





Report No: File reference No:	FCC 1507164-02 2015-07-30
Applicant:	Shenzhen Jingwah Information Technology Co., Ltd.
Product:	Wireless Activity Tracker
Model No:	B1, SIT50
Trademark:	Shaper Image
Test Standards:	FCC Part 15 Subpart C, Paragraph 15.247
Test result:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10,FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated:

July 30, 2015

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

# SHENZHEN TIMEWAY TESTING LABORATORIES

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timewaytech.com



## **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

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

## CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

## FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

## IC- Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

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## 1.0 General Details

#### 1.1 Test Lab Details

Name :SHENZHEN TIMEWAY TESTING LABORATORIES.Address:Room 512-519,5/F., East Tower,Building 4, Anhua Industrial Zone, Futian District,Shenzhen,<br/>Guangdong ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission – United SatesRegistration Number:899988For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada Registration Number: IC: 5205A-02 For 3m & 10 m OATS

#### 1.2 Applicant Details

Applicant:Shenzhen Jingwah Information Technology Co., Ltd.Address:4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen, ChinaTelephone:0755-83976295Fax:0755-83204874

### 1.3 Description of EUT

Product: Wireless Activity Tracker													
Manufacturer:		She	nzhe	en Jin	gv	wah Info	rmation '	Techno	ology Co	o., Ltd.			
Address:		4F,	Blo	lg 4,	J	Jinghua	Square,	No.1	Huafa	North	Road,	Futian	District,
		She	nzhe	en, Cl	nir	na							
Brand Name:		Sha	per	Image	Э								
Additional Brand Name:		N/A											
Model Number:		B1											
Additional Model Numbe	er: SIT	50											
Type of Modulation	GFSI	К(В	luet	ooth	BI	LE)							
Frequency range	2402	-2480	OMF	Ηz									
Frequency Selection	By so	oftwa	re										
Channel Number	40												

#### 1.4 Submitted Sample: 2 Samples

#### 1.5 Test Duration

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2015-07-21 to 2015-07-30

- 1.6 Test Uncertainty Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB
- 1.7 Test Engineer

Terry lang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2014-08-21	2015-08-20
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2014-08-22	2015-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2014-08-22	2015-08-21
Ultra Broadband ANT	R&S	HL562	100157	2014-08-23	2015-08-22
ESDV Test Receiver	R&S	ESDV	100008	2014-08-22	2015-08-21
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2014-08-21	2015-08-20
System Controller	СТ	SC100	-		
Printer	EPSON	PHOTO EX3	CFNH234850		
Computer	IBM	8434	1S8434KCE99BLXLO*	-	-
Loop Antenna	EMCO	6502	00042960	2014-08-22	2015-08-21
ESPI Test Receiver	R&S	ESI26	838786/013	2014-08-22	2015-08-21
3m OATS			N/A	2014-08-21	2015-08-20
Horn Antenna	R&S	BBHA 9170	BBHA9170265	2014-08-23	2015-08-22
Horn Antenna	R&S	BBHA 9120D	9120D-631	2014-08-23	2015-08-22
Power meter	Anritsu	ML2487A	6K00003613	2014-08-22	2015-08-21
Power sensor	Anritsu	MA2491A	32263	2014-08-22	2015-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2014-08-23	2015-08-22
LISN	AFJ	LS16C	10010947251	2014-08-21	2015-08-20
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2014-08-22	2015-08-21
9*6*6 Anechoic			N/A	2014-08-21	2015-08-20
EMI Test Receiver	RS	ESCS30	100139	2014-08-22	2015-08-21

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#### **3.0** Technical Details

## 3.1 Summary of test results

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

## 3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247 and ANSI C63.10–2013 & ANSI C63.4-2014

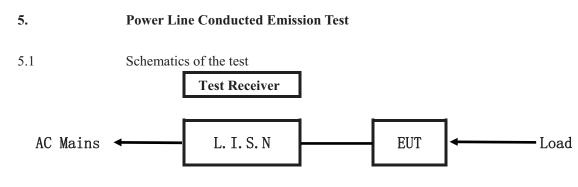
#### 4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

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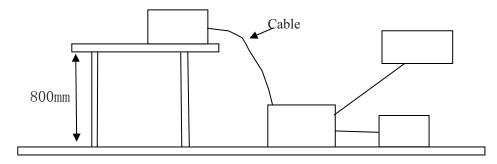
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10–2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.10–2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10–2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EU	T
-------	---

Device	Manufacturer	Model	FCC ID/IC	
Wireless Activity Tracker	Shenzhen Jingwah Information	B1. SIT50	RBD-B1	
whereas Activity Hacker	Technology Co., Ltd.	D1, 51150	KDD-D1	

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10–2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

### 5.5 Power line conducted Emission Limit according to Paragraph 15.207 and 15.107

Frequency	Class A Lim	its (dB µ V)	Class B Limits (dB µ V)		
(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15~\sim~0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
$0.50~\sim~5.00$	73.0	60.0	56.0	46.0	
$5.00 \sim 30.00$	73.0	60.0	60.0	50.0	

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

## 5.6 Test Results

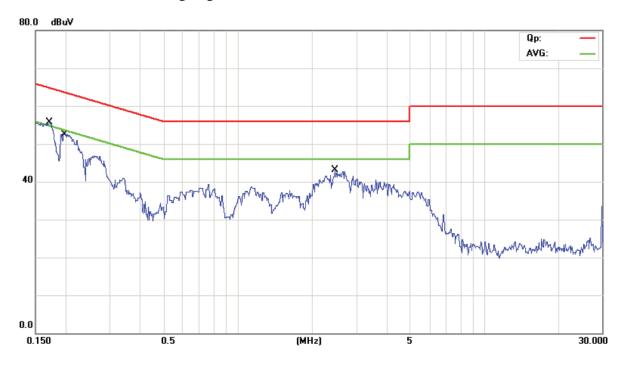
The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz) EUT Operating Environment Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa EUT set Condition: Charging and Keep Bluetooth Transmitting Equipment Level: Class B Results: PASS Please refer to following diagram for individual



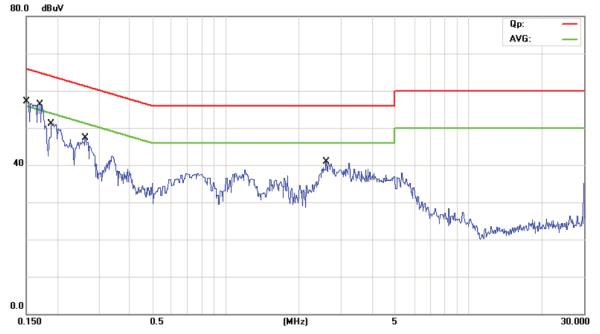
No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1718	41.60	11.02	52.62	64.87	-12.25	QP	
2	0.1718	11.60	11.02	22.62	54.87	-32.25	AVG	
3	0.1963	37.00	11.05	48.05	63.77	-15.72	QP	
4	0.1963	7.40	11.05	18.45	53.77	-35.32	AVG	
5	2.4623	24.60	12.48	37.08	56.00	-18.92	QP	
6	2.4623	0.60	12.48	13.08	46.00	-32.92	AVG	

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz) EUT Operating Environment Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa EUT set Condition: Charging and Keep Bluetooth Transmitting Equipment Level: Class B Results: Pass Please refer to following diagram for individual



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1517	43.10	11.00	54.10	65.91	-11.81	QP	
2	0.1517	10.90	11.00	21.90	55.91	-34.01	AVG	
3 *	0.1701	42.50	11.02	53.52	64.96	-11.44	QP	
4	0.1701	10.90	11.02	21.92	54.96	-33.04	AVG	
5	0.1910	33.00	11.04	44.04	63.99	-19.95	QP	
6	0.1910	4.40	11.04	15.44	53.99	-38.55	AVG	
7	0.2626	30.60	11.12	41.72	61.35	-19.63	QP	
8	0.2626	4.10	11.12	15.22	51.35	-36.13	AVG	
9	2.5870	22.40	12.53	34.93	56.00	-21.07	QP	
10	2.5870	-0.20	12.53	12.33	46.00	-33.67	AVG	

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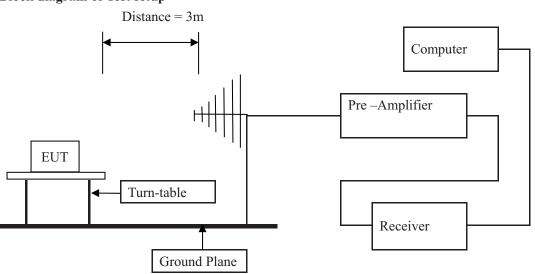
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#### 6 Radiated Emission Test

## 6.1 Test Method and test Procedure:

- The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10–2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.



Block diagram of Test setup

- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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## 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

### Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109 and RSS-210

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage  $(dBuV) = 20 \log RF$  Voltage (uV)

2. In the Above Table, the higher limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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## Test result General Radiated Emission Data and Harmonics Radiated Emission Data

## Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Charging and Keep Bluetooth Transmitting

**Results:** 

Pass

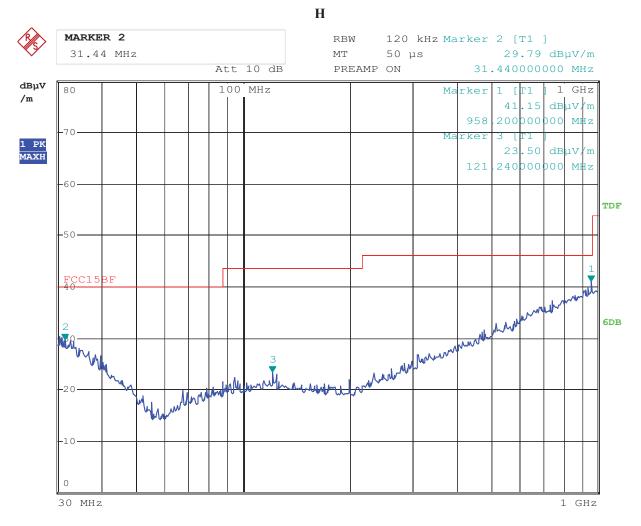
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
31.440	29.79	Н	40.00
958.200	41.15	Н	46.00
121.240	23.50	Н	43.50
104.640	24.98	V	43.50
958.240	40.75	V	46.00
31.920	29.68	V	40.00

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Test Figure:



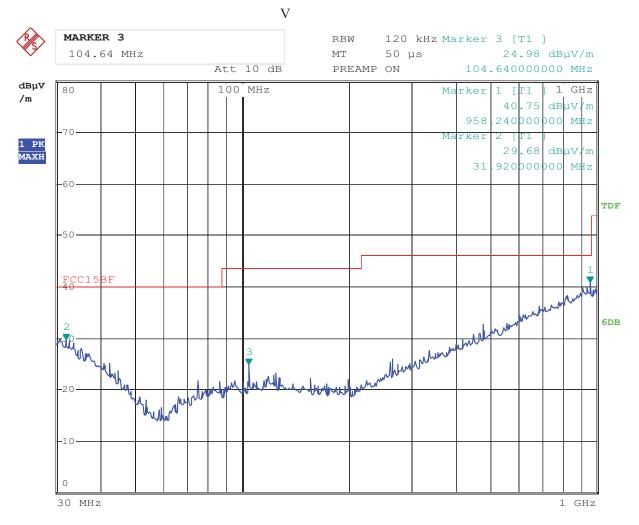
Date: 25.JUL.2015 10:19:17

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Test Figure:



Date: 25.JUL.2015 10:17:26

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8	( )	
Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
	H/V	74(Peak)/ 54(AV)
	Level@3m (dB µ V/m)	Level@3m (dB µ V/m) Antenna Polarity    H/V    H/V

#### **Operation Mode: Transmitting under Low Channel (2402MHz)**

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

Operation Mode: Transmitting g under Midule Channel (2440MIIZ)						
Frequency (MHz)	Level@3m (dB µ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)			
4880		H/V	74(Peak)/ 54(AV)			
7320		H/V	74(Peak)/ 54(AV)			
9760		H/V	74(Peak)/ 54(AV)			
12200		H/V	74(Peak)/ 54(AV)			
14640		H/V	74(Peak)/ 54(AV)			
17080		H/V	74(Peak)/ 54(AV)			
19520		H/V	74(Peak)/ 54(AV)			
21960		H/V	74(Peak)/ 54(AV)			
24400		H/V	74(Peak)/ 54(AV)			

## **Operation Mode: Transmitting g under Middle Channel (2440MHz)**

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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### **Operation Mode: Transmitting under High Channel (2480MHz)**

8 8	( )	
Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
	H/V	74(Peak)/ 54(AV)
	    	H/V    H/V

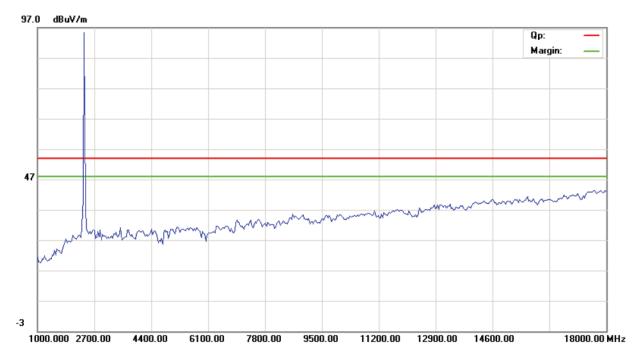
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit 2. Remark "---" means that the emissions level is too low to be measured

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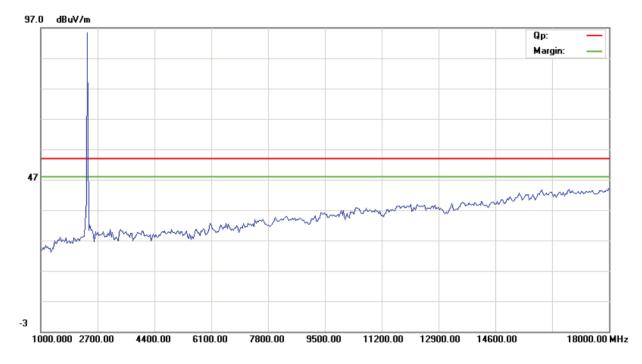
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Please refer to the following test plots for details: Low Channel: Horizontal



#### Low Channel : Vertical

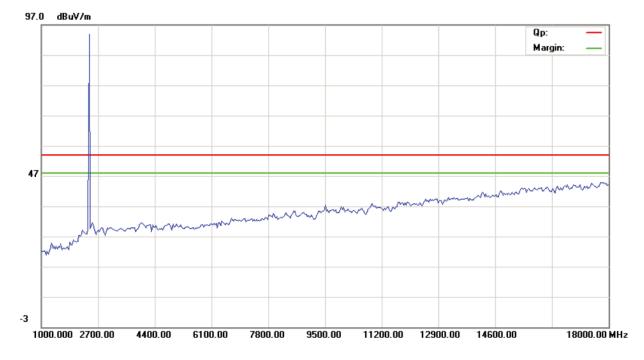


The report refers only to the sample tested and does not apply to the bulk.

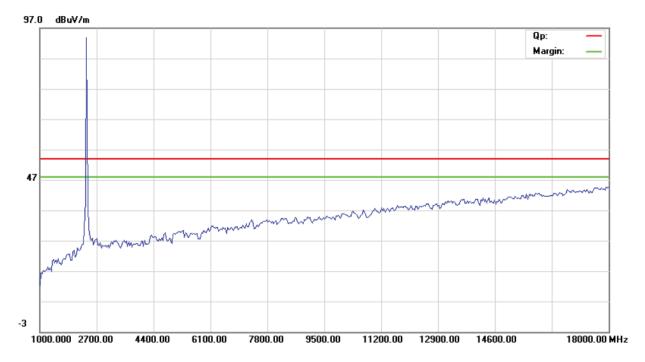
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Middle Channel : Vertical

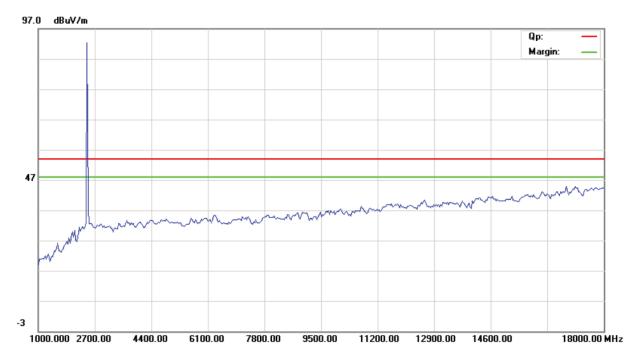


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#### **High Channel : Horizontal**







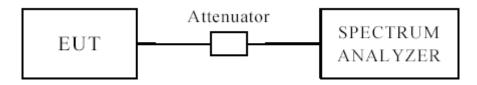
Note: for the radiated emissions above 18G, it is the floor noise.

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7.0 6dB Bandwidth Measurement 7.1 Test Setup



## 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

## 7.3 Test Procedure

- 1. Set resolution bandwidth (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.

## 7.4 Test Result

The report refers only to the sample tested and does not apply to the bulk.

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EUT		Wireless Ac	tivity Tracker	Mod	Model		B1, SIT50
Mode		Keep Tr	ansmitting	Input Voltage		DC3.7V	
Temperat	ure	24 d	leg. C,	Humidity			56% RH
Channel	Cha	nnel Frequency (MHz)	6 dB Bandwi (kHz)	dth		num Limit (kHz)	Pass/ Fail
Low		2402	727	0.5		0.5	Pass
Middle		2440	727		0.5		Pass
High		2480	733			0.5	Pass

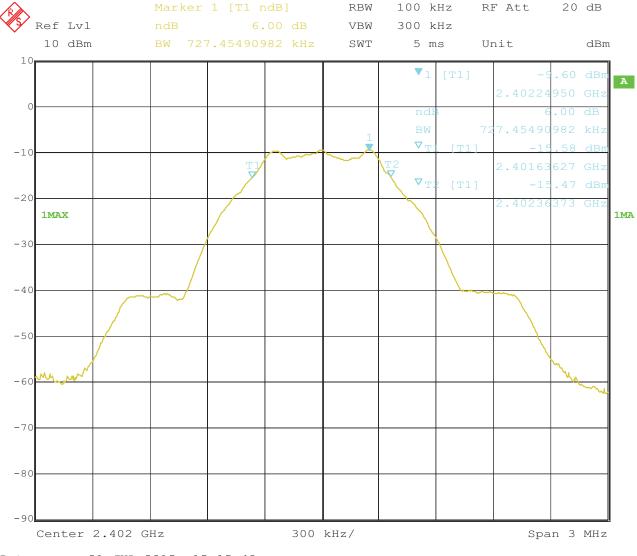
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## Test Figure:

## 1. Condition: Low Channel



Date:

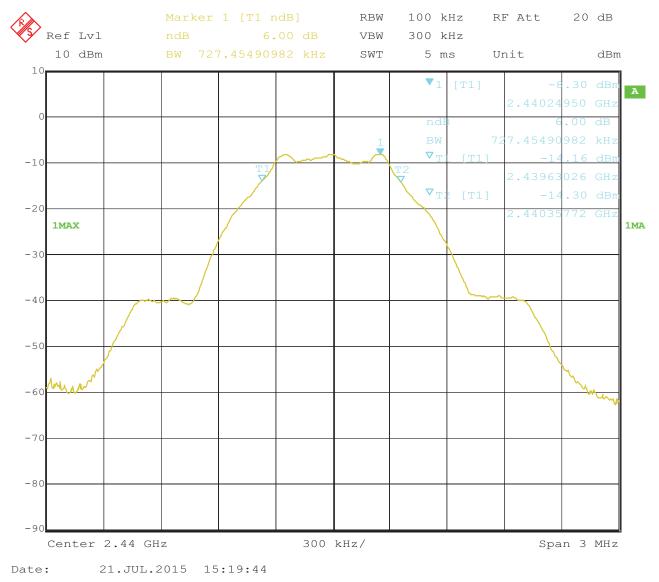
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#### 2. Condition: Middle Channel

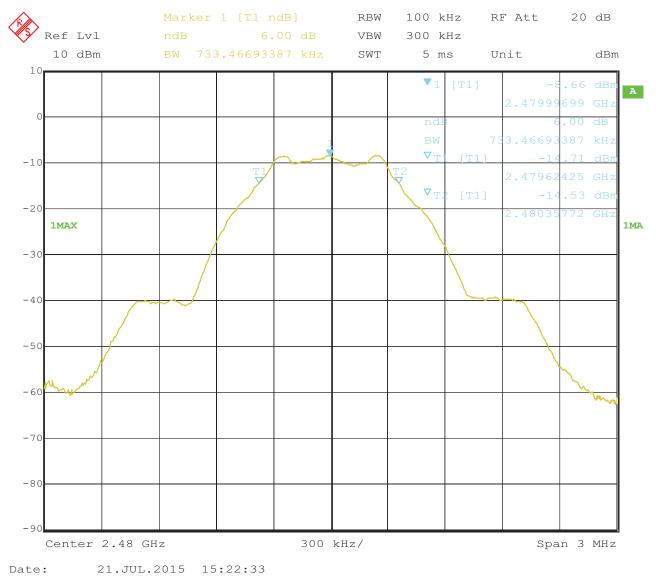


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#### 3. High Channel



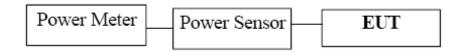
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8. Maximum Output Power

8.1 Test Setup



## 8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

### **8.3 Test Procedure**

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

## Note: the Peak power was measured.

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## **8.4Test Results**

EUT		Wireless Ac	Activity Tracker Mo		Model		SIT50
Mode		Кеер Ті	ansmitting Input Voltage DO		ansmitting Input Voltage		3.7V
Temperatu	re	24 0	leg. C, Humidity 56% RH		Humidity 56%		6 RH
Channel	Cł	nannel Frequency (MHz)	Max. Power C (dBm)			eak Power Limit (dBm)	Pass/ Fail
Low		2402	-9.27			30	Pass
Middle		2440	-7.67			30	Pass
High		2480	-7.86			30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

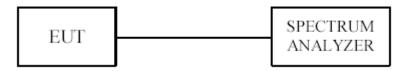
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## 9. Power Spectral Density Measurement

## 9.1 Test Setup



## 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

## 9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

- 2. Set the RBW = 10 kHz.
- 3. Set the VBW  $\geq$  30 kHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 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.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be  $\leq 8$  dBm.

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### 9.4Test Result

EUT	Wireless Activity Tracker		er	Model	B	1, SIT50
Mode		Keep Transmitting		Input Voltage	E	DC3.7V
Temperat	ure	24 deg. C,		Humidity	5	6% RH
Channel				al Power Spectral Density (dBm)	Maximum Limit (dBm)	Pass/ Fail
	Т			10.04	0	D
Low				-19.24	8	Pass
Middle				-17.65	8	Pass
High				-17.94	8	Pass

Note: The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss

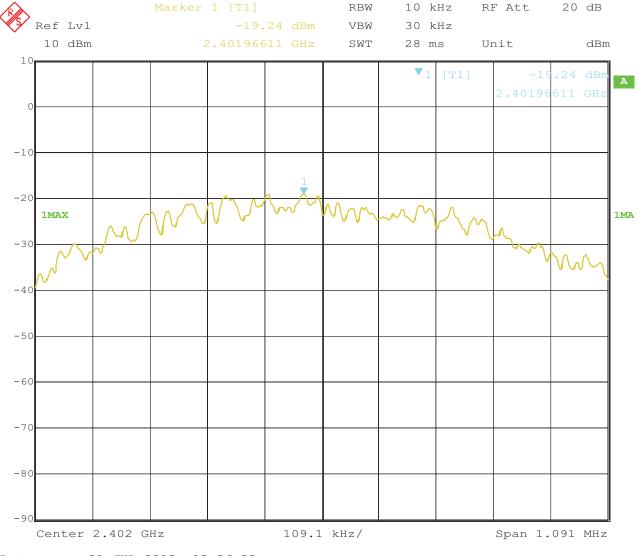
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## Test Figure:

## 1. Condition: Low Channel



Date:

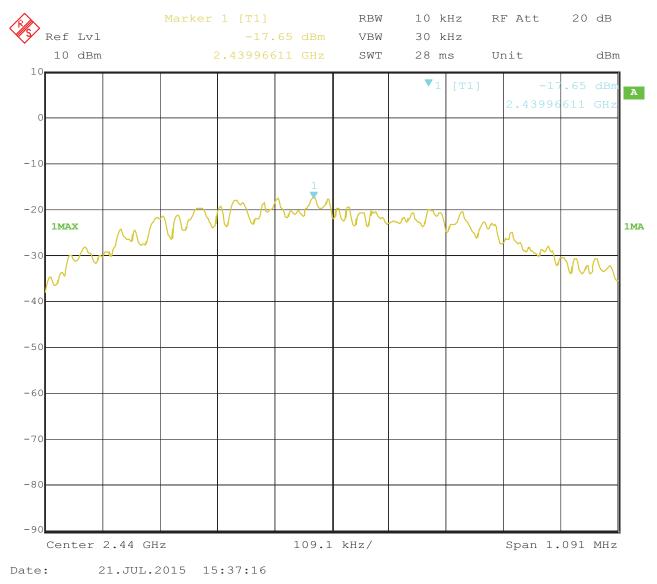
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#### 2. Condition: Middle Channel

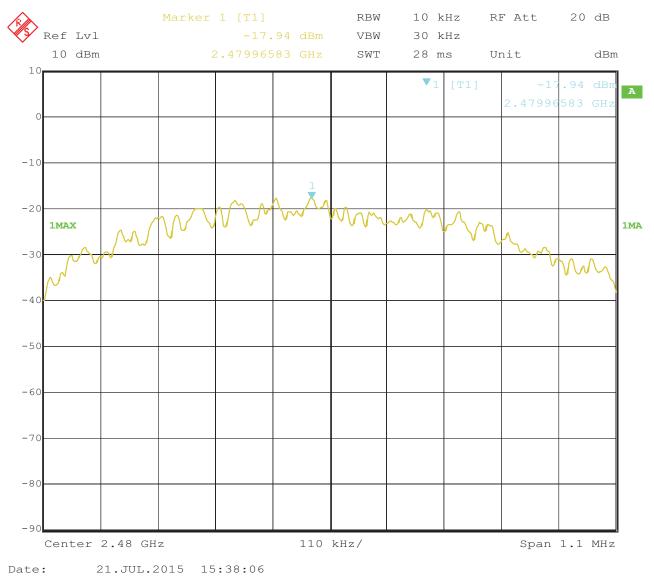


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#### 3. High Channel

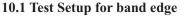


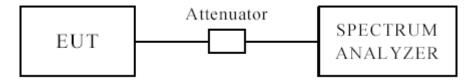
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10 Out of Band Measurement





## The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

## 10.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

## **10.3 Test Procedure**

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=VBW=100 kHz. A conducted measurement used

## 10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule. 2. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

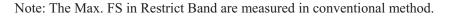
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## 10.4 Band-edge and Restricted band Measurement

10.4 Dallu-cuge						
EUT	Wireless Activ	Mod	lel	B1, SIT50		
Mode	Keep Transmitting		Input Voltage		DC3.7V	
Temperature	24 deg. C,		Humidity		56% RH	
Test Result:	Pas		Detector		P	РК
2400	PK (dBµV/m)	43.2			74(dB	μV/m)
	AV (dBµV/m)		Lim	11t	54(dB	μV/m)
2390	PK (dBµV/m)	37.5			74(dB	μV/m)
	AV (dBµV/m)		Lim	nit	54(dB	μV/m)
Fest Figure:					X	. ,
<pre>k</pre>	Marker 3	3 [T1]	RBW	100 kH	z RF Att	20 dB
Ref Lvl		-66.00 dB	m VBW	300 kH		
10 dBm	2.	.39000000 GH	z SWT	15 ms	Unit	dBm
10				▼3 [	[T1] -6	6.00 dBm
					2.3900	0000 GHz
0				▼1 [	[T1] -1	
				2 2	T11 2.4023	0461 GHz 4.79 dBm
-10					M	0000 GHz
-20 1MAX						1MZ
-30						
-40						
-50						
-60				3	2	N
her smaller	unn Montrie	un mul	mount	Monthe	whender	hendelader
-70						
-80						
-90 <b></b>			MHz/			2.41 GHz



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#### **10.4** Band-edge and Restricted band Measurement

EUT	Г	Tablet PC	Model	M900SG, M900G, L9 DC3.7V 56% RH			
Mode	Keepin	g Transmitting	Input Voltage				
Temperature	2	4 deg. C,	Humidity				
Test Result:	Pass		Detector	РК	РК		
2483.5	PK (dBµV/m)	40.9		74(dBµV	//m)		
	AV (dBµV/m)		Limit	54(dBµV	//m)		
est Figure:	I	I	1				
<b>A</b>	Marke	r 1 [T1]	RBW 100 kH	z RF Att 2	0 dB		
Ref Lvl		-8.85 dBm	VBW 300 kH				
10 dBm		2.47997996 GHz	SWT 7.5 ms	Unit	dBm		
			▼1	[T1] -8.8	5 dBm A		
0					6 GHz		
0			♥2	[T1] -66.9 2.48350000			
1.0				2.48330000	J GHZ		
-10							
-20 1MAX					1MA		
-30							
-40							
-50							
-60							
	لمديد أيدرد و	2	muluman				
-70	Mahamahan	winder	~ www.wharman	manuthante	would		
-80							
- 0 0							
-90 <b></b> Start 2	47 CH-	3 M	Hz /	Stop 2.			



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## 11.0 Antenna Requirement

## **11.1 Standard Applicable**

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

## 11.2 Antenna Connected construction

Ceramic Antenna and the maximum Gain of this antenna is 3.0dBi

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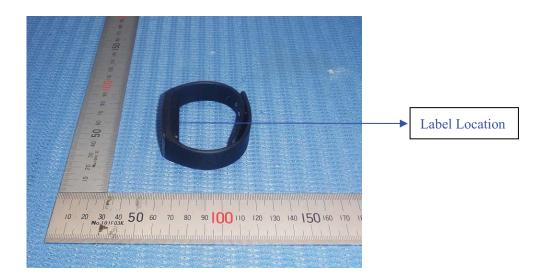
Page 38 of 46

### 12.0 FCC ID/IC Label

## FCC ID: RBD-B1

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

### Mark Location:



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#### 13.0 Photo of testing

Conducted Emission Test Setup:



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Radiated Emission Test Setup:



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## **Photographs – EUT**

Outside view



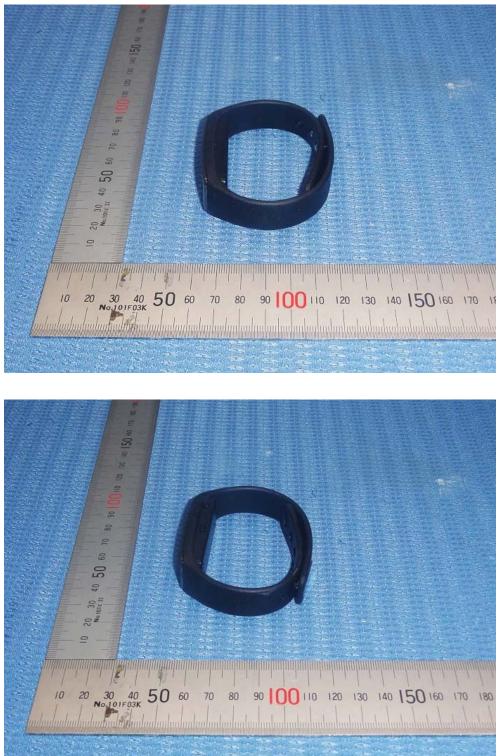
10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 1902

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Outside view



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Inside view



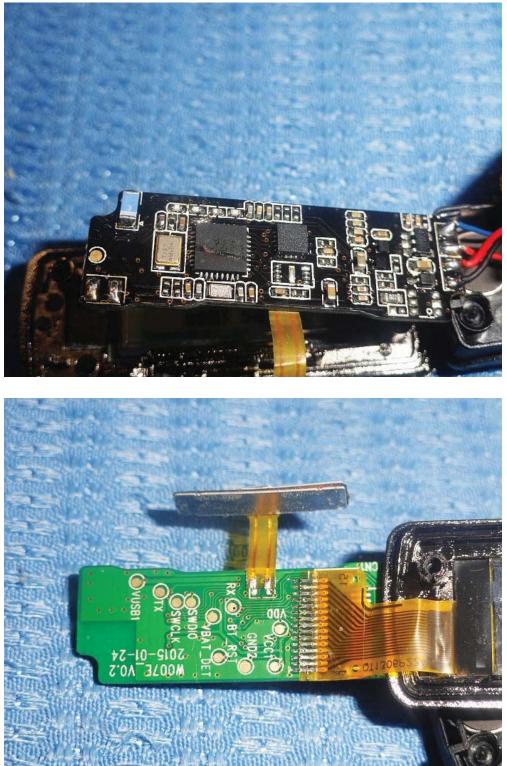
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Inside view



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Inside view



End of the report

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