APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
Shenzhen First Coating Technology Co., Ltd

Smart Bracelet
Model No.: F8, B15P, B15, S1, D2, H1, TALK, M8, M2, E07, E5, F9, H7

FCC ID: 2ALY5-F8

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Report No.	:	ATE20170457
Date of Test	:	April 18, 2017
Date of Report	:	April 25, 2017

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Test Report Certification

Applicant : Shenzhen First Coating Technology Co., Ltd

Manufacturer : Shenzhen First Coating Technology Co., Ltd

EUT Description : Smart Bracelet

(A) MODEL NO.: F8, B15P, B15, S1, D2, H1, TALK, M8, M2, E07, E5, F9, H7

(B) TRADE NAME.: dido

(C) POWER SUPPLY: DC 3.7V & DC 5V (Power by USB Port)

Measurement Procedure Used:

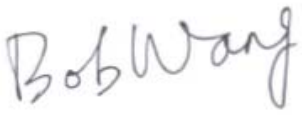
FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.10: 2013

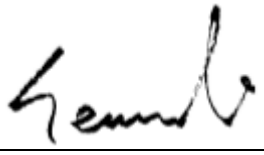
The EUT was tested according to DTS test procedure of KDB558074 D01 DTS Meas Guidance v03r03 June 2015 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : April 18, 2017
Date of Report : April 25, 2017

Prepared by : 
(Bob Wang, Engineer)

Approved & Authorized Signer : 
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT	:	Smart Bracelet
Model Number	:	F8, B15P, B15, S1, D2, H1, TALK, M8, M2, E07, E5, F9, H7 (Note: We hereby state that these models are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement. Therefore only model F8 is tested for EMC tests.)
Trade Mark	:	dido
Bluetooth version	:	Bluetooth V4.0 LE
Frequency Range	:	2402MHz-2480MHz
Number of Channels	:	40
Antenna Gain	:	0dBi
Antenna type	:	Integral Antenna
Power Supply	:	DC 3.7V & DC 5V (Power by USB Port)
Modulation mode	:	GFSK
Applicant	:	Shenzhen First Coating Technology Co., Ltd
Address	:	Floor 501, Bldg. A, Rongfeng Packaging Ind. Park, Nanwan Street, Longgang District, Shenzhen, Guangdong, China
Manufacturer	:	Shenzhen First Coating Technology Co., Ltd
Address	:	Floor 501, Bldg. A, Rongfeng Packaging Ind. Park, Nanwan Street, Longgang District, Shenzhen, Guangdong, China
Date of sample received	:	April 10, 2017
Date of Test	:	April 18, 2017

1.2.Carrier Frequency of Channels

Channel	Frequceny (MHz)	Channel	Frequceny (MHz)	Channel	Frequceny (MHz)	Channe l	Frequceny (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1.3.Special Accessory and Auxiliary Equipment

Notebook PC : Manufacturer: LENOVO
M/N: 4290-RT8
S/N: R9-FW93G 11/08

1.4.Description of Test Facility

EMC Lab	:	Accredited by TUV Rheinland Shenzhen Listed by FCC The Registration Number is 752051 Listed by Industry Canada The Registration Number is 5077A-2 Accredited by China National Accreditation Committee for Laboratories The Certificate Registration Number is L3193
Name of Firm	:	ACCURATE TECHNOLOGY CO. LTD
Site Location	:	F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China

1.5.Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 7, 2017	Jan. 6, 2018
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 7, 2017	Jan. 6, 2018
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 7, 2017	Jan. 6, 2018
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 7, 2017	Jan. 6, 2018
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 12, 2018	Jan. 12, 2018
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 12, 2018	Jan. 12, 2018
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 12, 2018	Jan. 12, 2017
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 12, 2018	Jan. 12, 2018
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 7, 2017	Jan. 6, 2018
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 7, 2017	Jan. 6, 2018
Highpass Filter	Wainwright Instruments	WHKX3.6/18G-10SS	N/A	Jan. 7, 2017	Jan. 6, 2018
Band Reject Filter	Wainwright Instruments	WRCG2400/2485-2375/2510-60/11SS	N/A	Jan. 7, 2017	Jan. 6, 2018

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: **BLE Transmitting mode**
Low Channel: 2402MHz
Middle Channel: 2440MHz
High Channel: 2480MHz

3.2.Configuration and peripherals

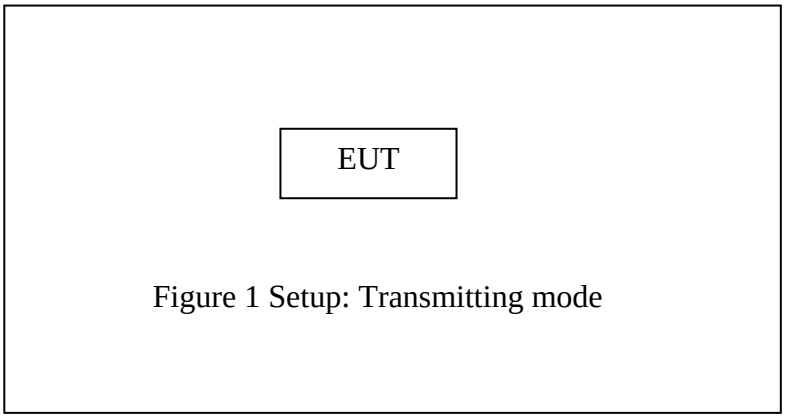


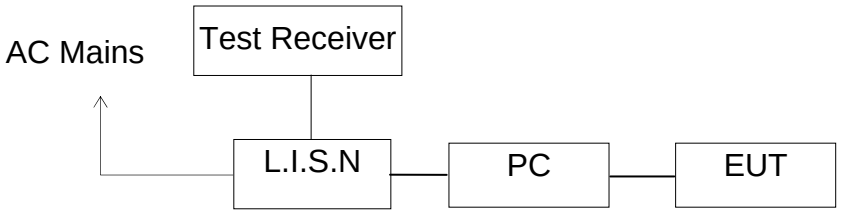
Figure 1 Setup: Transmitting mode

4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.247(d)	Conducted Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. POWER LINE CONDUCTED MEASUREMENT

5.1.Block Diagram of Test Setup



(EUT: Smart Bracelet)

5.2.Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0
NOTE1: The lower limit shall apply at the transition frequencies. NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.		

5.3.Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in test mode and measure it.

5.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.
The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

5.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Test mode : Charging
AC 120V; 60Hz

MEASUREMENT RESULT: "FC-0418-02_fin"

4/18/2017 5:41PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	53.50	10.5	66	12.5	QP	N	GND
0.490000	38.50	10.7	56	17.7	QP	N	GND
1.905000	28.70	11.0	56	27.3	QP	N	GND
2.760000	25.20	11.0	56	30.8	QP	N	GND
5.180000	20.70	11.2	60	39.3	QP	N	GND
29.530000	23.30	11.5	60	36.7	QP	N	GND

MEASUREMENT RESULT: "FC-0418-02_fin2"

4/18/2017 5:41PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	38.30	10.5	56	17.4	AV	N	GND
0.490000	34.70	10.7	46	11.5	AV	N	GND
1.905000	23.90	11.0	46	22.1	AV	N	GND
2.140000	23.90	11.0	46	22.1	AV	N	GND
5.150000	13.10	11.2	50	36.9	AV	N	GND
23.995000	21.20	11.5	50	28.8	AV	N	GND

MEASUREMENT RESULT: "FC-0418-01_fin"

4/18/2017 5:37PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.165000	51.30	10.5	65	13.9	QP	L1	GND
0.490000	38.80	10.7	56	17.4	QP	L1	GND
2.000000	28.50	11.0	56	27.5	QP	L1	GND
3.560000	23.90	11.1	56	32.1	QP	L1	GND
5.250000	18.70	11.2	60	41.3	QP	L1	GND
26.890000	23.40	11.5	60	36.6	QP	L1	GND

MEASUREMENT RESULT: "FC-0418-01_fin2"

4/18/2017 5:37PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.170000	36.40	10.5	55	18.6	AV	L1	GND
0.490000	34.90	10.7	46	11.3	AV	L1	GND
1.990000	22.90	11.0	46	23.1	AV	L1	GND
2.280000	23.10	11.0	46	22.9	AV	L1	GND
5.260000	11.00	11.2	50	39.0	AV	L1	GND
23.995000	22.40	11.5	50	27.6	AV	L1	GND

Test mode : Charging
AC 240V; 60Hz

MEASUREMENT RESULT: "FC-0418-04_fin"

4/18/2017 8:39AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	50.90	10.5	66	14.8	QP	L1	GND
0.505000	37.80	10.7	56	18.2	QP	L1	GND
1.835000	28.80	11.0	56	27.2	QP	L1	GND
2.670000	27.80	11.0	56	28.2	QP	L1	GND
5.310000	20.10	11.2	60	39.9	QP	L1	GND
26.080000	25.80	11.5	60	34.2	QP	L1	GND

MEASUREMENT RESULT: "FC-0418-04_fin2"

4/18/2017 8:39AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	35.80	10.5	56	19.9	AV	L1	GND
0.505000	34.70	10.7	46	11.3	AV	L1	GND
2.050000	27.80	11.0	46	18.2	AV	L1	GND
2.370000	22.50	11.0	46	23.5	AV	L1	GND
6.290000	15.80	11.2	50	34.2	AV	L1	GND
25.840000	20.70	11.5	50	29.3	AV	L1	GND

MEASUREMENT RESULT: "FC-0418-03_fin"

4/18/2017 5:45PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175000	48.70	10.5	65	16.0	QP	N	GND
0.505000	38.10	10.7	56	17.9	QP	N	GND
1.825000	28.30	11.0	56	27.7	QP	N	GND
2.170000	30.40	11.0	56	25.6	QP	N	GND
5.140000	21.80	11.2	60	38.2	QP	N	GND
28.120000	26.50	11.5	60	33.5	QP	N	GND

MEASUREMENT RESULT: "FC-0418-03_fin2"

4/18/2017 5:45PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	36.70	10.5	56	19.0	AV	N	GND
0.505000	34.90	10.7	46	11.1	AV	N	GND
2.030000	28.50	11.0	46	17.5	AV	N	GND
2.150000	26.00	11.0	46	20.0	AV	N	GND
6.450000	17.30	11.2	50	32.7	AV	N	GND
23.995000	22.70	11.5	50	27.3	AV	N	GND

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO.,LTD

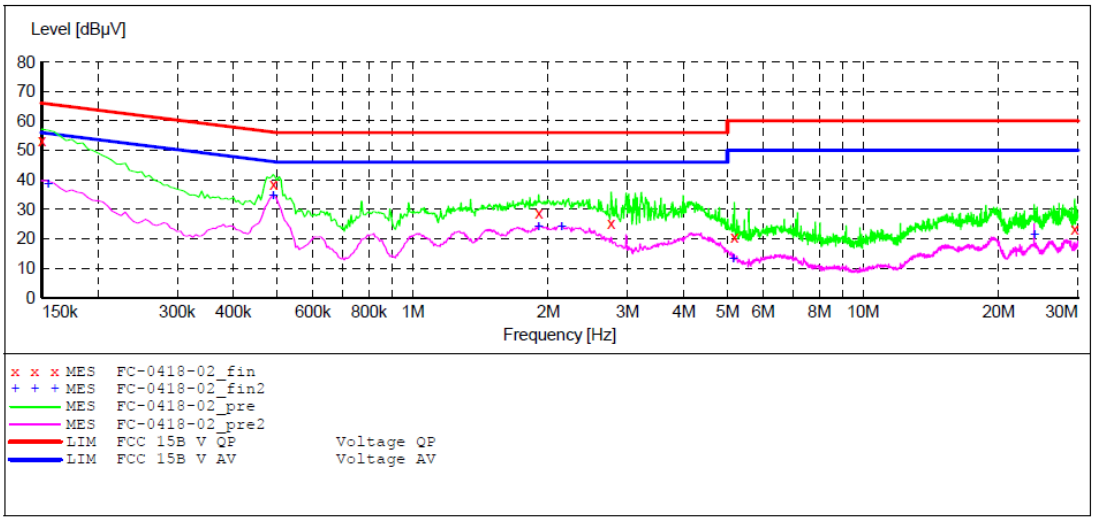
CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Smart Bracelet M/N:F8
Manufacturer: FIRST COATING
Operating Condition: Charging
Test Site: 1#Shielding Room
Operator: DING
Test Specification: N 120V/60Hz
Comment: Report NO.:ATE20170457
Start of Test: 4/18/2017 / 5:38:22PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "FC-0418-02_fin"

4/18/2017 5:41PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	53.50	10.5	66	12.5	QP	N	GND
0.490000	38.50	10.7	56	17.7	QP	N	GND
1.905000	28.70	11.0	56	27.3	QP	N	GND
2.760000	25.20	11.0	56	30.8	QP	N	GND
5.180000	20.70	11.2	60	39.3	QP	N	GND
29.530000	23.30	11.5	60	36.7	QP	N	GND

MEASUREMENT RESULT: "FC-0418-02_fin2"

4/18/2017 5:41PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	38.30	10.5	56	17.4	AV	N	GND
0.490000	34.70	10.7	46	11.5	AV	N	GND
1.905000	23.90	11.0	46	22.1	AV	N	GND
2.140000	23.90	11.0	46	22.1	AV	N	GND
5.150000	13.10	11.2	50	36.9	AV	N	GND
23.995000	21.20	11.5	50	28.8	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD

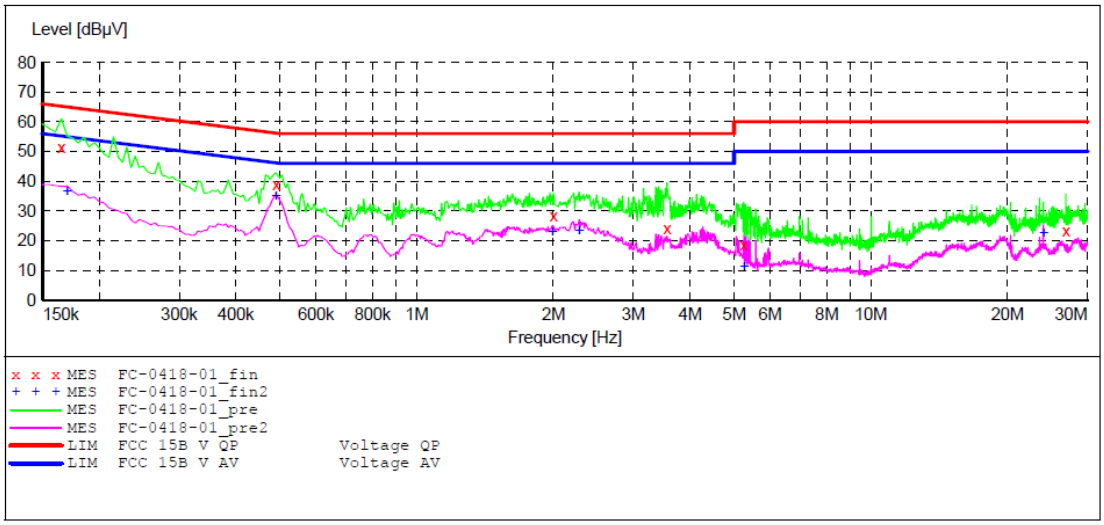
CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Smart Bracelet M/N:F8
Manufacturer: FIRST COATING
Operating Condition: Charging
Test Site: 1#Shielding Room
Operator: DING
Test Specification: L 120V/60Hz
Comment: Report NO.:ATE20170457
Start of Test: 4/18/2017 / 5:34:13PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "FC-0418-01_fin"

4/18/2017 5:37PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.165000	51.30	10.5	65	13.9	QP	L1	GND
0.490000	38.80	10.7	56	17.4	QP	L1	GND
2.000000	28.50	11.0	56	27.5	QP	L1	GND
3.560000	23.90	11.1	56	32.1	QP	L1	GND
5.250000	18.70	11.2	60	41.3	QP	L1	GND
26.890000	23.40	11.5	60	36.6	QP	L1	GND

MEASUREMENT RESULT: "FC-0418-01_fin2"

4/18/2017 5:37PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.170000	36.40	10.5	55	18.6	AV	L1	GND
0.490000	34.90	10.7	46	11.3	AV	L1	GND
1.990000	22.90	11.0	46	23.1	AV	L1	GND
2.280000	23.10	11.0	46	22.9	AV	L1	GND
5.260000	11.00	11.2	50	39.0	AV	L1	GND
23.995000	22.40	11.5	50	27.6	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD

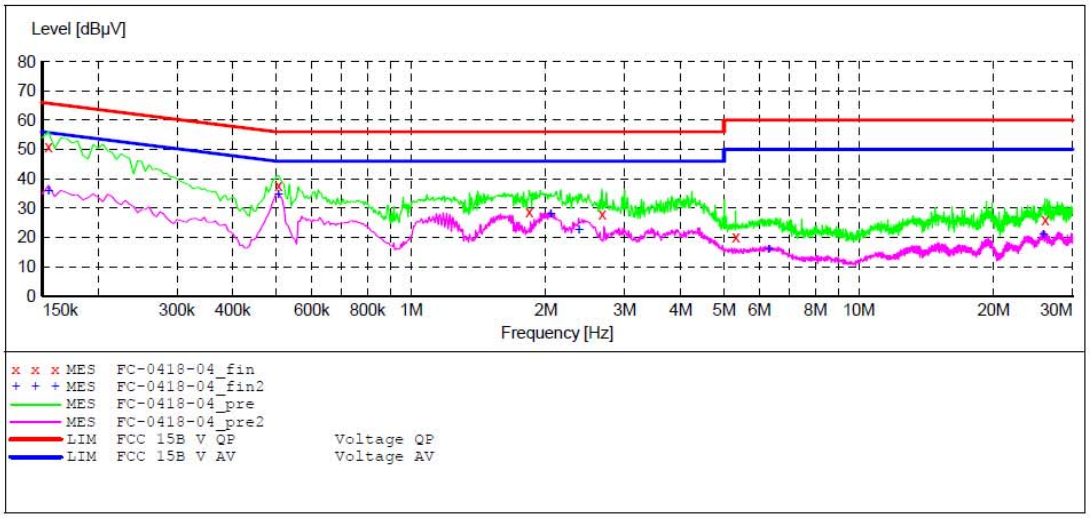
CONDUCTED EMISSION STANDARD FCC PART 15B

```
EUT:                 Smart Bracelet M/N:F8
Manufacturer:        FIRST COATING
Operating Condition: Charging
Test Site:           1#Shielding Room
Operator:            DING
Test Specification:  L  240V/60Hz
Comment:             Report NO.:ATE20170457
Start of Test:       4/18/2017 / 8:36:34AM
```

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "FC-0418-04_fin"

4/18/2017 8:39AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	50.90	10.5	66	14.8	QP	L1	GND
0.505000	37.80	10.7	56	18.2	QP	L1	GND
1.835000	28.80	11.0	56	27.2	QP	L1	GND
2.670000	27.80	11.0	56	28.2	QP	L1	GND
5.310000	20.10	11.2	60	39.9	QP	L1	GND
26.080000	25.80	11.5	60	34.2	QP	L1	GND

MEASUREMENT RESULT: "FC-0418-04_fin2"

4/18/2017 8:39AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	35.80	10.5	56	19.9	AV	L1	GND
0.505000	34.70	10.7	46	11.3	AV	L1	GND
2.050000	27.80	11.0	46	18.2	AV	L1	GND
2.370000	22.50	11.0	46	23.5	AV	L1	GND
6.290000	15.80	11.2	50	34.2	AV	L1	GND
25.840000	20.70	11.5	50	29.3	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD

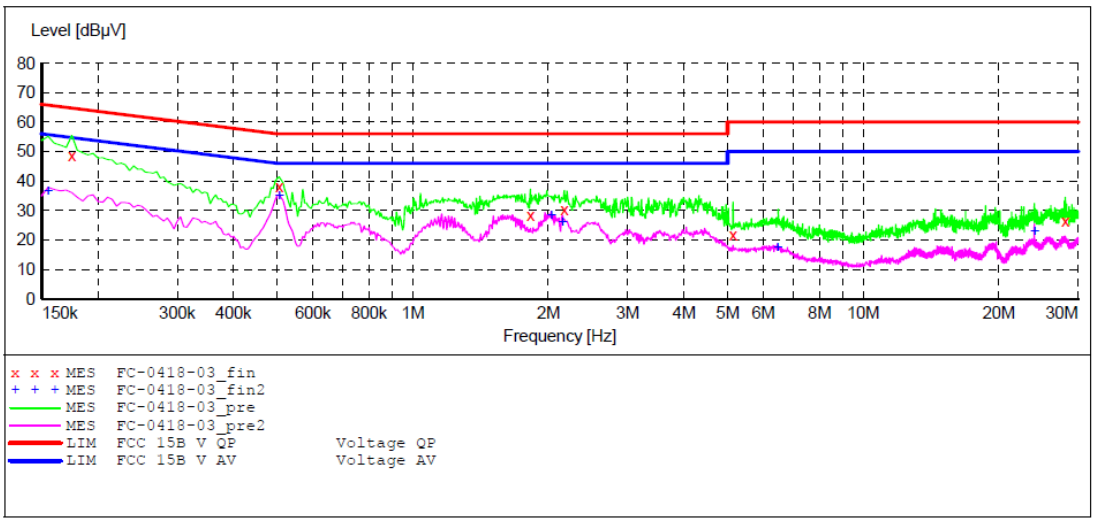
CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Smart Bracelet M/N:F8
Manufacturer: FIRST COATING
Operating Condition: Charging
Test Site: 1#Shielding Room
Operator: DING
Test Specification: N 240V/60Hz
Comment: Report NO.:ATE20170457
Start of Test: 4/18/2017 / 5:42:14PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "FC-0418-03_fin"

4/18/2017 5:45PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175000	48.70	10.5	65	16.0	QP	N	GND
0.505000	38.10	10.7	56	17.9	QP	N	GND
1.825000	28.30	11.0	56	27.7	QP	N	GND
2.170000	30.40	11.0	56	25.6	QP	N	GND
5.140000	21.80	11.2	60	38.2	QP	N	GND
28.120000	26.50	11.5	60	33.5	QP	N	GND

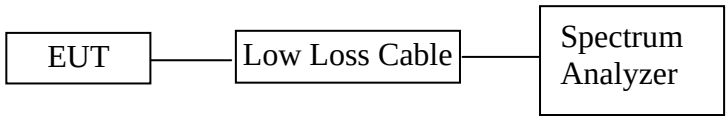
MEASUREMENT RESULT: "FC-0418-03_fin2"

4/18/2017 5:45PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.155000	36.70	10.5	56	19.0	AV	N	GND
0.505000	34.90	10.7	46	11.1	AV	N	GND
2.030000	28.50	11.0	46	17.5	AV	N	GND
2.150000	26.00	11.0	46	20.0	AV	N	GND
6.450000	17.30	11.2	50	32.7	AV	N	GND
23.995000	22.70	11.5	50	27.3	AV	N	GND

6. 6DB BANDWIDTH MEASUREMENT

6.1.Block Diagram of Test Setup



(EUT: Smart Bracelet)

6.2.The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.3.EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 5.1.

6.4.2.Turn on the power of all equipment.

6.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

6.5.Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 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.

20dB bandwidth

1. Set resolution bandwidth (RBW) = 1%-5% OBW.

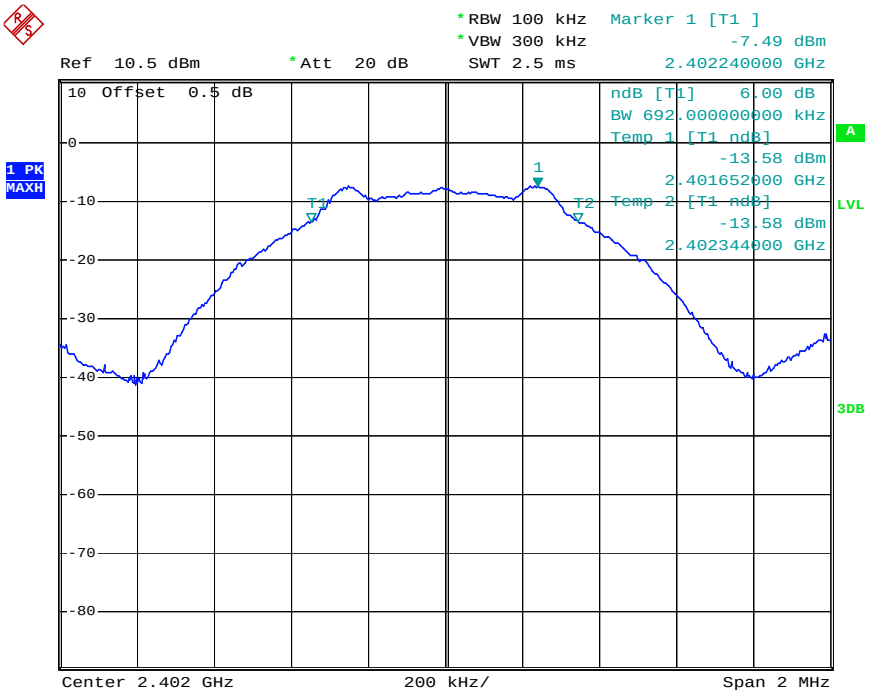
2. Set the video bandwidth (VBW) ⩾ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst-case (i.e., the widest) bandwidth. Unless otherwise specified for an unlicensed wireless device, measure the bandwidth at the －20 dB levels with respect to the reference level

6.6.Test Result

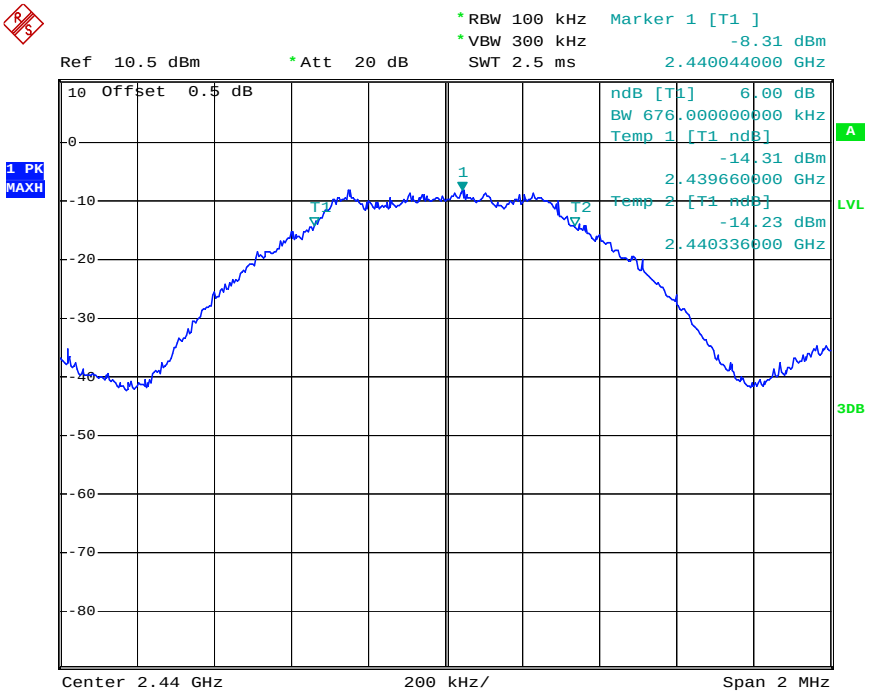
Channel	Frequency (MHz)	6 dB Bandwith (MHz)	Minimum Limit(MHz)	PASS/FAIL
0	2402	0.692	0.5	PASS
19	2440	0.676	0.5	PASS
39	2480	0.672	0.5	PASS

The spectrum analyzer plots are attached as below.

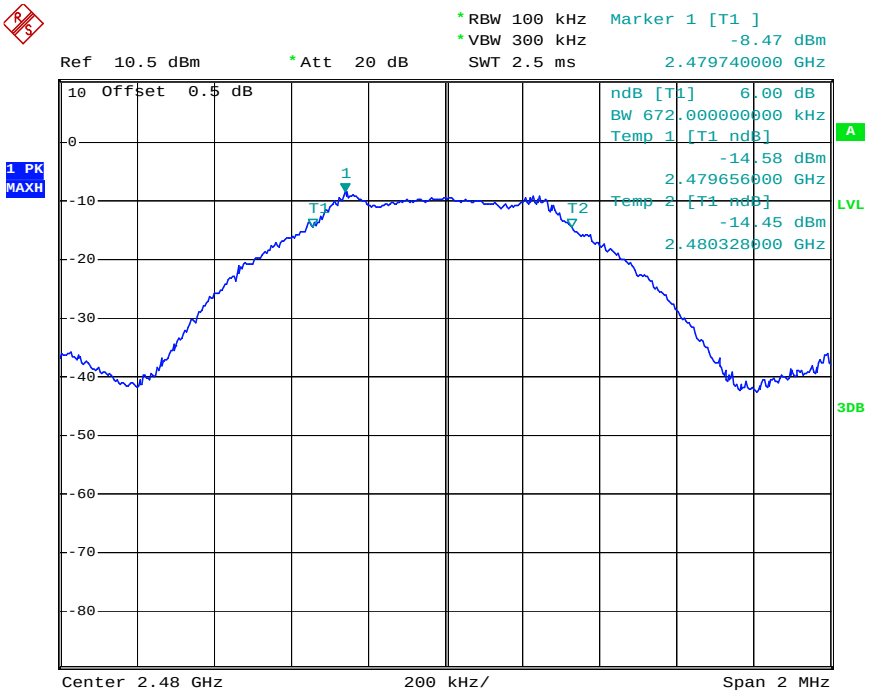
channel 0



channel 19

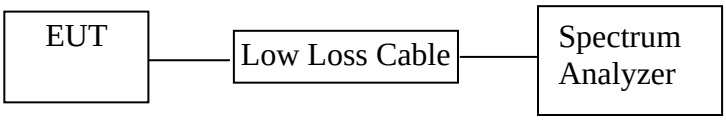


channel 39



7. MAXIMUM PEAK OUTPUT POWER

7.1.Block Diagram of Test Setup



(EUT: Smart Bracelet)

7.2.The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

7.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4.Operating Condition of EUT

7.4.1.Setup the EUT and simulator as shown as Section 6.1.

7.4.2.Turn on the power of all equipment.

7.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

7.5.Test Procedure

7.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2.Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz.

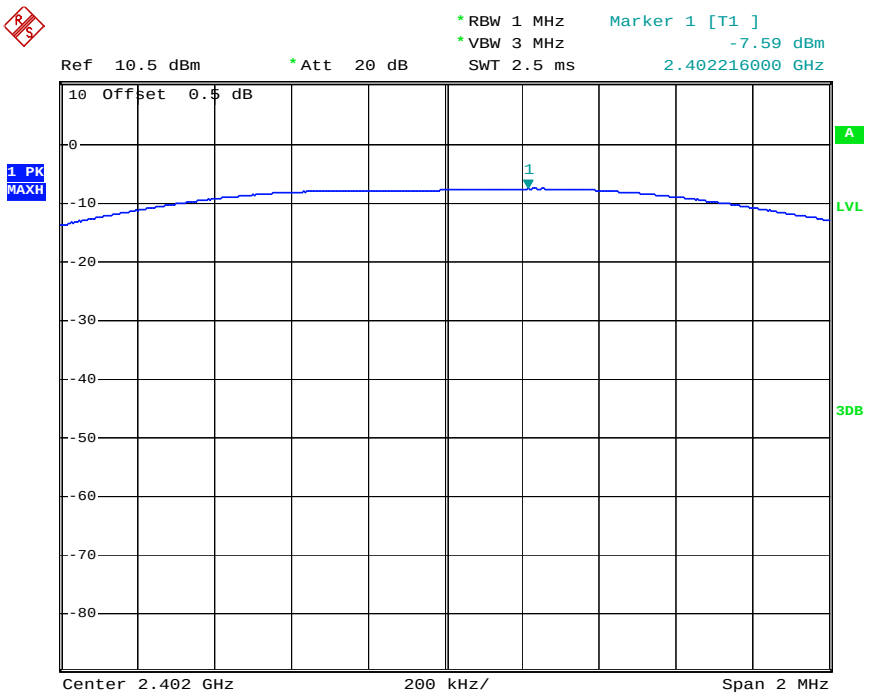
7.5.3.Measurement the maximum peak output power.

7.6.Test Result

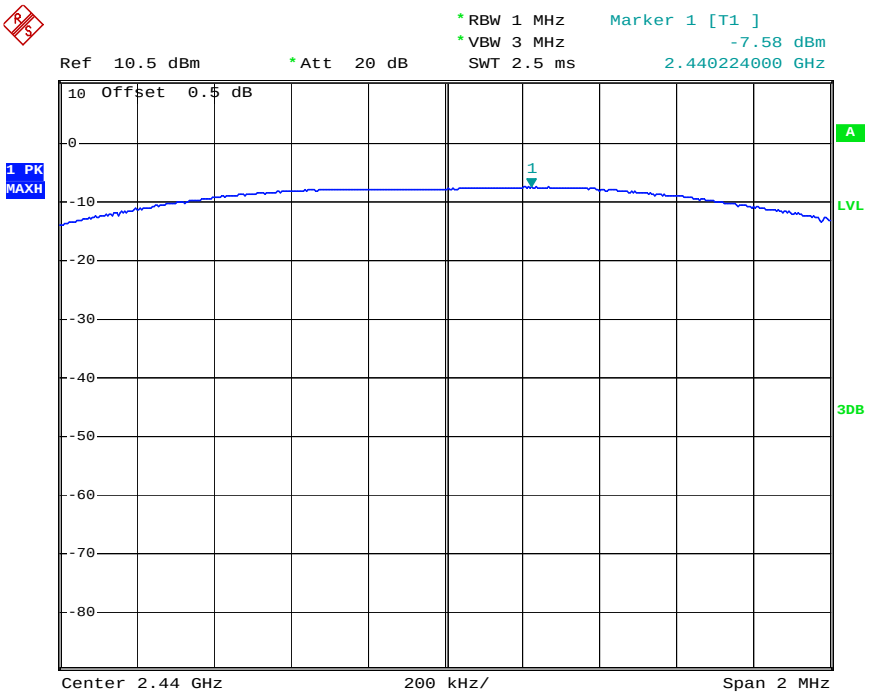
Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail
0	2402	-7.59	30	PASS
19	2440	-7.58	30	PASS
39	2480	-7.63	30	PASS

The spectrum analyzer plots are attached as below.

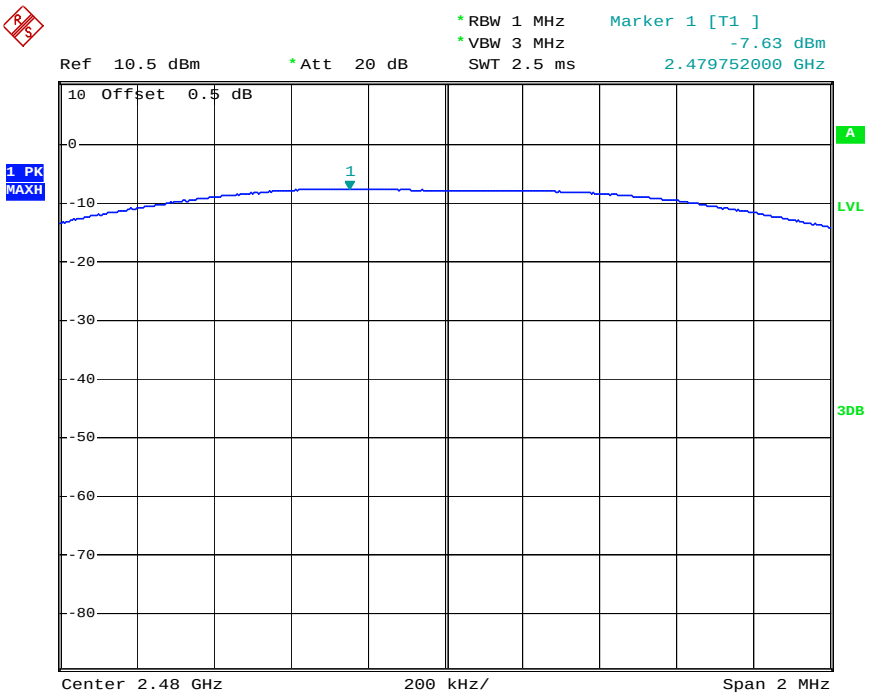
channel 0



channel 19

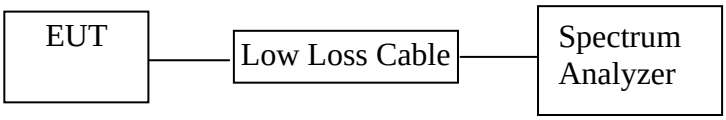


channel 39



8. POWER SPECTRAL DENSITY MEASUREMENT

8.1.Block Diagram of Test Setup



(EUT: Smart Bracelet)

8.2.The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.4.Operating Condition of EUT

8.4.1.Setup the EUT and simulator as shown as Section 7.1.

8.4.2.Turn on the power of all equipment.

8.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

8.5.Test Procedure

8.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.

8.5.2.Measurement Procedure PKPSD:

8.5.3.This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to: 3 kHz $\leqslant$ RBW $\leqslant$ 100 kHz.
4. Set the VBW $\geqslant$ 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.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

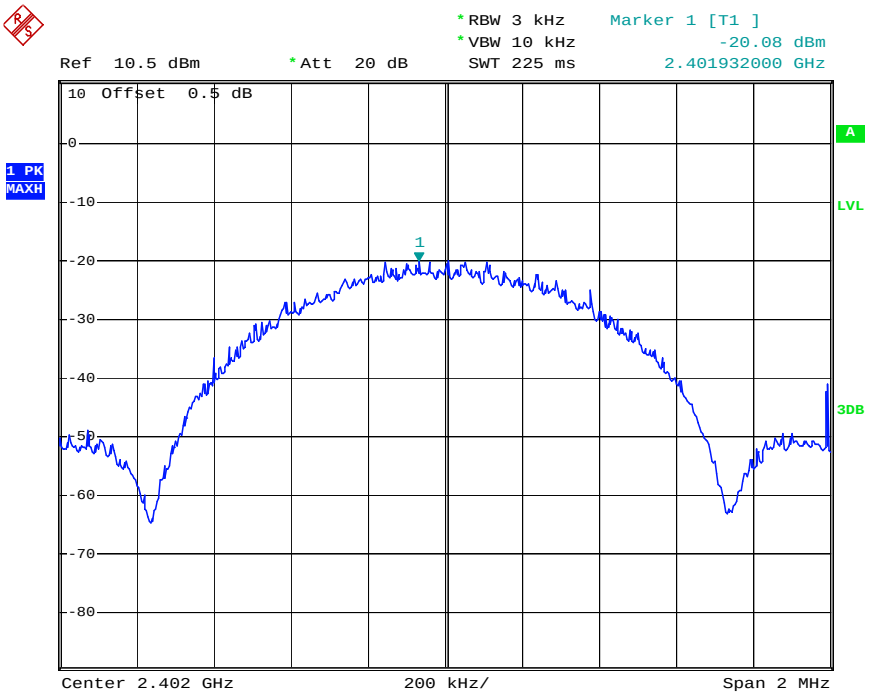
8.5.4.Measurement the maximum power spectral density.

8.6.Test Result

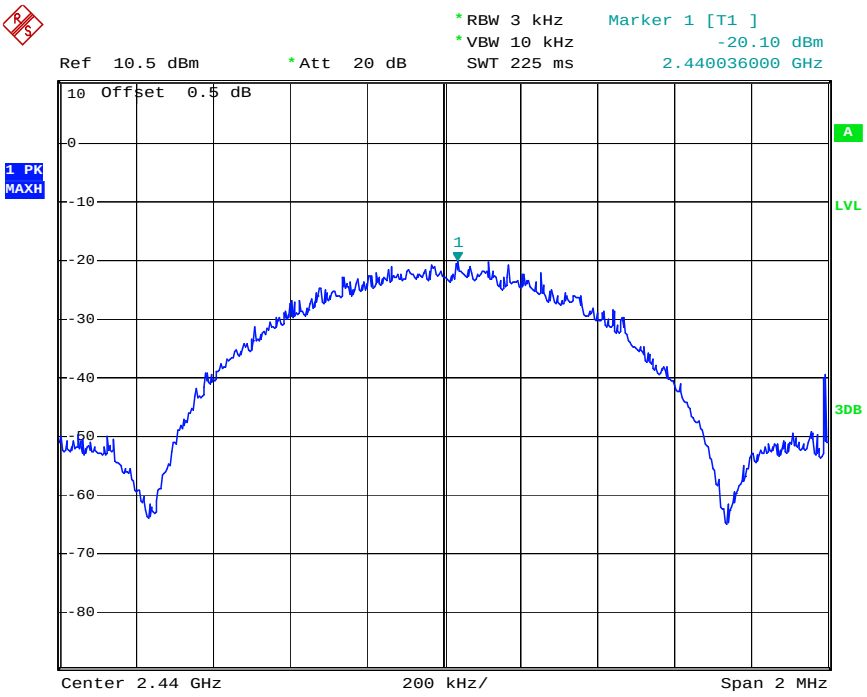
CHANNEL NUMBER	FREQUENCY (MHz)	PSD (dBm/3KHz)	LIMIT (dBm/3KHz)	PASS/FAIL
0	2402	-20.08	8	PASS
19	2440	-20.10	8	PASS
39	2480	-20.37	8	PASS

The spectrum analyzer plots are attached as below.

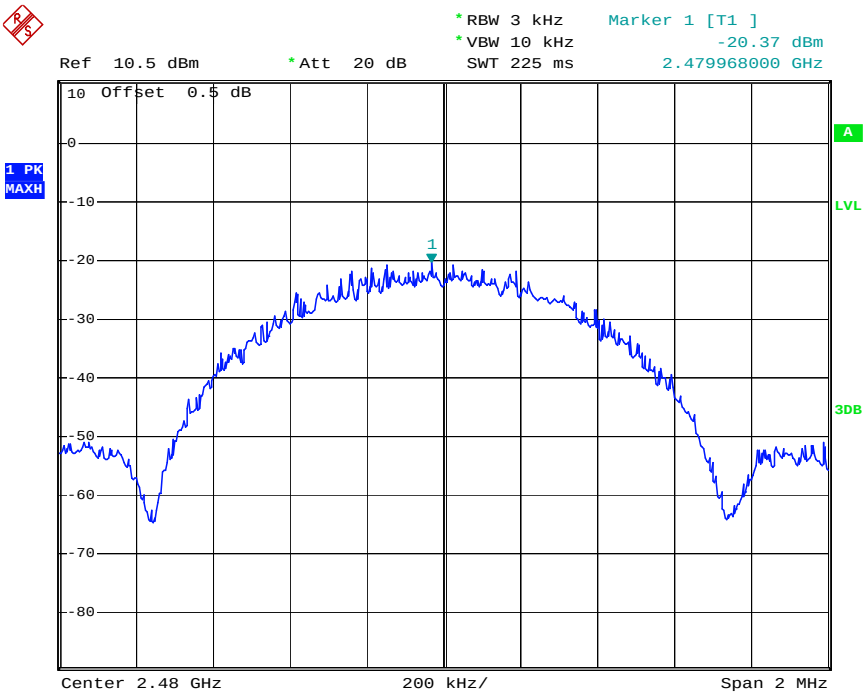
channel 0



channel 19

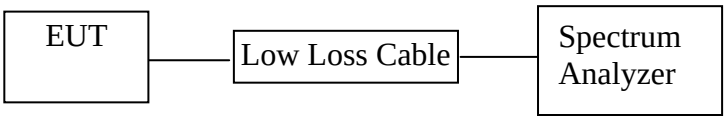


channel 39



9. BAND EDGE COMPLIANCE TEST

9.1.Block Diagram of Test Setup



(EUT: Smart Bracelet)

9.2.The Requirement For Section 15.247(d)

Section 15.247(d): 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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

9.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4.Operating Condition of EUT

9.4.1.Setup the EUT and simulator as shown as Section 8.1.

9.4.2.Turn on the power of all equipment.

9.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

9.5.Test Procedure

Conducted Band Edge:

9.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

9.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

9.5.3. Radiate Band Edge:

9.5.4.The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.

9.5.5.The turntable was rotated for 360 degrees to determine the position of maximum emission level.

9.5.6.EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

9.5.7.Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

9.5.8.RBW=1MHz, VBW=1MHz

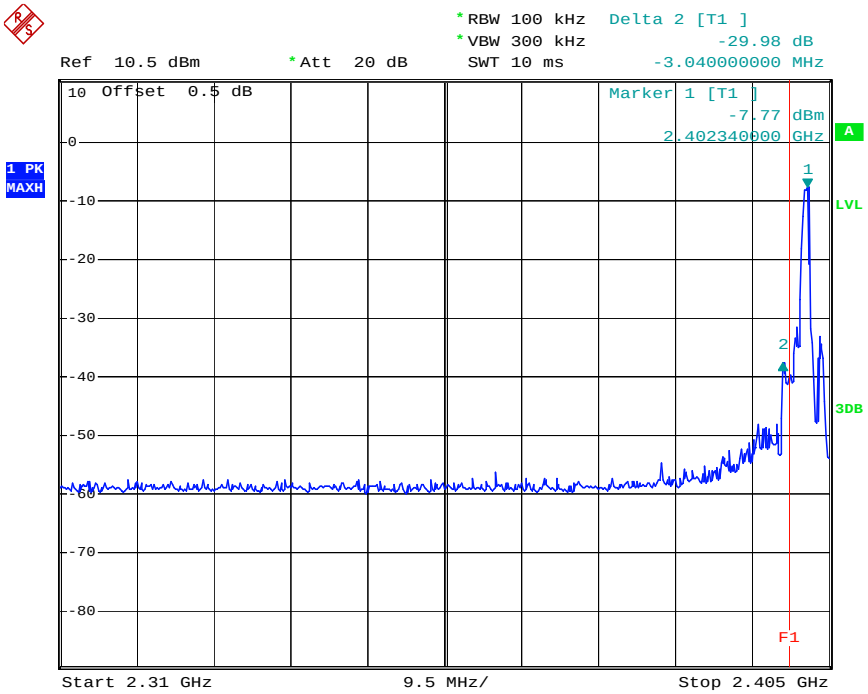
9.5.9.The band edges was measured and recorded.

9.6.Test Result

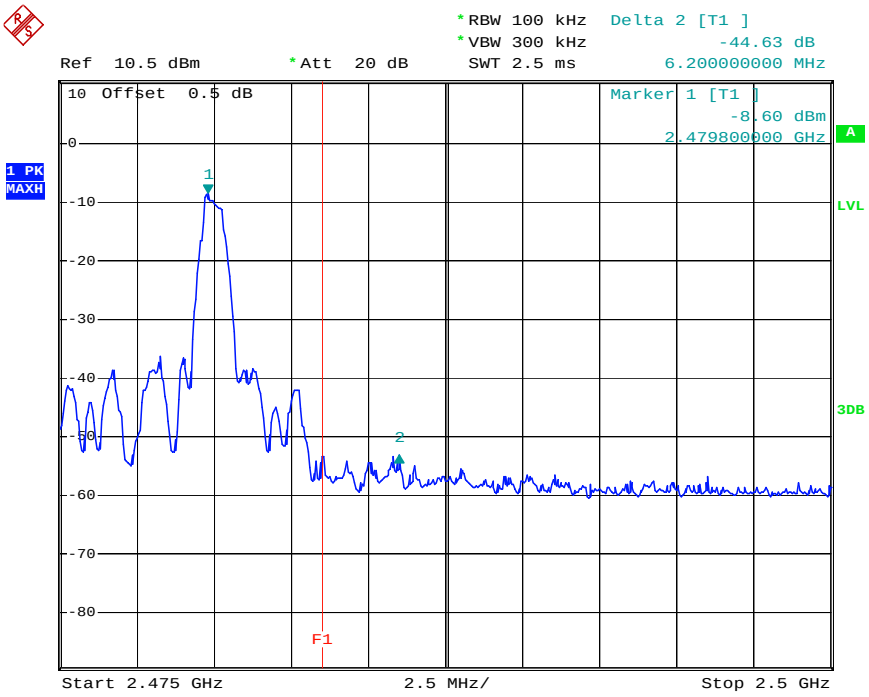
Pass

Channel	Frequency	Delta peak to band emission	Limit(dBc)
0	2.4GHz	22.21	20
39	2.4835GHz	36.03	20

channel 0



channel 39



Radiated Band Edge Result

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX modes then measure it.
We select 2402MHz, 2480MHz TX frequency to transmit(GFSK mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:
1.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
3.All modes of operation were investigated and the worst-case emissions are reported.

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Site: 1# Chamber
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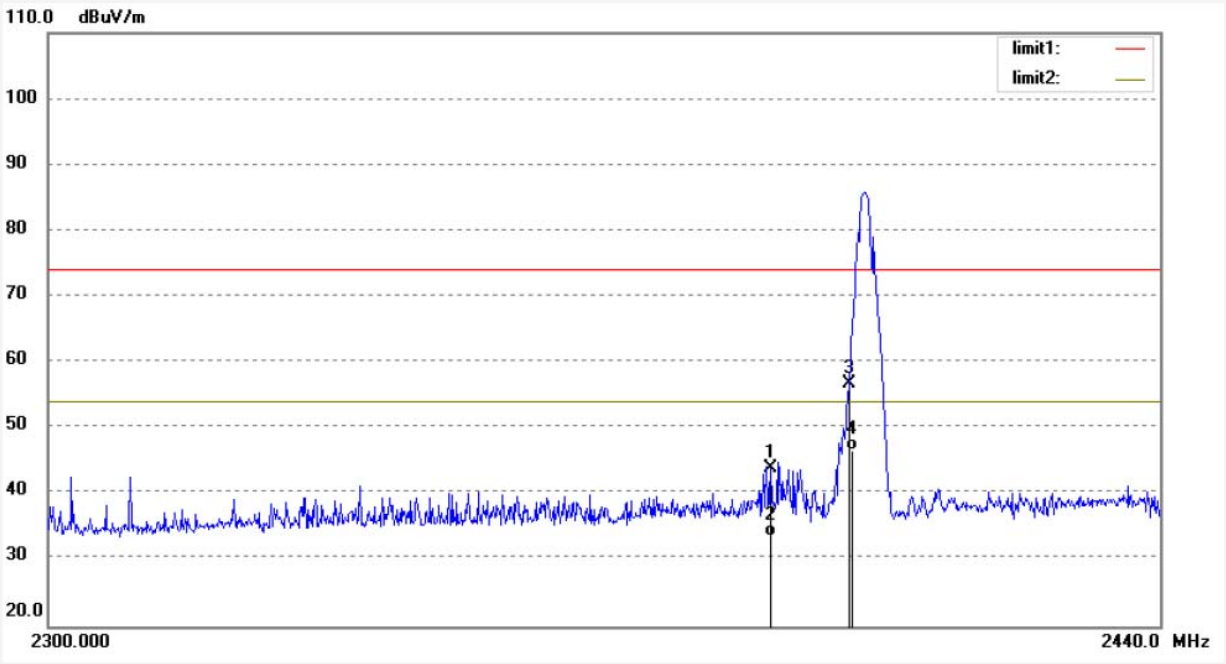
Fax:+86-0755-26503396

Job No.: DING1 #1361	Polarization: Vertical
Standard: FCC PK	Power Source: DC 3.7V
Test item: Radiation Test	Date: 17/04/18/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/16/31
EUT: Smart Bracelet	Engineer Signature: DING
Mode: TX 2402MHz	Distance: 3m
Model: F8	
Manufacturer: FIRST COATING	

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	49.90	-5.89	44.01	74.00	-29.99	peak			
2	2390.000	39.52	-5.89	33.63	54.00	-20.37	AVG			
3	2400.000	62.58	-5.80	56.78	74.00	-17.22	peak			
4	2400.000	52.41	-5.80	46.61	54.00	-7.39	AVG			

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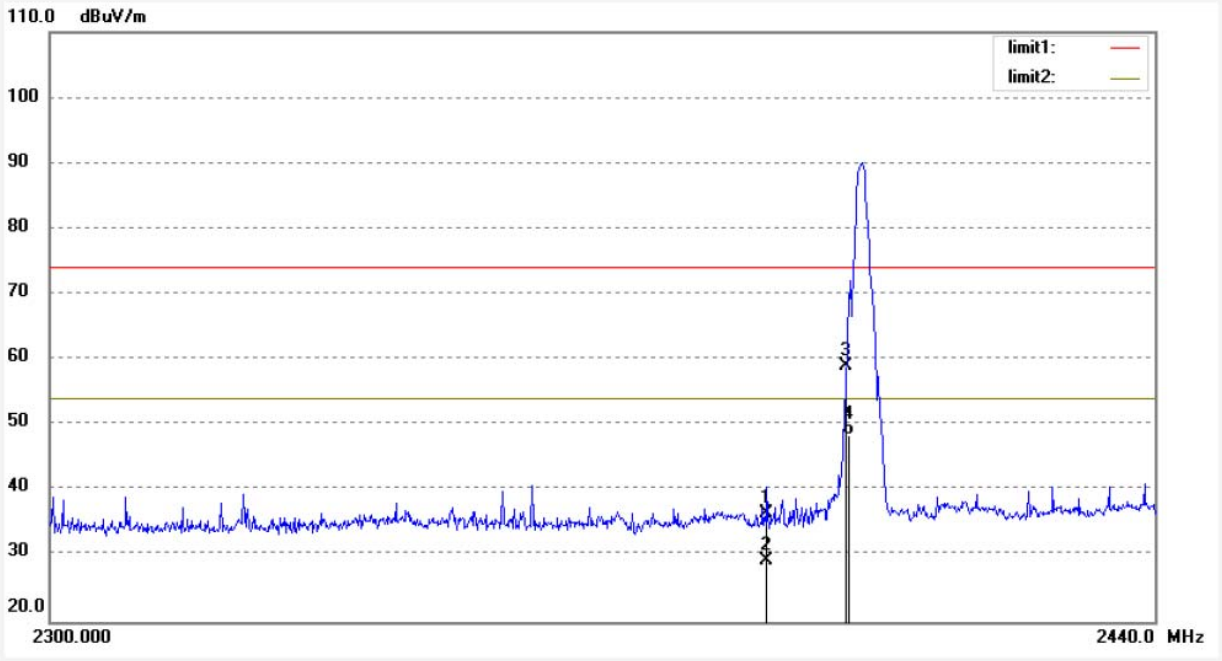
Fax:+86-0755-26503396

Job No.: DING1 #1362
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart Bracelet
Mode: TX 2402MHz
Model: F8
Manufacturer: FIRST COATING

Polarization: Horizontal
Power Source: DC 3.7V
Date: 17/04/18/
Time: 9/20/00
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	42.34	-5.89	36.45	74.00	-37.55	peak			
2	2390.000	35.12	-5.89	29.23	74.00	-44.77	peak			
3	2400.000	64.79	-5.80	58.99	74.00	-15.01	peak			
4	2400.000	54.23	-5.80	48.43	54.00	-5.57	AVG			

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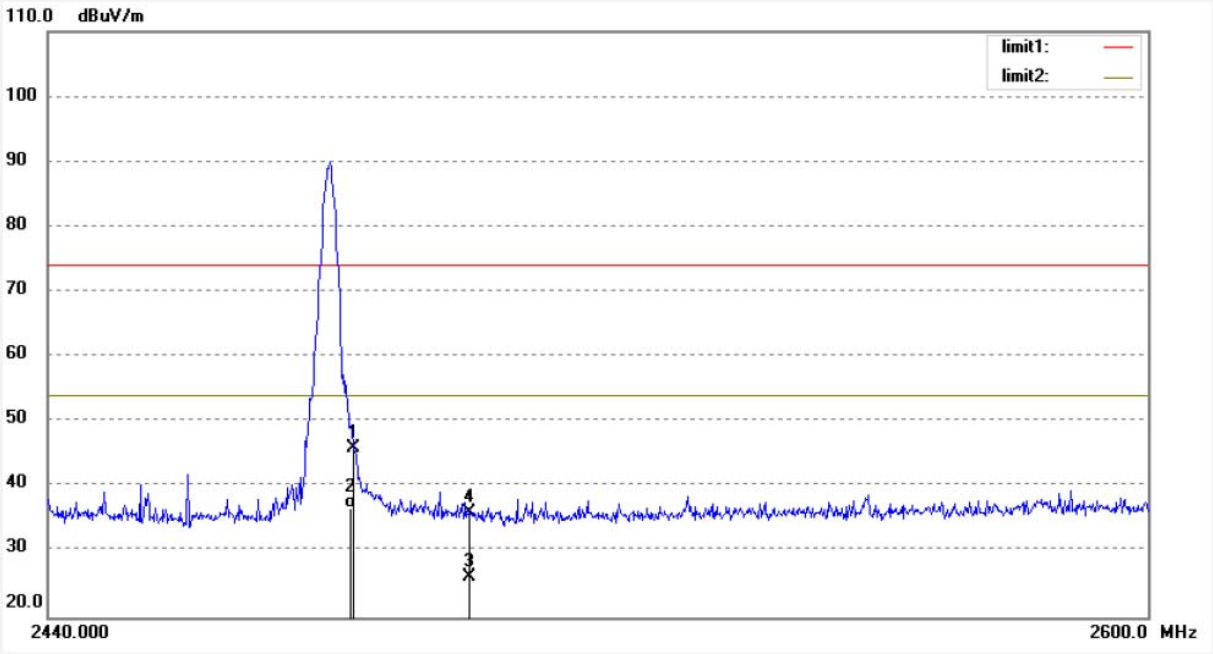
Fax:+86-0755-26503396

Job No.: DING1 #1363
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart Bracelet
Mode: TX 2480MHz
Model: F8
Manufacturer: FIRST COATING

Polarization: Horizontal
Power Source: DC 3.7V
Date: 17/04/18/
Time: 9/25/19
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	51.50	-5.51	45.99	74.00	-28.01	peak			
2	2483.500	42.26	-5.51	36.75	54.00	-17.25	AVG			
3	2500.000	31.72	-5.50	26.22	74.00	-47.78	peak			
4	2500.000	41.53	-5.50	36.03	74.00	-37.97	peak			

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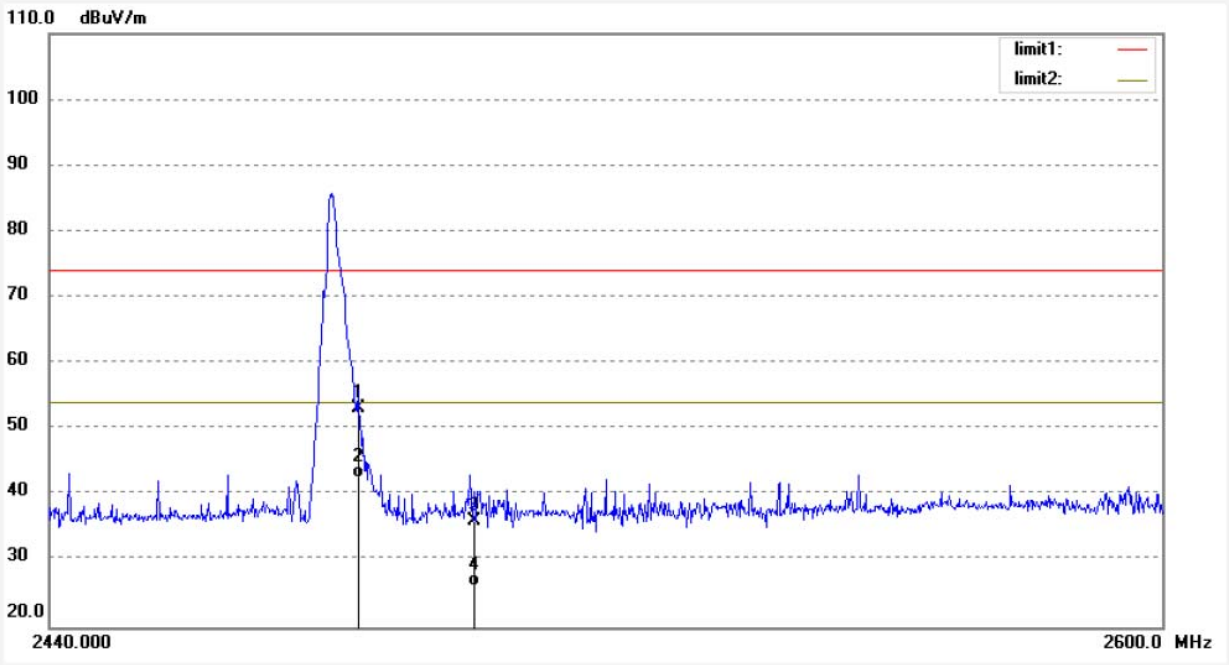
Fax:+86-0755-26503396

Job No.: DING1 #1364
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart Bracelet
Mode: TX 2480MHz
Model: F8
Manufacturer: FIRST COATING

Polarization: Vertical
Power Source: DC 3.7V
Date: 17/04/18/
Time: 9/38/50
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20170457

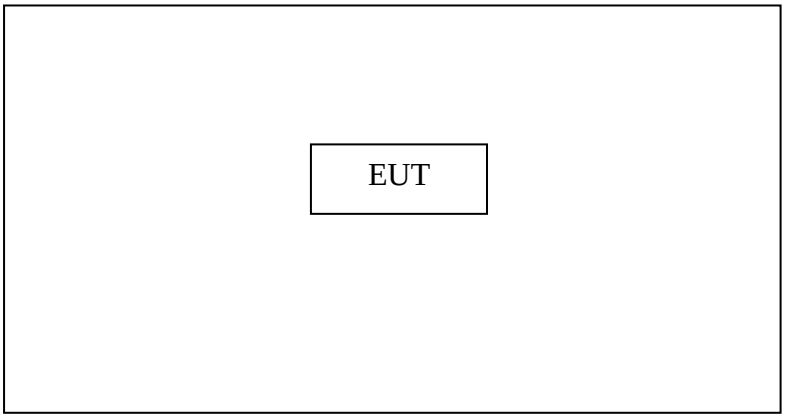


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	58.75	-5.51	53.24	74.00	-20.76	peak			
2	2483.500	48.02	-5.51	42.51	54.00	-11.49	AVG			
3	2500.000	41.57	-5.50	36.07	74.00	-37.93	peak			
4	2500.000	31.63	-5.50	26.13	54.00	-27.87	AVG			

10.RADIATED SPURIOUS EMISSION TEST

10.1.Block Diagram of Test Setup

10.1.1.Block diagram of connection between the EUT and peripherals

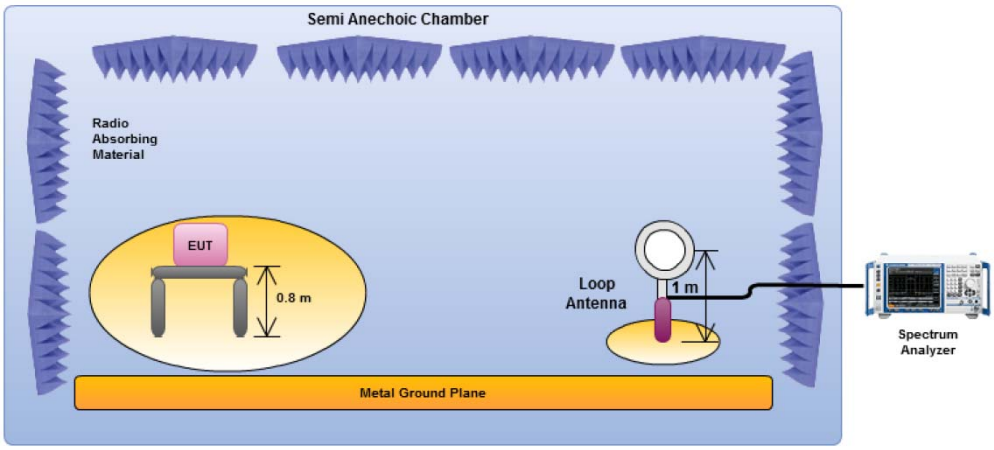


Setup: Transmitting mode

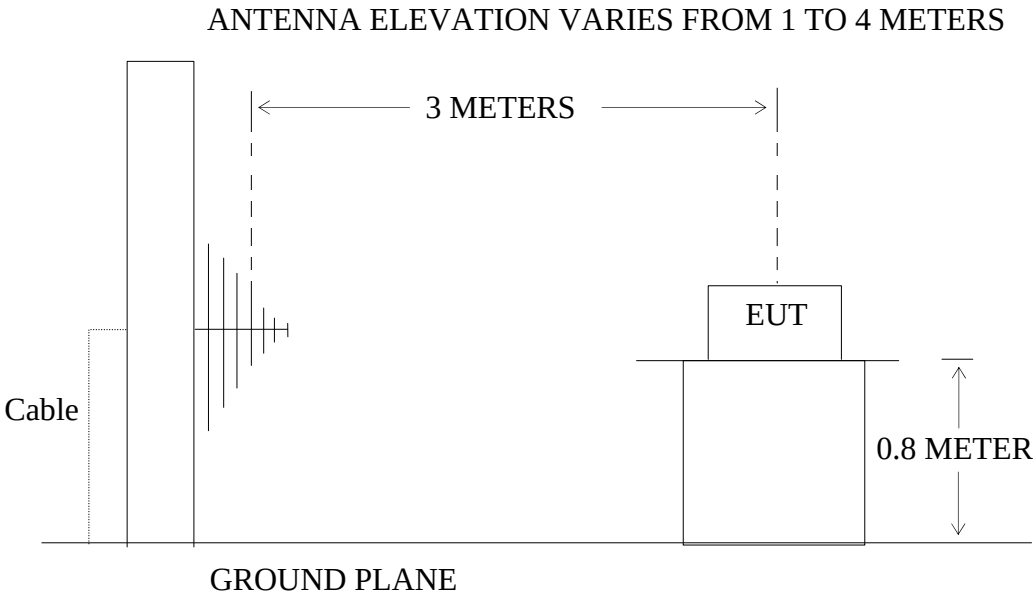
(EUT: Smart Bracelet)

10.1.2.Semi-Anechoic Chamber Test Setup Diagram

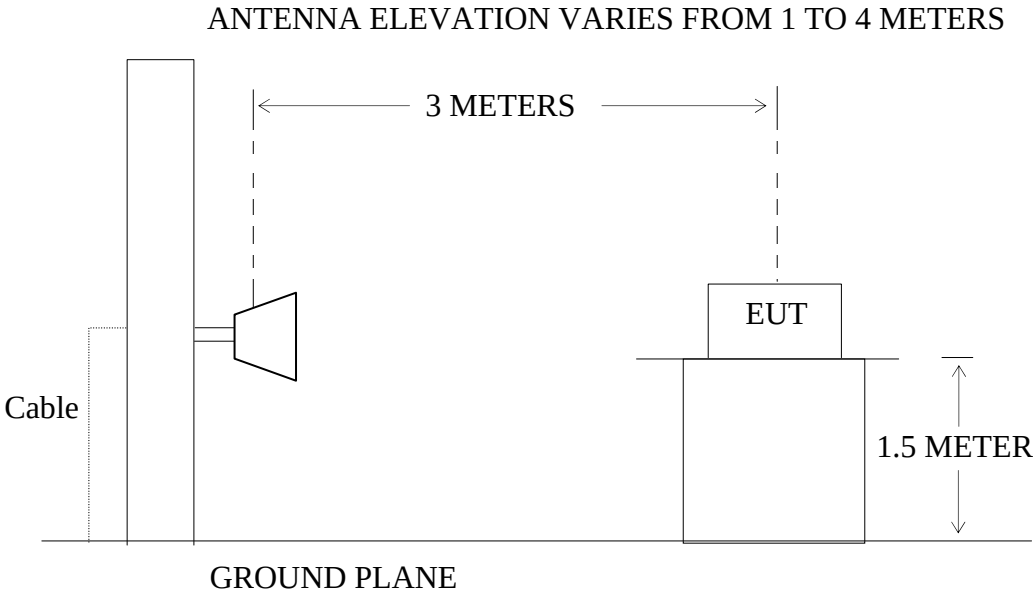
Below 30MHz



30MHz-1GHz



Above 1GHz



10.2.The Limit For Section 15.247(d)

Section 15.247(d): 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 Section 15.209(a) is not required. In addition, radiated

emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

10.3.Restricted bands of operation

10.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

[1]Until February 1, 1999, this restricted band shall be 0.490-0.510
[2]Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.4.Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.5.Operating Condition of EUT

10.5.1.Setup the EUT and simulator as shown as Section 9.1.

10.5.2.Turn on the power of all equipment.

10.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

10.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 25GHz is checked.
The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

10.7.The Field Strength of Radiation Emission Measurement Results

PASS.

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

3.The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.

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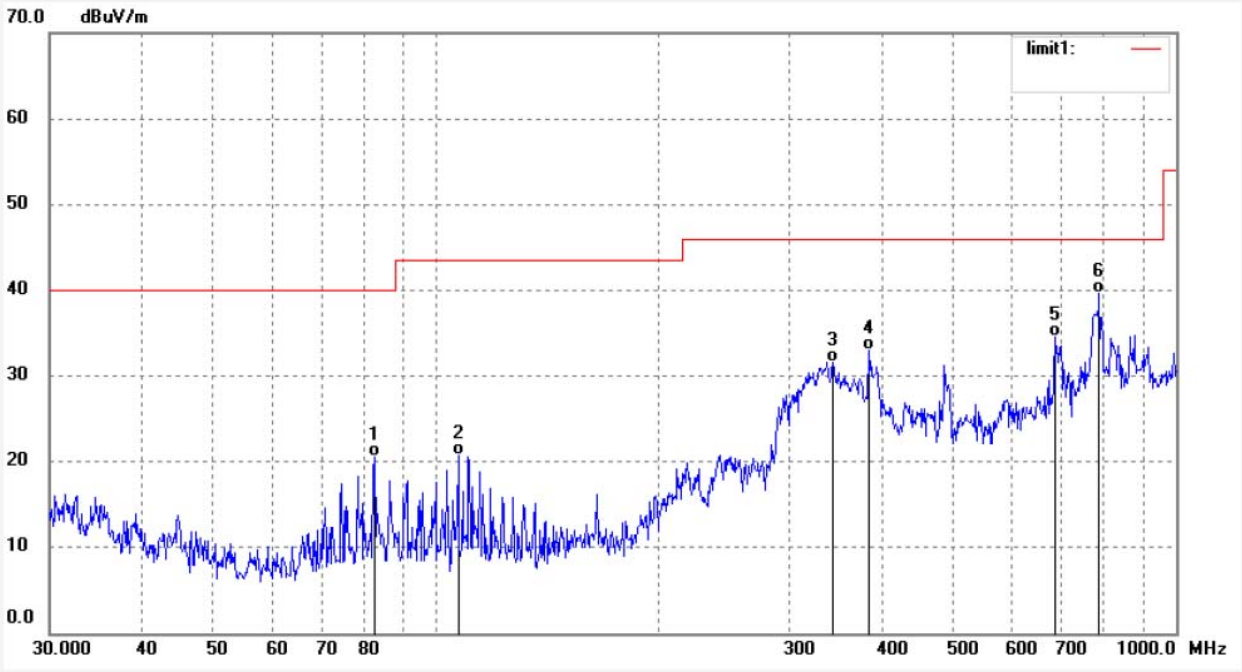
Job No.: DING #3476
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart Bracelet
Mode: TX 2402MHz
Model: F8
Manufacturer: FIRST COATING

Polarization: Vertical
Power Source: DC 3.7V
Date: 17/04/18/
Time: 12/47/39
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	82.5257	42.61	-21.99	20.62	40.00	-19.38	QP			
2	107.0306	43.07	-22.35	20.72	43.50	-22.78	QP			
3	343.6506	45.65	-14.08	31.57	46.00	-14.43	QP			
4	384.5447	46.12	-13.21	32.91	46.00	-13.09	QP			
5	686.6342	41.27	-6.62	34.65	46.00	-11.35	QP			
6	787.4749	44.00	-4.40	39.60	46.00	-6.40	QP			

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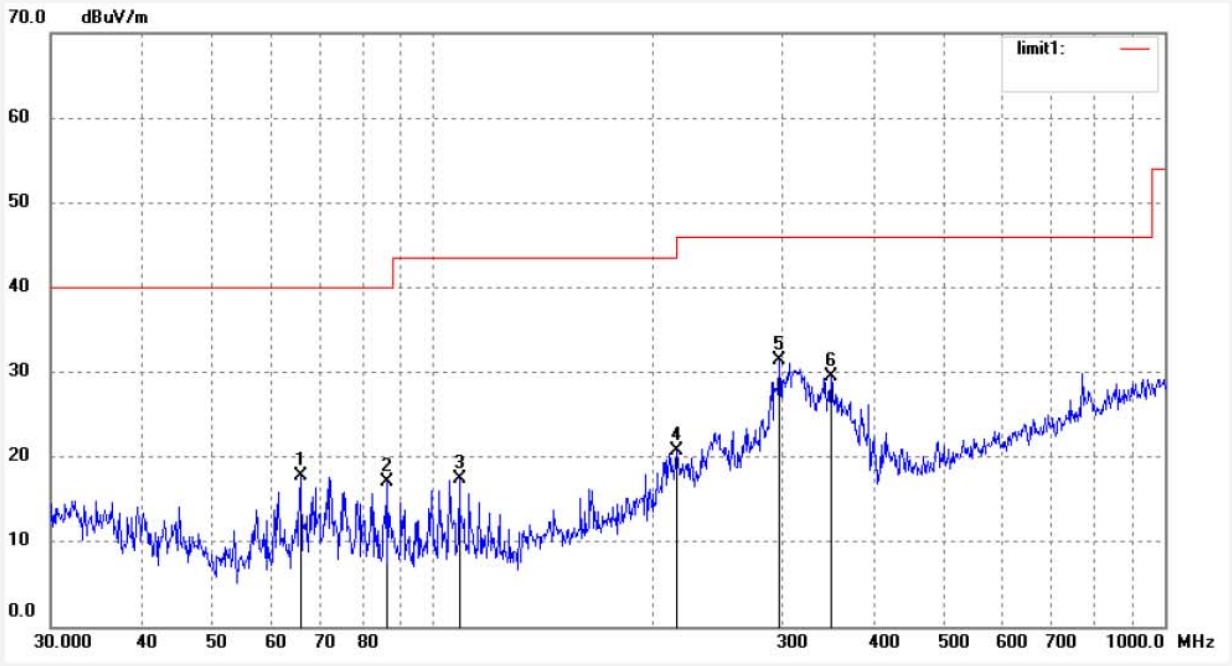
Job No.: DING #3477
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart Bracelet
Mode: TX 2402MHz
Model: F8
Manufacturer: FIRST COATING

Polarization: Horizontal
Power Source: DC 3.7V
Date: 17/04/18/
Time: 12/48/23
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	65.9067	39.69	-21.93	17.76	40.00	-22.24	peak			
2	86.3826	38.99	-21.95	17.04	40.00	-22.96	peak			
3	108.5455	39.47	-22.07	17.40	43.50	-26.10	peak			
4	215.3616	39.20	-18.41	20.79	43.50	-22.71	peak			
5	297.5459	47.15	-15.82	31.33	46.00	-14.67	peak			
6	349.7412	43.37	-13.82	29.55	46.00	-16.45	peak			

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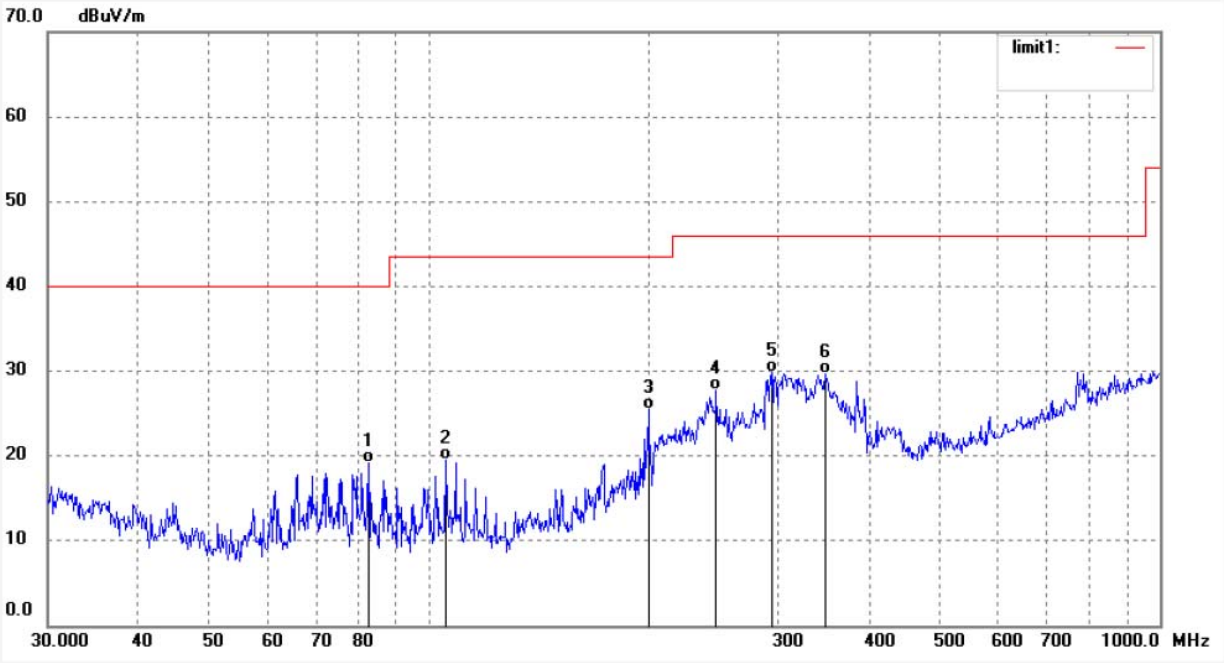
Job No.: DING #3478	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 17/04/18/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 12/49/18
EUT: Smart Bracelet	Engineer Signature: DING
Mode: TX 2440MHz	Distance: 3m
Model: F8	
Manufacturer: FIRST COATING	

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	82.5257	41.10	-21.99	19.11	40.00	-20.89	QP			
2	105.1668	42.24	-22.69	19.55	43.50	-23.95	QP			
3	199.3416	44.14	-18.69	25.45	43.50	-18.05	QP			
4	246.9901	45.93	-18.14	27.79	46.00	-18.21	QP			
5	294.4260	45.86	-15.95	29.91	46.00	-16.09	QP			
6	348.5145	43.61	-13.87	29.74	46.00	-16.26	QP			

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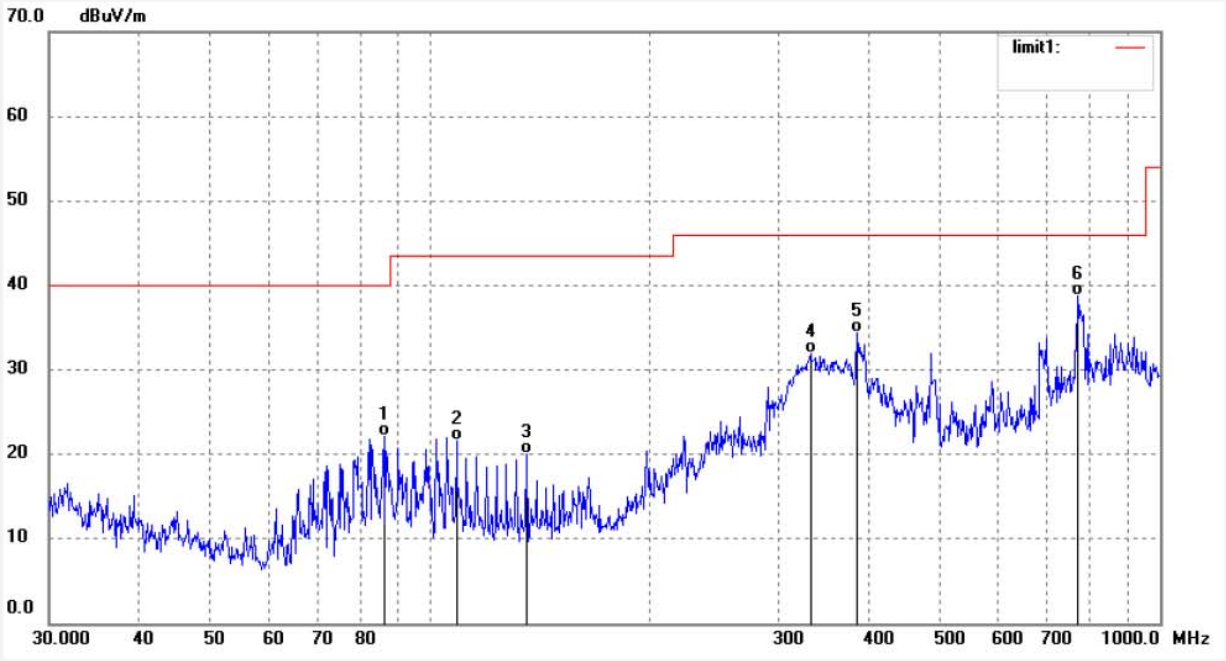
Job No.: DING #3479	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 17/04/18/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 12/50/32
EUT: Smart Bracelet	Engineer Signature: DING
Mode: TX 2440MHz	Distance: 3m
Model: F8	
Manufacturer: FIRST COATING	

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	86.3826	44.15	-21.95	22.20	40.00	-17.80	QP			
2	108.5455	43.76	-22.07	21.69	43.50	-21.81	QP			
3	135.4395	42.24	-22.24	20.00	43.50	-23.50	QP			
4	331.7858	46.50	-14.57	31.93	46.00	-14.07	QP			
5	384.5447	47.66	-13.21	34.45	46.00	-11.55	QP			
6	771.0475	43.48	-4.73	38.75	46.00	-7.25	QP			

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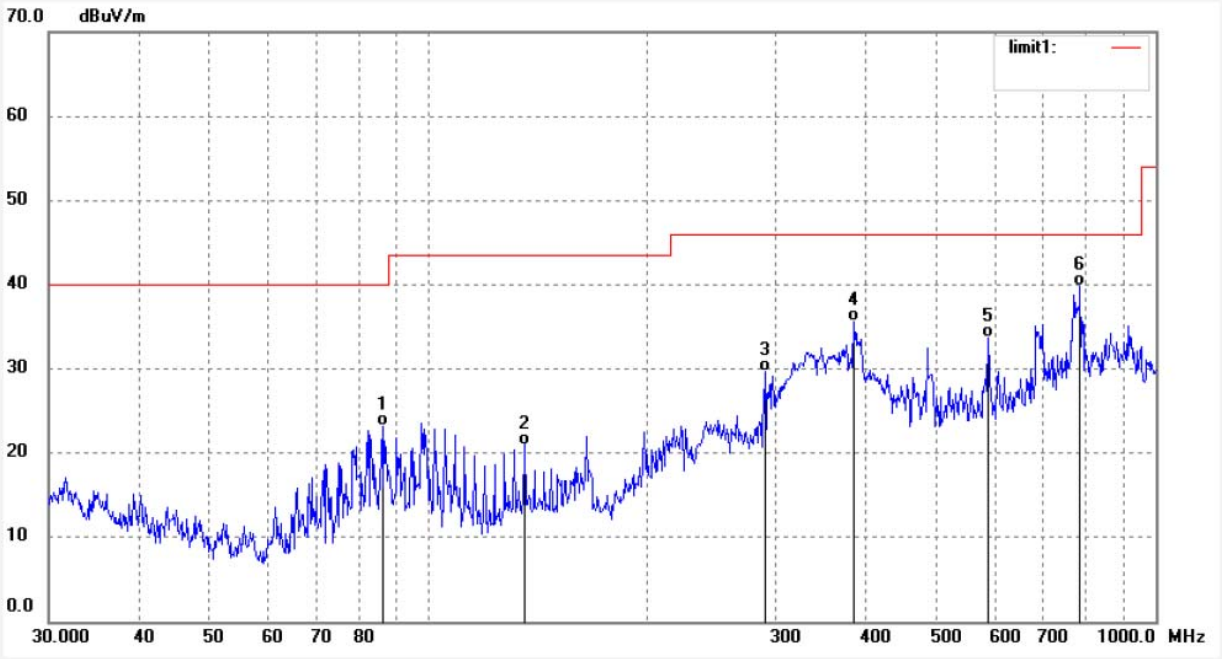
Job No.: DING #3480
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart Bracelet
Mode: TX 2480MHz
Model: F8
Manufacturer: FIRST COATING

Polarization: Vertical
Power Source: DC 3.7V
Date: 17/04/18/
Time: 12/50/58
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	86.3825	45.15	-21.95	23.20	40.00	-16.80	QP			
2	135.4395	43.24	-22.24	21.00	43.50	-22.50	QP			
3	290.3170	45.79	-16.15	29.64	46.00	-16.36	QP			
4	384.5446	48.74	-13.21	35.53	46.00	-10.47	QP			
5	588.2804	42.42	-8.69	33.73	46.00	-12.27	QP			
6	787.4749	44.29	-4.40	39.89	46.00	-6.11	QP			

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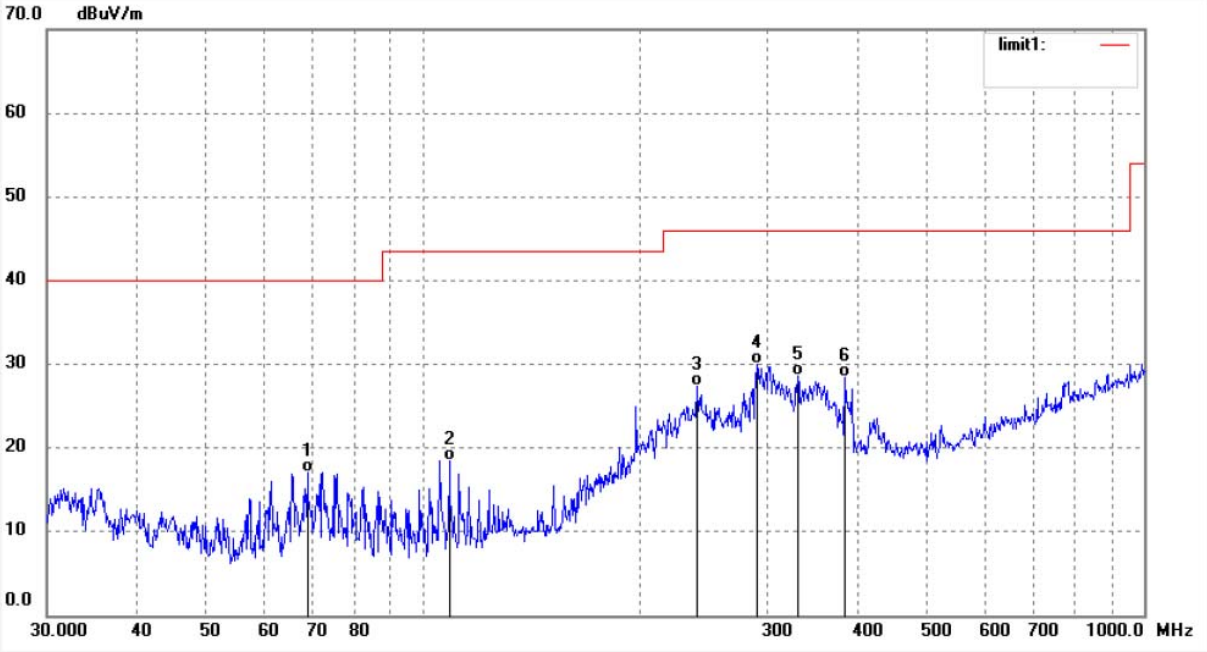
Job No.: DING #3481
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Smart Bracelet
Mode: TX 2480MHz
Model: F8
Manufacturer: FIRST COATING

Polarization: Horizontal
Power Source: DC 3.7V
Date: 17/04/18/
Time: 12/51/48
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	68.9869	39.12	-22.04	17.08	40.00	-22.92	QP			
2	108.5455	40.59	-22.07	18.52	43.50	-24.98	QP			
3	239.3020	45.52	-18.18	27.34	46.00	-18.66	QP			
4	290.3170	46.20	-16.15	30.05	46.00	-15.95	QP			
5	330.6220	43.16	-14.63	28.53	46.00	-17.47	QP			
6	384.5447	41.72	-13.21	28.51	46.00	-17.49	QP			

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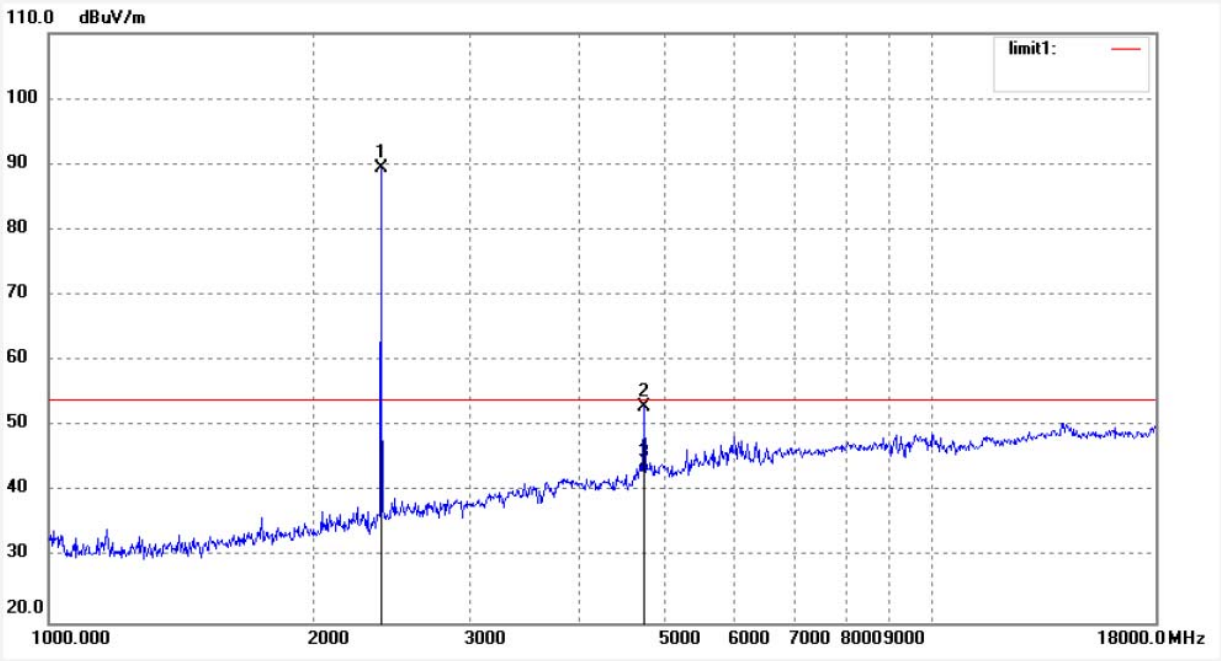
Job No.: ding1 #1355	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 17/04/18/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 8/51/06
EUT: Intelligent Bracelet	Engineer Signature: DING
Mode: TX 2402MHz	Distance: 3m
Model: F8	
Manufacturer: FIRST COATING	

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	95.35	-5.98	89.37	114.00	-24.63	peak			
2	4804.000	49.91	3.15	53.06	74.00	-20.94	peak			
3	4804.000	39.64	3.15	42.79	54.00	-11.21	AVG			

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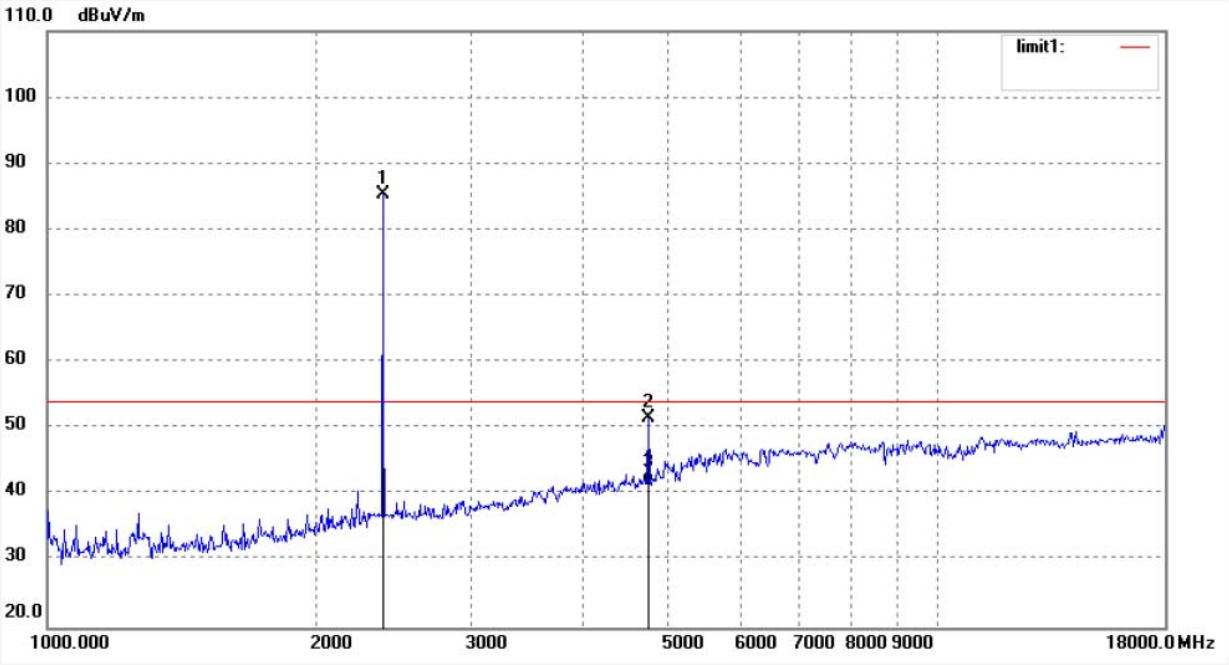
Job No.: ding1 #1356
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Intelligent Bracelet
Mode: TX 2402MHz
Model: F8
Manufacturer: FIRST COATING

Polarization: Vertical
Power Source: DC 5V
Date: 17/04/18/
Time: 8/54/29
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	91.44	-5.98	85.46	114.00	-28.64	peak			
2	4804.000	48.42	3.15	51.57	74.00	-22.43	peak			
3	4804.000	38.49	3.15	41.64	54.00	-12.36	AVG			

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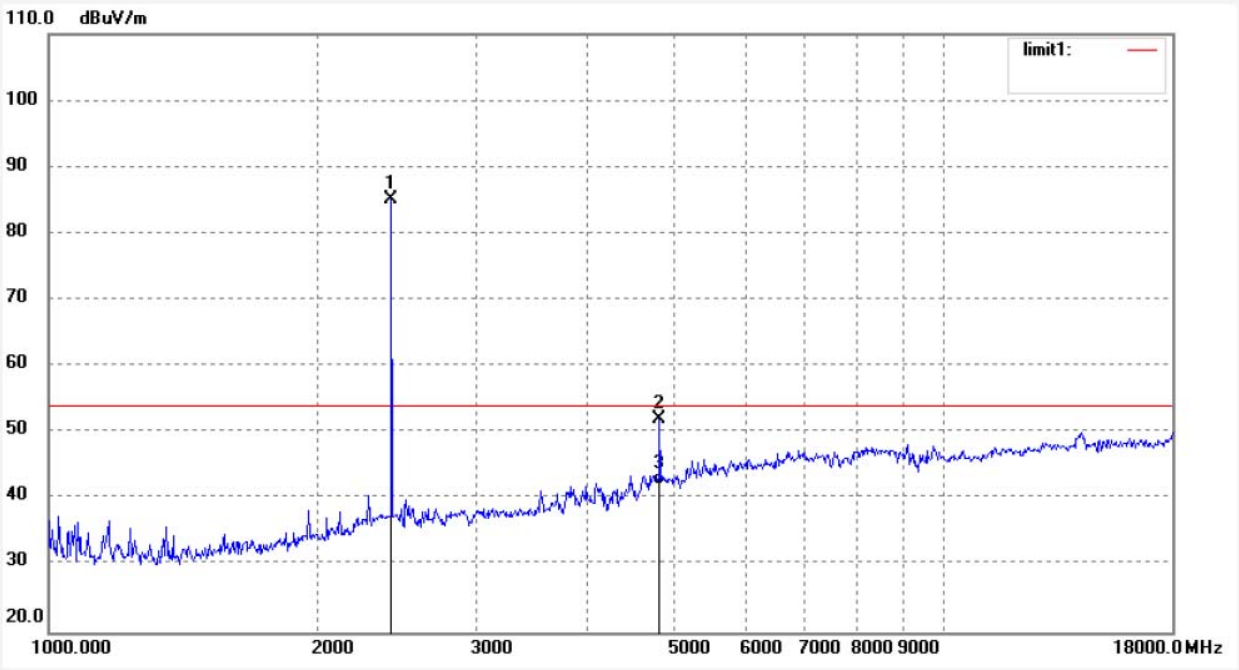
Job No.: ding1 #1357
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Intelligent Bracelet
Mode: TX 2440MHz
Model: F8
Manufacturer: FIRST COATING

Polarization: Vertical
Power Source: DC 5V
Date: 17/04/18/
Time: 8/57/32
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	90.84	-5.72	85.12	114.00	-28.88	peak			
2	4880.000	48.46	3.67	52.13	74.00	-21.87	peak			
3	4880.000	38.54	3.67	42.21	54.00	-11.79	AVG			

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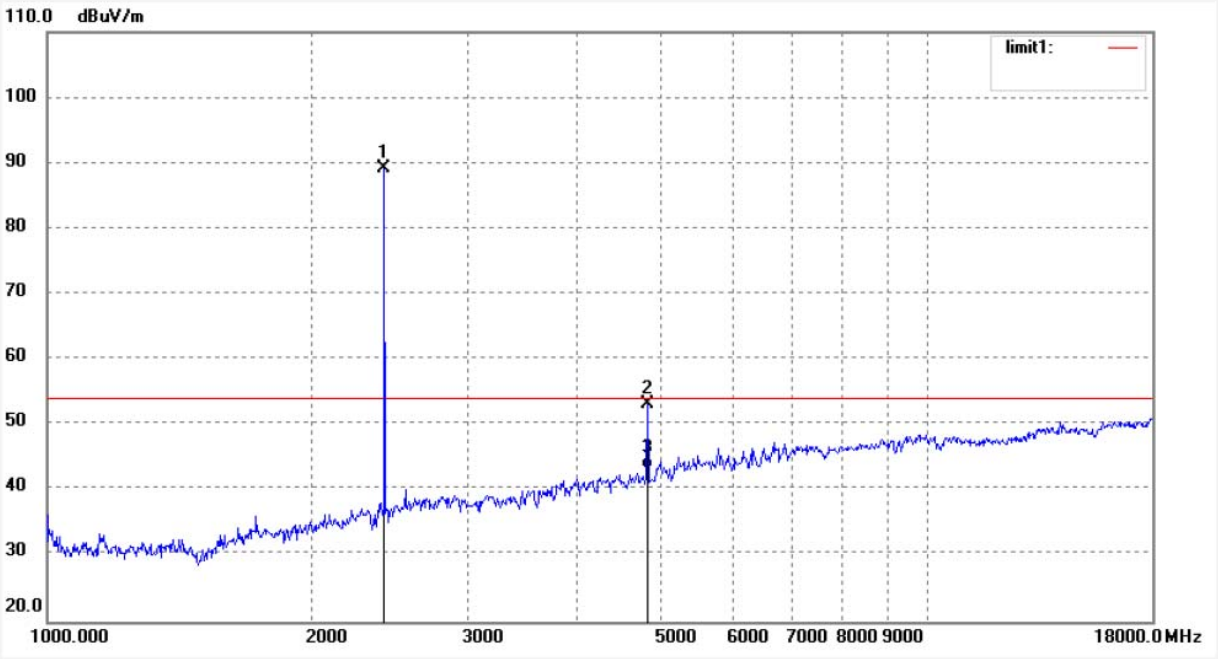
Job No.: ding1 #1358	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 17/04/18/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/00/30
EUT: Intelligent Bracelet	Engineer Signature: DING
Mode: TX 2440MHz	Distance: 3m
Model: F8	
Manufacturer: FIRST COATING	

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	94.90	-5.72	89.18	114.00	-24.82	peak			
2	4880.000	49.63	3.53	53.16	74.00	-20.84	peak			
3	4880.000	39.74	3.53	43.27	54.00	-10.73	AVG			

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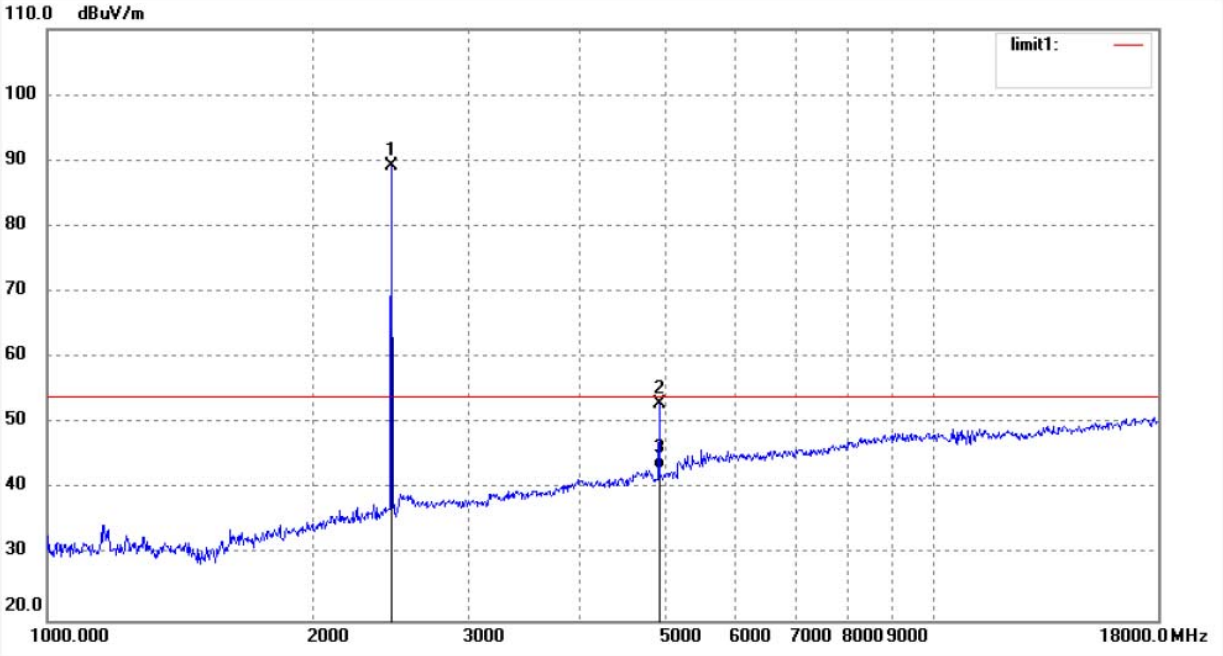
Job No.: ding1 #1359
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Intelligent Bracelet
Mode: TX 2480MHz
Model: F8
Manufacturer: FIRST COATING

Polarization: Horizontal
Power Source: DC 5V
Date: 17/04/18/
Time: 9/03/40
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	94.72	-5.55	89.17	114.00	-24.83	peak			
2	4960.000	48.52	4.54	53.06	74.00	-20.94	peak			
3	4960.000	38.49	4.54	43.03	54.00	-10.97	AVG			

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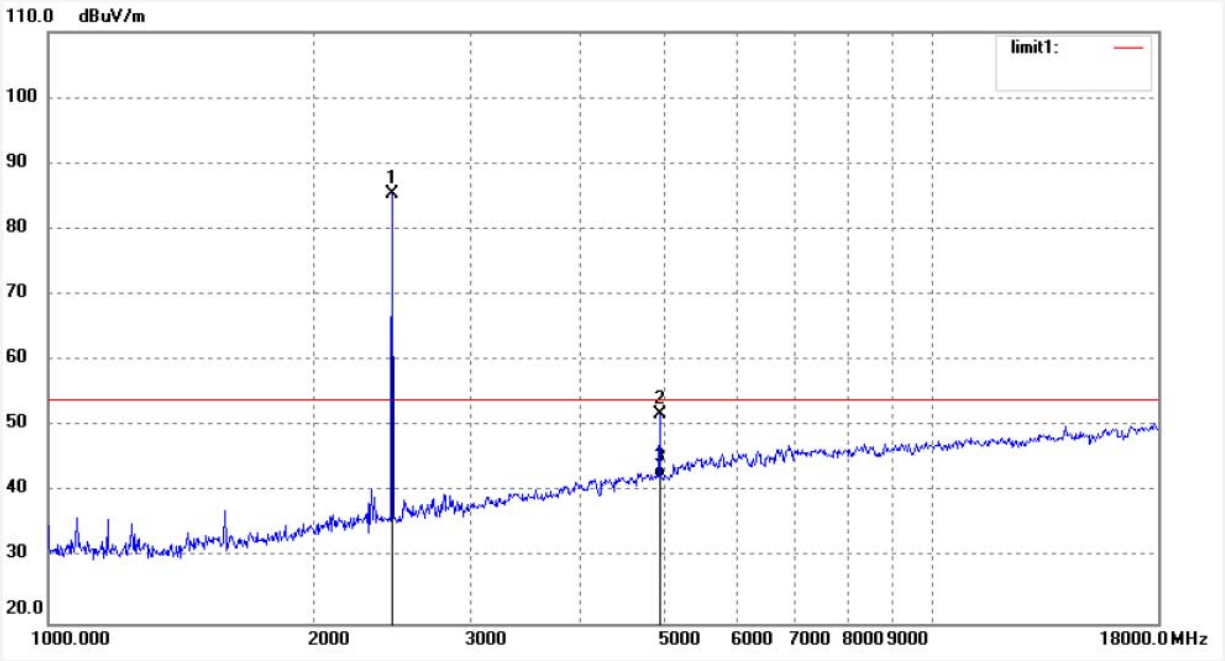
Job No.: ding1 #1360
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Intelligent Bracelet
Mode: TX 2480MHz
Model: F8
Manufacturer: FIRST COATING

Polarization: Vertical
Power Source: DC 5V
Date: 17/04/18/
Time: 9/07/43
Engineer Signature: DING
Distance: 3m

Note: Report NO.:ATE20170457



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	90.95	-5.55	85.40	114.00	-28.60	peak			
2	4960.000	47.32	4.54	51.86	74.00	-22.14	peak			
3	4960.000	37.56	4.54	42.10	54.00	-11.90	AVG			

11. ANTENNA REQUIREMENT

11.1. The Requirement

According to 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.

11.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 0 dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.