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Report Template Version: V03 Report Template Revision Date: Mar.1st, 2017

# **Test Report**

Report No. :	CQASZ20190500355E-01		
Applicant:	Shenzhen Qianhaiyifan Technology Co., Ltd.		
Address of Applicant:	Six Floor Xingguangbao Industrial park Huaning Road Dalang Longhua Shenzhen, China		
Manufacturer:	Shenzhen Qianhaiyifan Technology Co., Ltd.		
Address of Manufacturer:	Six Floor Xingguangbao Industrial park Huaning Road Dalang Longhua Shenzhen, China		
Equipment Under Test (E	UT):		
Product:	Smart Watch		
All Model No.:	F11, F12, F15, F16, F17, F19, F25		
Test Model No.:	F15		
Brand Name:	N/A		
FCC ID:	2AONX-F15		
Standards:	47 CFR Part 15, Subpart C		
Date of Test:	2019-05-16 to 2019-05-21		
Date of Issue:	2019-05-21		
Test Result :	PASS*		

Tested By: (Daisy Qin) NON **Reviewed By:** Aaron Ma ) PPROVE Approved By: ( Jack Ai)

\* In the configuration tested, the EUT complied with the standards specified above.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



# 1 Version

### **Revision History Of Report**

Report No.	Version	Description	Issue Date
CQASZ20190500355E-01	Rev.01	Initial report	2019-05-21



# 2 Test Summary

Test Item Test Requirement		Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious47 CFR Part 15, Subpart CEmissions15.247(d)	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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# 4 General Information

### 4.1 Client Information

Applicant:	Shenzhen Qianhaiyifan Technology Co., Ltd.
Address of Applicant:	Six Floor Xingguangbao Industrial park Huaning Road Dalang Longhua Shenzhen, China
Manufacturer:	Shenzhen Qianhaiyifan Technology Co., Ltd.
Address of Manufacturer:	Six Floor Xingguangbao Industrial park Huaning Road Dalang Longhua Shenzhen, China

### 4.2 General Description of EUT

Product Name:	Smart Watch	
All Model No.:	F11, F12, F15, F16, F17, F19, F25	
Test Model No.:	F15	
Trade Mark:	N/A	
Hardware Version:	MOY.190.03	
Software Version:	MOY-XY2-1.7.5	
Operation Frequency:	2402MHz~2480MHz	
Bluetooth Version:	V4.0	
Modulation Type:	GFSK	
Transfer Rate:	1Mbps	
Number of Channel:	40	
Product Type:	Mobile Portable Fix Location	
Test Software of EUT:	nRFgo Studio V1.15.1 (manufacturer declare)	
Antenna Type:	Ceramic antenna	
Antenna Gain:	-0.48dBi	
EUT Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V	

Note:

All model: F11, F12, F15, F16, F17, F19, F25

Only the model F15 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.



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

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency	
The lowest channel (CH0)	2402MHz	
The middle channel (CH19)	2440MHz	
The highest channel (CH39)	2480MHz	



# 4.3 Additional Instructions

EUT Test Software Settings:						
Mode:	_ * * *	Through engineering command into the engineering mode.				
EUT Power level:		engineering command: *#*#3646633#*#* Class2 (Power level is built-in set parameters and cannot be changed and selected)				
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.						
Mode	Mode Channel Frequency(MHz)					
	CH0 2402					
GFSK	GFSK CH19 2440					
	CH39 2480					

#### Run Software:

🔀 nRFgo Studio - Direct Test Mode UART ir	interface	×					
<u>File View nRF8001 Setup H</u> elp	File View nRF8001 Setup Help						
Features     ×       2.4 GHz     •       - Front-End Tests     TX carrier wave output RX constant carrier/LO leak       TX/RX channel sweep     RX sensitivity       - Bluetooth     RRF8001 Configuration       Direct Test Mode        Device Masger     ×       Motherboards        Bootloaders	Direct Test Mode UART interface Set up on Program Com port COM4 Bafresh list of com ports Mode © Trannit Bacesive Channel © Single Sweep Channel 19 Payload model Payload model Payload angth 1 bytes Packets received N/A Start test						
Log		×					
(c) Nordic Semiconductor ASA 2008-2013							



### 4.4 Test Environment

<b>Operating Environment</b>	Operating Environment:		
Temperature:	25.0 °C		
Humidity:	53 % RH		
Atmospheric Pressure:	1010mbar		
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT. Note: In the process of transmitting of EUT, the duty cycle >98%.		

# 4.5 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
Adapter	Samsung	EP-TA50CBC	Provide by lab	Verification
PC	Lenovo	ThinkPad E450c	Provide by lab	ID



### 4.6 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 within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN 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.

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	±5.12dB	(1)
2	Radiated Emission (Above 1GHz)	±4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	±3.34dB	(1)
4	Radio Frequency	3×10 <sup>-8</sup>	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	<b>0.8</b> ℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	time	0.6 %.	(1)
14	Frequency Error	5.5 Hz	(1)

Hereafter the best measurement capability for CQA laboratory is reported:

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



### 4.7 Test Location

#### Shenzhen Huaxia Testing Technology Co., Ltd,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

### 4.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: **IC Registration No.: 22984-1** 

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

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

#### • CNAS (No. CNAS L5785)

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### • A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

#### • FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen 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.:522263

### 4.9 Deviation from Standards

None.

### 4.10Other Information Requested by the Customer

None.



## 4.11 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2018/9/26	2019/9/25
Spectrum analyzer	R&S	FSU26	CQA-038	2018/10/28	2019/10/27
Preamplifier	MITEQ	AFS4-00010300-18-10P- 4	CQA-035	2018/9/26	2019/9/25
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2018/11/2	2019/11/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2018/10/28	2020/10/27
Bilog Antenna	R&S	HL562	CQA-011	2018/9/26	2020/9/25
Horn Antenna	R&S	HF906	CQA-012	2018/9/26	2020/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2018/9/26	2020/9/25
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2018/9/26	2019/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2018/9/26	2019/9/25
Antenna Connector	CQA	RFC-01	CQA-080	2018/9/26	2019/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2018/9/26	2019/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2018/9/26	2019/9/25
EMI Test Receiver	R&S	ESPI3	CQA-013	2018/9/26	2019/9/25
LISN	R&S	ENV216	CQA-003	2018/11/5	2019/11/4
Coaxial cable	CQA	N/A	CQA-C009	2018/9/26	2019/9/25

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



# 5 Test results and Measurement Data

### 5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

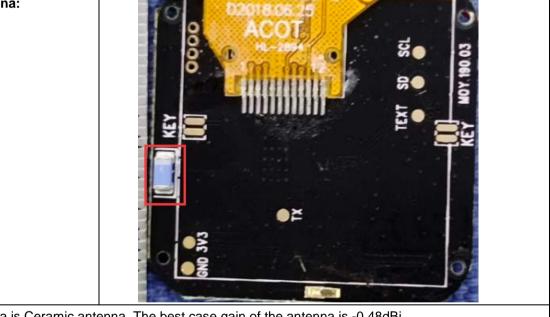
#### 15.203 requirement:

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. 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### EUT Antenna:



The antenna is Ceramic antenna. The best case gain of the antenna is -0.48dBi.

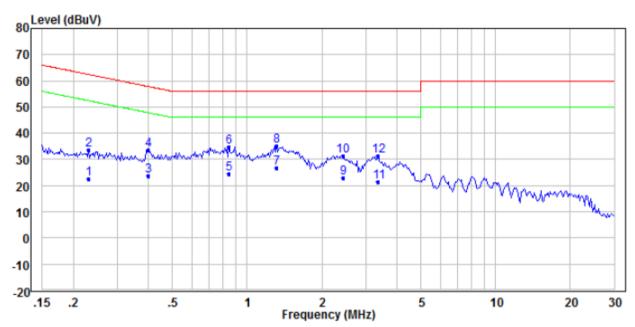


	47 CFR Part 15C Section 15.2	207				
Test Requirement: Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
Limit:		Limit (a				
Linnt.	Frequency range (MHz)	IBuV)				
	0.45.0.5	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
Test Procedure:	* Decreases with the logarithm					
	<ol> <li>The mains terminal disturbance voltage test was conducted in a shielder room.</li> <li>The EUT was connected to AC power source through a LISN 1 (Lin Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. multiple socket outlet strip was used to connect multiple power cables to single LISN provided the rating of the LISN was not exceeded.</li> <li>The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between</li> </ol>					
	<ul> <li>and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ul>					
Test Setup:	Shielding Room	AE E E E S E E E S E E E S E E E S E E E E E E E E E E E E E	Test Receiver			
Test Mode:	Transmitting with GFSK modu	Ilation. Charge +Trans	mitting mode.			
Test Results:	Pass					



#### **Measurement Data**

Live line:



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1 2	0.230 0.230	13.24 24.30	9.49 9.49		62.45	-28.66		Line Line
3 4 5	0.401 0.401 0.846	14.10 23.92 14.86	9.51 9.51 9.70	23.61 33.43 24.56	57.83	-24.40		Line Line Line
6 7 PP	0.846	25.12 17.15		24.56 34.82 26.68	56.00	-21.18	Average Peak Average	Line Line
8 PK 9 10	1.310 2.426 2.426	25.64 13.55			46.00		Average	Line Line
10 11 12	2.426 3.368 3.368	21.78 12.00 21.76	9.56 9.63 9.63	31.34 21.63 31.39	46.00	-24.66 -24.37 -24.61	Average	Line Line Line

#### Remark:

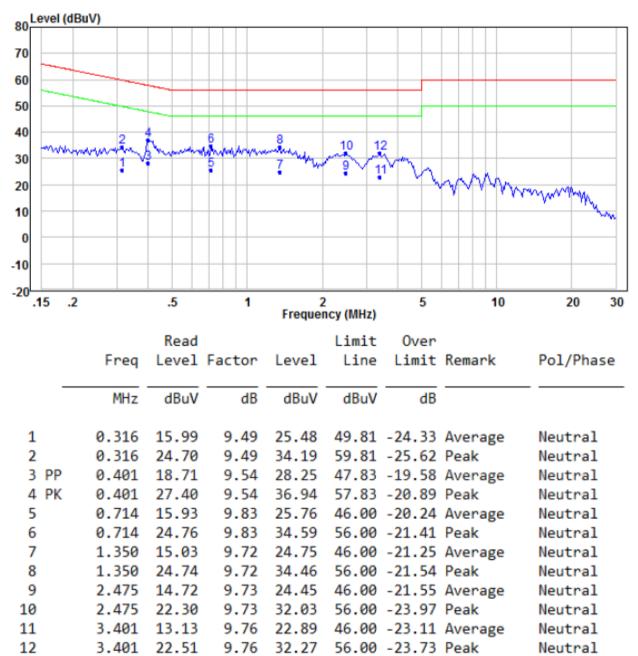
1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.



Neutral line:

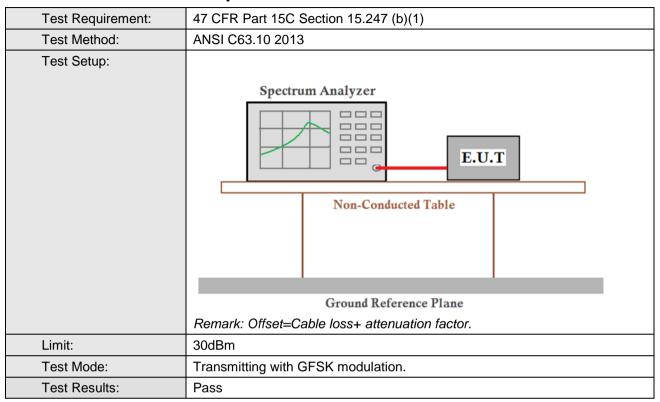


Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



### 5.3 Conducted Peak Output Power

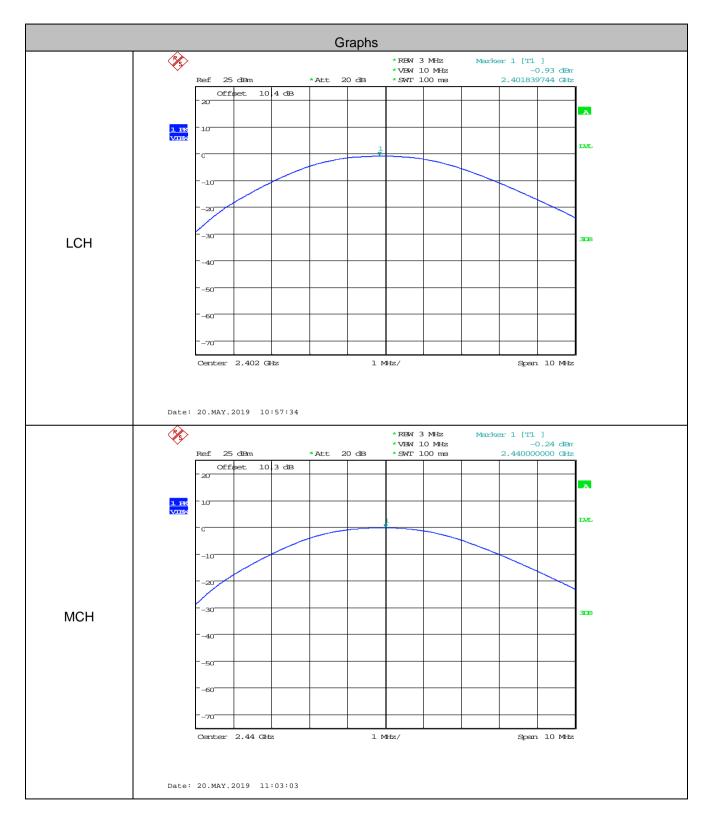


#### Measurement Data

GFSK mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	-0.93	30.00	Pass			
Middle	-0.24	30.00	Pass			
Highest	0.26	30.00	Pass			



#### Test plot as follows:

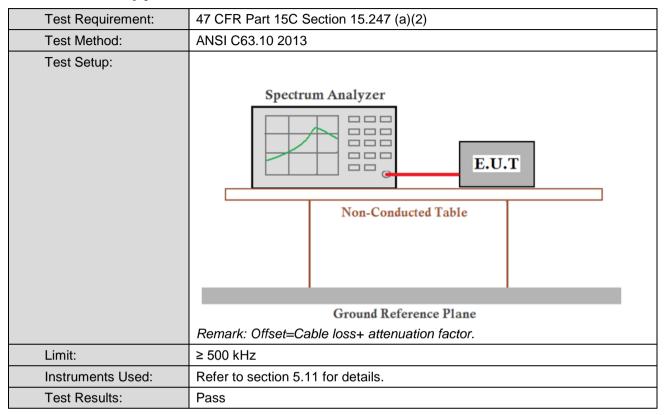








### 5.4 6dB Occupy Bandwidth

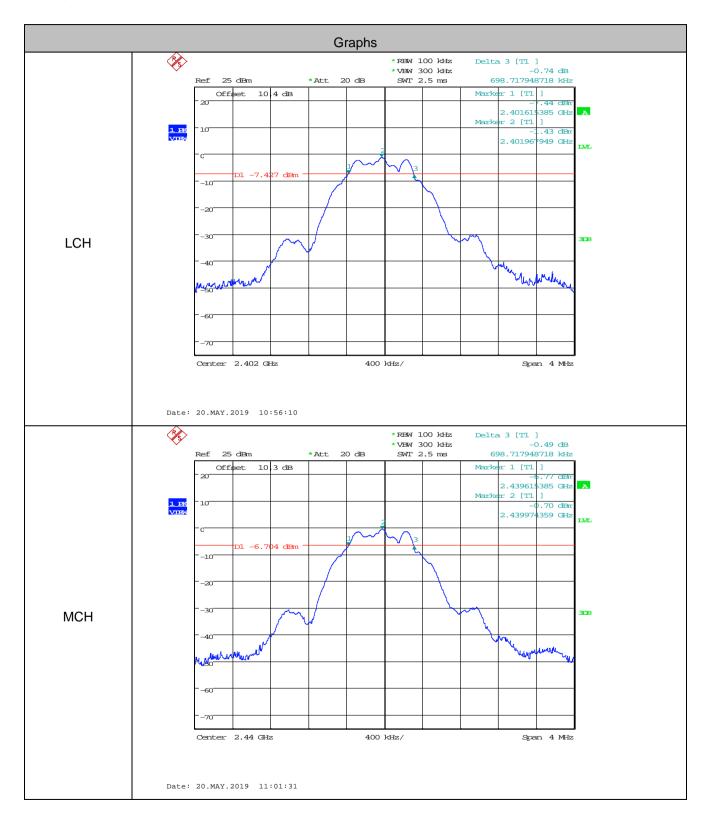


#### **Measurement Data**

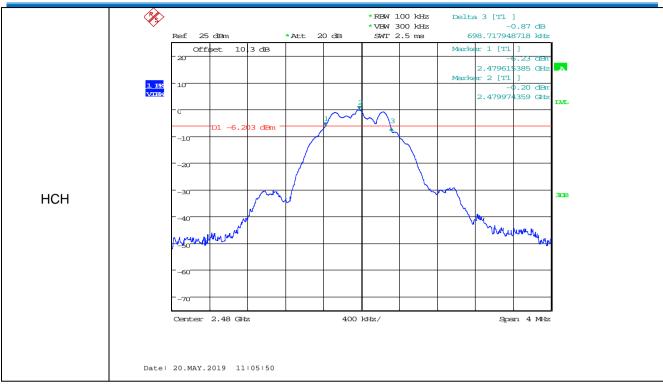
	GFSK mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	0.699	≥500	Pass
Middle	0.699	≥500	Pass
Highest	0.699	≥500	Pass



#### Test plot as follows:

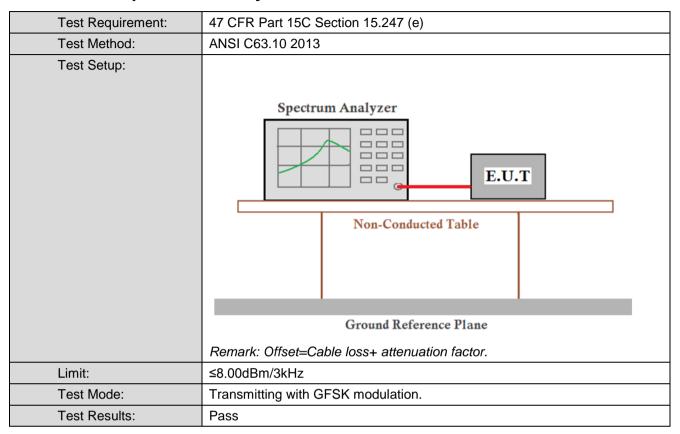








### 5.5 Power Spectral Density

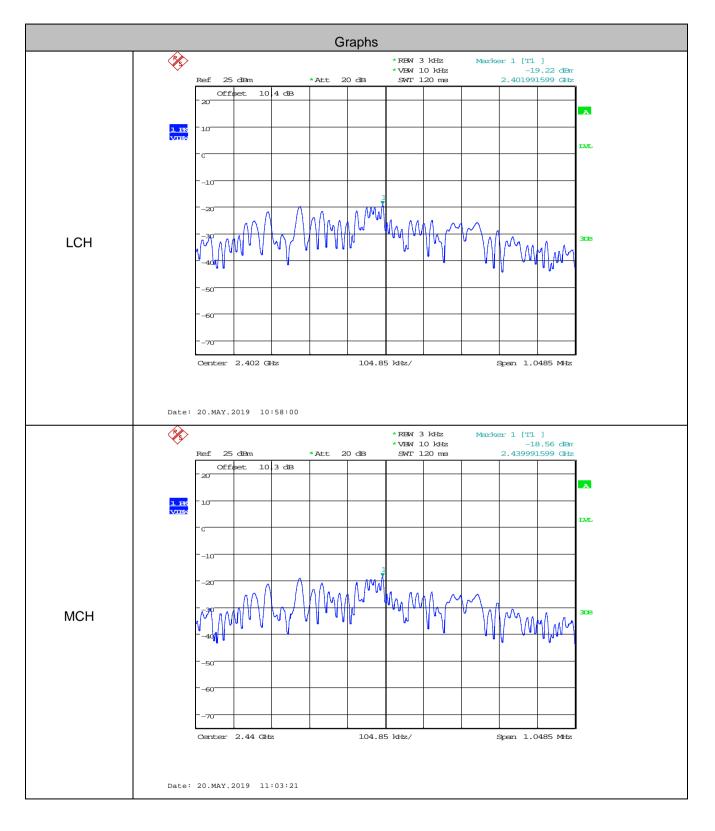


#### **Measurement Data**

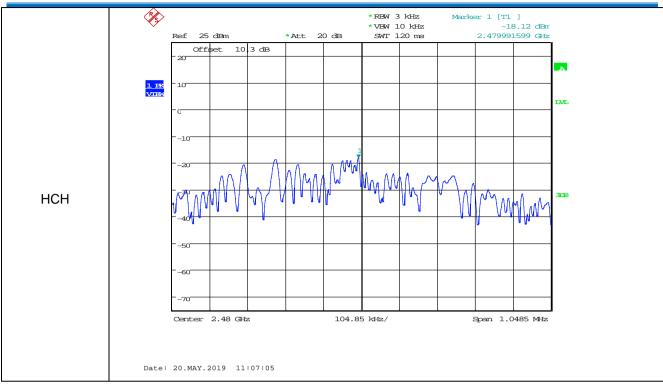
GFSK mode							
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-19.220	≤8.00	Pass				
Middle	-18.560	≤8.00	Pass				
Highest	-18.120	≤8.00	Pass				



#### Test plot as follows:

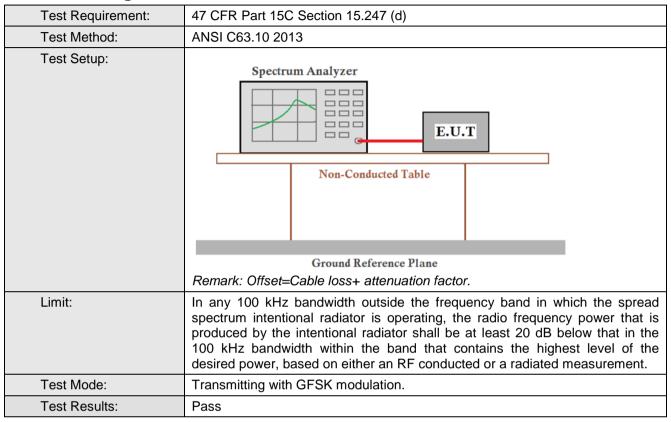








### 5.6 Band-edge for RF Conducted Emissions

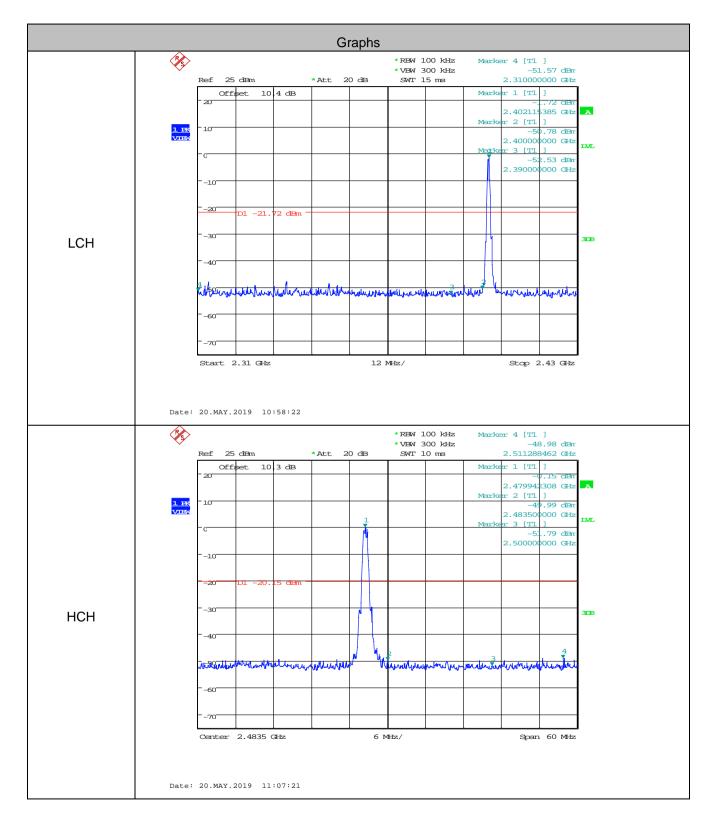


GFSK mode				
Test channel	Frequency(MHz)	Emission Level(dBm)	Limit(dBm)	Result
Lowest	2400	-50.780	-21.72	Pass
Highest	2483.5	-49.990	-20.15	Pass

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1 agc.20	



#### Test plot as follows:



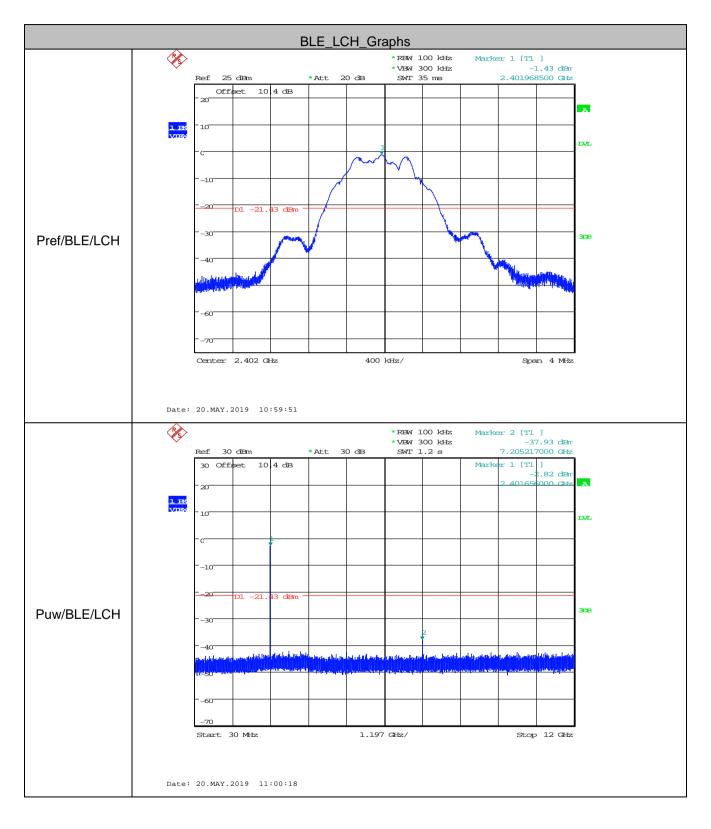


# 5.7 Spurious RF Conducted Emissions

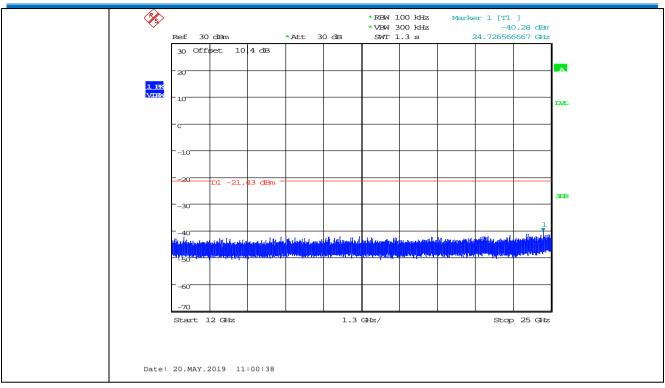
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
	Remark: Offset=Cable loss+ attenuation factor.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional 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 Mode:	Transmitting with GFSK modulation.
Test Results:	Pass

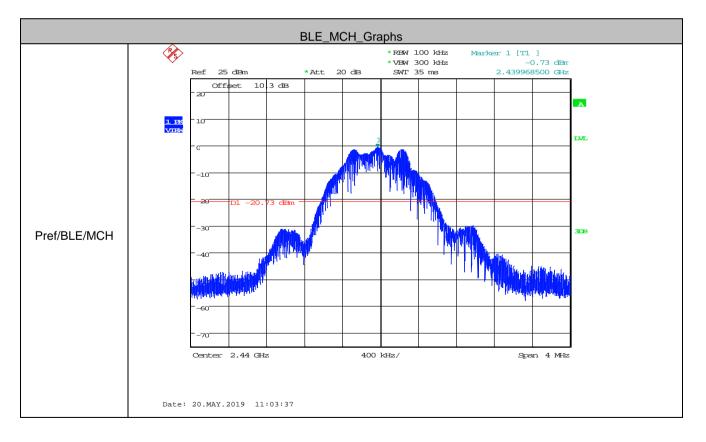


#### Test plot as follows:

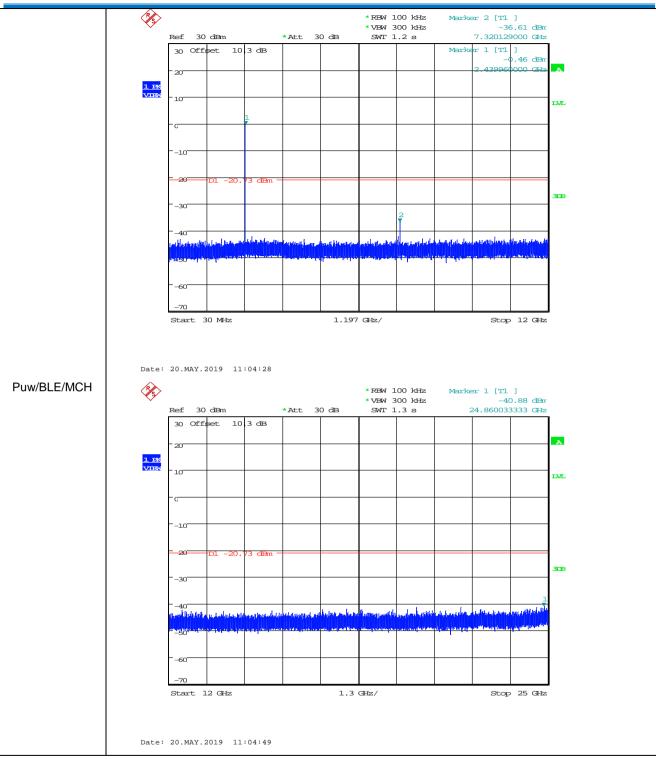




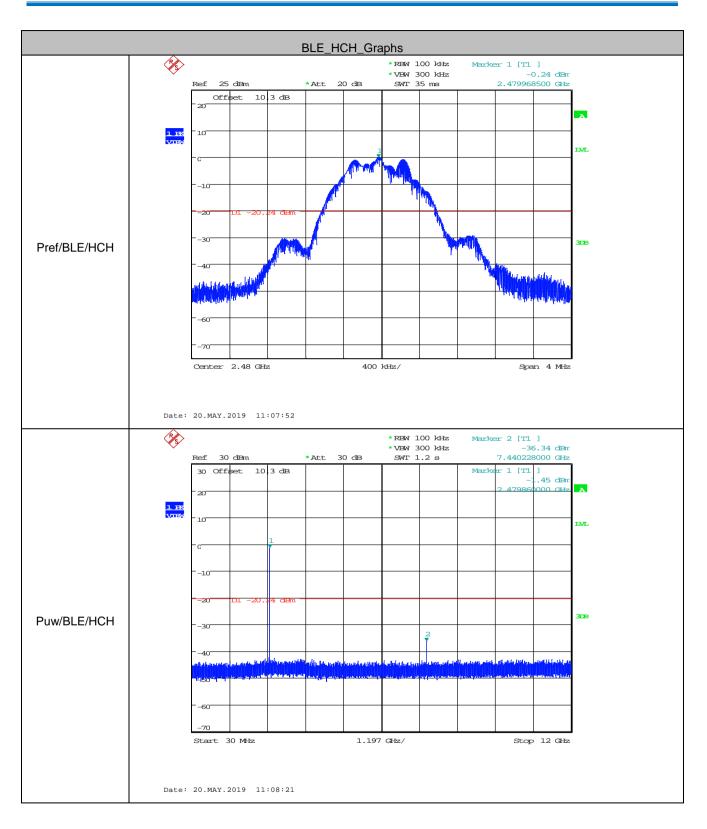






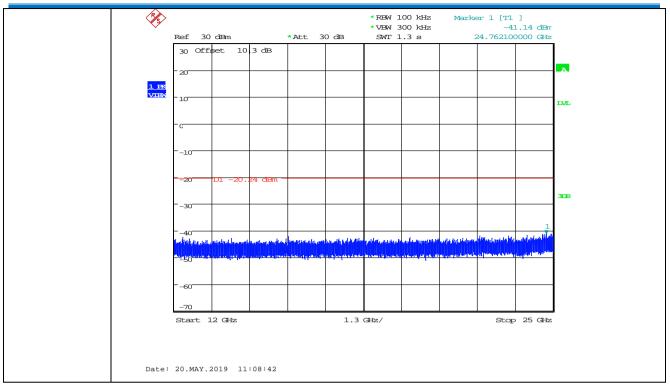








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#### Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

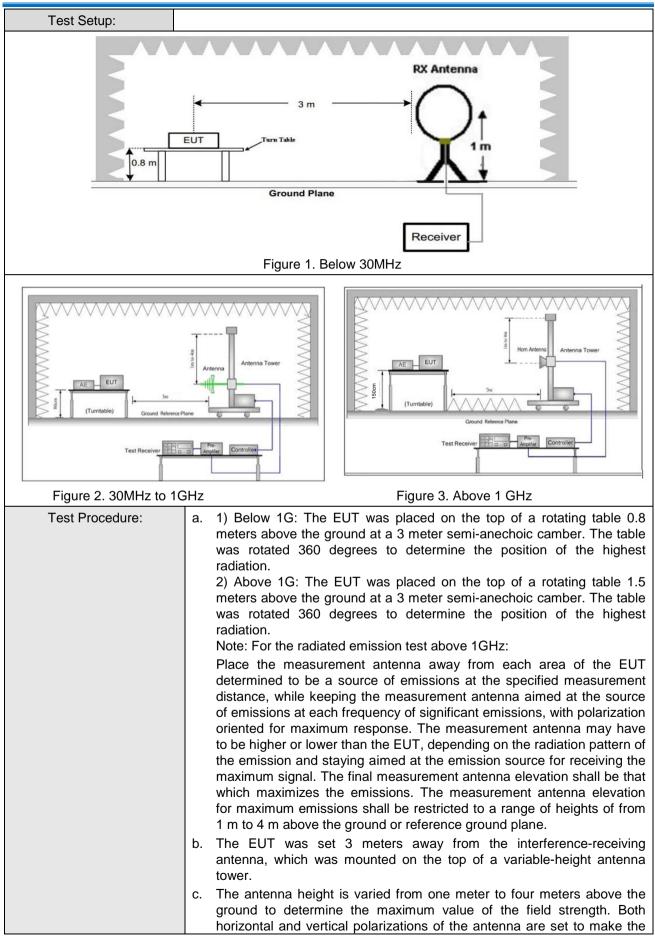


## 5.8 Radiated Spurious Emission & Restricted bands

### 5.8.1 Spurious Emissions

J.O.T Opullous Emissions								
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver Setup:	FrequencyDetector0.009MHz-0.090MHzPeak		RBW		VBW	Remark		
			Peak	10kHz	Z	30kHz	Peak	
	0.009MHz-0.090MHz		Average	10kHz	Z	30kHz	Average	
	0.090MHz-0.110MHz 0 0.110MHz-0.490MHz 0.110MHz-0.490MHz 0.490MHz 0		Quasi-peak	10kHz	z	30kHz	Quasi-peak	
			Peak	10kHz	z	30kHz	Peak	
			Average	10kHz	Ζ	30kHz	Average	_
			Quasi-peak	10kHz	z	30kHz	Quasi-peak	
			Quasi-peak	100 kH	łz	300kHz	Quasi-peak	
			Peak	1MHz	2	3MHz	Peak	
			Peak	1MHz	2	10Hz	Average	
Limit:	Frequency	cy Field stren (microvolt/m		Limit (dBuV/m)		Remark	Measureme distance (n	
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-		300	
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-		30	
	1.705MHz-30MHz		30	-		-	30	
	30MHz-88MHz		100	40.0	Q	uasi-peak	3	
	88MHz-216MHz		150	43.5	Quasi-peak		3	
	216MHz-960MHz		200	46.0	Q	uasi-peak	3	
	960MHz-1GHz	-1GHz 500		54.0	54.0 Quasi-peak		3	
	Above 1GHz 500		500	54.0		Average	3	
	Note: 15.35(b), frequency emissions is limit applicable to the e peak emission level rac	20c quip	B above the poment under the	maximum est. This p	pe	rmitted ave	rage emissio	n







	measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	<ul> <li>g. Test the EUT in the lowest channel (2402MHz), the middle channel (2440MHz), the Highest channel (2480MHz)</li> </ul>
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test	Transmitting with GFSK modulation.
Mode:	Transmitting mode, Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	Pretest the EUT at Transmitting mode and Charge + Transmitting mode, found the Charge + Transmitting mode which it is worse case.
	For below 1GHz part, through pre-scan, the worst case is the highest channel.
	Only the worst case is recorded in the report.
Test Results:	Pass



6

836.24

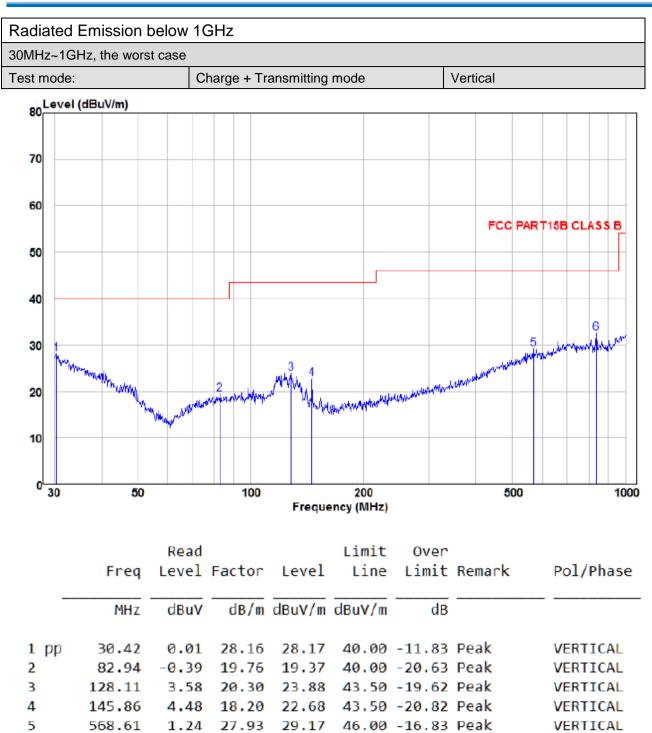
2.09

30.55

### Shenzhen Huaxia Testing Technology Co., Ltd

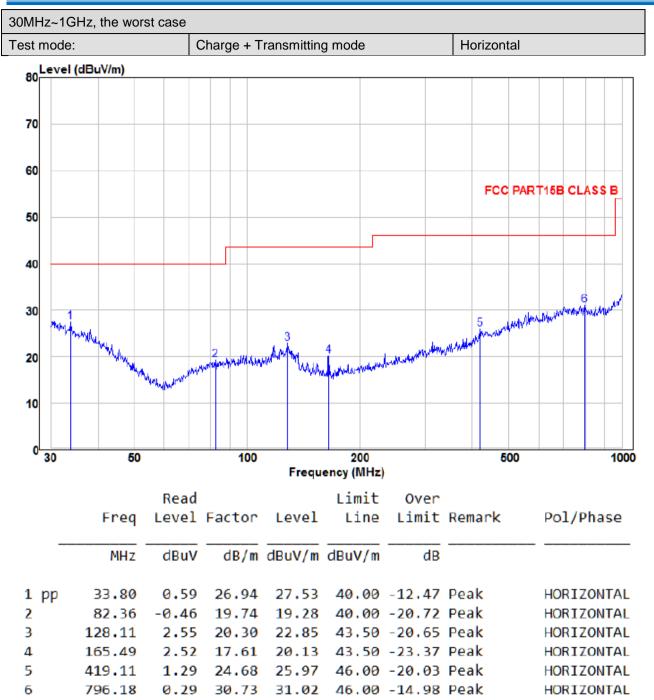
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VERTICAL



32.64 46.00 -13.36 Peak







#### Transmitter Emission above 1GHz

Worse case mode:		GFSK		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	53.41	-9.2	44.21	74	-29.79	Peak	н
2400	55.83	-9.39	46.44	74	-27.56	Peak	Н
4804	51.86	-4.33	47.53	74	-26.47	Peak	Н
7206	49.08	1.01	50.09	74	-23.91	Peak	Н
2390	54.57	-9.2	45.37	74	-28.63	Peak	v
2400	53.00	-9.39	43.61	74	-30.39	Peak	V
4804	54.65	-4.33	50.32	74	-23.68	Peak	V
7206	49.92	1.01	50.93	74	-23.07	Peak	V

Worse case mode:		GFSK		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4880	51.98	-4.11	47.87	74	-26.13	peak	Н
7320	48.48	1.51	49.99	74	-24.01	peak	Н
4880	53.86	-4.11	49.75	74	-24.25	peak	V
7320	49.07	1.51	50.58	74	-23.42	peak	V

Worse case mode:		GFSK		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2483.5	55.09	-9.29	45.80	74	-28.20	Peak	н
4960	52.52	-4.04	48.48	74	-25.52	Peak	Н
7440	49.15	1.57	50.72	74	-23.28	Peak	Н
2483.5	55.26	-9.29	45.97	74	-28.03	Peak	v
4960	51.19	-4.04	47.15	74	-26.85	Peak	V
7440	50.10	1.57	51.67	74	-22.33	Peak	V

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

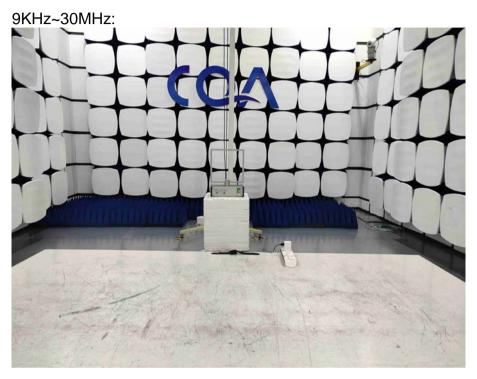
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

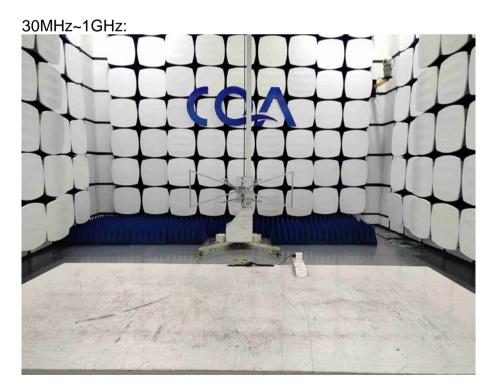
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



## 6 Photographs - EUT Test Setup

### 6.1 Radiated Spurious Emission









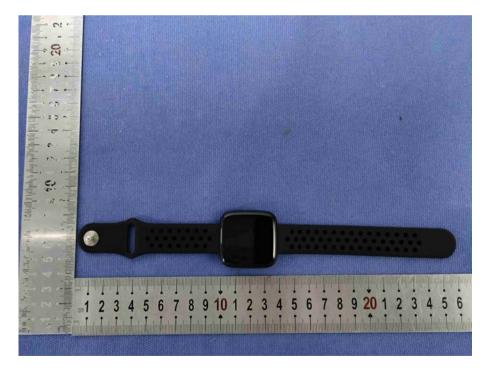
### 6.2 Conducted Emission





# 7 Photographs - EUT Constructional Details



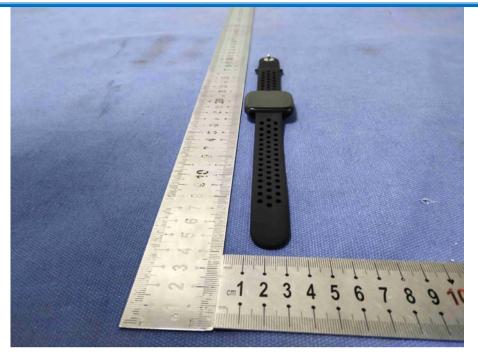












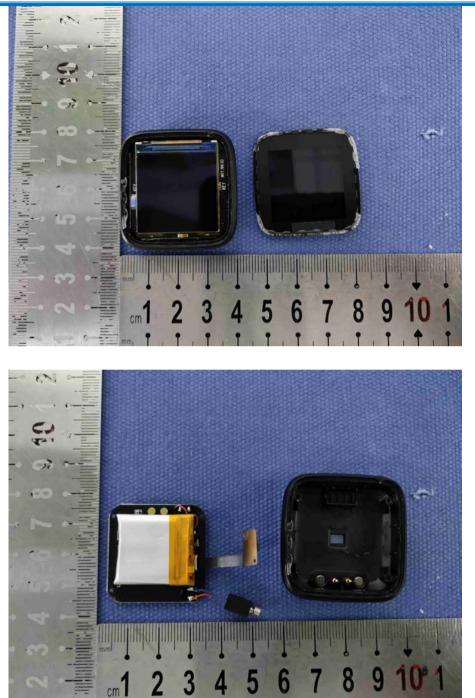




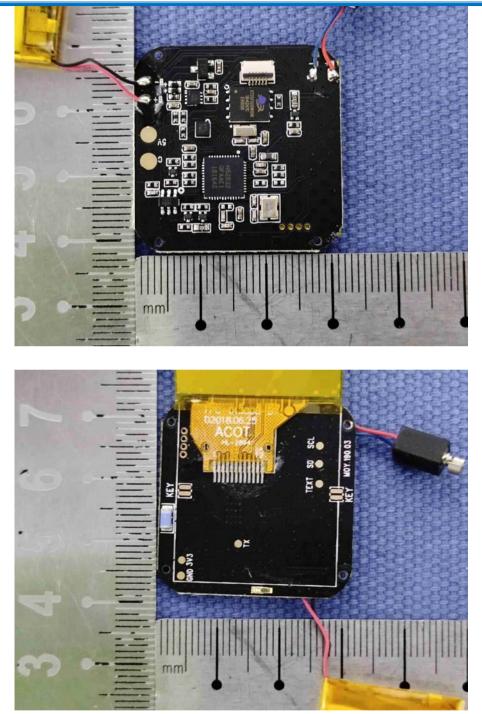




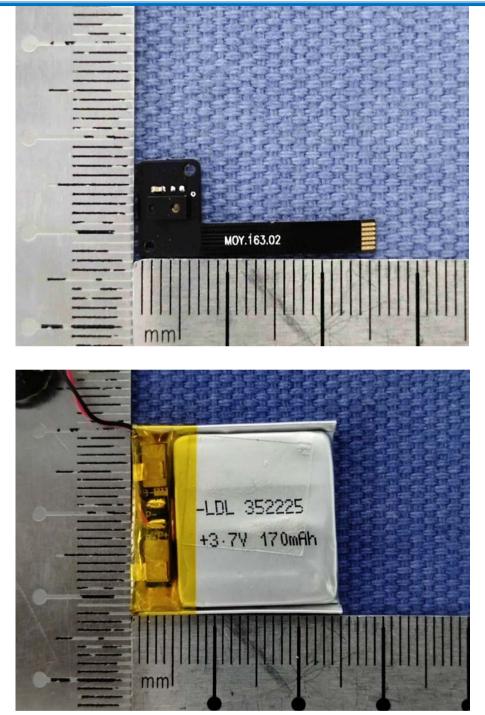






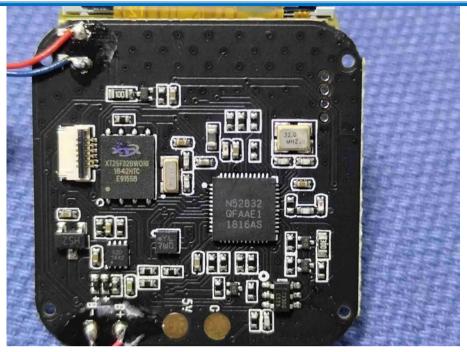








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The End