

FCC RADIO TEST REPORT-BLE FCC ID: 2AB73JC-B005

Product : Heart rate bracelet Trade Name : N/A Model Name : JC-B005 Serial Model : N/A Report No. : NTEK-2014NT12242404F

Prepared for

Joint Chinese Ltd.

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Prepared by

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TEST RESULT CERTIFICATION

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Manufacture's Name Address	Building 6, Huafen	g Tech Park, Luotian Industrial Are enzhen, China 518125	ea, Songgang
Product description			
Product name	Heart rate bracelet		
Model and/or type reference	JC-B005		
Serial Model	N/A		
Standards	FCC Part15.247: 01	Oct. 2014	
Test procedure	ANSI C63.4-2003 ar	nd KDB 558074: June 5, 2014	
	UT) is in compliance	d by NTEK, and the test results show with the FCC requirements. And it is	
•	• •	full, without the written approval of N K, personal only, and shall be noted ir	
Date of Test	· · · ·		
		Dec. 2014 ~19 Jun. 2015	
Date of Issue			
Test Result	Pas	SS	
Testing	Engineer :	Kyle Xu	
		(Kyle Xu)	
Techni	cal Manager :	Brown Lu	
		(Brown Lu)	
Author	ized Signatory :	Bin	
		(Bill Yao)	



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C					
Standard Section	Lest Item				
15.207	Conducted Emission	PASS			
15.247 (a)(2)	6dB Bandwidth	PASS			
15.247 (b)	Peak Output Power	PASS			
15.247 (c)	Radiated Spurious Emission	PASS			
15.247 (d)	Power Spectral Density	PASS			
15.205	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

NOTE:

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

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 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 % $^\circ$

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	Heart rate bracelet		
Trade Name	N/A		
Model Name	JC-B005		
Serial Model	N/A		
Model Difference	N/A		
	The EUT is a Heart ra	ite bracelet	
	Operation Frequency:	2402~2480MHz	
	Modulation Type:	GFSK	
	Number Of Channel	40CH	
	Antenna	Please see Note 3.	
Product Description	Designation:		
	Antenna Gain (dBi) 1.0dBi		
	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 specification, please refer to the User's Manual.		
Channel List	Please refer to the Note 2.		
Ratings	DC 3.7V		
Adapter	N/A		
Battery	DC 3.7V ,80mAh		
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	Frequency
Charmen	(MHz)
00	2402
01	2404
••••	
•••••	······.
38	2478
39	2480

3.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
А	N/A	N/A	PCB Antenna	N/A	1.0	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	CH19
Mode 3	CH39
Mode 4	Link Mode

For Conducted Emission		
Final Test Mode Description		
Mode 4	Link Mode	

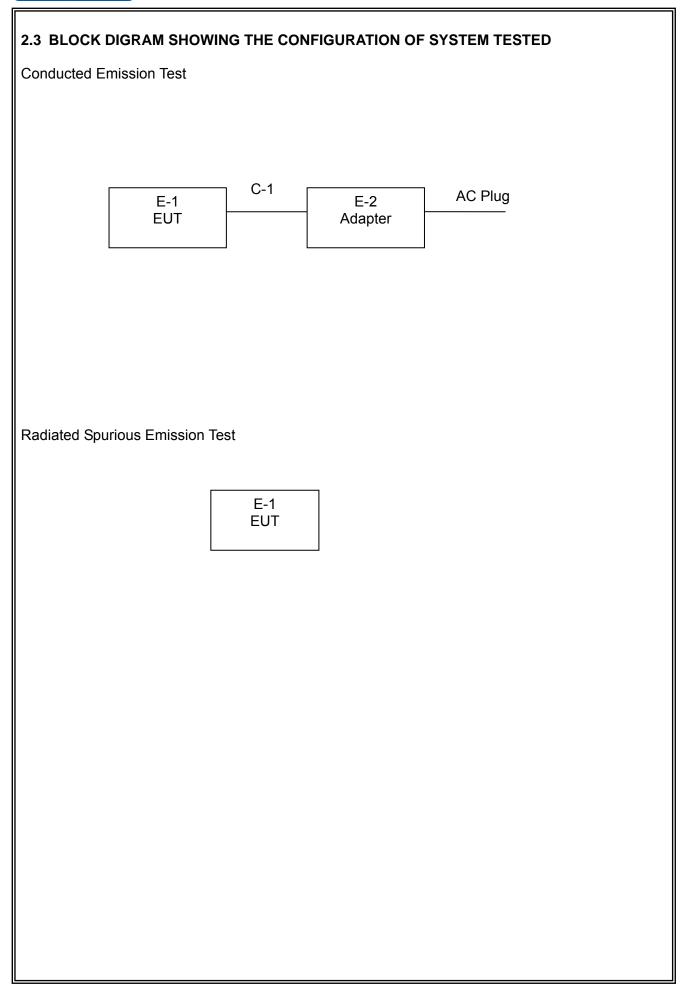
For Radiated Emission			
Final Test Mode	Description		
Mode 1	CH00		
Mode 2	CH19		
Mode 3	CH39		
Mode 4	Link Mode		

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported







2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Heart rate bracelet	N/A	JC-B005	N/A	EUT
E-2	ADAPTER	N/A	AD1	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in $\[$ Length $\]$ column.

5

6

1

Switch Passive Voltage

Probe Absorbing clamp

Attenuation

R&S

R&S

MCE

ESH2-Z3

MOS-21

24-10-34

100196

100423

BN9258

2014.06.07 2015.06.06

2014.06.08 2015.06.07

2015.06.07

2014.06.08

1 year

1 year

1 year

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equ	uipment
--------------------	---------

i tuule	ation rest equi	JIIICIIL					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.06	2015.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2014.06.07	2015.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	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	EM	EM-AH-101 80	2011071402	2014.07.06	2015.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year
Cond	Conduction Test equipment						
Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receive	er R&S	ESCI	101160	2014.06.06	2015.06.05	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxia Switch	l Anritsu	MP59B	6200264417	2014.06.07	2015.06.06	1 year

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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	(dBuV)	Standard
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Stanuaru
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



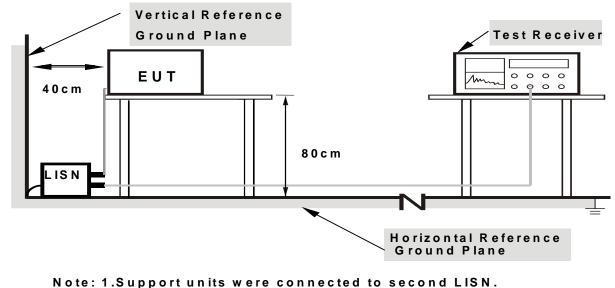
3.1.2 TEST PROCEDURE

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

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



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

					JC-B005	
EUT:	Heart rate bra	acelet		Model Name.		
Temperature :	26 ℃		Relative F	lumidity :	56% L	
Pressure :	1010hPa	Adapter	Phase :			
Test Voltage : DC 5.0V form Adapter AC 120V/60Hz			Test Mode	9:	Mode 4	
	Motor	1			[
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
0.1620	45.94	9.62	55.56	65.36	-9.80	peak
0.1620	32.02	9.62	41.64	55.36	-13.72	AVG
0.3140	35.65	9.51	45.16	59.86	-14.70	peak
0.3140	21.41	9.51	30.92	49.86	-18.94	AVG
0.6300	40.47	9.53	50.00	56.00	-6.00	peak
0.6300	25.47	9.53	35.00	46.00	-11.00	AVG
1.9020	44.22	9.57	53.79	56.00	-2.21	peak
1.9020	28.45	9.57	38.02	46.00	-7.98	AVG
3.9180	39.49	9.59	49.08	56.00	-6.92	peak
3.9180	25.11	9.59	34.70	46.00	-11.30	AVG
11.1299	42.75	9.76	52.51	60.00	-7.49	peak
11.1299	31.54	0.76	44.00		0.70	AVG
Remark:	01.01	9.76	41.30	50.00	-8.70	AVG
Remark: 1. All readings ar 2. Factor = Insert 100.0 dBuV	e Quasi-Peak a	nd Average		50.00	Limi	i:]
1. All readings ar 2. Factor = Insert	e Quasi-Peak a	nd Average			I	
1. All readings and 2. Factor = Insert	e Quasi-Peak a	nd Average		50.00	Limi	i:]



0.5

-20

0.150

30.000

EUT :		Heart rate bracelet			me. :	JC-B005	
Temperature :	26 ℃	26 °C			Relative Humidity : 5		
Pressure :	1010hPa		F	Phase :		N	
Test Voltage :	DC 5.0V form AC 120V/60H		7	Test Mode	;:	Mode 4	
Frequency	Meter Reading	Factor	Emissi	ion Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(d	BμV)	(dBµV)	(dB)	
0.1620	47.07	9.62	5	6.69	65.36	-8.67	peak
0.1620	27.54	9.62	3.	7.16	55.36	-18.20	AVG
0.2420	36.48	9.50	4	5.98	62.03	-16.05	peak
0.2420	20.44	9.50	20	9.94	52.03	-22.09	AVG
0.4020	35.51	9.52	4/	5.03	57.81	-12.78	peak
0.4020	19.77	9.52	20	9.29	47.81	-18.52	AVG
0.6460	34.94	9.53	4,	4.47	56.00	-11.53	peak
0.6460	20.54	9.53	3	0.07	46.00	-15.93	AVG
1.9340	37.45	9.57	4	7.02	56.00	-8.98	peak
1.9340	23.53	9.57	3	3.10	46.00	-12.90	AVG
12.8019	42.50	9.80	5	2.30	60.00	-7.70	peak
12.8019	32.64	9.80	4	2.44	50.00	-7.56	AVG
Remark: 1. All readings are 2. Factor = Inserti 100.0 dBuv		Ų.	values	».			
						Limi	_
40 X X X X X X X X X X X X X							

(MHz)

5

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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)		
FREQUENCT (MILZ)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

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

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

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

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 / <i>10Hz</i> 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

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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 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.
- 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

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	1 MHz
Above 1000	Peak	1 MHz	10 Hz

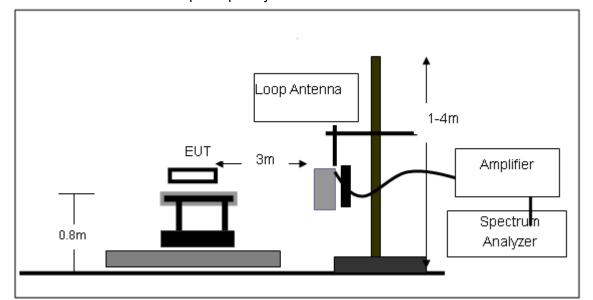
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

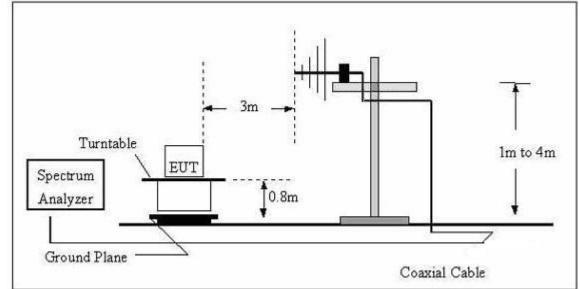


3.2.4 TEST SETUP

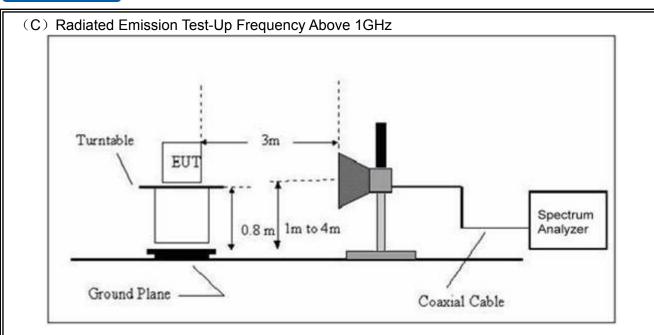
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 (BETWEEN 9KHZ - 30 MHZ)

EUT:	Heart rate bracelet	Model Name. :	JC-B005
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	ТХ	Polarization :	

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

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 30MHZ - 1GHZ)

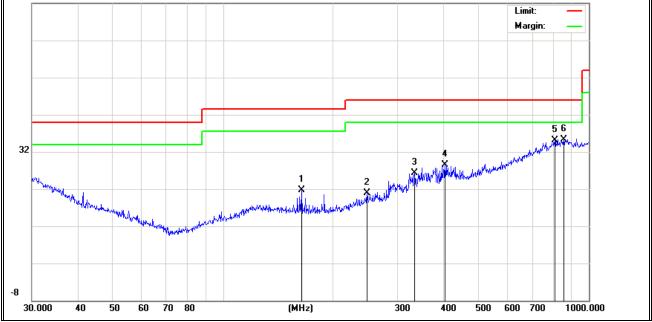
EUT :	Heart rate bracelet	Model Name :	JC-B005
Temperature :	20 ℃	Relative Humidity :	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	ТХ		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Remark
V	163.7548	11.21	10.51	21.72	43.50	-21.78	QP
V	247.6819	7.25	13.57	20.82	46.00	-25.18	QP
V	333.6865	10.74	15.56	26.30	46.00	-19.70	QP
V	404.6664	10.11	18.40	28.51	46.00	-17.49	QP
V	807.4289	7.64	27.38	35.02	46.00	-10.98	QP
V	854.0247	8.13	27.21	35.34	46.00	-10.66	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit







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Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	51.6613	4.77	10.22	14.99	40.00	-25.01	QP
Н	162.0414	8.32	10.50	18.82	43.50	-24.68	QP
Н	189.0741	9.20	10.70	19.90	43.50	-23.60	QP
Н	324.4560	9.74	15.18	24.92	46.00	-21.08	QP
Н	807.4289	6.76	27.38	34.14	46.00	-11.86	QP
Н	900.1472	7.19	27.01	34.20	46.00	-11.80	QP
	e Level= Readin	ngLevel+ Fac	tor, Margin	= Absolute Le	vel - Limit		
						Limit: ·	
-8	Not the second s	Markan water and a second and a s	2 × ,	3 X MMMMMMMMMMMMMMM	*	5 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	6 Жалдан
30.000	40 50 60	70 80	(MHz)	30	0 400 500	600 700 1	000.000



3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	Heart rate bracelet	Model Name :	JC-B005
Temperature :	20 ℃	Relative Humidity :	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	ТХ		

Low Channel (2402 MHz)-Above 1G 4804.237 63.33 -3.64 59.69 74 -14.31 Pk Vertical 4804.237 46.32 -3.64 42.68 54 -11.32 AV Vertical 7206.088 54.17 -0.95 53.22 74 -20.78 Pk Vertical 7206.088 45.57 -0.95 44.62 54 -9.38 AV Vertical 4804.106 67.63 -3.64 63.99 74 -10.01 Pk Horizontal 4804.106 53.46 -3.64 49.82 54 -4.18 AV Horizontal 7206.813 56.77 -0.96 55.81 74 -18.19 Pk Horizontal 7206.813 47.58 -0.96 46.62 54 -7.38 AV Horizontal Mid Channel (2440 MHz)-Above 1G Mid Channel (2440 MHz)-Above 1G 4880.000 46.58 -0.82 54.92 74 -19.08 Pk Vertical 7320.000	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark	Polar (H/V)
4804.237 46.32 -3.64 42.68 54 -11.32 AV Vertical 7206.088 54.17 -0.95 53.22 74 -20.78 Pk Vertical 7206.088 45.57 -0.95 44.62 54 -9.38 AV Vertical 4804.106 67.63 -3.64 63.99 74 -10.01 Pk Horizontal 4804.106 53.46 -3.64 49.82 54 -4.18 AV Horizontal 7206.813 56.77 -0.96 55.81 74 -18.19 Pk Horizontal 7206.813 47.58 -0.96 46.62 54 -7.78 AV Horizontal 7206.813 47.58 -0.96 46.62 54 -7.88 AV Horizontal 7206.813 47.58 -0.96 46.62 54 -7.88 AV Vertical 7206.813 47.58 -0.82 54.92 74 -10.55 Pk Vertical								
7206.088 54.17 -0.95 53.22 74 -20.78 Pk Vertical 7206.088 45.57 -0.95 44.62 54 -9.38 AV Vertical 4804.106 67.63 -3.64 63.99 74 -10.01 Pk Horizontal 4804.106 53.46 -3.64 49.82 54 -4.18 AV Horizontal 7206.813 56.77 -0.96 55.81 74 -18.19 Pk Horizontal 7206.813 47.58 -0.96 46.62 54 -7.38 AV Horizontal 7206.813 47.58 -0.96 46.62 54 -7.38 AV Horizontal 7206.813 47.58 -0.96 44.68 54 -9.32 AV Vertical 7320.000 67.12 -3.67 63.45 74 -10.55 Pk Vertical 7320.000 55.74 -0.82 54.92 74 -19.08 Pk Horizontal <td>4804.237</td> <td>63.33</td> <td>-3.64</td> <td>59.69</td> <td>74</td> <td>-14.31</td> <td>Pk</td> <td>Vertical</td>	4804.237	63.33	-3.64	59.69	74	-14.31	Pk	Vertical
7206.088 45.57 -0.95 44.62 54 -9.38 AV Vertical 4804.106 67.63 -3.64 63.99 74 -10.01 Pk Horizontal 4804.106 53.46 -3.64 49.82 54 -4.18 AV Horizontal 7206.813 56.77 -0.96 55.81 74 -18.19 Pk Horizontal 7206.813 47.58 -0.96 46.62 54 -7.38 AV Horizontal 7206.813 47.58 -0.96 46.62 54 -7.38 AV Horizontal 7206.813 47.58 -0.96 46.62 54 -7.38 AV Horizontal 7206.813 47.58 -0.96 44.68 54 -9.32 AV Vertical 4880.000 67.12 -3.67 44.68 54 -9.32 AV Vertical 7320.000 55.74 -0.82 54.92 74 -19.08 Pk Horizontal <td>4804.237</td> <td>46.32</td> <td>-3.64</td> <td>42.68</td> <td>54</td> <td>-11.32</td> <td>AV</td> <td>Vertical</td>	4804.237	46.32	-3.64	42.68	54	-11.32	AV	Vertical
4804.106 67.63 -3.64 63.99 74 -10.01 Pk Horizontal 4804.106 53.46 -3.64 49.82 54 -4.18 AV Horizontal 7206.813 56.77 -0.96 55.81 74 -18.19 Pk Horizontal 7206.813 47.58 -0.96 46.62 54 -7.38 AV Horizontal 7206.813 47.58 -0.96 46.62 54 -7.38 AV Horizontal Wid Channel (2440 MHz)-Above 1G - - - 9.32 AV Vertical 4880.000 67.12 -3.67 63.45 74 -10.55 Pk Vertical 7320.000 55.74 -0.82 54.92 74 -19.08 Pk Vertical 7320.000 63.38 -3.67 59.71 74 -14.29 Pk Horizontal 7320.000 65.78 -0.82 55.96 74 -18.04 Pk Horizontal	7206.088	54.17	-0.95	53.22	74	-20.78	Pk	Vertical
4804.106 53.46 -3.64 49.82 54 -4.18 AV Horizontal 7206.813 56.77 -0.96 55.81 74 -18.19 Pk Horizontal 7206.813 47.58 -0.96 46.62 54 -7.38 AV Horizontal Mid Channel (2440 MHz)-Above 1G Mid Channel (2440 MHz)-Above 1G 4880.000 67.12 -3.67 63.45 74 -10.55 Pk Vertical 4880.000 48.35 -3.67 44.68 54 -9.32 AV Vertical 7320.000 55.74 -0.82 54.92 74 -19.08 Pk Vertical 7320.000 46.58 -0.82 45.76 54 -8.24 AV Vertical 7320.000 63.38 -3.67 59.71 74 -14.29 Pk Horizontal 7320.000 56.78 -0.82 55.96 74 -18.04 Pk Horizontal 7320.000	7206.088	45.57	-0.95	44.62	54	-9.38	AV	Vertical
7206.813 56.77 -0.96 55.81 74 -18.19 Pk Horizontal 7206.813 47.58 -0.96 46.62 54 -7.38 AV Horizontal Mid Charnel (2440 MHz)-Above 1G Wid Charnel (2440 MHz)-Above 1G 4880.000 67.12 -3.67 63.45 74 -10.55 Pk Vertical 4880.000 48.35 -3.67 44.68 54 -9.32 AV Vertical 7320.000 55.74 -0.82 54.92 74 -19.08 Pk Vertical 7320.000 46.58 -0.82 45.76 54 -8.24 AV Vertical 4880.000 63.38 -3.67 59.71 74 -14.29 Pk Horizontal 4880.000 47.76 -3.67 44.09 54 -9.91 AV Horizontal 7320.000 56.78 -0.82 55.96 74 -18.04 Pk Horizontal 7320.000	4804.106	67.63	-3.64	63.99	74	-10.01	Pk	Horizontal
7206.813 47.58 -0.96 46.62 54 -7.38 AV Horizontal Mid Channel (2440 MHz)-Above 1G 4880.000 67.12 -3.67 63.45 74 -10.55 Pk Vertical 4880.000 48.35 -3.67 44.68 54 -9.32 AV Vertical 7320.000 55.74 -0.82 54.92 74 -19.08 Pk Vertical 7320.000 46.58 -0.82 45.76 54 -8.24 AV Vertical 7320.000 46.58 -0.82 45.76 54 -8.24 AV Vertical 7320.000 63.38 -3.67 59.71 74 -14.29 Pk Horizontal 4880.000 47.76 -3.67 44.09 54 -9.91 AV Horizontal 7320.000 56.78 -0.82 47.54 54 -6.46 AV Horizontal 7320.000 48.36 -0.82 47.54 54	4804.106	53.46	-3.64	49.82	54	-4.18	AV	Horizontal
Mid Channel (2440 MHz)-Above 1G 4880.000 67.12 -3.67 63.45 74 -10.55 Pk Vertical 4880.000 48.35 -3.67 44.68 54 -9.32 AV Vertical 7320.000 55.74 -0.82 54.92 74 -19.08 Pk Vertical 7320.000 46.58 -0.82 45.76 54 -8.24 AV Vertical 7320.000 63.38 -3.67 59.71 74 -14.29 Pk Horizontal 4880.000 47.76 -3.67 44.09 54 -9.91 AV Horizontal 7320.000 56.78 -0.82 55.96 74 -18.04 Pk Horizontal 7320.000 56.78 -0.82 47.54 54 -6.46 AV Horizontal 7320.000 48.36 -0.82 47.54 54 -6.46 AV Horizontal 7320.000 55.14 -3.59 51.55 74	7206.813	56.77	-0.96	55.81	74	-18.19	Pk	Horizontal
4880.000 67.12 -3.67 63.45 74 -10.55 Pk Vertical 4880.000 48.35 -3.67 44.68 54 -9.32 AV Vertical 7320.000 55.74 -0.82 54.92 74 -19.08 Pk Vertical 7320.000 46.58 -0.82 45.76 54 -8.24 AV Vertical 7320.000 63.38 -3.67 59.71 74 -14.29 Pk Horizontal 4880.000 63.38 -3.67 44.09 54 -9.91 AV Horizontal 4880.000 47.76 -3.67 44.09 54 -9.91 AV Horizontal 7320.000 56.78 -0.82 55.96 74 -18.04 Pk Horizontal 7320.000 48.36 -0.82 47.54 54 -6.46 AV Horizontal 4960.000 55.14 -3.59 51.55 74 -22.45 Pk Vertical	7206.813	47.58	-0.96	46.62	54	-7.38	AV	Horizontal
4880.000 48.35 -3.67 44.68 54 -9.32 AV Vertical 7320.000 55.74 -0.82 54.92 74 -19.08 Pk Vertical 7320.000 46.58 -0.82 45.76 54 -8.24 AV Vertical 7320.000 63.38 -3.67 59.71 74 -14.29 Pk Horizontal 4880.000 63.38 -3.67 59.71 74 -14.29 Pk Horizontal 4880.000 47.76 -3.67 44.09 54 -9.91 AV Horizontal 7320.000 56.78 -0.82 55.96 74 -18.04 Pk Horizontal 7320.000 48.36 -0.82 47.54 54 -6.46 AV Horizontal High Channel (2480MHz)- Above 1G -22.45 Pk Vertical 4960.000 46.37 -3.59 42.78 54 -11.22 AV Vertical 7440.000 54.48	Mid Channel (2440 MHz)-Above 1G							
1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 10000000 1000000000 100000000000 1000000000000000000000000000000000000	4880.000	67.12	-3.67	63.45	74	-10.55	Pk	Vertical
Notice Note <	4880.000	48.35	-3.67	44.68	54	-9.32	AV	Vertical
4880.000 63.38 -3.67 59.71 74 -14.29 Pk Horizontal 4880.000 47.76 -3.67 44.09 54 -9.91 AV Horizontal 7320.000 56.78 -0.82 55.96 74 -18.04 Pk Horizontal 7320.000 48.36 -0.82 47.54 54 -6.46 AV Horizontal 7320.000 48.36 -0.82 47.54 54 -6.46 AV Horizontal 7320.000 48.36 -0.82 47.54 54 -6.46 AV Horizontal 740.000 55.14 -3.59 51.55 74 -22.45 Pk Vertical 4960.000 46.37 -3.59 42.78 54 -11.22 AV Vertical 7440.000 54.48 -0.68 53.8 74 -20.2 Pk Vertical 4960.000 64.42 -3.59 60.83 74 -13.17 Pk Horizontal <td>7320.000</td> <td>55.74</td> <td>-0.82</td> <td>54.92</td> <td>74</td> <td>-19.08</td> <td>Pk</td> <td>Vertical</td>	7320.000	55.74	-0.82	54.92	74	-19.08	Pk	Vertical
4880.000 47.76 -3.67 44.09 54 -9.91 AV Horizontal 7320.000 56.78 -0.82 55.96 74 -18.04 Pk Horizontal 7320.000 48.36 -0.82 47.54 54 -6.46 AV Horizontal 7320.000 48.36 -0.82 47.54 54 -6.46 AV Horizontal High Channel (2480MHz)- Above 1G Horizontal -3.59 51.55 74 -22.45 Pk Vertical 4960.000 46.37 -3.59 42.78 54 -11.22 AV Vertical 7440.000 54.48 -0.68 53.8 74 -20.2 Pk Vertical 4960.000 46.34 -0.68 45.66 54 -8.34 AV Vertical 4960.000 64.42 -3.59 60.83 74 -13.17 Pk Horizontal 4960.000 64.42 -3.59 40.94 54 -13.06 AV	7320.000	46.58	-0.82	45.76	54	-8.24	AV	Vertical
7320.000 56.78 -0.82 55.96 74 -18.04 Pk Horizontal 7320.000 48.36 -0.82 47.54 54 -6.46 AV Horizontal High Channel (2480MHz)- Above 1G High Channel (2480MHz)- Above 1G Vertical 4960.000 55.14 -3.59 51.55 74 -22.45 Pk Vertical 4960.000 46.37 -3.59 42.78 54 -11.22 AV Vertical 7440.000 54.48 -0.68 53.8 74 -20.2 Pk Vertical 7440.000 46.34 -0.68 45.66 54 -8.34 AV Vertical 4960.000 64.42 -3.59 60.83 74 -13.17 Pk Horizontal 4960.000 64.42 -3.59 40.94 54 -13.06 AV Horizontal 4960.000 57.63 -0.68 56.95 74 -17.05 Pk Horizontal	4880.000	63.38	-3.67	59.71	74	-14.29	Pk	Horizontal
7320.000 48.36 -0.82 47.54 54 -6.46 AV Horizontal High Channel (2480MHz)- Above 1G 4960.000 55.14 -3.59 51.55 74 -22.45 Pk Vertical 4960.000 46.37 -3.59 42.78 54 -11.22 AV Vertical 7440.000 54.48 -0.68 53.8 74 -20.2 Pk Vertical 7440.000 46.34 -0.68 45.66 54 -8.34 AV Vertical 4960.000 44.53 -3.59 40.94 54 -13.17 Pk Horizontal 4960.000 64.42 -3.59 40.94 54 -13.06 AV Horizontal 4960.000 57.63 -0.68 56.95 74 -17.05 Pk Horizontal	4880.000	47.76	-3.67	44.09	54	-9.91	AV	Horizontal
High Channel (2480MHz)- Above 1G 4960.000 55.14 -3.59 51.55 74 -22.45 Pk Vertical 4960.000 46.37 -3.59 42.78 54 -11.22 AV Vertical 7440.000 54.48 -0.68 53.8 74 -20.2 Pk Vertical 7440.000 46.34 -0.68 45.66 54 -8.34 AV Vertical 7440.000 64.42 -3.59 60.83 74 -13.17 Pk Horizontal 4960.000 64.42 -3.59 60.83 74 -13.06 AV Horizontal 4960.000 57.63 -0.68 56.95 74 -17.05 Pk Horizontal	7320.000	56.78	-0.82	55.96	74	-18.04	Pk	Horizontal
4960.00055.14-3.5951.5574-22.45PkVertical4960.00046.37-3.5942.7854-11.22AVVertical7440.00054.48-0.6853.874-20.2PkVertical7440.00046.34-0.6845.6654-8.34AVVertical4960.00064.42-3.5960.8374-13.17PkHorizontal4960.00044.53-3.5940.9454-13.06AVHorizontal7440.00057.63-0.6856.9574-17.05PkHorizontal	7320.000	48.36	-0.82	47.54	54	-6.46	AV	Horizontal
4960.000 46.37 -3.59 42.78 54 -11.22 AV Vertical 7440.000 54.48 -0.68 53.8 74 -20.2 Pk Vertical 7440.000 46.34 -0.68 45.66 54 -8.34 AV Vertical 7440.000 64.42 -3.59 60.83 74 -13.17 Pk Horizontal 4960.000 64.42 -3.59 60.83 74 -13.06 AV Horizontal 4960.000 57.63 -0.68 56.95 74 -17.05 Pk Horizontal			High Cha	nnel (2480MHz)- Above 1C	6		
7440.000 54.48 -0.68 53.8 74 -20.2 Pk Vertical 7440.000 46.34 -0.68 45.66 54 -8.34 AV Vertical 4960.000 64.42 -3.59 60.83 74 -13.17 Pk Horizontal 4960.000 44.53 -3.59 40.94 54 -13.06 AV Horizontal 7440.000 57.63 -0.68 56.95 74 -17.05 Pk Horizontal	4960.000	55.14	-3.59	51.55	74	-22.45	Pk	Vertical
7440.000 46.34 -0.68 45.66 54 -8.34 AV Vertical 4960.000 64.42 -3.59 60.83 74 -13.17 Pk Horizontal 4960.000 44.53 -3.59 40.94 54 -13.06 AV Horizontal 7440.000 57.63 -0.68 56.95 74 -17.05 Pk Horizontal	4960.000	46.37	-3.59	42.78	54	-11.22	AV	Vertical
4960.000 64.42 -3.59 60.83 74 -13.17 Pk Horizontal 4960.000 44.53 -3.59 40.94 54 -13.06 AV Horizontal 7440.000 57.63 -0.68 56.95 74 -17.05 Pk Horizontal	7440.000	54.48	-0.68	53.8	74	-20.2	Pk	Vertical
4960.00044.53-3.5940.9454-13.06AVHorizontal7440.00057.63-0.6856.9574-17.05PkHorizontal	7440.000	46.34	-0.68	45.66	54	-8.34	AV	Vertical
7440.000 57.63 -0.68 56.95 74 -17.05 Pk Horizontal	4960.000	64.42	-3.59	60.83	74	-13.17	Pk	Horizontal
	4960.000	44.53	-3.59	40.94	54	-13.06	AV	Horizontal
7440.000 46.23 -0.68 45.55 54 -8.45 AV Horizontal	7440.000	57.63	-0.68	56.95	74	-17.05	Pk	Horizontal
	7440.000	46.23	-0.68	45.55	54	-8.45	AV	Horizontal
lemark:	Remark:							
\bsolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit	Absolute Lev	el= ReadingLe	vel+ Facto	or, Margin= Abs	olute Level	- Limit		

4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

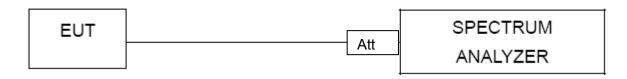
4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. 3 kHz ≤Set the RBW≤100 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

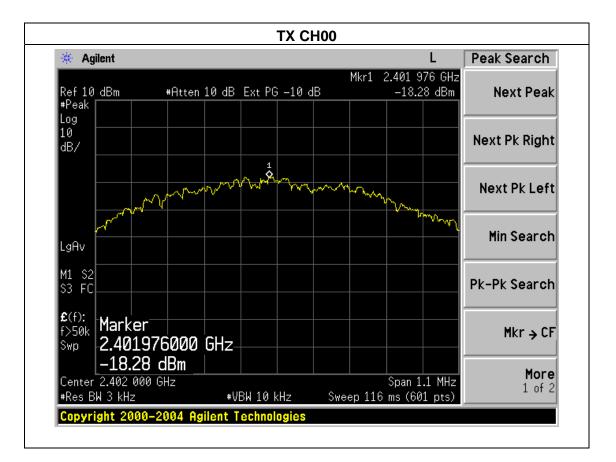
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.



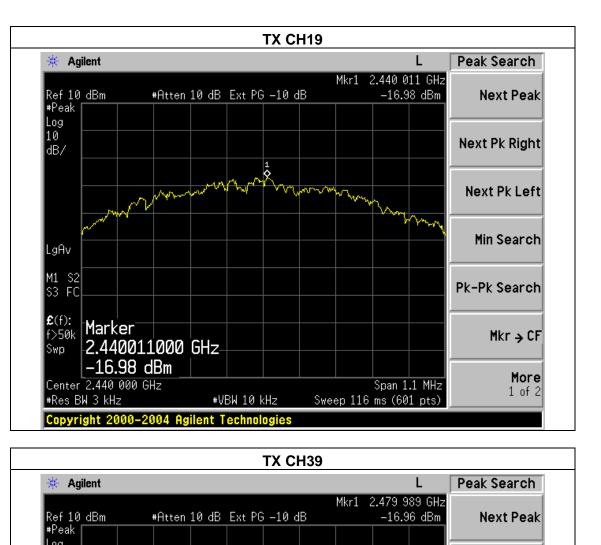
4.1.5 TEST RESULTS

EUT :	Heart rate bracelet	Model Name :	JC-B005
Temperature :	25 ℃	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH00, CH19, CH39		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2402 MHz	-18.28	8	PASS
2440 MHz	-16.98	8	PASS
2480 MHz	-16.96	8	PASS







Log 10 dB/ Next Pk Right 4 Next Pk Left Yr. m Min Search LgAv M1 S2 S3 FC Pk-Pk Search **£**(f): Marker f>50k Mkr → CF 2.479989000 GHz Swp -16.96 dBm More Center 2.480 000 GHz Span 1.1 MHz 1 of 2 #Res BW 3 kHz #VBW 10 kHz Sweep 116 ms (601 pts) Copyright 2000-2004 Agilent Technologies

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

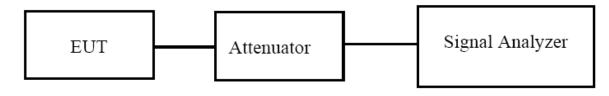
FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS		

5.1.1 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



5.1.2 EUT OPERATION CONDITIONS

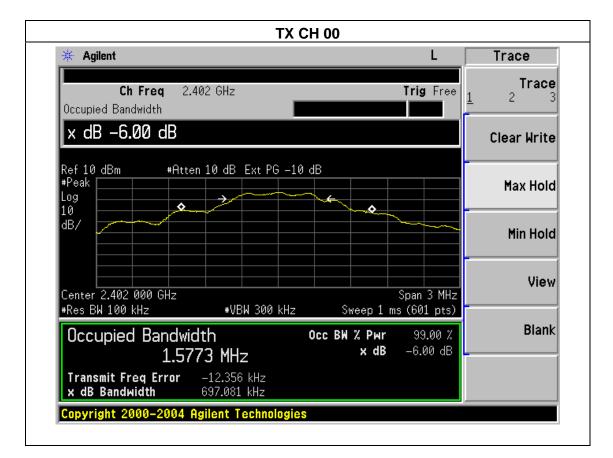
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



5.1.3 TEST RESULTS

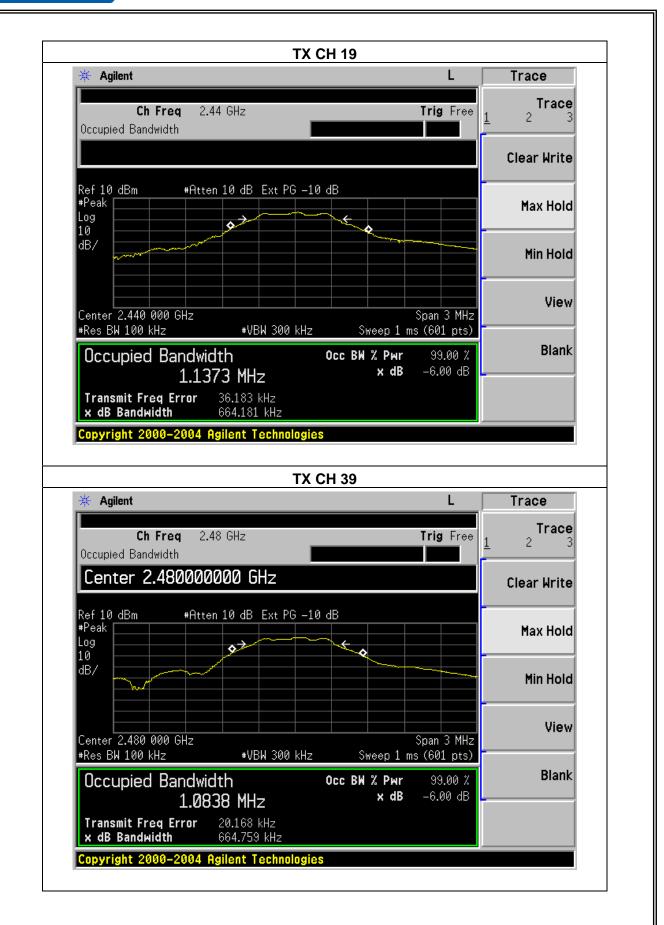
EUT :	Heart rate bracelet	Model Name :	JC-B005
Temperature :	25 ℃	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode /CH00, CH19, CH39		

Channel	Frequency (MHz)	6dB bandwidth (kHz)	Limit (kHz)	Result	
Low	2402	697.081	500	Pass	
Middle	2440	664.181	500	Pass	
High	2480	664.759	500	Pass	





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6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS		

6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT POWER METER			
	EUT	POWER	METER

6.1.4 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.



6.1.5 TEST RESULTS

EUT :	Heart rate bracelet	Model Name :	JC-B005
Temperature :	25 ℃	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode		

Test Channe	Frequency	Maximum Conducted Output Power(PK)	LIMIT
	(MHz)	(dBm)	dBm
CH00	2402	-3.34	30
CH19	2440	-3.12	30
CH39	2480	-3.34	30



7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

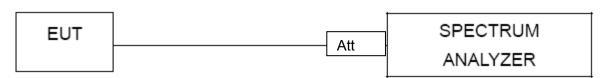
TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level.
 Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.

7.2 TEST SETUP



7.3 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.



7.4 TEST RESULTS

EUT :	Heart rate bracelet	Model Name :	JC-B005
Temperature :	25 ℃	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V

Frequency (MHz)	Delta Peak to band emission (dBc)	>Limit (dBc)	Result
2400	38.40	20	Pass
2483.5	50.09	20	Pass

Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
2390	44.87	-13.06	31.81	74	-42.19	peak	Vertical
2390	46.02	-13.06	32.96	74	-41.04	peak	Horizontal
2483.5	48.77	-12.78	35.99	74	-38.01	peak	Vertical
2483.5	48.06	-12.78	35.28	74	-38.72	peak	Horizontal

Note: Test method to see chapter 3.2. When PK value is lower than the Average value limit, average not record.

Min Hold

View

Blank

Span 10 MHz

Amplitude -3.41 dBm -50.09 dB

#Sweep 1 ms (601 pts)







Type Freq Freq #VBW 300 kHz

X Axis 2.479 77 GHz 3.75 MHz

LgAv

Center 2.483 50 GHz

Trace (1) (1)

#Res BW 100 kHz

Marker 1R

1۵



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

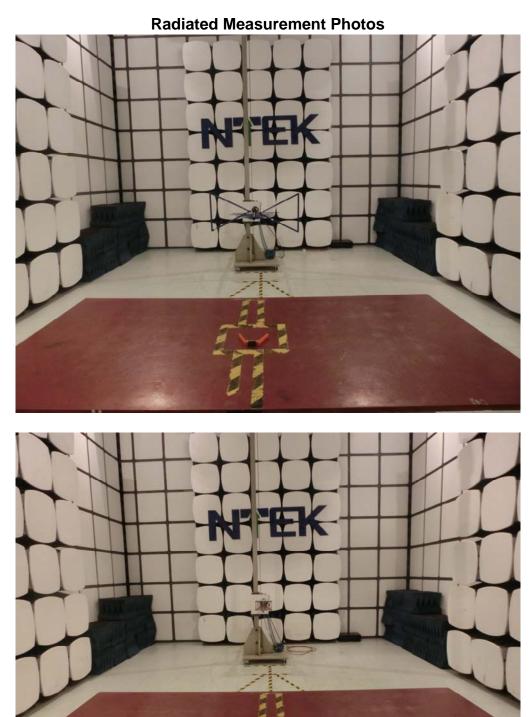
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

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



9. EUT TEST PHOTO





Conducted Measurement Photos

