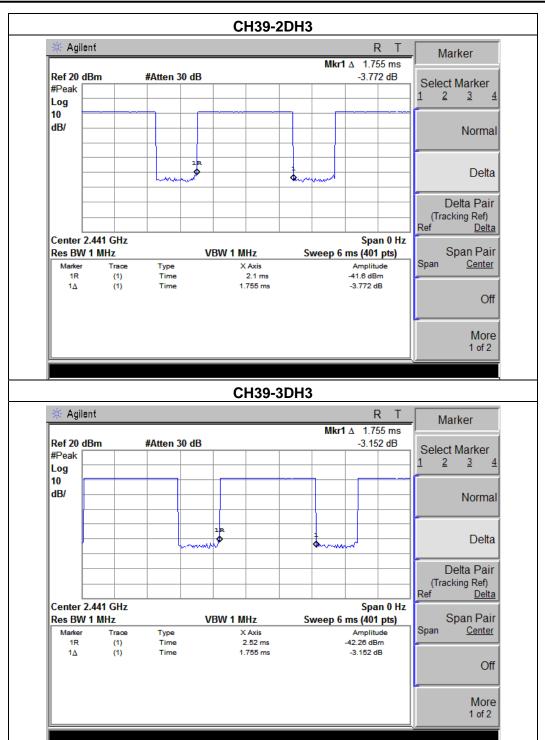


EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1012 hPa	Test Voltage :	DC3.7V
Test Mode :	CH39-DH3,2DH3,3DH3		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH3	2441 MHz	1.75	0.28	0.4
2DH3	2441 MHz	1.75	0.28	0.4
3DH3	2441 MHz	1.75	0.28	0.4



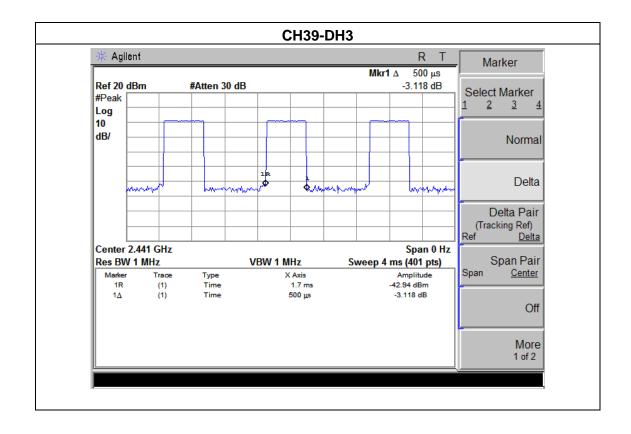




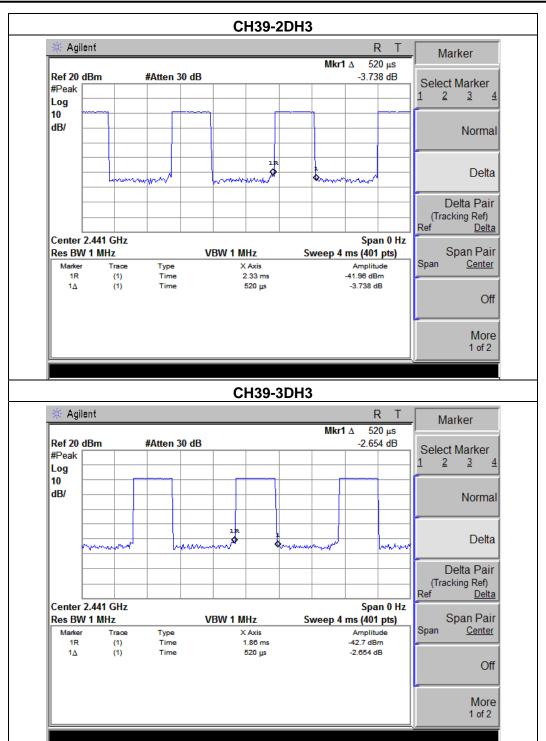


EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1012 hPa	Test Voltage :	DC3.7V
Test Mode :	CH39-DH1,2DH1,3DH1		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441 MHz	0.50	0.16	0.4
2DH1	2441 MHz	0.52	0.17	0.4
3DH1	2441 MHz	0.52	0.17	0.4









6. HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	100 kHz (Channel Separation)	
VB	300 kHz (Channel Separation)	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

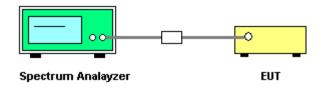
6.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

Report No.: BCTC-150100989

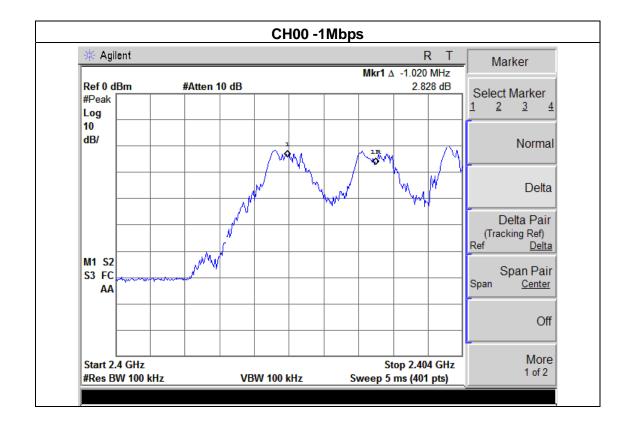


6.1.5 TEST RESULTS

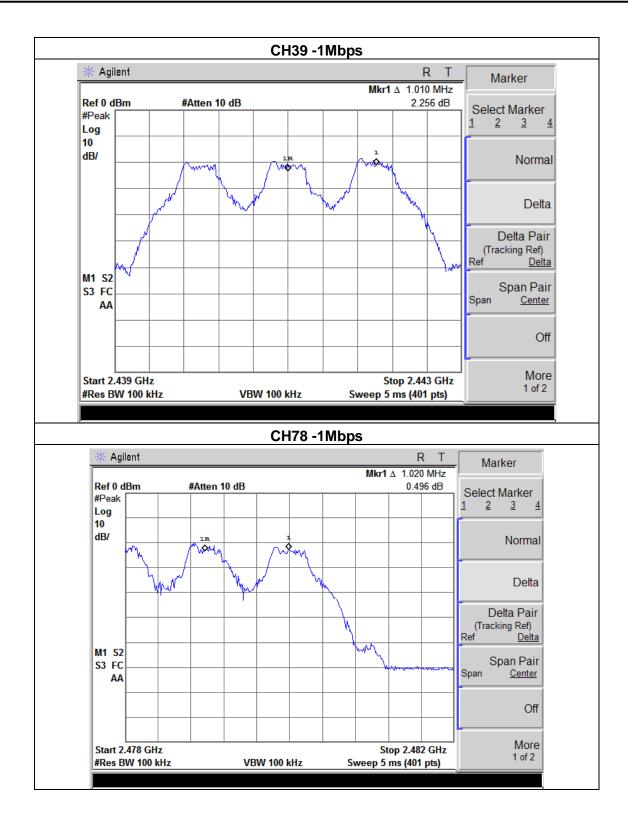
EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure:	1012 hPa Test Voltage :		DC3.7V
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.020	Complies
2441 MHz	1.010	Complies
2480 MHz	1.020	Complies

Ch. Separation Limits: > 20dB bandwidth





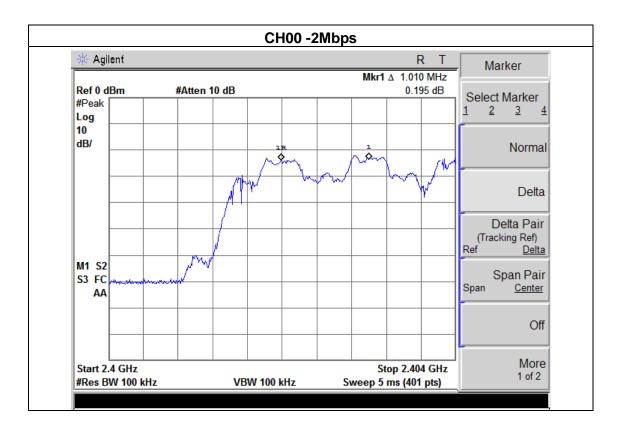




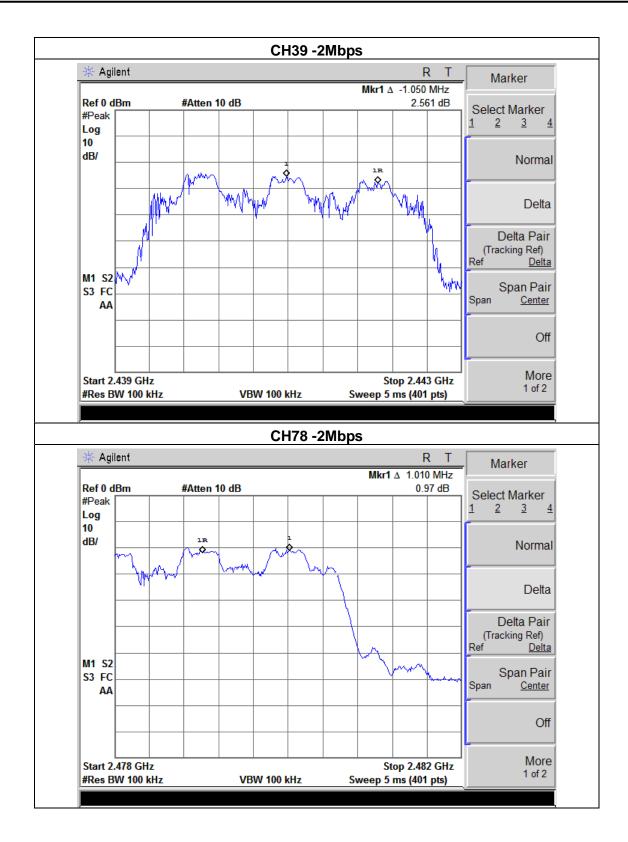
EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1012 hPa	Test Voltage :	DC3.7V
Test Mode :	CH00 / CH39 /CH78 (2Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.010	Complies
2441 MHz	1.050	Complies
2480 MHz	1.010	Complies

Ch. Separation Limits: >2/3 of 20dB bandwidth





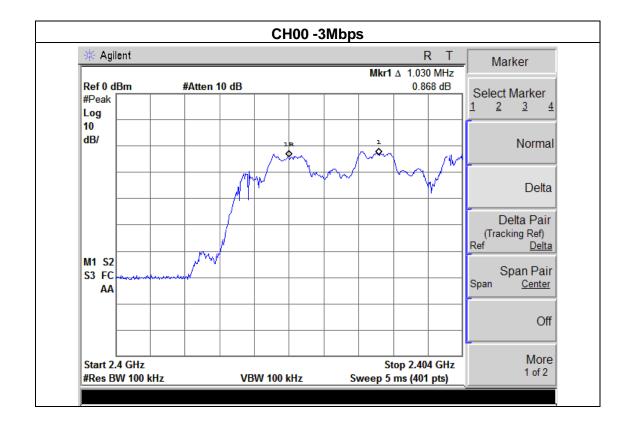




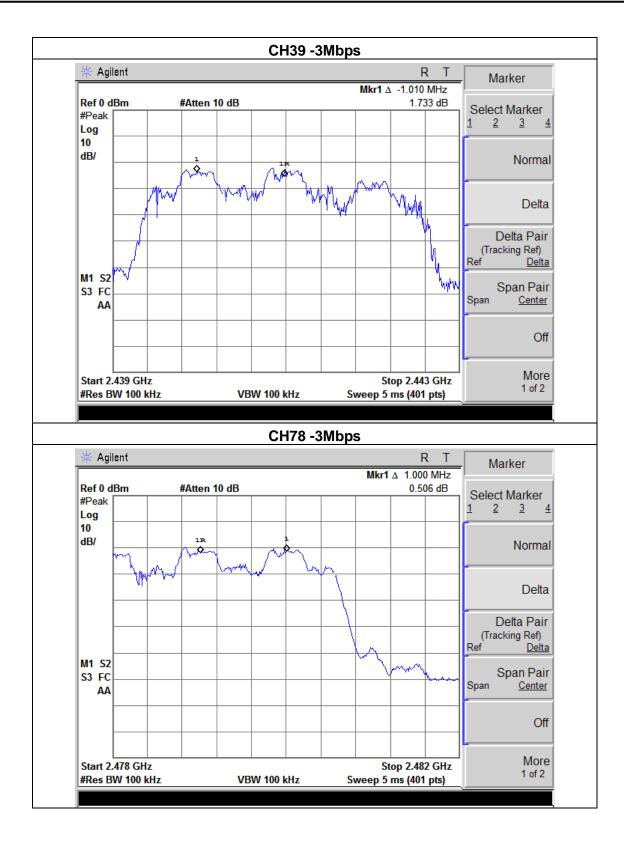
EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1012 hPa	Test Voltage :	DC3.7V
Test Mode :	: CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.030	Complies
2441 MHz	1.010	Complies
2480 MHz	1.000	Complies

Ch. Separation Limits: >2/3 of 20dB bandwidth









7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	30 kHz	
VB	100 kHz	
Detector	Peak	
Trace Max Hold		
Sweep Time Auto		

7.1.1 TEST PROCEDURE

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 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.

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

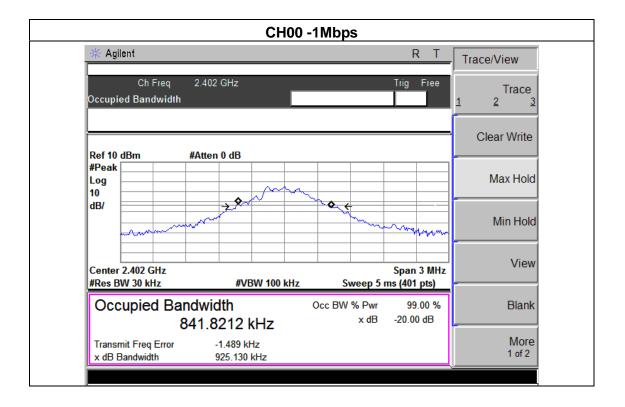
b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.



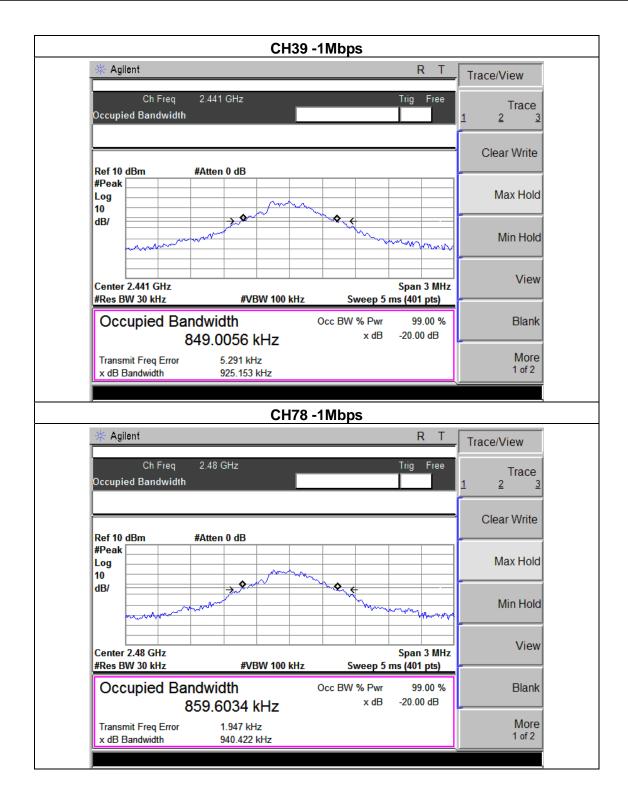
7.1.5 TEST RESULTS

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1012 hPa	Test Voltage :	DC3.7V
Test Mode :	CH00 / CH39 /C78(1Mbps)		

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	925.13	PASS
2441 MHz	925.15	PASS
2480 MHz	940.42	PASS



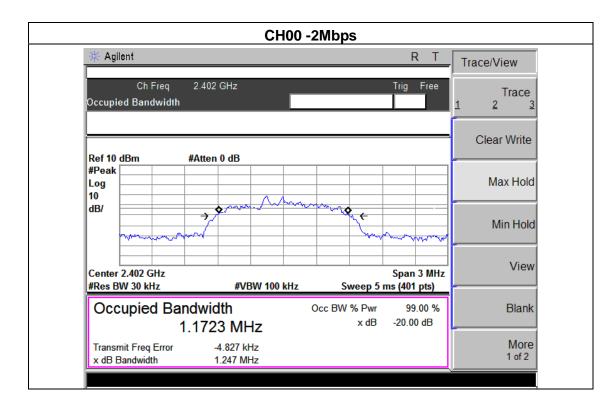




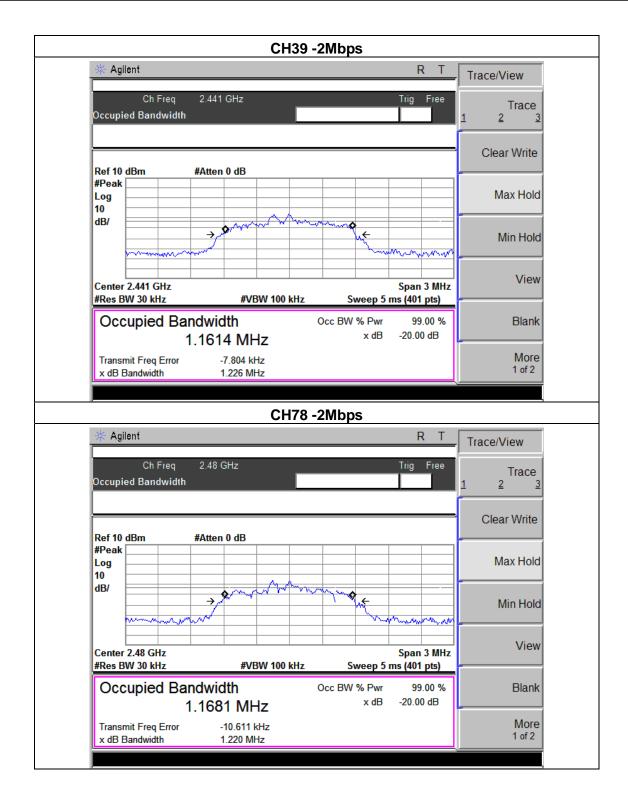
Shenzhen BCTC Technology Co., Ltd. Report No.: BCTC-150100989

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1012 hPa	Test Voltage :	DC3.7V
Test Mode :	CH00 / CH39 /C78(2Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.247	PASS
2441 MHz	1.226	PASS
2480 MHz	1.220	PASS



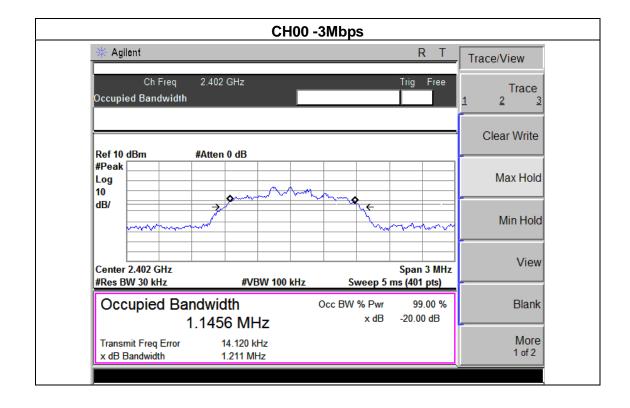




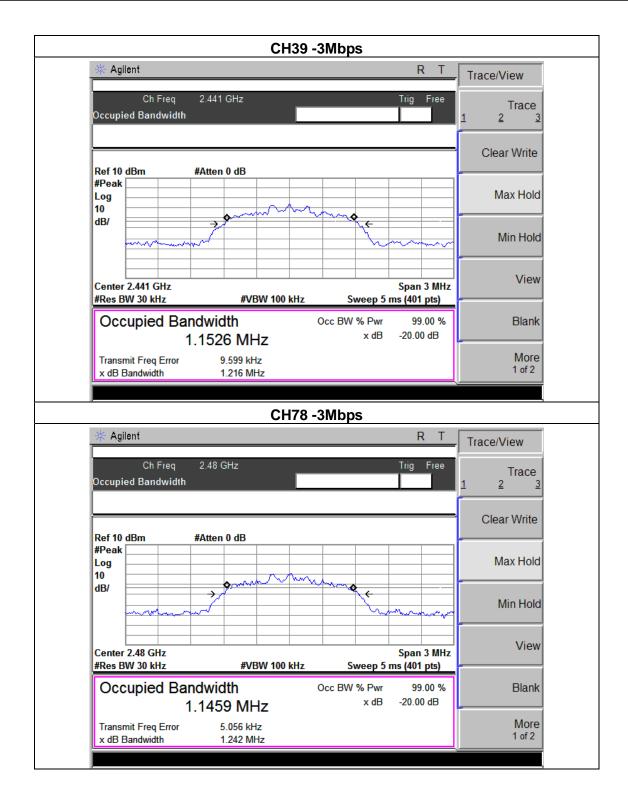
Shenzhen BCTC Technology Co., Ltd. Report No.: BCTC-150100989

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1012 hPa	Test Voltage :	DC3.7V
Test Mode :	CH00 / CH39 /C78(3Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.211	PASS
2441 MHz	1.216	PASS
2480 MHz	1.242	PASS









8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(i)	Peak Output Power	0.125 w or 20.96dBm	2400-2483.5	PASS

8.1.1 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 > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

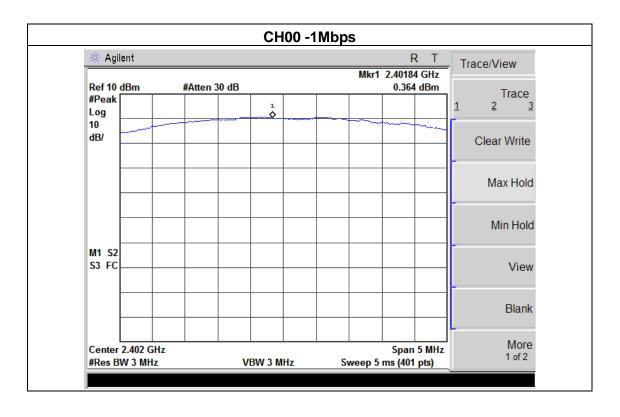
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



8.1.5 TEST RESULTS

EUT:	Bluetooth Smart Wristband	Model Name :	Chase I
Temperature:	26 ℃	Relative Humidity:	53%
Pressure :	1012 hPa	Test Voltage :	DC3.7V
Test Mode :	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)		

	1Mbps			
Test Channel	Frequency	Peak Output Power	LIMIT	
Tool Onamie	(MHz)	(dBm)	(dBm)	
CH00	2402	0.364	30	
CH39	2441	0.102	30	
CH78	2480	0.736	30	
	2Mbps			
CH00	2402	-0.762	20.96	
CH39	2441	-0.216	20.96	
CH78	2480	-1.069	20.96	
3Mbps				
CH00	2402	-0.929	20.96	
CH39	2441	-1.303	20.96	
CH78	2480	-1.069	20.96	

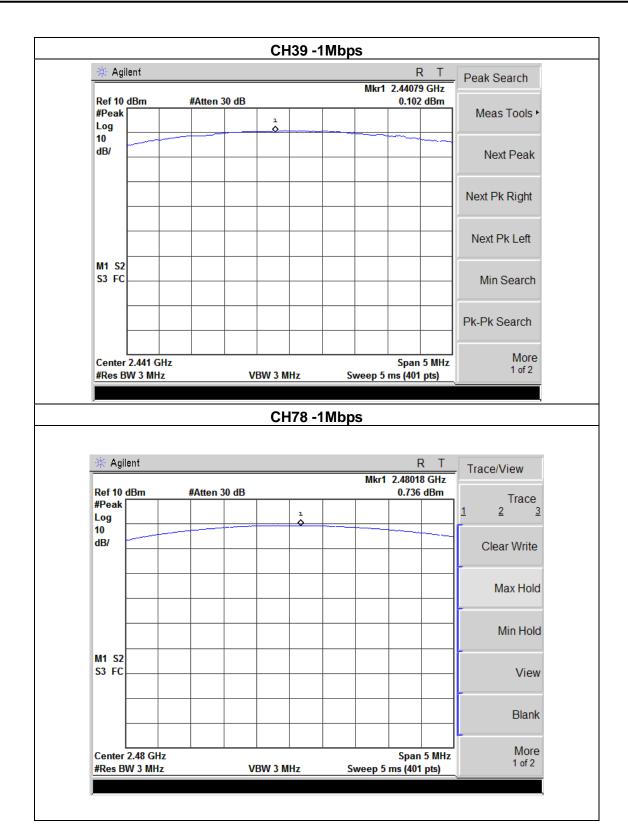


FCC Report Tel: 400-788-955

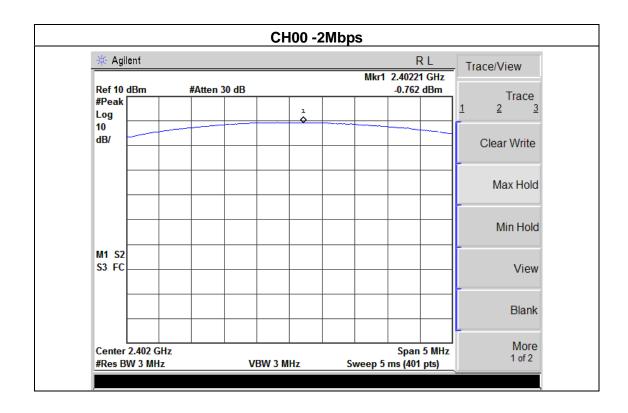
Tel: 400-788-9558 0755-33019988

Web:Http//www.bctc-lab.com

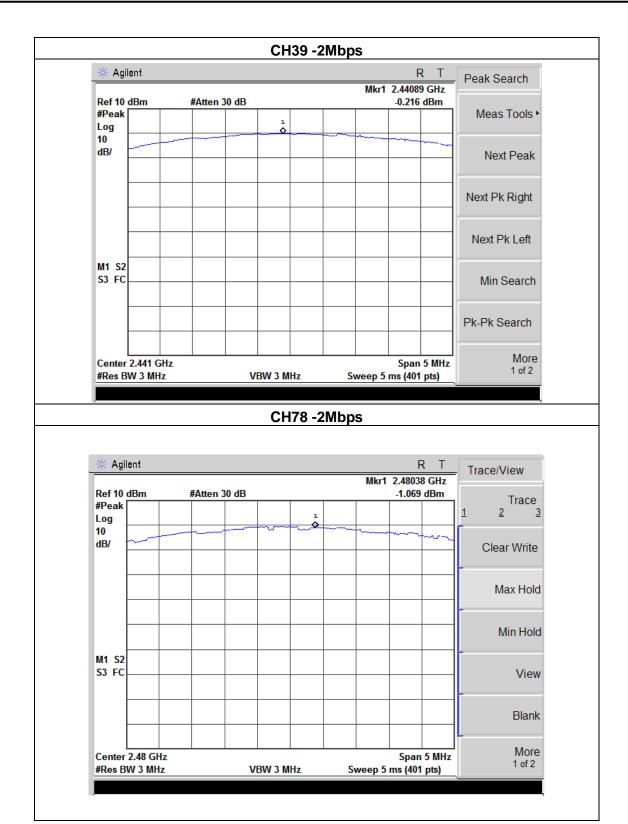




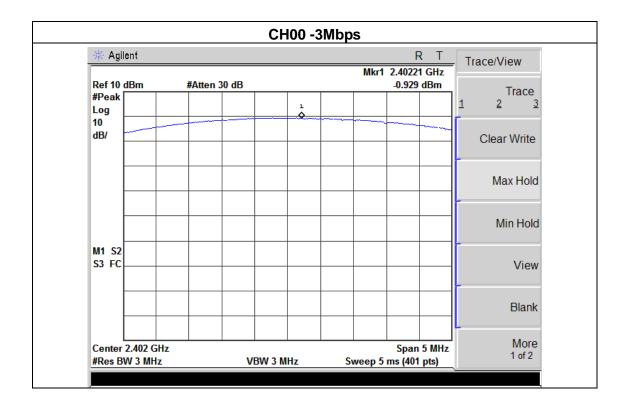






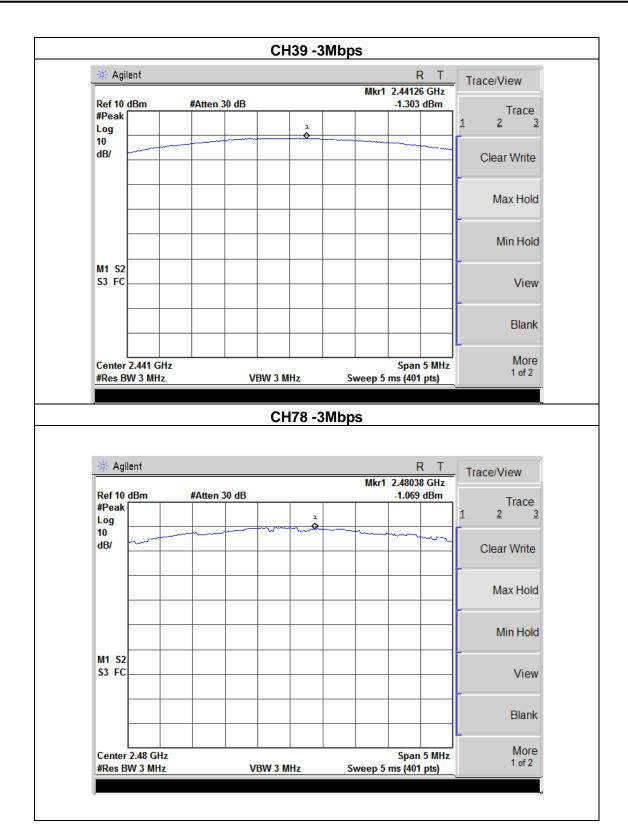






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9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

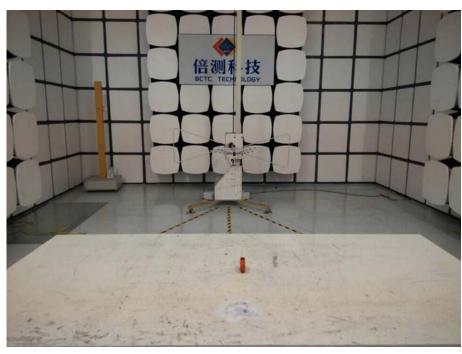
9.2 EUT ANTENNA

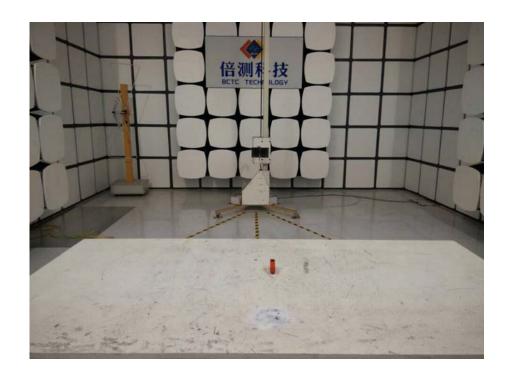
The EUT antenna is Integrated antenna, is permanent attached antenna. It comply with the standard requirement.



10. EUT TEST PHOTO









Conducted Emission

