# EMC TEST REPORT



Report No.: 17070023-FCC-E
Supersede Report No: N/A

Applicant	Anda Technologies S.A.C			
Product Name	Anda Watch			
Model No.	W010R1			
Serial No.	N/A			
Test Standard	FCC Part 1	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014		
Test Date	January 13	January 13 to February 05, 2017		
Issue Date	February 06, 2017			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Loven	Luo	Deviol	Huang	
Loren Luo Test Engineer			Huang ked By	

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Test result presented in this test report is applicable to the tested sample only

#### Issued by:

#### SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Test Report	17070023-FCC-E
Page	2 of 36

### **Laboratories Introduction**

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



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#### Accreditations for Conformity Assessment

Country/Region	Scope
- Country in togicin	Собра
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



Test Report	17070023-FCC-E
Page	3 of 36

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Test Report	17070023-FCC-E
Page	4 of 36

## **CONTENTS**

1.	REPORT REVISION HISTORY	5
2.	CUSTOMER INFORMATION	5
3.	TEST SITE INFORMATION	5
4.	EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5.	TEST SUMMARY	8
6.	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	9
6.1	AC POWER LINE CONDUCTED EMISSIONS	9
6.2	RADIATED EMISSIONS	. 15
ANI	NEX A. TEST INSTRUMENT	.20
ANI	NEX B. EUT AND TEST SETUP PHOTOGRAPHS	.21
ANI	NEX C. TEST SETUP AND SUPPORTING EQUIPMENT	.32
ANI	NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	.35
INA	NEX E. DECLARATION OF SIMILARITY	.36



Test Report	17070023-FCC-E
Page	5 of 36

### 1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070023-FCC-E	NONE	Original	February 06, 2017

### 2. Customer information

Applicant Name	Anda Technologies S.A.C	
Applicant Add	Avenida Santa Cruz No. 888, Piso 4, Miraflores, Lima, Peru	
Manufacturer	Borqs Beijing Ltd.	
Manufacturer Add	Tower A, Building B23, Universal Business Park, No. 10 Jiuxianqiao Road,	
	Chaoyang District Beijing, 100015 China	

### 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China	
	518108	
FCC Test Site No.	718246	
IC Test Site No.	4842E-1	
Test Software of	Dadieted Fasissies Desaura To Obserban v 2 0	
Radiated Emission	Radiated Emission Program-To Shenzhen v2.0	
Test Software of	F7 FMC( log 0044)	
Conducted Emission	EZ-EMC(ver.lcp-03A1)	



Test Report	17070023-FCC-E
Page	6 of 36

### 4. Equipment under Test (EUT) Information

Description of EUT:	Anda Watch

Main Model: W010R1

Serial Model: N/A

GSM850: -5.00dBi PCS1900: 1.4dBi

UMTS-FDD Band V: -5.00dBi UMTS-FDD Band IV: 0.84dBi UMTS-FDD Band II: 1.4dBi

Antenna Gain: LTE Band II:1.41dBi

LTE Band IV: 0.84dBi

WIFI: -1.5dBi

Bluetooth/BLE: -1.5dBi

GPS: 0.48dBi

Antenna Type: PIFA antenna

Adapter:

Model: ASUC37a-050100

Input: AC100-240V~50/60Hz,0.3A

Output: DC 5.0V,1.0A

Battery:

Spec: 4.35V,400mAh

Equipment Category: JBP

Input Power:

GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK

LTE Band: QPSK, 16QAM Type of Modulation:

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK



Test Report	17070023-FCC-E
Page	7 of 36

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz

PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz

UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

UMTS-FDD Band IV TX:1712.4 ~ 1752.6 MHz;

RX: 2112.4 ~ 2152.6 MHz

UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz; RF Operating Frequency (ies):

RX: 1932.4 ~ 1987.6 MHz

LTE Band II TX: 1850.7 ~ 1909.3MHz; RX : 1930.7 ~ 1989.3 MHz LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7~ 2154.3 MHz

WIFI: 802.11b/g/n(20M): 2412-2462 MHz

Bluetooth& BLE: 2402-2480 MHz

GPS: 1575.42 MHz

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH UMTS-FDD Band IV: 202CH UMTS-FDD Band II: 277CH

WIFI:802.11b/g/n(20M): 11CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: Data and charging Port

Trade Name: Anda Watch

Number of Channels:

FCC ID: 2ALJB-W010R1

Date EUT received: January 12, 2017

Test Date(s): January 13 to February 05, 2017



Test Report	17070023-FCC-E
Page	8 of 36

### 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.107; ANSI C63.4: 2014	AC Power Line Conducted Emissions	Compliance
§15.109; ANSI C63.4: 2014	Radiated Emissions	Compliance

#### **Measurement Uncertainty**

Emissions				
Test Item	Description	Uncertainty		
AC Power Line Conducted	Confidence level of approximately 95% (in the case			
Emissions and Radiated	where distributions are normal), with a coverage	+5.6dB/-4.5dB		
Emissions	factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)			
-	-	-		



Test Report	17070023-FCC-E
Page	9 of 36

### 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

Temperature	22 °C		
Relative Humidity	55%		
Atmospheric Pressure	1013mbar		
Test date :	January 13, 2017		
Tested By:	Loren Luo		

#### Requirement(s):

Spec	Item	Requirement Applicable					
47CFR§15.	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.				<b>\</b>		
107		Frequency ranges	Limit (				
		(MHz)	QP	Average			
		0.15 ~ 0.5	66 – 56	56 – 46			
		0.5 ~ 5	56	46			
		5 ~ 30	60	60 50			
Test Setup			ical Ground Prence Plane	Test Receiver			
	Note: 1.Support units were connected to second LISN.  2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.						
Procedure	<ol> <li>The EUT and supporting equipment were set up in accordance with the rethe standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.</li> <li>The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, α</li> </ol>						
	filte	ered mains.					



Test Report	17070023-FCC-E
Page	10 of 36

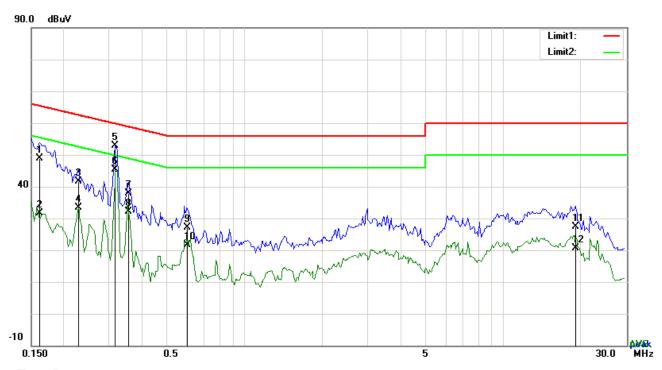
	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)
	over the required frequency range using an EMI test receiver.
	7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the
	selected frequencies and the necessary measurements made with a receiver bandwidth
	setting of 10 kHz.
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	Pass Fail

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



Test Report	17070023-FCC-E
Page	11 of 36

Test Mode : USB Mode



Test Data

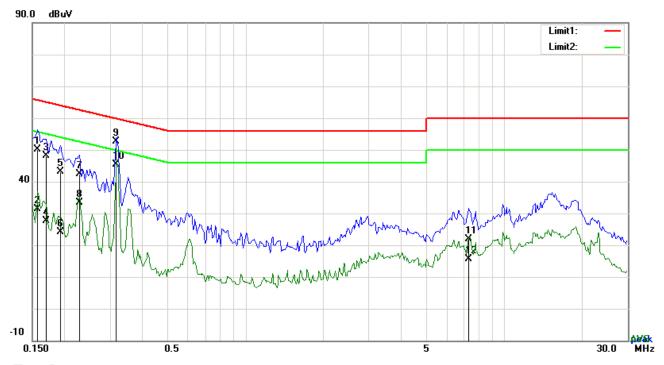
#### Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.1617	38.80	QP	10.03	48.83	65.38	-16.55
2	L1	0.1617	21.56	AVG	10.03	31.59	55.38	-23.79
3	L1	0.2280	31.54	QP	10.03	41.57	62.52	-20.95
4	L1	0.2280	23.43	AVG	10.03	33.46	52.52	-19.06
5	L1	0.3177	42.81	QP	10.03	52.84	59.77	-6.93
6	L1	0.3177	35.37	AVG	10.03	45.40	49.77	-4.37
7	L1	0.3567	27.86	QP	10.03	37.89	58.80	-20.91
8	L1	0.3567	22.01	AVG	10.03	32.04	48.80	-16.76
9	L1	0.6011	17.21	QP	10.03	27.24	56.00	-28.76
10	L1	0.6011	11.53	AVG	10.03	21.56	46.00	-24.44
11	L1	19.0368	17.17	QP	10.29	27.46	60.00	-32.54
12	L1	19.0368	10.40	AVG	10.29	20.69	50.00	-29.31



Test Report	17070023-FCC-E
Page	12 of 36

Test Mode : USB Mode



#### Test Data

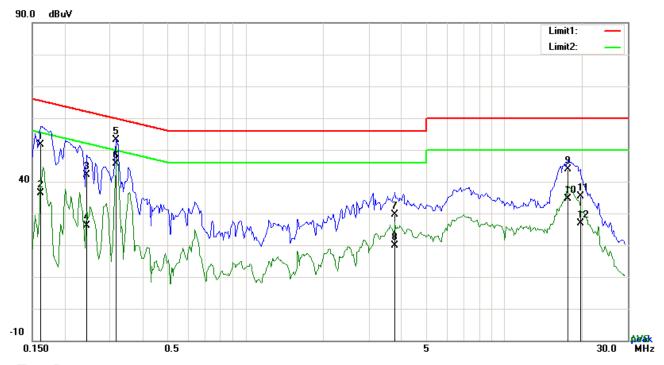
#### Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.1578	40.22	QP	10.02	50.24	65.58	-15.34
2	Ζ	0.1578	21.32	AVG	10.02	31.34	55.58	-24.24
3	Ν	0.1695	38.10	QP	10.02	48.12	64.98	-16.86
4	N	0.1695	17.52	AVG	10.02	27.54	54.98	-27.44
5	Ζ	0.1929	33.19	QP	10.02	43.21	63.91	-20.70
6	Ζ	0.1929	14.17	AVG	10.02	24.19	53.91	-29.72
7	Ζ	0.2280	32.25	QP	10.02	42.27	62.52	-20.25
8	Ζ	0.2280	23.44	AVG	10.02	33.46	52.52	-19.06
9	Ν	0.3177	42.70	QP	10.02	52.72	59.77	-7.05
10	Ν	0.3177	35.31	AVG	10.02	45.33	49.77	-4.44
11	Ν	7.2744	11.81	QP	10.10	21.91	60.00	-38.09
12	Ν	7.2744	5.53	AVG	10.10	15.63	50.00	-34.37



Test Report	17070023-FCC-E
Page	13 of 36

Test Mode :
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#### Test Data

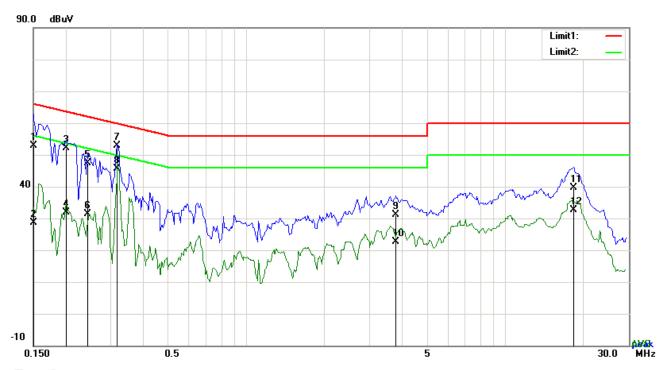
### Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1617	41.50	QP	10.03	51.53	65.38	-13.85
2	L1	0.1617	26.38	AVG	10.03	36.41	55.38	-18.97
3	L1	0.2436	32.09	QP	10.03	42.12	61.97	-19.85
4	L1	0.2436	16.13	AVG	10.03	26.16	51.97	-25.81
5	L1	0.3177	43.02	QP	10.03	53.05	59.77	-6.72
6	L1	0.3177	35.68	AVG	10.03	45.71	49.77	-4.06
7	L1	3.7800	19.53	QP	10.06	29.59	56.00	-26.41
8	L1	3.7800	9.80	AVG	10.06	19.86	46.00	-26.14
9	L1	17.6094	33.55	QP	10.26	43.81	60.00	-16.19
10	L1	17.6094	24.47	AVG	10.26	34.73	50.00	-15.27
11	L1	19.6881	25.15	QP	10.30	35.45	60.00	-24.55
12	L1	19.6881	16.63	AVG	10.30	26.93	50.00	-23.07



Test Report	17070023-FCC-E
Page	14 of 36

Test Mode : USB Mode



#### Test Data

### Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.1500	42.78	QP	10.02	52.80	66.00	-13.20
2	Ν	0.1500	18.69	AVG	10.02	28.71	56.00	-27.29
3	N	0.2007	42.12	QP	10.02	52.14	63.58	-11.44
4	N	0.2007	21.76	AVG	10.02	31.78	53.58	-21.80
5	N	0.2436	37.46	QP	10.02	47.48	61.97	-14.49
6	N	0.2436	21.35	AVG	10.02	31.37	51.97	-20.60
7	N	0.3177	42.92	QP	10.02	52.94	59.77	-6.83
8	N	0.3177	35.61	AVG	10.02	45.63	49.77	-4.14
9	N	3.7800	21.14	QP	10.06	31.20	56.00	-24.80
10	N	3.7800	12.60	AVG	10.06	22.66	46.00	-23.34
11	N	18.3855	29.32	QP	10.24	39.56	60.00	-20.44
12	N	18.3855	22.37	AVG	10.24	32.61	50.00	-17.39



Test Report	17070023-FCC-E
Page	15 of 36

### 6.2 Radiated Emissions

Temperature	22 °C	
Relative Humidity	55%	
Atmospheric Pressure	1013mbar	
Test date :	January 13, 2017	
Tested By :	Loren Luo	

#### Requirement(s):

Requirement(s)		T <sub>2</sub>			
Spec	Item	Requirement Applica			
470FD\$4F		Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spe the level of any unwanted emission the fundamental emission. The tight			
47CFR§15.	a)	edges		~	
109(d)		Frequency range (MHz)	Field Strength (μV/m)		
		30 – 88	100		
		88 – 216	150		
		216 960	200		
		Above 960	500		
Test Setup	Ant. Tower  Support Units  Turn Table  Ground Plane  Test Receiver				
1. The EUT was switched on and allowed to warm up to its normal operating contained from the European Contained fr			the EUT ating the EUT, the following		



Test Report	17070023-FCC-E
Page	16 of 36

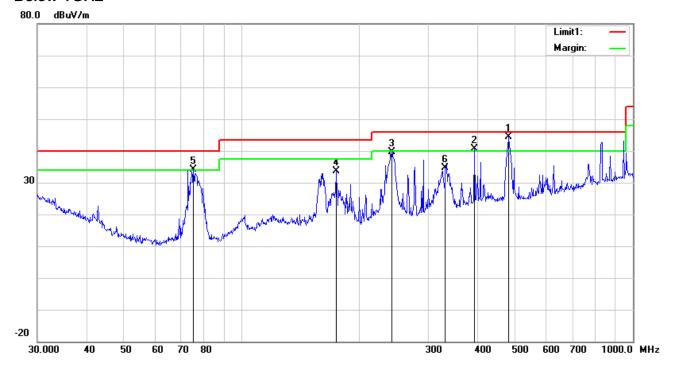
		over a full rotation of the EUT) was chosen.
	b.	The EUT was then rotated to the direction that gave the maximum
		emission.
	C.	Finally, the antenna height was adjusted to the height that gave the maximum
		emission.
	3. The re	solution bandwidth and video bandwidth of test receiver/spectrum analyzer is
	120 kH	Hz for Quasiy Peak detection at frequency below 1GHz.
	4. The res	solution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	bandw	vidth is 3MHz with Peak detection for Peak measurement at frequency above
	1GHz.	
	The r	esolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
	band	width with Peak detection for Average Measurement as below at frequency
	above	e 1GHz.
	■ 1 k	Hz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
	5. Steps	2 and 3 were repeated for the next frequency point, until all selected frequency
	points	were measured.
Remark		
Result	Pass	☐ Fail
	4	
Test Data	Yes	N/A
Test Plot	Yes (See beld	ow) $\square_{N/A}$



Test Report	17070023-FCC-E
Page	17 of 36

Test Mode : USB Mode

#### Below 1GHz



#### Test Data

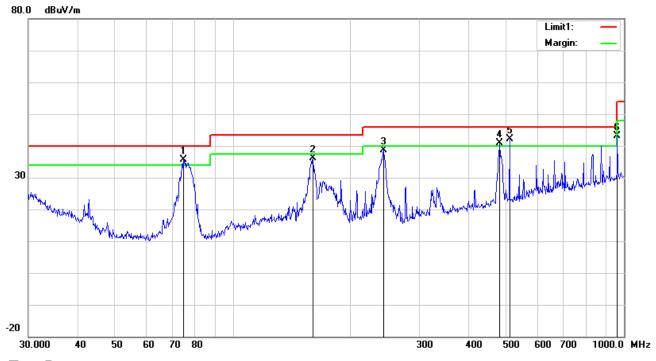
#### Horizontal Polarity Plot @3m

No.	P/L	Frequency	Readi ng	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV /m)		(dB/m)	(dB)	(dB)	(dBuV/ m)	(dBuV/m )	(dB)	(cm)	(纖)
1	Н	480.5276	46.60	QP	17.31	21.85	2.31	44.37	46.00	-1.63	200	226
2	Н	393.4724	44.98	peak	15.56	22.03	2.01	40.52	46.00	-5.48	100	57
3	Н	241.6763	48.72	peak	11.52	22.30	1.67	39.61	46.00	-6.39	300	178
4	Н	174.4241	43.07	peak	11.45	22.26	1.36	33.62	43.50	-9.88	100	62
5	Н	75.1823	47.89	peak	7.70	22.40	0.96	34.15	40.00	-5.85	100	343
6	Н	331.3547	40.59	peak	14.26	22.20	1.95	34.60	46.00	-11.40	100	186



Test Report	17070023-FCC-E
Page	18 of 36

#### Below 1GHz



#### Test Data

### Vertical Polarity Plot @3m

No.	P/L	Frequency	Readi ng	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV /m)		(dB/m)	(dB)	(dB)	(dBuV/ m)	(dBuV/m )	(dB)	(cm)	( )
1	>	74.6569	49.27	QP	7.71	22.40	0.96	35.54	40.00	-4.46	300	297
2	V	160.3457	44.55	peak	12.57	22.27	1.39	36.24	43.50	-7.26	200	78
3	V	242.5253	47.71	peak	11.50	22.30	1.68	38.59	46.00	-7.41	300	249
4	V	480.5276	43.08	QP	17.31	21.85	2.31	40.85	46.00	-5.15	200	105
5	V	510.0436	43.53	QP	17.84	21.79	2.43	42.01	46.00	-3.99	200	123
6	V	962.1623	37.90	peak	22.81	20.76	3.24	43.19	54.00	-10.81	300	137



Test Report	17070023-FCC-E
Page	19 of 36

#### Above 1GHz

Frequency (MHz)	Amplitude (dΒμV/m)	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Limit (dBµV/m)	Margin (dB)	Detector (PK/AV)
1176.3	50.18	78	100	V	-20.64	74	-23.82	PK
1765.2	54.36	49	200	V	-21.38	74	-19.64	PK
2049.8	52.97	267	300	V	-19.87	74	-21.03	PK
1659.2	51.27	34	100	Н	-20.13	74	-22.73	PK
2287.5	55.62	128	100	Н	-20.94	74	-18.38	PK
1928.3	51.38	157	200	Н	-20.17	74	-22.62	PK

Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to 5\*2480 MHz=12,400 MHz.

Note 2: The frequency that above 3GHz is mainly from the environment noise.

Note 3: The AV measurement performed, more than 20dB below limit so AV test data was not presented.



Test Report	17070023-FCC-E
Page	20 of 36

### Annex A. TEST INSTRUMENT

		2	0.15.4	0.15					
Instrument	Model	Serial #	Cal Date	Cal Due	In use				
AC Line Conducted Emissions									
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	~				
Line Impedance	11.4054	404400	00/04/0040	00/00/0047					
Stabilization Network	LI-125A	191106	09/24/2016	09/23/2017	•				
Line Impedance	11.4054	404407	00/04/0040	00/00/0047	1				
Stabilization Network	LI-125A	191107	09/24/2016	09/23/2017	•				
LISN	ISN T800	34373	09/24/2016	09/23/2017	~				
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	~				
Radiated Emissions									
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<				
OPT 010 AMPLIFIER	04475	0707400400	00/04/0040	00/00/0047	<u>&lt;</u>				
(0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	•				
Microwave Preamplifier	04400	0000400400	00/04/0040	00/00/0047					
(1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	~				
Bilog Antenna	IDO	A 4 4 0 7 4 C	00/00/0040	00/40/0047					
(30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	>				
Double Ridge Horn	ALL 440	74050	00/00/0040	00/00/0047					
Antenna	AH-118	71259	09/23/2016	09/22/2017	>				



Test Report	17070023-FCC-E
Page	21 of 36

### Annex B. EUT And Test Setup Photographs

### Annex B.i. Photograph: EUT External Photo



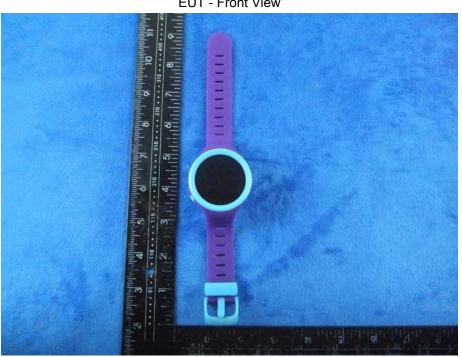
Adapter - Front View





Test Report	17070023-FCC-E
Page	22 of 36

**EUT - Front View** 



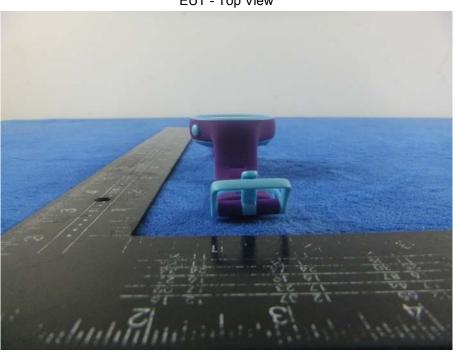
EUT - Rear View



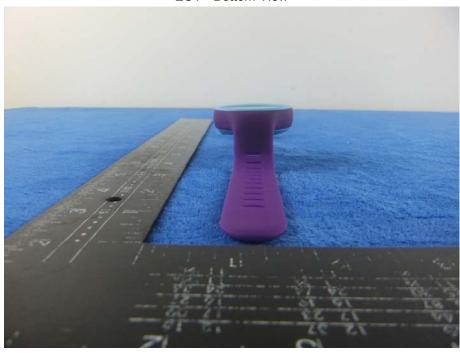


Test Report	17070023-FCC-E
Page	23 of 36

EUT - Top View



EUT - Bottom View





Test Report	17070023-FCC-E
Page	24 of 36

EUT - Left View



EUT - Right View





Test Report	17070023-FCC-E	
Page	25 of 36	

### Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View 2



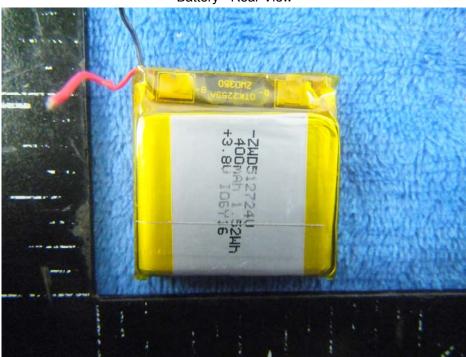


Test Report	17070023-FCC-E	
Page	26 of 36	

Battery - Front View



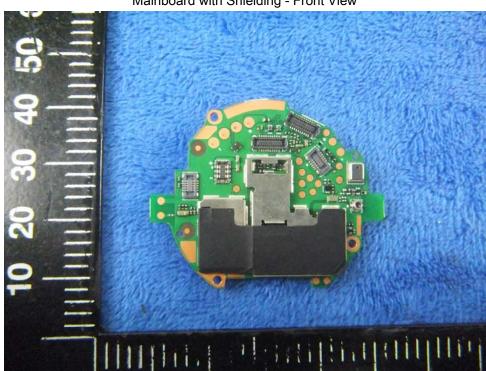
Battery - Rear View



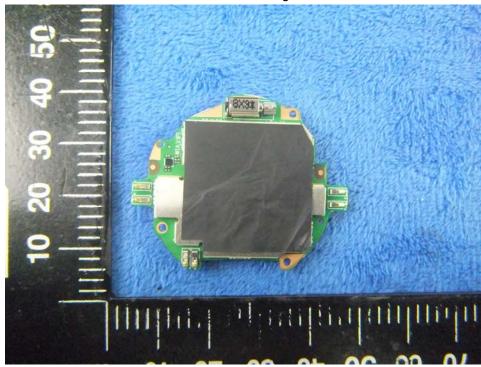


Test Report	17070023-FCC-E	
Page	27 of 36	

Mainboard with Shielding - Front View



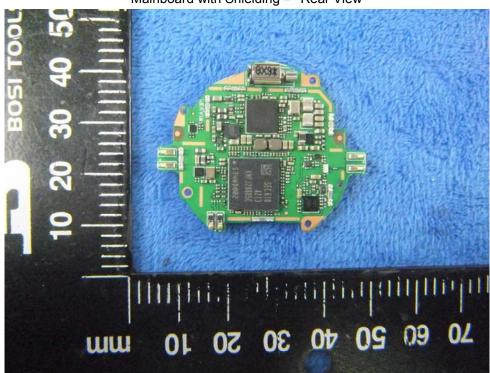
Mainboard without Shielding - Front View





Test Report	17070023-FCC-E	
Page	28 of 36	

Mainboard with Shielding - Rear View



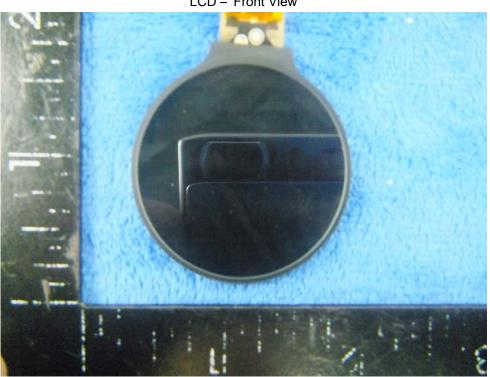
Mainboard without Shielding - Rear View





Test Report	17070023-FCC-E	
Page	29 of 36	

LCD - Front View



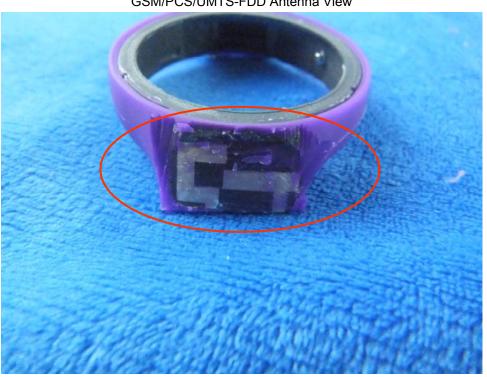
LCD - Rear View





Test Report	17070023-FCC-E	
Page	30 of 36	

GSM/PCS/UMTS-FDD Antenna View



WIFI/BT/BLE/GPS - Antenna View





Test Report	17070023-FCC-E	
Page	31 of 36	

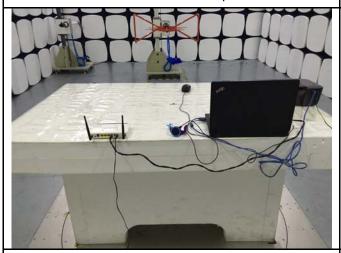
### Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Emissions Test Setup Below 1GHz



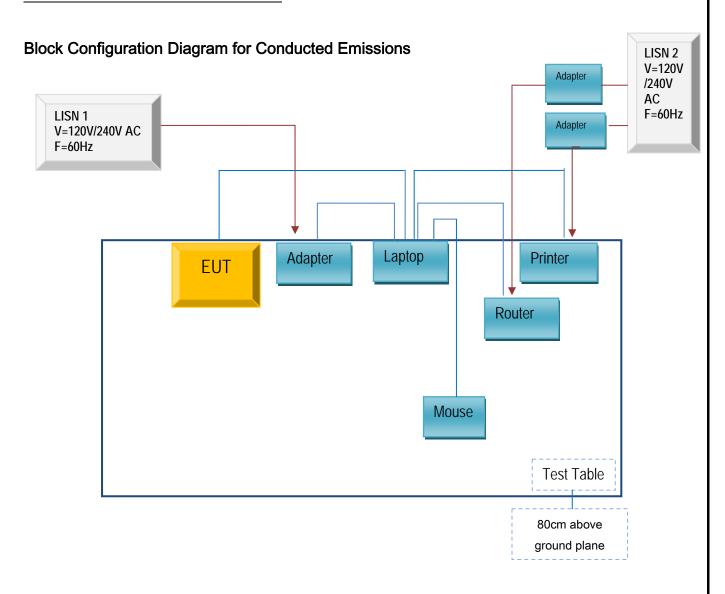
Radiated Emissions Test Setup Above 1GHz



Test Report	17070023-FCC-E	
Page	32 of 36	

### Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

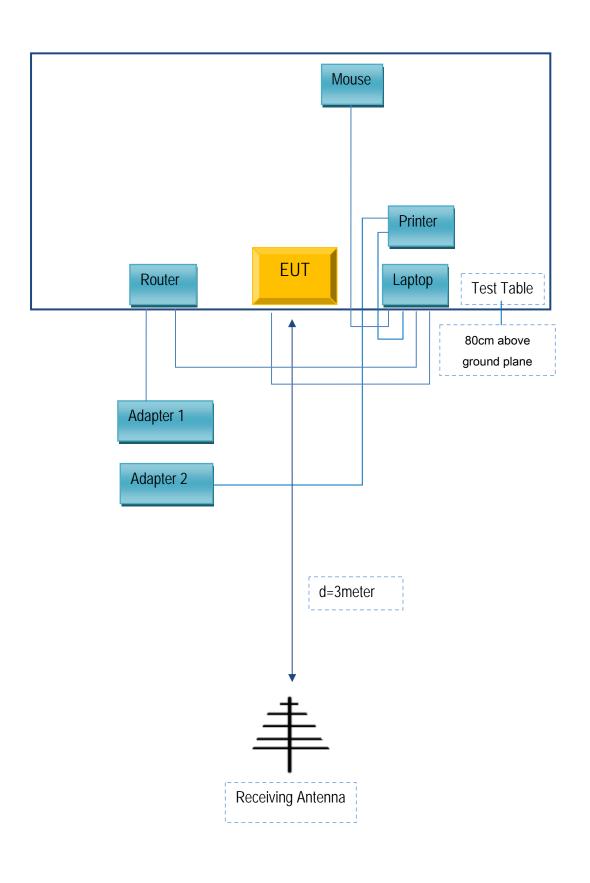
#### Annex C.ii. TEST SET UP BLOCK





Test Report	17070023-FCC-E	
Page	33 of 36	

### **Block Configuration Diagram for Radiated Emissions**





Test Report	17070023-FCC-E	
Page	34 of 36	

### Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

#### Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Lenovo	Laptop	E40	LR-1EHRX
GOLDWEB	Router	R102	1202032094
Lenovo	AC Adapter	42T4416	21D9JU
HP	Printer	VCVRA-1003	CN36M19JWX
DELL	Mouse	E100	912NMTUT41481
BULL	Socket	GN-403	GN201203

#### Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	2m	JX120051274
USB Cable	Un-shielding	No	2m	CBA3000AH0C1
RJ45 Cable	Un-shielding	No	2m	KX156327541
Router Power cable	Un-shielding	No	2m	13274630Z
Printer Power cable	Un-shielding	No	2m	127581031
Power Cable	Un-shielding	No	0.8m	GT211032



Test Report	17070023-FCC-E
Page	35 of 36

### Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment



Test Report	17070023-FCC-E
Page	36 of 36

### Annex E. DECLARATION OF SIMILARITY

N/A