

Test Report

Report No.: MTi210105024-02E1

Date of issue: Feb. 05, 2021

Applicant: FLI Charge, LLC

Product name: FLIwatch

Model(s): 010060201

FCC ID: 2AT2A-01006

Shenzhen Microtest Co., Ltd. http://www.mtitest.com



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Table of Contents

1	GENER	RAL INFORMATION	5
	1.1 FEAT	TURE OF EQUIPMENT UNDER TEST (EUT)	5
		T MODE	
	1.3 EUT	T TEST SETUP	5
	1.4 ANC	CILLARY EQUIPMENT	5
2	SUMN	MARY OF TEST RESULT	6
	2.1 OPE	RATION CHANNEL LIST	6
		T CHANNEL	
3	TEST F	ACILITIES AND ACCREDITATIONS	7
	3.1 TEST	T LABORATORY	7
	3.2 Env	/IRONMENTAL CONDITIONS	7
	3.3 MEA	ASUREMENT UNCERTAINTY	7
4	LIST O	F TEST EQUIPMENT	8
5	TEST R	RESULTS	9
	5.1 ANT	ENNA REQUIREMENT	
	5.1.1	Standard requirement	
	5.1.2	EUT Antenna	
		NDUCTED EMISSION	
	5.2.1	Limits	
	5.2.2	Test Procedures	
	5.2.3	Test Setup	
	5.2.4	Test Result	
		DIATED EMISSION	
	5.3.1	Limits	
	5.3.2	Test Procedures	
	5.3.3	Test Setup	
	5.3.4	Test Result	
		CUPIED BANDWIDTH	
	5.4.1	Test method	
	5.4.2	EUT SETUP	
	5.4.3	Test result	
		PHS OF THE TEST SETUP	_
ΡI	HOTOGRAF	PHS OF THE EUT	25



TEST RESULT CERTIFICATION					
Applicant's name FLI Charge, LLC					
Address	191 E Dee	rpath Road, Suite 100, Lake Forest, IL 60045			
Manufacturer's Name:	Dongguan	Skytech Creations manufacturing Company			
Address:	Qiaotou In Dongguan	dustrial District, Qiaoli Cun, Changping Town,			
Product description					
Product name:	FLIwatch				
Trademark:	FLI Charge	Э			
Model Name:	01006020	1			
Serial Model	N/A				
Standards	FCC Part	15C			
Test procedure:	ANSI C63.	10-2013			
Date of Test	I				
Date (s) of performance of tests 27 Jan. 2021 ~05 Feb. 2021					
Test Result	·····:	Pass			
This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.					
Testing Engineer	:	Denry Mu			
		(Demi Mu)			
Technical Manager	:	Leo Su			
		(Leo Su)			
Authorized Signatory	:	tom Xue			
		(Tom Xue)			



1 GENERAL INFORMATION

1.1 Feature of equipment under test (EUT)

Product name:	FLIwatch
Model name:	010060201
Model difference:	N/A
Operation frequency:	326.5 kHz
Modulation type:	ASK
Max output power:	5W
Antenna type:	Coil Antenna
Power supply:	DC 5V from adapter AC 120V/60Hz
Battery:	N/A
Adapter information:	N/A
EUT serial number:	MTi210105024-02-S0001

1.2 Test mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test mode	Description	
Mode 1	Wireless charging	

Note:

1: The test modes were carried out for all operation modes. The final test mode of the EUT was the worst test mode for EMI, and its test data was showed.

2: EUT is tested under full load.

1.3 EUT test setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.4 Ancillary equipment

Equipment	Model	S/N	Manufacturer
Adapter	BS-E915	/	Shenzhen Times Innovation Technology Co., Ltd
Watch	/	/	Apple Inc.



2 Summary of Test Result

Item	FCC Part No.	Description of Test	Result
1	FCC PART 15.203	Antenna requirement	Pass
2	FCC PART 15.207	Conducted emission	Pass
3	FCC PART 15.209	Radiated emission	Pass
4	FCC Part 15.215	20dB bandwidth	Pass

2.1 Operation channel list

Apple watch	Frequency (kHz)		
Channel	326.5		

2.2 Test channel

Apple watch	Frequency (kHz)		
Channel	326.5		

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China. Tel: (86-755)88850135 Fax: (86-755) 88850136 Web:www.mtitest.com E-mail: mti@51mti.com



3 Test Facilities and Accreditations

3.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd
Location	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.
FCC Registration No.:	448573

3.2 Environmental conditions

Temperature:	15°C~35°C
Humidity	20%~75%
Atmospheric pressure	98kPa~101kPa

3.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

RF frequency	1 x 10-7
RF power, conducted	± 1 dB
Conducted emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	± 5 %

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China. Tel: (86-755)88850135 Fax: (86-755) 88850136 Web:www.mtitest.com E-mail: mti@51mti.com



4 List of test equipment

Equipment No.	Equipment Name	Manufact urer	Model	Serial No.	Calibration date	Due date
MTI-E043	EMI Test Receiver	Rohde≻ hwarz	ESCI7	101166	2020/06/04	2021/06/03
MTI-E044	TRILOG Broadband Antenna	schwarab eck	VULB 9163	9163-133 8	2020/06/05	2021/06/04
MTI-E047	Amplifier	Hewlett-P ackard	8447F	3113A061 50	2020/06/04	2021/06/03
MTI-E089	ESG Vector Signal Generator	Agilent	N5182A	MY49060 455	2020/06/03	2021/06/02
MTI-E058	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051 240	2020/07/03	2021/07/04
MTI-E062	PXA Signal Analyzer	Agilent	N9030A	MY51350 296	2020/06/04	2021/06/03
MTI-E066	MXA Signal Analyzer	Agilent	N9020A	MY50143 483	2020/06/04	2021/06/03
MTI-E078	Synthesized Sweeper	Agilent	83752A	3610A019 57	2020/06/04	2021/06/03
MTI-E079	DC Power Supply	Agilent	E3632A	MY40027 695	2020/06/04	2021/06/03
MTI-E021	EMI Test Receiver	Rohde≻ hwarz	ESCS30	100210	2020/06/04	2021/06/03
MTI-E022	Pulse Limiter	Schwarzb eck	VSTD 9561-F	00679	2020/06/03	2021/06/02
MTI-E023	Artificial mains network	Schwarzb eck	NSLK 8127	NSLK 8127 #841	2020/06/04	2021/06/03
MTI-E046	Active Loop Antenna	Schwarzb eck	FMZB 1519 B	00044	2020/06/05	2021/06/04
MTI-E048	Amplifier	Agilent	8449B	3008A024 00	2020/07/03	2021/07/04
MTI-E072	Thermometer Clock Humidity Monitor	-	HTC-1	/	2020/06/07	2021/06/06
MTI-E090	Test Loop Antenna	DATETEK	LA-001	77140963 4	2020/06/05	2021/06/04

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



5 Test Results

5.1 Antenna requirement

5.1.1 Standard requirement

15.203 requirement: For intentional device, according to 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

5.1.2 EUT Antenna

The EUT antenna is Coil Antenna.	It comply with the standard	requirement. In ca	ase of replacement
of broken antenna the same anten	na type must be used.		



5.2 Conducted emission

5.2.1 Limits

For the following equipment, when 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 shall not exceed the limits in the following tables. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal using a 50 μ H/50 ohms line impedance stabilization network (LISN).

Frequency	Conducted li	mit (dBµV)
(MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.5 -5	56	46
5 -30	60	50

Note:

the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

5.2.2 Test Procedures

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

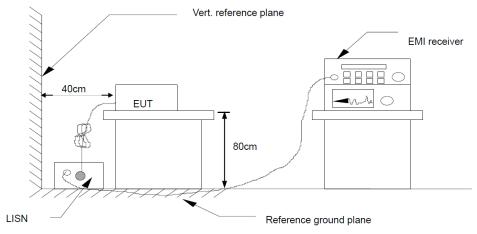
Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN is at least 80 cm from nearest part of EUT chassis.

For the actual test configuration, please refer to the related Item – photographs of the test setup.

5.2.3 Test Setup



5.2.4 Test Result



0.150

0.5

Report No.: MTi210105024-02E1

30.000

EUT:	FLIwatch	Model Name:	010060201
Pressure:	101kPa	Phase:	L
Test voltage:	DC 5V from adapter AC 120V/60Hz	Test mode:	Mode 1
80.0 dBuV			
70			
60		FLUParti	5 ClassB AC Conduction(QP)
50 1	5	FCCPart15	ClassB AC Conduction(AVG)
40 3	Waka 1 MMa Aga 1 A	,11 1	
20		J ²	Mary Mary Mary Mary Mary Mary Mary Mary
0	MMM 1. Il II	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Peak AVG
-10			
-20			

(MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1660	33.29	10.93	44.22	65.16	-20.94	QP
2		0.1660	20.10	10.93	31.03	55.16	-24.13	AVG
3		0.2220	29.03	10.92	39.95	62.74	-22.79	QP
4		0.2220	16.89	10.92	27.81	52.74	-24.93	AVG
5	*	0.5500	32.57	10.96	43.53	56.00	-12.47	QP
6		0.5500	20.82	10.96	31.78	46.00	-14.22	AVG
7		0.6940	23.26	11.07	34.33	56.00	-21.67	QP
8		0.6940	11.78	11.07	22.85	46.00	-23.15	AVG
9		1.3740	20.17	11.28	31.45	56.00	-24.55	QP
10		1.3740	8.00	11.28	19.28	46.00	-26.72	AVG
11		5.2980	20.45	11.39	31.84	60.00	-28.16	QP
12		5.2980	6.39	11.39	17.78	50.00	-32.22	AVG

EUT:	FLIwatch	Model Name:	010060201
Pressure:	101kPa	Phase:	N
Test voltage:	DC 5V from adapter AC 120V/60Hz	Test mode:	Mode 1
80.0 dBuV			
70			
60		FCCPart1	5 ClassB AC Conduction(QP)
50		FCCPart15	ClassB AC Conduction(AVG)
40 1	*		
30 2		SAM MAN A AMAN A JAM	**
20		\^``\$` \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	* Mary Mary Mary Mary Mary Deak
10	A/MMA A II II	<u> </u>	that May the top the through the second will be the second with the second will be
0			
-10			

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1700	29.87	10.93	40.80	64.96	-24.16	QP
2	0.1700	17.17	10.93	28.10	54.96	-26.86	AVG
3	0.5500	33.16	10.96	44.12	56.00	-11.88	QP
4 *	0.5500	27.40	10.96	38.36	46.00	-7.64	AVG
5	0.7980	22.43	11.12	33.55	56.00	-22.45	QP
6	0.7980	15.34	11.12	26.46	46.00	-19.54	AVG
7	3.2540	19.83	11.38	31.21	56.00	-24.79	QP
8	3.2540	10.92	11.38	22.30	46.00	-23.70	AVG
9	5.2940	20.05	11.39	31.44	60.00	-28.56	QP
10	5.2940	9.21	11.39	20.60	50.00	-29.40	AVG
11	6.3580	18.09	11.40	29.49	60.00	-30.51	QP
12	6.3580	10.00	11.40	21.40	50.00	-28.60	AVG

EUT:		FLIwatch		Model Name:	010060201
Press	sure:	101kPa		Phase:	L
Test	voltage:	DC 5V from adapted 240V/60Hz	er AC	Test mode:	Mode 1
80.0	0 dBuV				
70					
60				FCCPart15 CI	assB AC Conduction(QP)
50		3	-	FCCPart15 Clas	ssB AC Conduction(AVG)
40	1	WATER TO THE THEORY	Å , M	/ <u>"\ /"\ /"\ /"\ /"\ /"\ /"\ /"\ /"\ /"\ /</u>	10010
30				M M W M M M M M M M M M M M M M M M M M	VMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM
20	MAMM	A. A. Manual			Pe
10			1, 4, 7	, , , , ,	A A A A A A A A A A A A A A A A A A A
0					
-10					
-20					

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1539	30.82	10.94	41.76	65.79	-24.03	QP
2	0.1539	18.28	10.94	29.22	55.79	-26.57	AVG
3	0.5060	34.13	10.91	45.04	56.00	-10.96	QP
4	0.5060	28.64	10.91	39.55	46.00	-6.45	AVG
5 *	0.6060	38.98	11.00	49.98	56.00	-6.02	QP
6	0.6060	19.47	11.00	30.47	46.00	-15.53	AVG
7	1.0740	31.97	11.22	43.19	56.00	-12.81	QP
8	1.0740	18.13	11.22	29.35	46.00	-16.65	AVG
9	2.1340	29.51	11.39	40.90	56.00	-15.10	QP
10	2.1340	17.48	11.39	28.87	46.00	-17.13	AVG
11	4.5460	28.83	11.39	40.22	56.00	-15.78	QP
12	4.5460	16.72	11.39	28.11	46.00	-17.89	AVG

EUT:	FLIwatch	Model Name:	010060201
Pressure:	101kPa	Phase:	N
Test voltage:	DC 5V from adapter AC 240V/60Hz	Test mode:	Mode 1
80.0 dBuV			
70			
60		FCCPart15	ClassB AC Conduction(QP)
50	3	FCCPart15 C	lassB AC Conduction(AVG)
40			140
20			Peak
10		A A A A A	AVG
0			
-10			
-20			
0.150	0.5	(MHz) 5	30.000

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.3660	27.77	10.99	38.76	58.59	-19.83	QP
2		0.3660	21.37	10.99	32.36	48.59	-16.23	AVG
3		0.5980	36.91	11.09	48.00	56.00	-8.00	QP
4	*	0.5980	30.93	11.09	42.02	46.00	-3.98	AVG
5		1.0700	28.76	11.29	40.05	56.00	-15.95	QP
6		1.0700	19.13	11.29	30.42	46.00	-15.58	AVG
7		2.1580	17.74	11.40	29.14	46.00	-16.86	AVG
8		2.1580	27.01	11.40	38.41	56.00	-17.59	QP
9		2.9860	26.77	11.38	38.15	56.00	-17.85	QP
10		2.9860	17.40	11.38	28.78	46.00	-17.22	AVG
11		3.8100	26.15	11.42	37.57	56.00	-18.43	QP
12		3.8100	15.74	11.42	27.16	46.00	-18.84	AVG



5.3 Radiated emission

5.3.1 Limits

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)		
FREQUENCY (MI12)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

The limit for radiated test was performed according to FCC PART 15C.

The tighter limit applies at the band edges.

Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement	Range (MHz)				
used in the device or on which the device operates or tunes (MHz)	5 (
Below 1.705	30				
1.705 – 108	1000				
108 – 500	2000				
500 – 1000	5000				
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower				

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting				
Attenuation	Auto				
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP				
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP				
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP				



5.3.2 Test Procedures

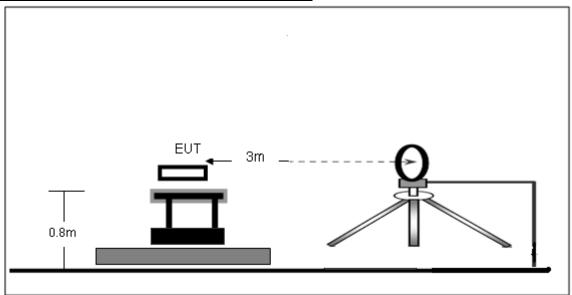
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
- h. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

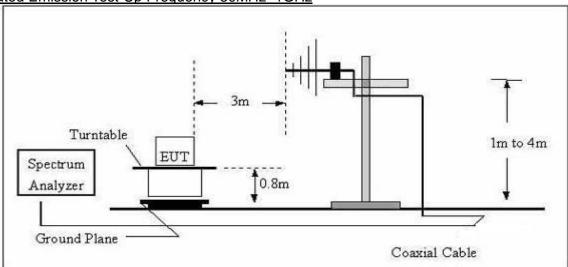


5.3.3 Test Setup

Radiated Emission Test-Up Frequency Below 30MHz



Radiated Emission Test-Up Frequency 30MHz~1GHz



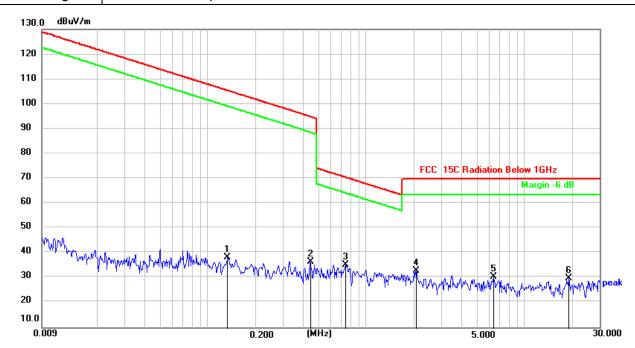
5.3.4 Test Result



Frequency range (9kHz - 30MHz)

EUT:			010060201
Pressure:	101kPa	Test mode:	Mode 1
		l .	

Test voltage: DC 5V from adapter AC 120V/60Hz

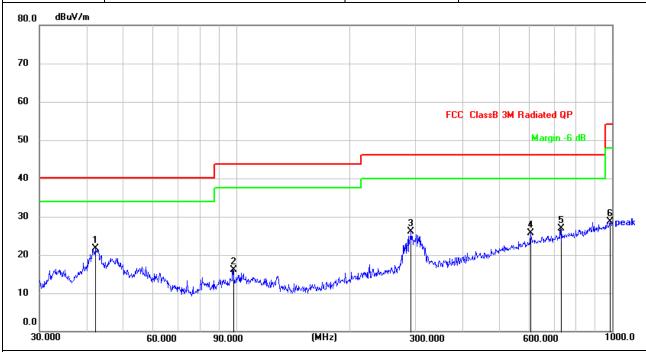


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1340	16.39	21.83	38.22	105.06	-66.84	QP
2	0.4454	14.91	21.72	36.63	94.63	-58.00	QP
3 *	0.7485	13.18	22.04	35.22	70.13	-34.91	QP
4	2.0801	10.80	22.14	32.94	69.50	-36.56	QP
5	6.4235	8.61	21.85	30.46	69.50	-39.04	QP
6	19.2027	8.16	21.83	29.99	69.50	-39.51	QP



Frequency range (30MHz - 1GHz)

EUT:	FLIwatch	Model Name:	010060201
Pressure:	101kPa	Polarization:	Vertical
Test voltage:	DC 5V from adapter AC 120V/60Hz	Test mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	42.3022	33.92	-12.27	21.65	40.00	-18.35	QP
2	98.1419	28.88	-12.83	16.05	43.50	-27.45	QP
3	292.0583	34.92	-8.86	26.06	46.00	-19.94	QP
4	607.7867	28.74	-3.08	25.66	46.00	-20.34	QP
5	729.3583	27.83	-0.92	26.91	46.00	-19.09	QP
6	986.0717	25.60	3.06	28.66	54.00	-25.34	QP



JT: essure	e:	-	wato IkPa			Model Name: 010060201 Polarization: Horizontal						Horizontal				
est volt		-			ad	apt	er	AC 120V/60Hz				Mode 1				
80.0	dBuV/m															
70																
60											FC	C ClassB	3M Ra	diated	QP	
50														Margir	n -6 dB	
40																
30	1							3			4	5.			. manaret	6 X _{AA} peal
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	42.1542	36.17	-12.29	23.88	40.00	-16.12	QP
2	82.3588	34.75	-15.56	19.19	40.00	-20.81	QP
3	154.2786	38.56	-15.00	23.56	43.50	-19.94	QP
4	318.8170	33.78	-8.65	25.13	46.00	-20.87	QP
5	434.0651	31.20	-6.64	24.56	46.00	-21.44	QP
6	900.1474	27.42	1.10	28.52	46.00	-17.48	QP



5.4 Occupied bandwidth

5.4.1 Test method

The transmitter output is connected to the spectrum analyzer.

The RBW is set to 300Hz. The VBW is set to 3 times the RBW.

The sweep time is coupled.

The spectrum analyzer internal 99% bandwidth function is utilized.

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

Note that when the EUT was in standby mode the only signal that comes out from the EUT was the intentional charging signal of 326.5kHz. On the other hand, when the EUT was in operational mode there were two signals. One of the intentional charging signal of 326.5kHz and the other one the control signal of 340kHz that controls the communication/charging status between EUT and the client device-the watch.

5.4.2 EUT SETUP

Configuration 1: Charger in standby mode, transmitting low duty cycle CW signal at 326.5kHz test.

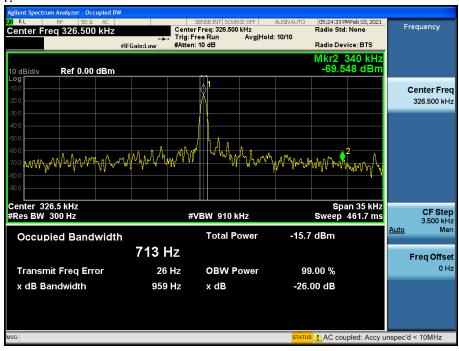
Configuration 2: Charger in pairing mode with FSK modulation (-0/+15 kHz) which occurs over a very short period of time as soon as the watch is placed on the charger.

Configuration 3: Charger in charging mode with CW signal and duty cycle varied to control charge level via load modulation from watch.

5.4.3 Test result

Test plots as below:

Configuration 1:

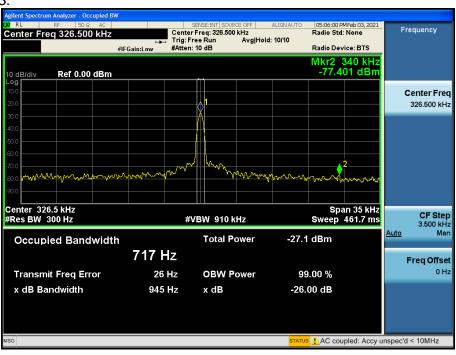




Configuration 2:

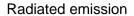


Configuration 3:





Photographs of the Test Setup



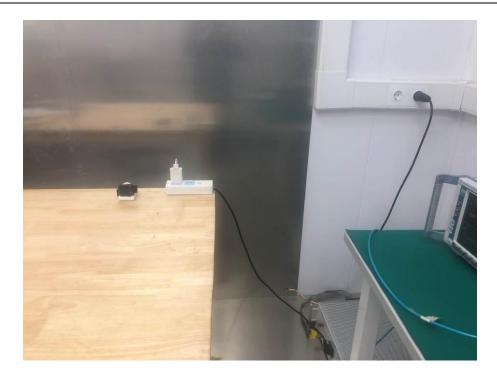




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Conducted emission





Photographs of the EUT See the APPENDIX 1- EUT PHOTO. ----END OF REPORT----