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Report Reference No	TRE1804014001 R/	C: 26635			
FCC ID:	2AP4ECF377BLE				
Applicant's name:	Shenzhen Unique Scales Co., L	td.			
Address	6th FL., Building A, Huafeng Gree No.22 Longteng Road,	en Energy Innovation Park,			
	Pingdi Street, Longgang District 518117, ShenZhen, China.				
Manufacturer	Shenzhen Unique Scales Co., Lto	ł.			
Address:	: 6th FL., Building A, Huafeng Green Energy Innovation Park, No.22 Longteng Road, Pingdi Street, Longgang District 518117, ShenZhen, China.				
Test item description	Bluetooth Body Fat Sacle	fiorri, onenznen, onina.			
Trade Mark	-				
Model/Type reference:	CF377BLE				
Listed Model(s)	CF368BLE,CF381BLE,CF387BLE 1BLE,CF396BLE,CF377BLELCD BLE- LCD,CF369BLE,CF376BLE,CF36	,CF398BLE,CF500BLE,CF39			
Standard:	FCC CFR Title 47 Part 15 Subpa				
Date of receipt of test sample:	Apr.20,2018				
Date of testing	Apr.20,2018- May.03,2018				
Date of issue	May.03,2018				
Result	PASS				
Compiled by (Position+Printed name+Signature) :	File administrators Fanghui Zhu	Janghui Zhu Zdward pan Hamsty			
Supervised by (Position+Printed name+Signature) :	Project Engineer Edward Pan	Edward pan			
Approved by (Position+Printed name+Signature) :	RF Manager Hans Hu	Homsty			
Testing Laboratory Name	Shenzhen Huatongwei Internati	onal Inspection Co., Ltd.			
Address	1/F, Bldg 3, Hongfa Hi-tech Indus Tianliao, Gongming, Shenzhen, C				

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

<u>KDB 558074 D01 DTS Meas Guidance v04:</u> Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating under §15.247

1.2. Report version

Version No.	Date of issue	Description
N/A	May.03,2018	Original

2. TEST DESCRIPTION

Test Item	FCC Rule	Result	Test Engineer	
Antenna requirement	15.203/15.247(c)	PASS	Baozhu Hu	
Line Conducted Emissions (AC Main)	15.207	N/A	N/A	
Conducted Peak Output Power	15.247(b)(3)	PASS	Baozhu Hu	
Power Spectral Density	15.247(e)	PASS	Baozhu Hu	
6dB Bandwidth	15.247(a)(2)	PASS	Baozhu Hu	
Restricted band	15.247(d)/15.205	PASS	Baozhu Hu	
Spurious Emissions	15.247(d)/15.209	PASS	Baozhu Hu	

Note: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	Shenzhen Unique Scales Co., Ltd.
Address:6th FL., Building A, Huafeng Green Energy Innovation Park, No.2 Longteng Road, Pingdi Street, Longgang District 518117, ShenZhen, China.	
Manufacturer: Shenzhen Unique Scales Co., Ltd.	
Address:	6th FL., Building A, Huafeng Green Energy Innovation Park, No.22 Longteng Road, Pingdi Street, Longgang District 518117, ShenZhen, China.

3.2. Product Description

Name of EUT: Bluetooth Body Fat Sacle	
Trade Mark:	-
Model No.:	CF377BLE
Listed Model(s):	CF368BLE,CF381BLE,CF387BLE,CF388BLE,CF390BLE,CF391BLE,CF3 96BLE,CF377BLELCD,CF398BLE,CF500BLE,CF393BLELCD,CF369BLE ,CF376BLE,CF366BLE,CF379BLE,CF351BLE
Power supply:	DC6V 4*AAA Size Battery
Adapter information: -	
Bluetooth	
Version:	Supported BT4.0+BLE
Modulation:	GFSK
Operation frequency:	2402MHz~2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	PCB Antenna
Antenna gain:	5.3dBi

3.3. Operation state

Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

Channel	Frequency (MHz)
00	2402
01	2404
:	:
19	2440
÷	:
38	2478
39	2480

Test mode

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit (duty cycle>98%).

For AC power line conducted emissions:

The EUT was set to connect with the Bluetooth instrument under large package sizes transmission.

For Radiated suprious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit(duty cycle>98%). The EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data Recorded in the report.

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- supplied by the lab

	1	Manufacturer:	/
		Model No.:	/
1	1	Manufacturer:	/
	7	Model No.:	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd. Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

4.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. 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.

IC-Registration No.:5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No.: 5377B-1.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors in calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd. quality system according to ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Here after the best measurement capability for Shenzhen Huatongwei International Inspection Co., Ltd. is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.39 dB	(1)
Radiated Emissions 30~1000MHz	4.24 dB	(1)
Radiated Emissions 1~18GHz	5.16 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)

 This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.5. Equipments Used during the Test

Condu	cted Emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
1	EMI Test Receiver	R&S	ESCI	101247	11/11/2017	11/10/2018
2	Artificial Mains	SCHWARZBECK	NNLK 8121	573	11/11/2017	11/10/2018
3	2-Line V- Network	R&S	ESH3-Z5	100049	11/11/2017	11/10/2018
4	Pulse Limiter	R&S	ESH3-Z2	101488	11/11/2017	11/10/2018
5	RF Connection Cable	HUBER+SUHNER	EF400	N/A	11/21/2017	11/20/2018
6	Test Software	R&S	ES-K1	N/A	N/A	N/A
Padiat	ed Emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
1	Semi- Anechoic Chamber	Albatross projects	SAC-3m-01	C11121	10/16/2016	10/15/2019
2	EMI Test Receiver	R&S	ESCI	100900	11/11/2017	11/10/2018
3	Loop Antenna	R&S	HFH2-Z2	100020	11/20/2017	11/19/2020
4	Ultra- Broadband Antenna	SCHWARZBECK	VULB9163	538	4/5/2017	4/4/2020
5	Horn Antenna	SCHWARZBECK	9120D	1011	3/27/2017	3/26/2020
6	Broadband Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170 472	3/27/2017	3/26/2020
7	Pre-amplifier	SCHWARZBECK	BBV 9743	9743-0022	10/18/2017	10/17/2018
8	Broadband Pre-amplifier	SCHWARZBECK	BBV 9718	9718-248	10/18/2017	10/17/2018
9	Spectrum Analyzer	R&S	FSP40	100597	11/11/2017	11/10/2018
10	RF Connection Cable	HUBER+SUHNE R	RE-7-FL	N/A	11/21/2017	11/20/2018
11	RF Connection Cable	HUBER+SUHNE R	RE-7-FH	N/A	11/21/2017	11/20/2018
12	Test Software	Audix	E3	N/A	N/A	N/A
13	Test Software	R&S	ES-K1	N/A	N/A	N/A
14	Turntable	Maturo Germany	TT2.0-1T	N/A	N/A	N/A
15	Antenna Mast	Maturo Germany	CAM-4.0-P-12	N/A	N/A	N/A

RF Con	RF Conducted Test							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)		
1	Spectrum Analyzer	R&S	FSV40	100048	11/11/2017	11/10/2018		
2	EXA Signal Analyzer	Agilent	N9020A	184247	9/22/2017	9/21/2018		
3	Power Meter	Agilent	U2021XA	178231	9/22/2017	9/21/2018		
4	OSP	R&S	OSP120	101317	N/A	N/A		

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responseble party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

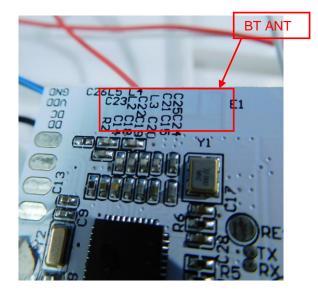
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

TEST RESULTS

☑ Passed □ Not Applicable

The directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



5.2. Conducted Emissions (AC Main)

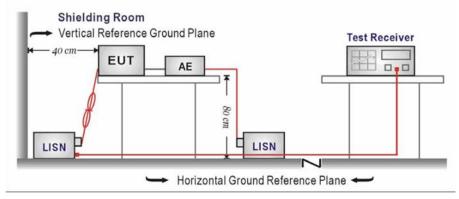
<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.207

	Limit (dBuV)				
Frequency range (MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

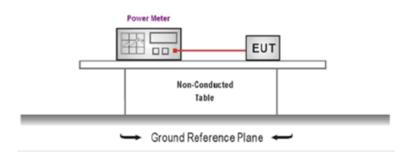
□ Passed ⊠ Not Applicable

5.3. Conducted Peak Output Power

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30 dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.10: 2013 and KDB 558074 D01 for compliance to FCC 47 CFR 15.247 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
- 4. Record the measurement data.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Passed [

Not Applicable

Туре	Channel	Output power (dBm)	Limit (dBm)	Result	
	00	-6.09			
BT-BLE	19	-8.01	≤30.00	Pass	
	39	-9.71			

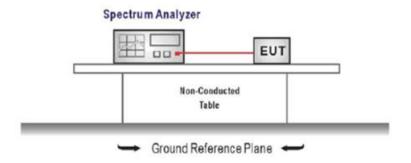
5.4. Power Spectral Density

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C 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.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input,

 Configure the spectrum analyzer as shown below: Center frequency=DTS channel center frequency Span =1.5 times the DTS bandwidth RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW Sweep time = auto couple Detector = peak Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE:

Please refer to the clause 3.3

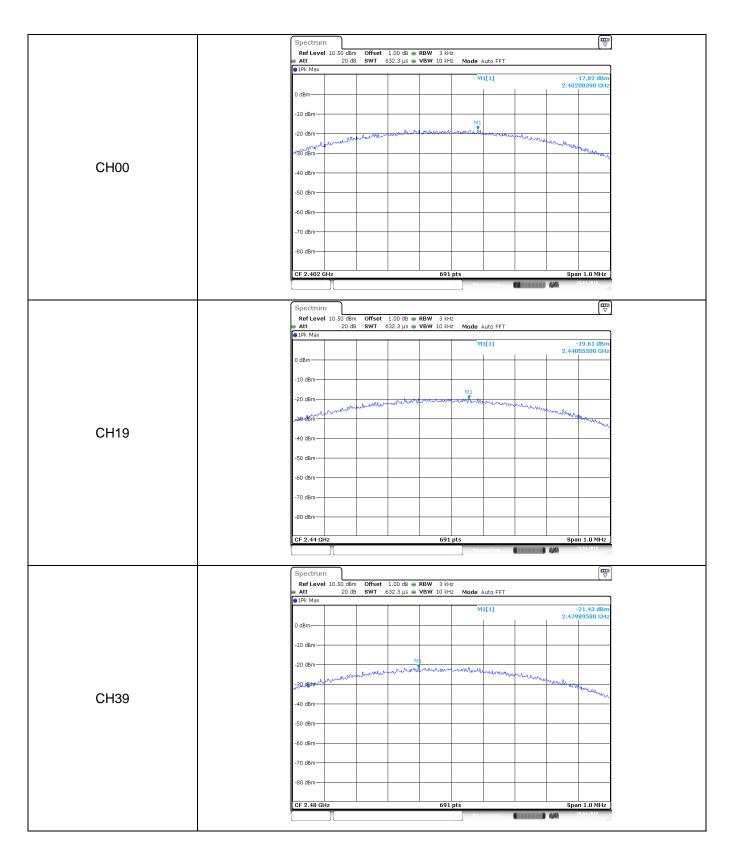
TEST RESULTS

☑ Passed □ Not Applicable

Туре	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
	00	-17.82		
BT-BLE	19	-19.61	≤8.00	Pass
	39	-21.43		

Test plot as follows:

Shenzhen Huatongwei International Inspection Co., Ltd.



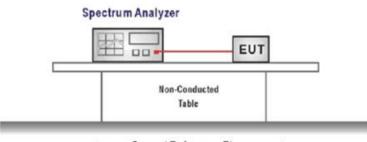
5.5. 6dB bandwidth

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



Ground Reference Plane

TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =DTS channel center frequency Span=2 x DTS bandwidth RBW = 100 kHz, VBW ≥ 3 × RBW Sweep time= auto couple Detector = Peak Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Туре	Channel	6dB Bandwidth(MHz)	Limit (kHz)	Result	
	00	0.68			
BT-BLE	19	0.69	≥500	Pass	
	39	0.68			

Test plot as follows:

I	
	Spectrum Ref Level 10.50 dBm Offset 1.00 dB ● RBW 100 kHz
	Att 20 dB SWT 19.1 µs • VBW 300 kHz Mode Auto FFT
	●1Pk View M1[1] -12.46 dBm
	0 dBm 2.40163800 GHz • MR[z] -6.43 dBm
	10.4m M1 2.40222000 GHz
	-20 dBm
	-30 dBm
	-40 dBm-
CH00	-50 dBm-
	-60 dBm
	-70 dBm
	-80 dBm-
	CF 2.402 GHz 1001 pts Span 2.0 MHz
	Marker
	Type Ref Trc X-value Y-value Function Function Result M1 1 2.401638 GHz -12.46 dBm -12.46 dBm
	M2 1 2.40222 GHz -6.43 dBm D3 M1 1 680.0 kHz -0.01 dB
	Spectrum 🕎
	RefLevel 10.50 dBm Offset 1.00 dB
	IPk View
	M1[1] -14.18 dBm 2.43963200 GHz
	0 dBm
	-10 dBm 01 -14.127 dBm 03
	-20 dBm
	-30 dBm
01140	
CH19	-50 dBm-
	-60 dBm-
	-70 dBm
	-80 dBm
	-ou uoin-
	CF 2.44 GHz 1001 pts Span 2.0 MHz
	Marker Type Ref Trc X-value Function Function Result
	M1 1 2.439632 GHz -14.18 dBm M2 1 2.440218 GHz -8.13 dBm
	D3 M1 1 686.0 kHz 0.03 dB
	Measuring (111111) 440 24.642018
	Spectrum Ref Level 10.50 dBm Offset 1.00 dB ● RBW 100 kHz
	Att 20 dB SWT 19.1 μs SVBW 300 kHz Mode Auto FFT
	●1Pk View M1[1] -15.92 dBm
	2.47962200 GHz
	M2 2.47972200 GHz
	-10 dBm 01 -15.868 dBm 7 23
	-20 dBm
	-30 dBm
	40 dan
СНЗО	-to dan
СН39	40 dBm
CH39	-to dan
CH39	40 dBm
CH39	-50 dBm
CH39	40 dBm -50 dBm -50 dBm -50 dBm -60 dBm -50 dBm -70 dBm -50 dBm
CH39	40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -60 dBm -70 dBm
CH39	40 dBm -50 dBm -50 dBm -60 dBm -60 dBm -60 dBm -70 dBm -60 dBm -80 dBm -60 dBm -80 dBm -70 dBm -90 dBm -70 dBm 9
CH39	40 dBm -50 dBm -50 dBm -60 dBm -60 dBm -60 dBm -70 dBm -60 dBm -80 dBm -60 dBm -80 dBm -70 dBm
CH39	NO dBm

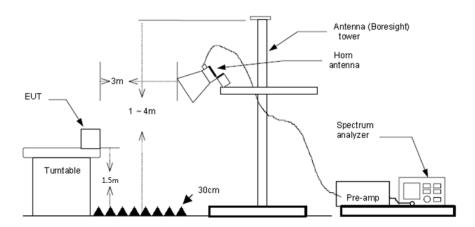
5.6. Restricted band

<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C 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, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- The receiver set as follow: RBW=1MHz, VBW=3MHz Peak detector for Peak value. RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note:

- 1) Final level= Read level + Antenna Factor+ Cable Loss- Preamp Factor
- The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.

Test channel					СН00				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n	Test value
2310.00	30.15	28.05	6.62	37.59	27.23	74.00	-46.77	Vertical	Peak
2390.03	32.95	27.65	6.75	37.59	29.76	74.00	-44.24	Vertical	Peak
2310.00	30.60	28.05	6.62	37.59	27.68	74.00	-46.32	Horizontal	Peak
2390.03	33.13	27.65	6.75	37.59	29.94	74.00	-44.06	Horizontal	Peak
2310.00	23.42	28.05	6.62	37.59	20.50	54.00	-33.50	Horizontal	Average
2390.03	26.29	27.65	6.75	37.59	23.10	54.00	-30.90	Horizontal	Average
2310.00	24.31	28.05	6.62	37.59	21.39	54.00	-32.61	Vertical	Average
2390.03	26.80	27.65	6.75	37.59	23.61	54.00	-30.39	Vertical	Average

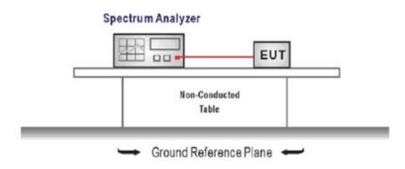
Test channel					СН39				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2483.50	34.56	27.26	6.83	37.59	31.06	74.00	-42.94	Vertical	Peak
2500.00	31.42	27.20	6.84	37.59	27.87	74.00	-46.13	Vertical	Peak
2483.50	34.73	27.26	6.83	37.59	31.23	74.00	-42.77	Horizontal	Peak
2485.72	34.22	27.26	6.83	37.59	30.72	74.00	-43.28	Horizontal	Peak
2500.00	30.39	27.20	6.84	37.59	26.84	74.00	-47.16	Horizontal	Peak
2483.50	26.68	27.26	6.83	37.59	23.18	54.00	-30.82	Vertical	Average
2485.79	26.86	27.26	6.83	37.59	23.36	54.00	-30.64	Vertical	Average
2500.00	22.02	27.20	6.84	37.59	18.47	54.00	-35.53	Vertical	Average
2483.50	28.87	27.26	6.83	37.59	25.37	54.00	-28.63	Horizontal	Average
2485.82	28.48	27.26	6.83	37.59	24.98	54.00	-29.02	Horizontal	Average
2500.00	23.30	27.20	6.84	37.59	19.75	54.00	-34.25	Horizontal	Average

5.7. Band edge and Spurious Emissions (conducted)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- Establish a reference level by using the following procedure Center frequency=DTS channel center frequency The span = 1.5 times the DTS bandwidth. RBW = 100 kHz, VBW ≥ 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold Allow trace to fully stabilize Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

3. Emission level measurement Set the center frequency and span to encompass frequency range to be measured RBW = 100 kHz, VBW ≥ 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold Allow trace to fully stabilize Use the peak marker function to determine the maximum amplitude level.

- 4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE:

Please refer to the clause 3.3

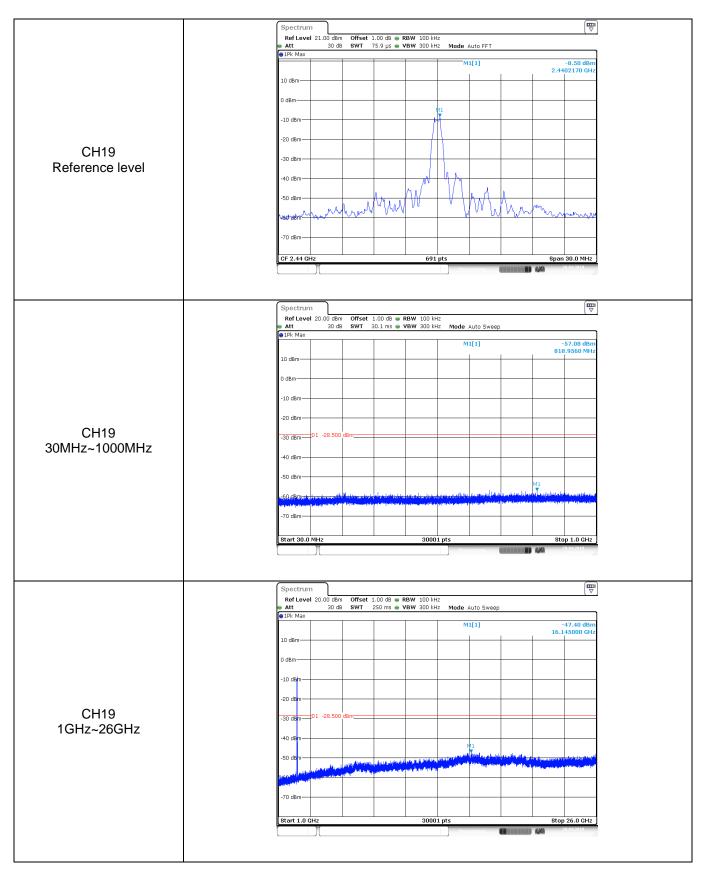
TEST RESULTS

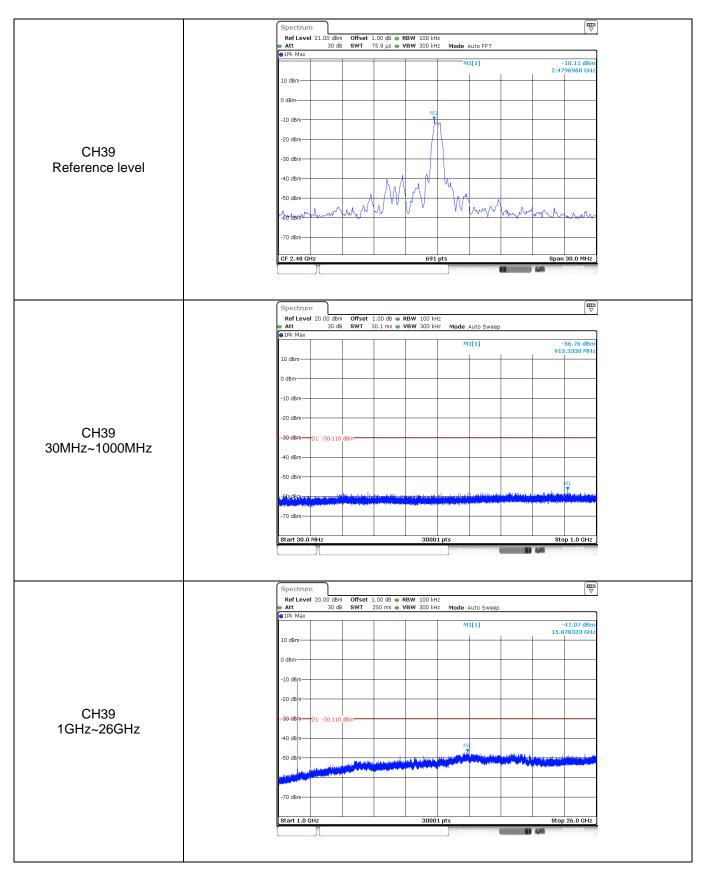
🛛 Passed 🛛 🗌 N

Not Applicable

est Item:	Band edge
	Spectrum RefLevel 10.50 dBm Offset 1.00 dB ● RBW 100 kHz
	Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep I/k Max
	0 dBm
	-10 dBm
	-20 dBm 01 -26.360 dB
	-40 dBm
CH00	-50 dBm-
	-90 dBm
	Start 2.31 GHz 691 pts Stap 2.405 GHz
	Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.40218 GHz -6.36 dBm Function Function Function
	M2 1 2.4 GHz -43.95 dBm M3 1 2.39 GHz -60.64 dBm M4 1 2.31 GHz -60.42 dBm
	M5 1 2.399355 GHz -41.72 dBm 2004201
	Spectrum
	RefLevel 10.50 dBm Offset 1.00 dB ● RBW 100 kHz ● Att 20 dB SWT 56.9 µs ● VBW 300 kHz Mode Auto FFT ● IPK Max
	0 d8m M1[1] -10.13 d8m 2.4797350 GHz M2[1] -55.01 d8m
	M1 -10 dBm
	-20 dBm - 01 -30.130 dBm
	40 Abr
CH39	
	-60 dBm
	-80 dBm
	Start 2.478 GHz 691 pts Stap 2.5 GHz Marker Type Ref Trc X-value Function Function Result
	M1 1 2.479735 GHz -10.13 dBm M2 1 2.4835 GHz -55.01 dBm M3 1 2.5 GHz -64.30 dBm
	M4 1 2.4857478 GHz -51.60 dBm 22.04231

est Item:	SE	
		Spectrum ₩
		Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 µs VBW 300 kHz Mode Auto FFT
		10 dBm
		0 dBm-
		-10 dBm
		-20 dBm
CH00		
Reference level		-30 dBm
		-40 dBm-
		-so dam
		Hadragen Christian Christi
		-70 dBm
		CF 2.402 GHz 691 pts Span 30.0 MHz
		Neasuring (1111111) 🚧 28.642015
		Spectrum [] Ref Level 20.00 dBm Offset 1.00 dB ● RBW 100 kHz
		Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep
		M1[1] -57.54 dBm 918.6360 MHz
		10 dBm
		0 dBm-
		-10 dBm
		-20 dBm-
CH00		-30 dBm
30MHz~1000MHz		-40 dBm
		-50 dBm
		a Belline terreter in the second production of the product of the product of the second bear of the second product of the second pro
		-70 dBm-
		Start 30.0 MHz 30001 pts Stop 1.0 GHz
		Mesonder (Internet Add 2000)
		Spectrum 🕎
		RefLevel 20.00 dBm Offset 1.00 dB ● RBW 100 kHz Att 30 dB SWT 250 ms ● VBW 300 kHz Mode Auto Sweep
		Att 30 08 SW1 250 ms VBW 300 kHz M008 Auto Sweep IPk Max M1[1] -46.59 dBm
		M1[1] -40.39 0Bm 15.842500 GHz 10 dBm
		0 dBm
		-10 dBm-
01100		-20 dBm
CH00 1GHz~26GHz		-30 dBm
		-40 d8mM
		-70 dBm
		Start 1.0 GHz 30001 pts Stop 26.0 GHz





5.8. Spurious Emissions (radiated)

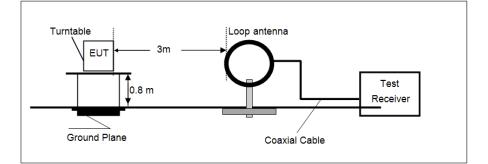
<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.209

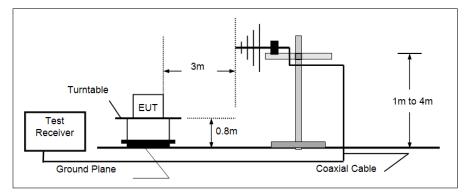
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGH2	74.00	Peak

TEST CONFIGURATION

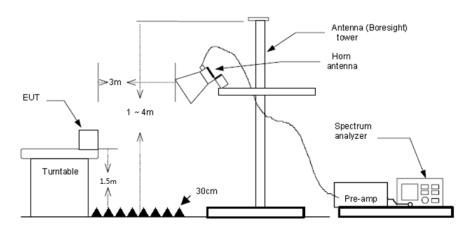
➢ 9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

 (3) From 1 GHz to 10th harmonic: RBW=1MHz, VBW=3MHz Peak detector for Peak value. RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

Note:

- 1) Above 1GHz Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2) The emission levels of other frequencies are very lower than the limit and not show in test report.

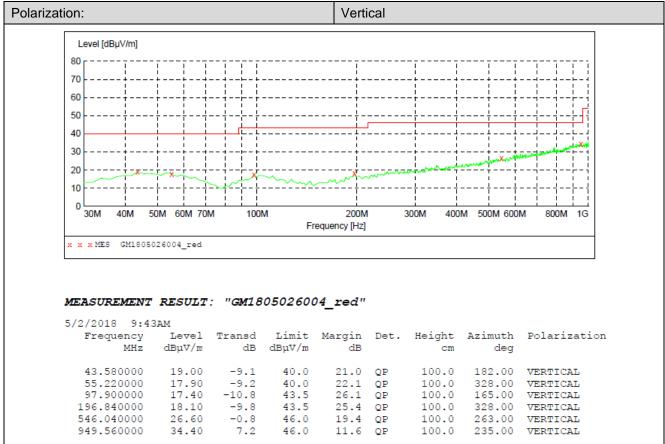
➢ 9 kHz ~ 30 MHz

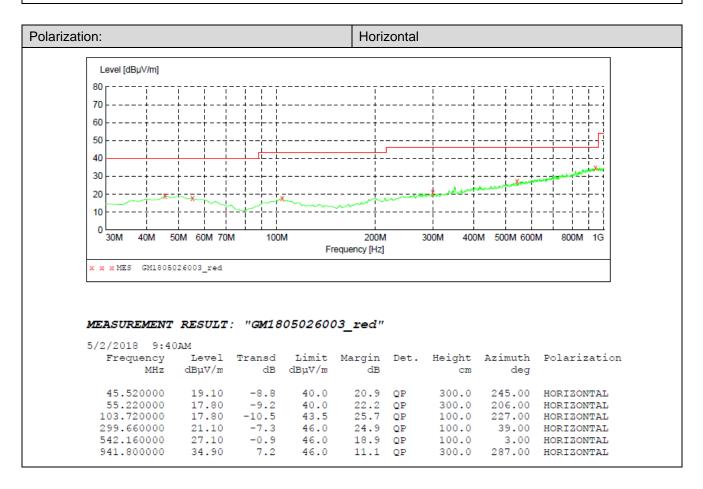
The EUT was pre-scanned the frequency band (9 kHz ~ 30 MHz), found the radiated level lower than the limit, so don't show on the report.

≻ 30 MHz ~ 1000 MHz

Have pre-scan all modulation mode, found the BT-BLE mode CH39 which it was worst case, so only the worst case's data on the test report.

➢ 30 MHz ~ 1 GHz





\triangleright	1	GHz	~	25	GHz	

Test channe	el l				CH00				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1593.34	38.96	24.96	5.55	37.18	32.29	74.00	-41.71	Vertical	Peak
1676.56	37.74	25.13	5.72	37.28	31.31	74.00	-42.69	Vertical	Peak
4809.50	40.86	31.58	9.55	35.72	46.27	74.00	-27.73	Vertical	Peak
7209.02	31.28	36.21	11.87	33.51	45.85	74.00	-28.15	Vertical	Peak
1593.34	35.72	24.96	5.55	37.18	29.05	74.00	-44.95	Horizontal	Peak
3570.71	32.44	29.21	8.22	37.08	32.79	74.00	-41.21	Horizontal	Peak
4809.50	35.15	31.58	9.55	35.72	40.56	74.00	-33.44	Horizontal	Peak
7135.98	30.04	35.82	11.86	33.64	44.08	74.00	-29.92	Horizontal	Peak

Test channel					CH19					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value	
1597.40	40.05	24.92	5.56	37.19	33.34	74.00	-40.66	Vertical	Peak	
2129.79	34.83	26.94	6.38	37.60	30.55	74.00	-43.45	Vertical	Peak	
4883.52	39.10	31.43	9.59	35.58	44.54	74.00	-29.46	Vertical	Peak	
6696.01	31.34	34.20	11.48	33.72	43.30	74.00	-30.70	Vertical	Peak	
1593.34	36.09	24.96	5.55	37.18	29.42	74.00	-44.58	Horizontal	Peak	
3176.16	33.57	28.80	7.69	37.42	32.64	74.00	-41.36	Horizontal	Peak	
4883.52	35.68	31.43	9.59	35.58	41.12	74.00	-32.88	Horizontal	Peak	
7941.19	31.14	36.87	12.58	33.06	47.53	74.00	-26.47	Horizontal	Peak	

Test channel					CH39					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value	
1593.34	40.06	24.96	5.55	37.18	33.39	74.00	-40.61	Vertical	Peak	
2124.37	36.46	26.90	6.38	37.60	32.14	74.00	-41.86	Vertical	Peak	
4958.68	35.99	31.46	9.64	35.45	41.64	74.00	-32.36	Vertical	Peak	
7566.25	31.00	36.17	12.61	33.03	46.75	74.00	-27.25	Vertical	Peak	
1597.40	36.58	24.92	5.56	37.19	29.87	74.00	-44.13	Horizontal	Peak	
3834.51	32.99	29.63	8.55	36.88	34.29	74.00	-39.71	Horizontal	Peak	
4958.68	33.42	31.46	9.64	35.45	39.07	74.00	-34.93	Horizontal	Peak	
6561.03	31.78	34.12	11.29	33.65	43.54	74.00	-30.46	Horizontal	Peak	

Remark:

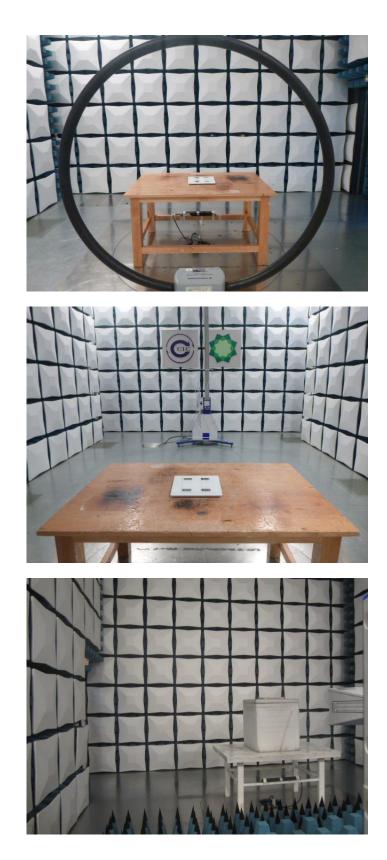
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. The peak level is lower than average limit(54dBuV/m), this data is the too weak instrument of signal is unable to test.

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

6. TEST SETUP PHOTOS

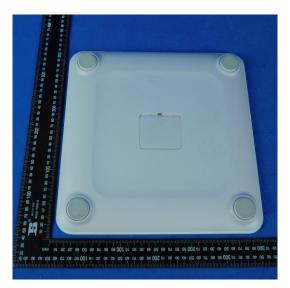
Radiated Emissions

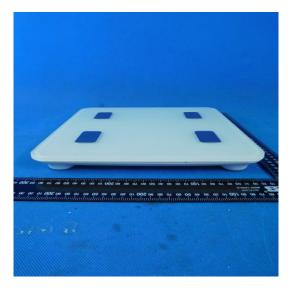


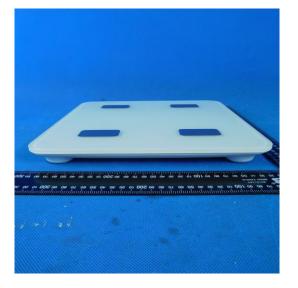
7. EXTERANAL AND INTERNAL PHOTOS

External Photos

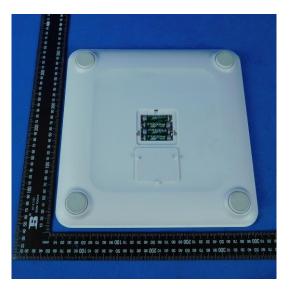


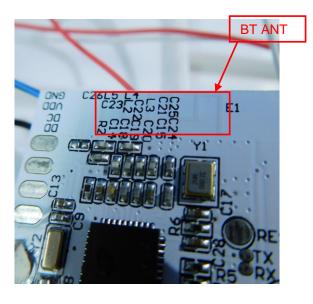


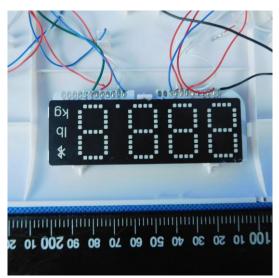


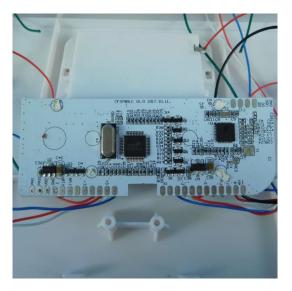


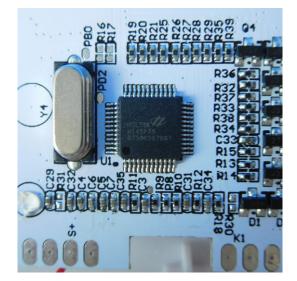
Internal Photos











-----End of Report------