

TECHNICAL REPORT



Report No.: TW2012199E
File reference No.: 2021-01-04

Applicant: Shenzhen Topworld Technology Co., Limited

Product: Smart watch

Model No.: i8, i6, i6 pro, i7, i7 pro, i8 pro, i9, i9 pro, e5, e6, e8

Trademark: ideapro

Test Standards: FCC Part 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: January 04, 2021

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with “Quality Law of People’s Republic of China” Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

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

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The 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.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01



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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996
Site Listed with Federal Communications commission (FCC)
Registration Number:744189
For 3m Anechoic Chamber
Site Listed with Industry Canada of Ottawa, Canada
Registration Number: IC: 5205A
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Shenzhen Topworld Technology Co., Limited
Address: 7C, West 7/F, Building 2,Saige Technology Park, Futian Dist. Shenzhen, China
Telephone: 13530132705
Fax: --

1.3 Description of EUT

Product: Smart watch
Manufacturer: Shenzhen Topworld Technology Co., Limited
Address: 7C, West 7/F, Building 2,Saige Technology Park, Futian Dist. Shenzhen, China
Brand Name: ideapro
Additional Brand Name: N/A
Model Number: i8, i6, i6 pro, i7, i7 pro, i8 pro, i9, i9 pro, e5, e6, e8
Test Model No.: i8
Remark: These models are identical in interior structure, electrical circuits and components, different model names for the marketing requirement.
Hardware Version: 073212ic39300328
Software Version: 1.02.02_210106
Serial No.: QC20_V1.1
Type of Modulation GFSK (Bluetooth BLE)
Frequency range 2402-2480MHz
Frequency Selection By software
Channel Number 40
Test Voltage: DC3.7V, 230mAh 0.85Wh Li-ion battery

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1.4 Submitted Sample: 1 Samples

1.5 Test Duration
2020-12-17 to 2021-01-04

1.6 Test Uncertainty
Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 1GHz Uncertainty =4.7dB
Radiated Emissions above 1GHz Uncertainty =6.0dB
Conducted Power Uncertainty =6.0dB
Occupied Channel Bandwidth Uncertainty =5%
Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer 

The sample tested by _____

Print Name: Terry Tang



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2020-06-23	2021-06-22
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic	--	--	N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2020-01-18	2021-01-17
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2020-06-23	2021-06-22
RF Cable	Zhengdi	7m	--	2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2020-01-07	2021-01-06

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

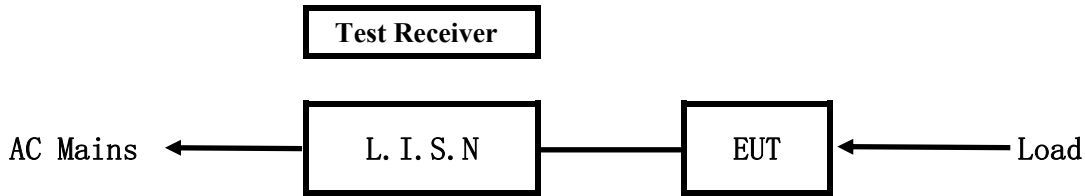
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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5. Power Line Conducted Emission Test

5.1 Schematics of the test



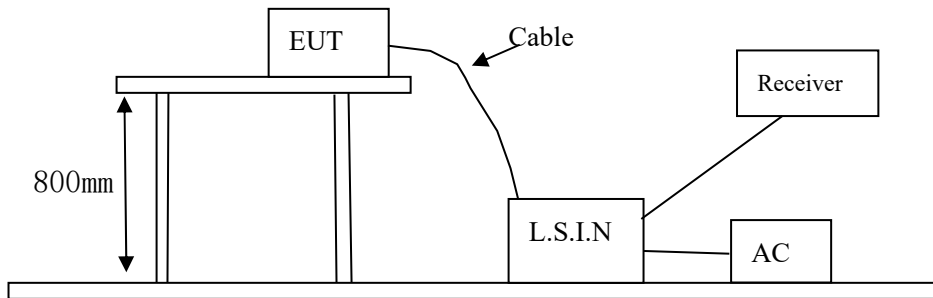
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
Smart watch	Shenzhen Topworld Technology Co., Limited	i8, i6, i6 pro, i7, i7 pro, i8 pro, i9, i9 pro, e5, e6, e8	2AYMC-I8

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A; Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes: 1. *Decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.



A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

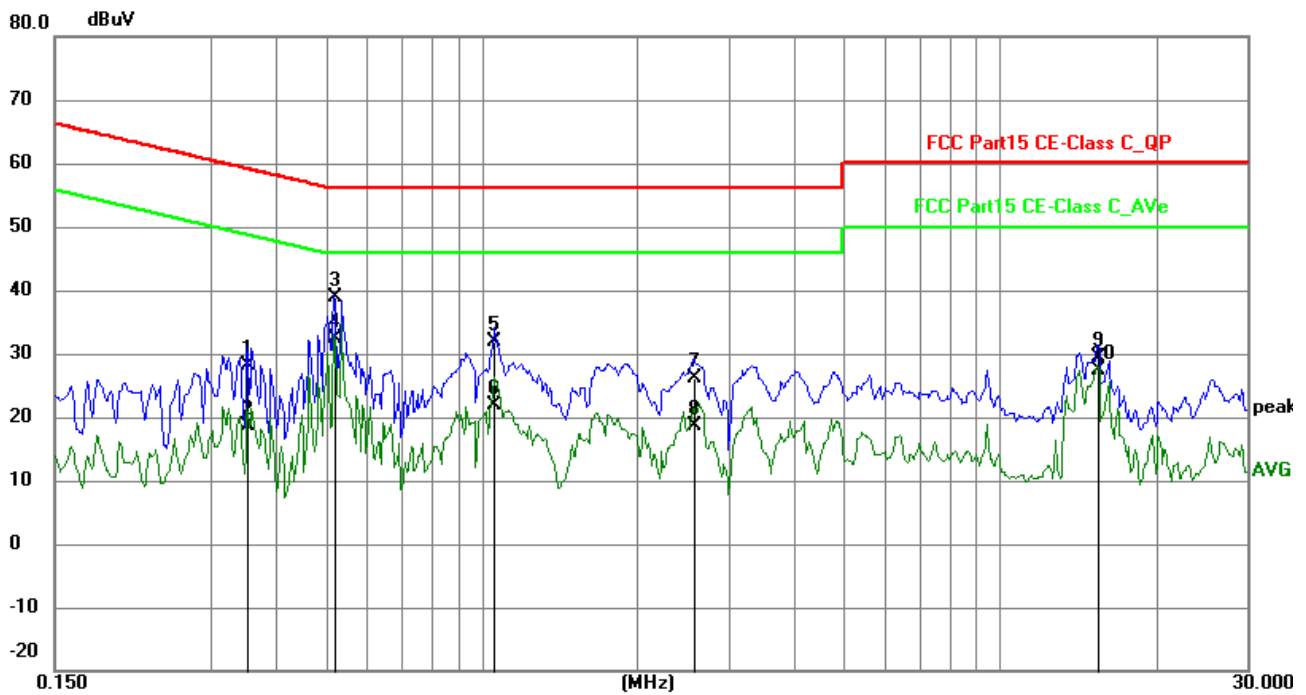
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Bluetooth Transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.3528	18.43	9.76	28.19	58.90	-30.71	QP	P
2	0.3528	8.87	9.76	18.63	48.90	-30.27	AVG	P
3	0.5205	29.04	9.77	38.81	56.00	-17.19	QP	P
4	0.5205	22.54	9.77	32.31	46.00	-13.69	AVG	P
5	1.0587	21.98	9.79	31.77	56.00	-24.23	QP	P
6	1.0587	12.19	9.79	21.98	46.00	-24.02	AVG	P
7	2.5641	16.27	9.82	26.09	56.00	-29.91	QP	P
8	2.5641	8.81	9.82	18.63	46.00	-27.37	AVG	P
9	15.4332	19.02	10.41	29.43	60.00	-30.57	QP	P
10	15.4332	17.00	10.41	27.41	50.00	-22.59	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

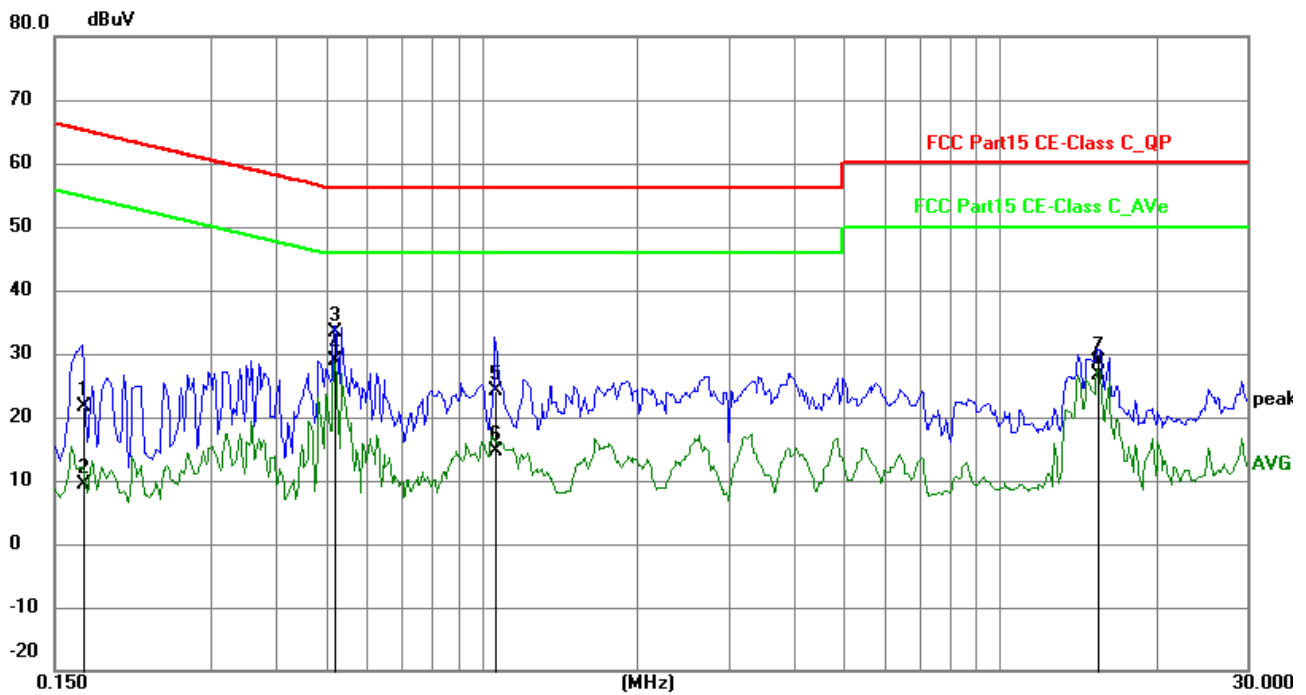
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Bluetooth Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1695	11.82	9.77	21.59	64.98	-43.39	QP	P
2	0.1695	-0.42	9.77	9.35	54.98	-45.63	AVG	P
3	0.5205	23.72	9.77	33.49	56.00	-22.51	QP	P
4	0.5205	19.02	9.77	28.79	46.00	-17.21	AVG	P
5	1.0626	14.45	9.79	24.24	56.00	-31.76	QP	P
6	1.0626	4.84	9.79	14.63	46.00	-31.37	AVG	P
7	15.4332	18.27	10.41	28.68	60.00	-31.32	QP	P
8	15.4332	16.29	10.41	26.70	50.00	-23.30	AVG	P

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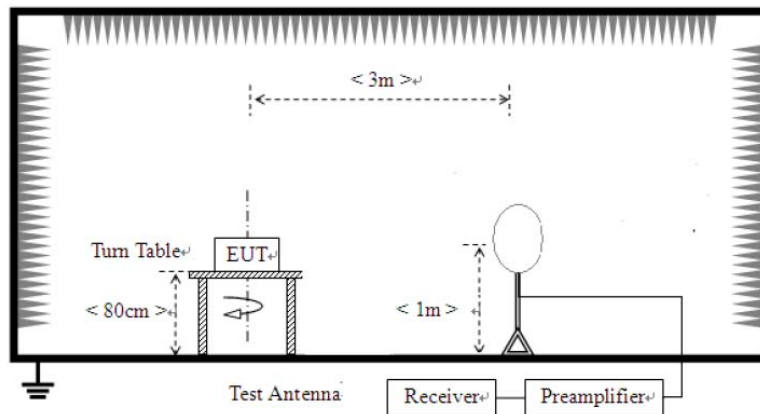
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

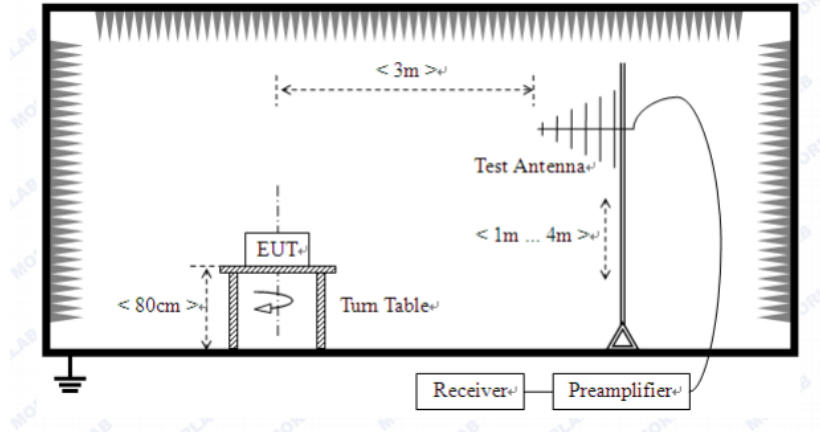


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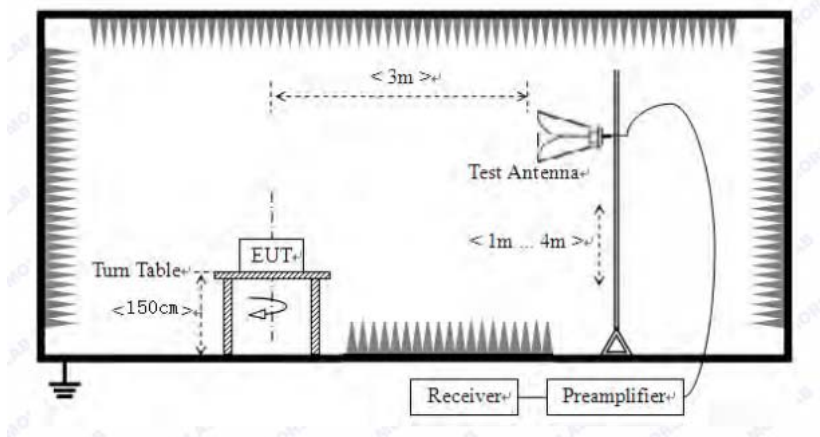
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
 5. Battery full charged during tests.

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Test result

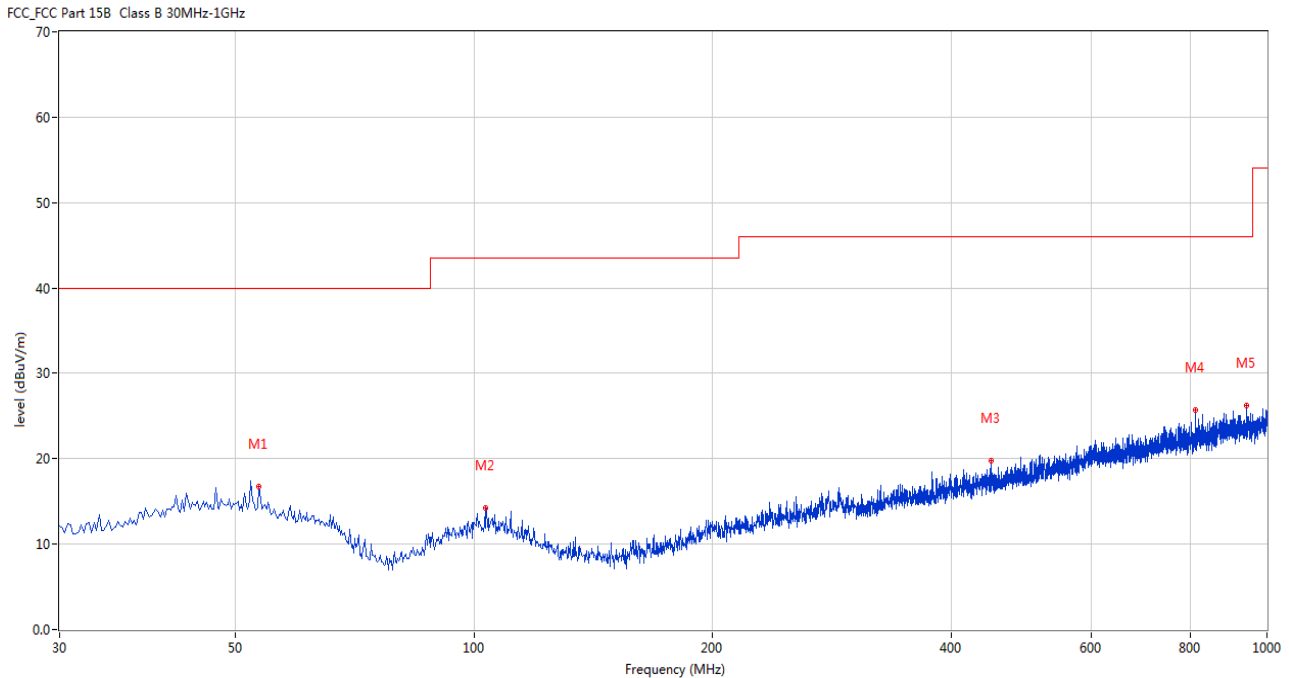
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	53.517	16.72	-11.52	40.0	-23.28	Peak	46.00	100	Horizontal	Pass
2	103.217	14.24	-13.37	40.0	-25.76	Peak	119.00	100	Horizontal	Pass
3	449.178	19.75	-8.01	47.0	-27.25	Peak	173.00	100	Horizontal	Pass
4	812.594	25.75	-2.94	47.0	-21.25	Peak	274.00	100	Horizontal	Pass
5	942.057	26.25	-1.73	47.0	-20.75	Peak	279.00	100	Horizontal	Pass

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

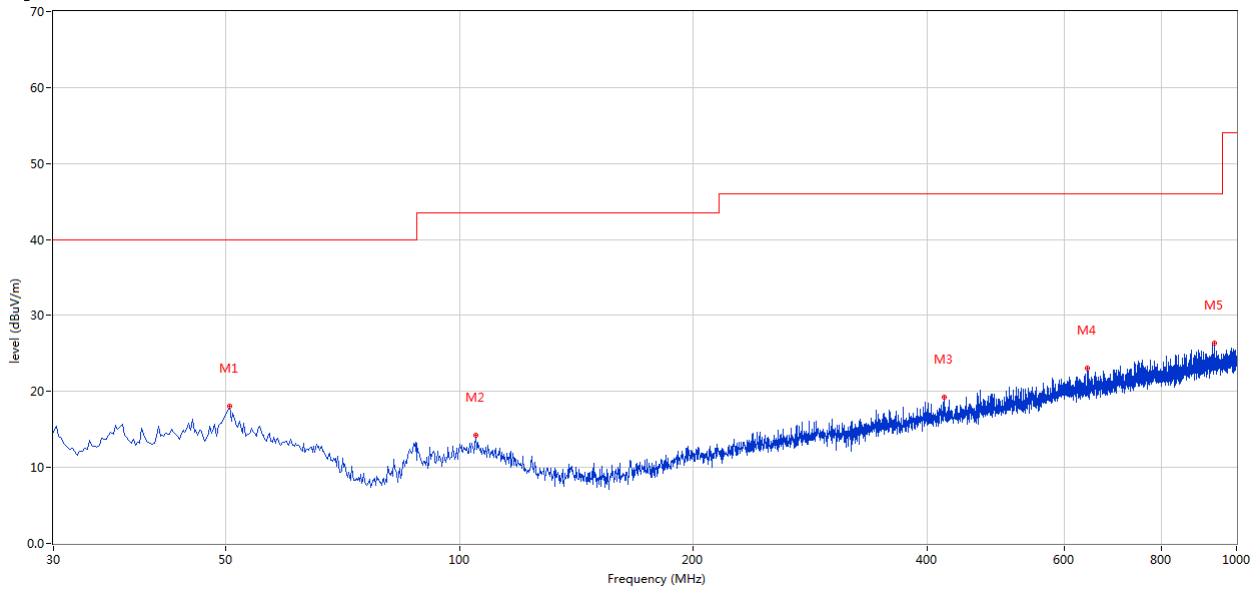
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

Results: Pass

Test Figure:

FCC_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	50.607	18.06	-11.39	40.0	-21.94	Peak	326.00	100	Vertical	Pass
2	104.914	14.26	-13.23	40.0	-25.74	Peak	60.00	100	Vertical	Pass
3	421.055	19.30	-8.13	47.0	-27.70	Peak	229.00	100	Vertical	Pass
4	642.159	23.06	-4.65	47.0	-23.94	Peak	208.00	100	Vertical	Pass
5	936.238	26.35	-1.72	47.0	-20.65	Peak	185.00	100	Vertical	Pass

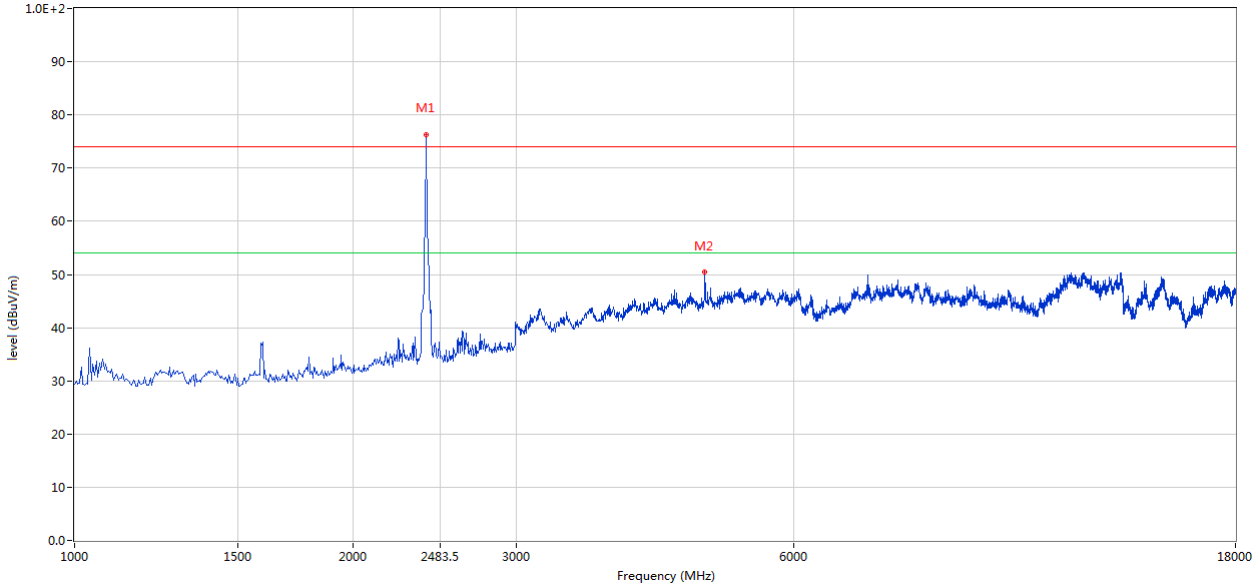
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Please refer to the following test plots for details:

Low Channel: Vertical

FCC Part 15C Class B 1GHz-18GHz -2



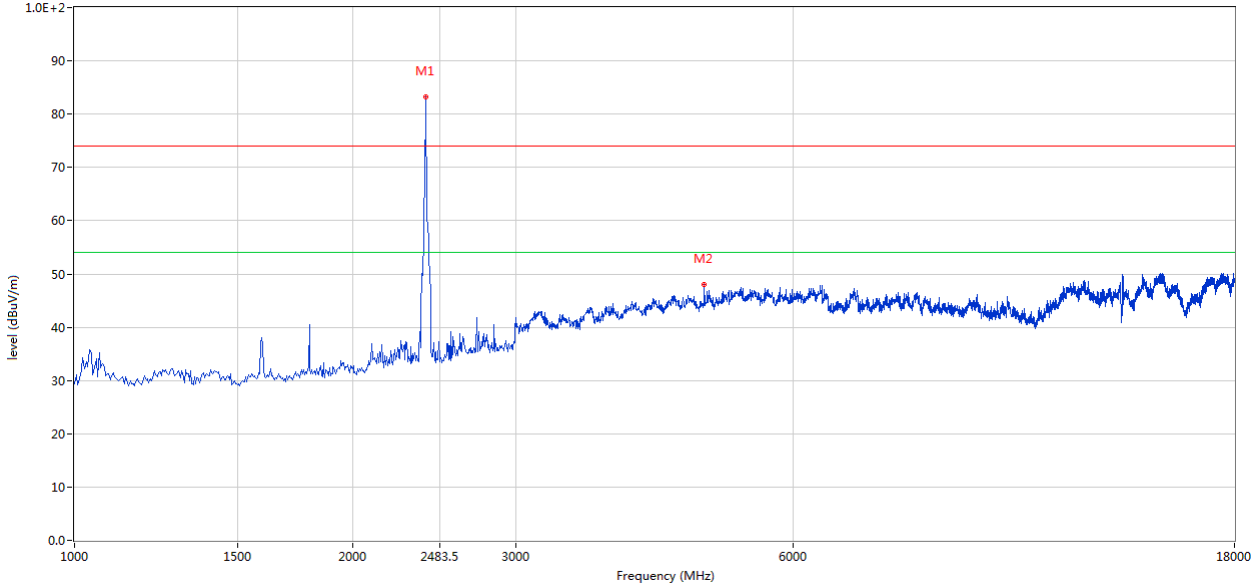
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.500	77.37	-3.57	74.0	3.37	Peak	273.00	100	Vertical	N/A
2	4803.750	50.38	3.13	74.0	-23.62	Peak	223.00	100	Vertical	Pass

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Low Channel : Horizontal

FCC Part 15C Class B 1GHz-18GHz -2

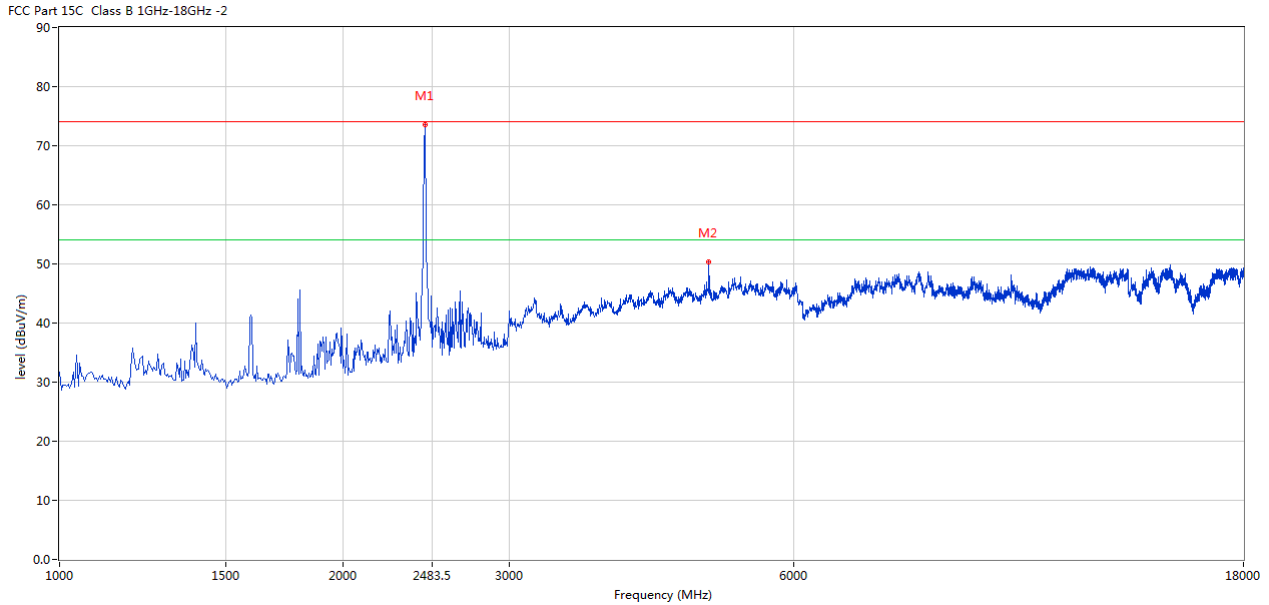


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.500	83.52	-3.57	74.0	10.52	Peak	276.00	100	Horizontal	N/A
2	4803.750	51.93	3.13	74.0	-22.07	Peak	244.00	100	Horizontal	Pass

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Middle Channel : Vertical

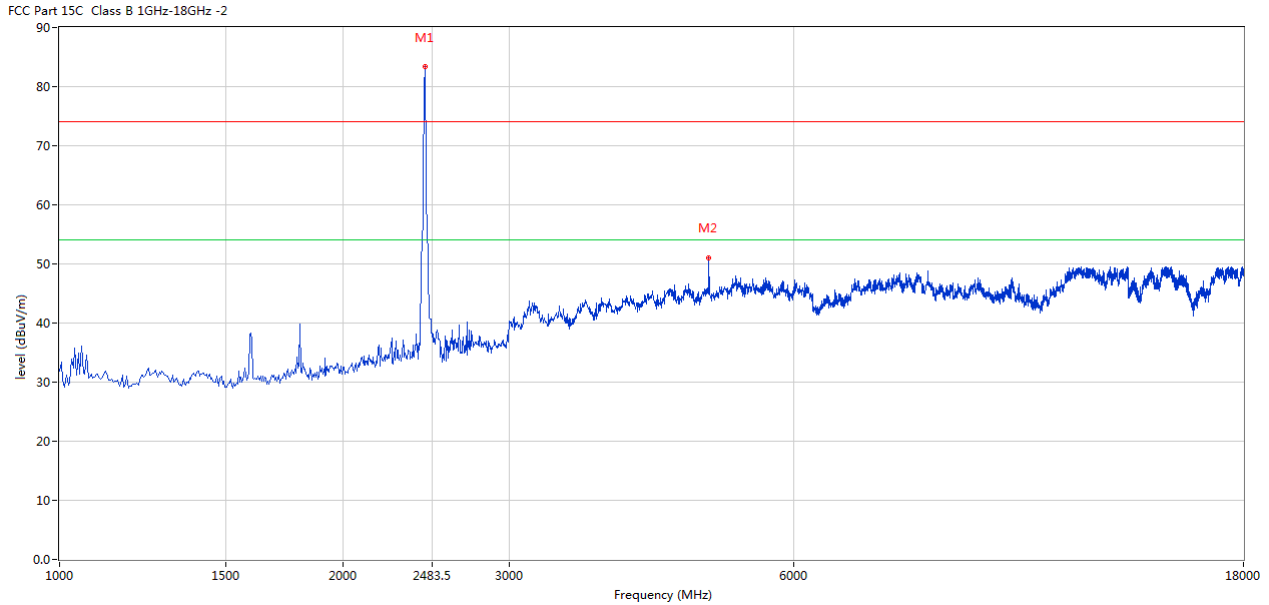


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440.750	73.54	-3.57	74.0	-0.46	Peak	144.00	100	Vertical	Pass
2	4880.250	50.27	3.20	74.0	-23.73	Peak	171.00	100	Vertical	Pass

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Middle Channel : Horizontal

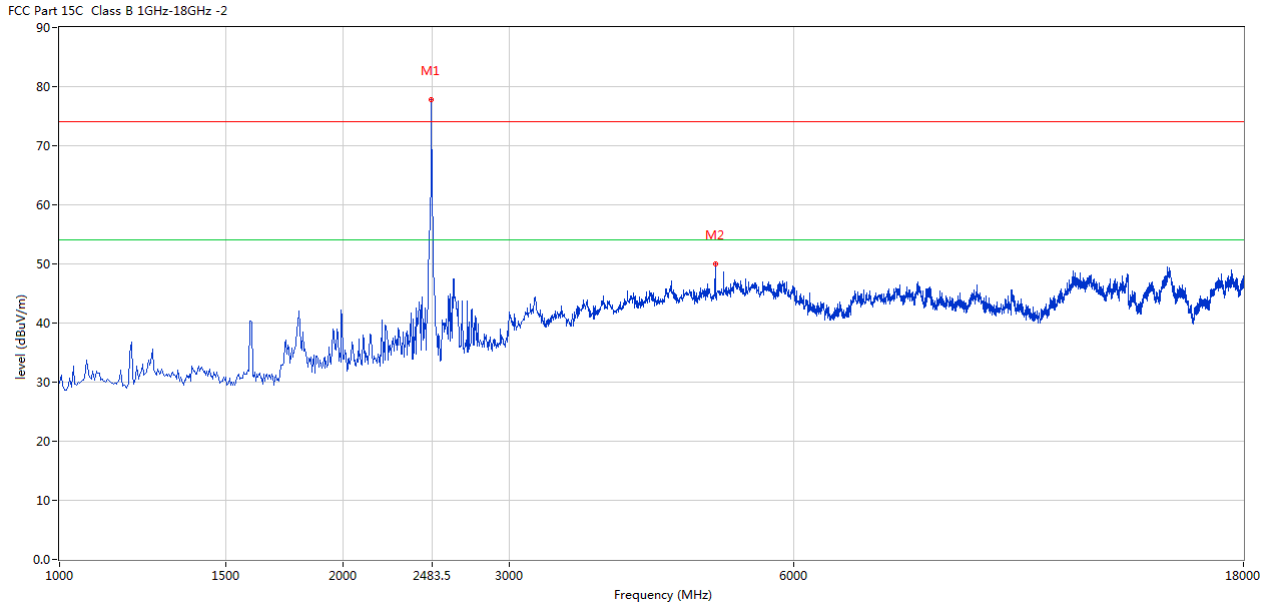


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440.750	83.38	-3.57	74.0	9.38	Peak	272.00	100	Horizontal	N/A
2	4880.250	51.04	3.20	74.0	-22.96	Peak	157.00	100	Horizontal	Pass

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High Channel : Vertical

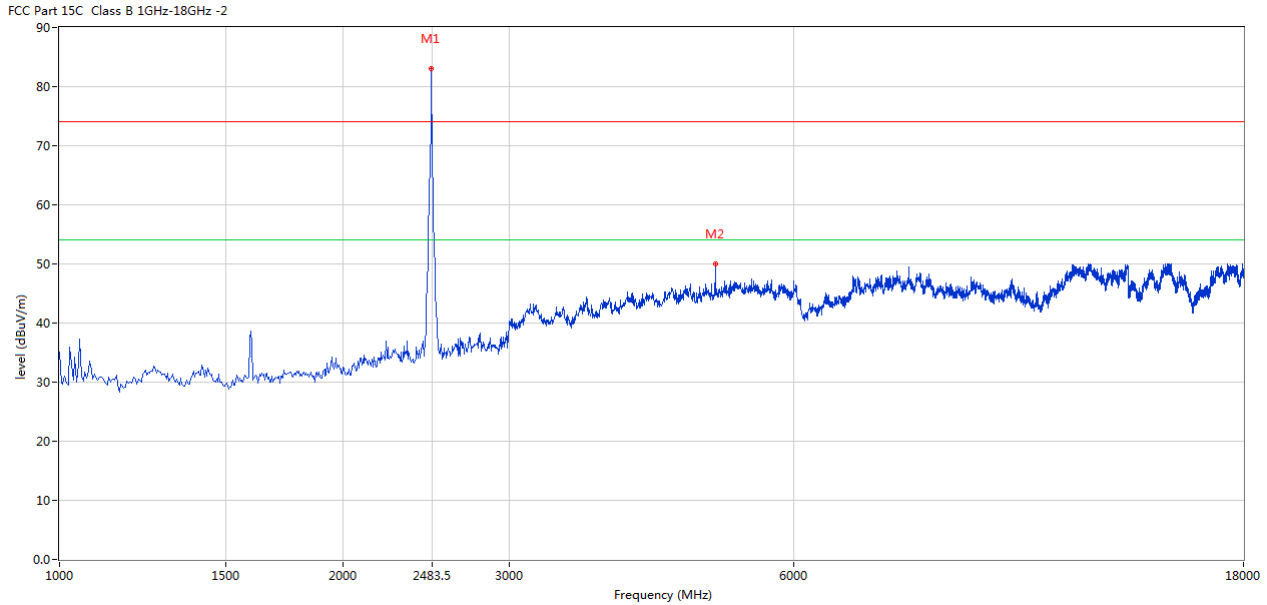


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.000	77.73	-3.57	74.0	3.73	Peak	158.00	100	Vertical	N/A
2	4961.000	49.93	3.36	74.0	-24.07	Peak	174.00	100	Vertical	Pass

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High Channel : Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.000	83.13	-3.57	74.0	9.13	Peak	194.00	100	Horizontal	N/A
2	4961.000	52.07	3.36	74.0	-21.93	Peak	229.00	100	Horizontal	Pass

Note: 1. Result Level = Reading + Factor

2. Factor= AF + Cable Loss- Preamp

3. Margin = Result– Limit

4. For radiated Emissions from 18-25GHz and below 30MHz, it is only the floor noise.

5. The peak value less than the AV limit, no necessary to take down the AV measurement result.

The report refers only to the sample tested and does not apply to the bulk.

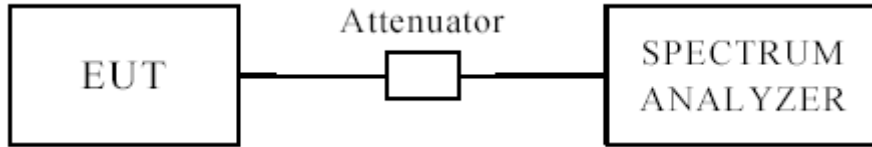
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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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6dB BW

EUT	Smart watch		Model	i8
Mode	Keep Transmitting		Test Voltage	DC3.6V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (MHz)	Pass/ Fail
Low	2402	679	0.5	Pass
Middle	2440	679	0.5	Pass
High	2480	679	0.5	Pass

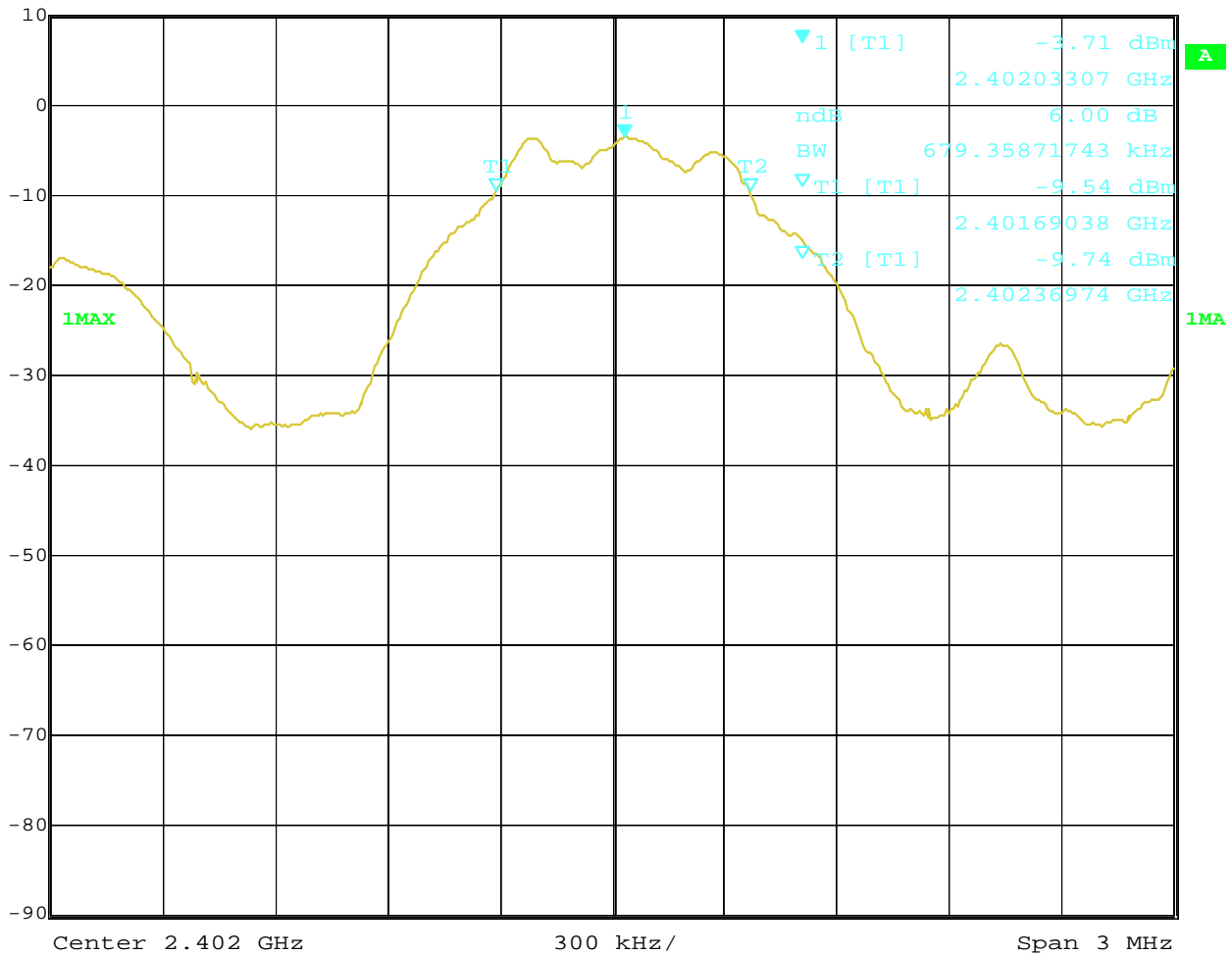
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Test Figure:

1. Condition: Low Channel

	Marker 1 [T1 ndB]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	ndB	6.00 dB	VBW	300 kHz
	10 dBm	BW	679.35871743 kHz	SWT	5 ms



Date: 4.JAN.2021 09:53:50

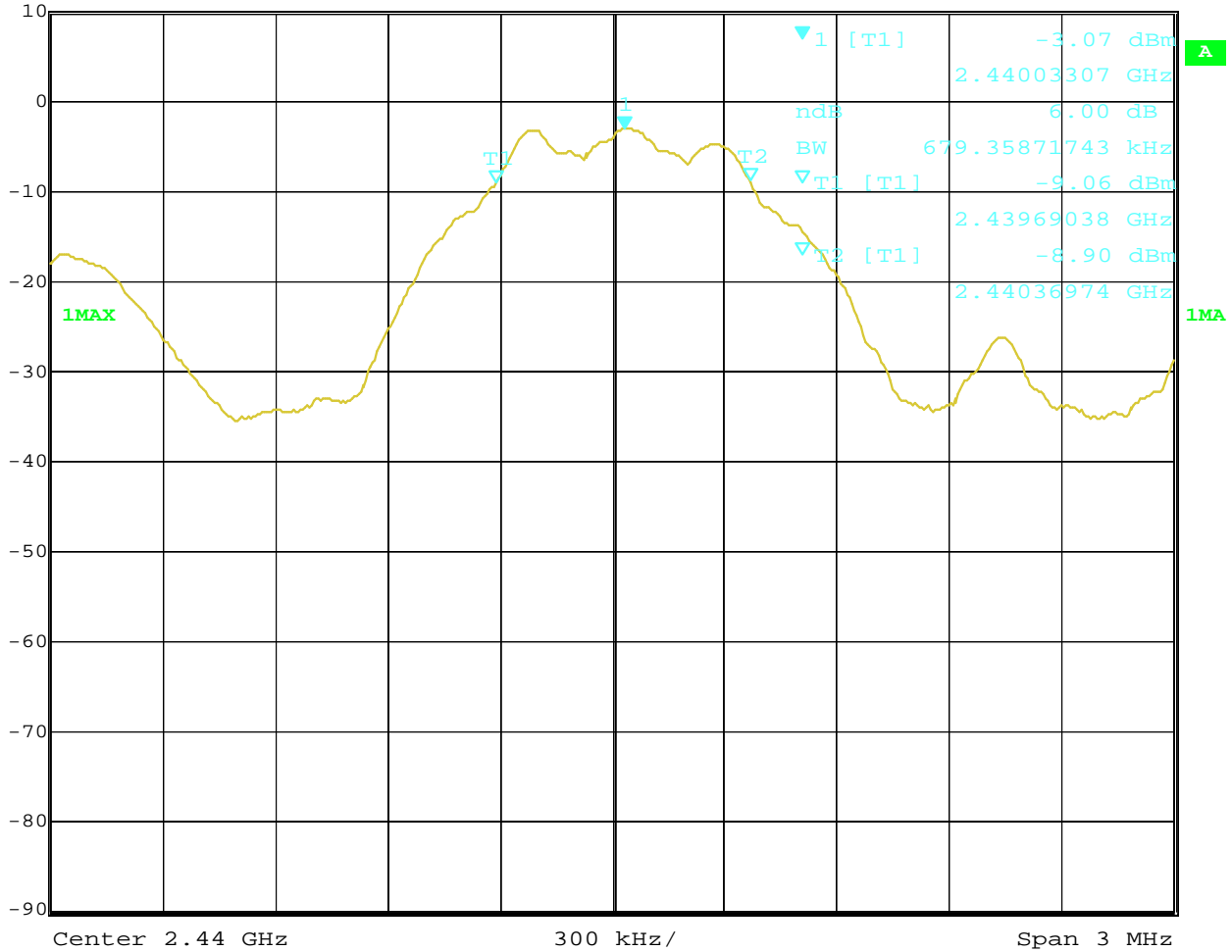
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2. Condition: Middle Channel



Ref Lvl	10 dBm	Marker 1 [T1 ndB]	ndB	6.00 dB	RBW	100 kHz	RF Att	20 dB
		BW	679.35871743 kHz		VBW	300 kHz	Unit	dBm
					SWT	5 ms		



Date: 4.JAN.2021 09:53:20

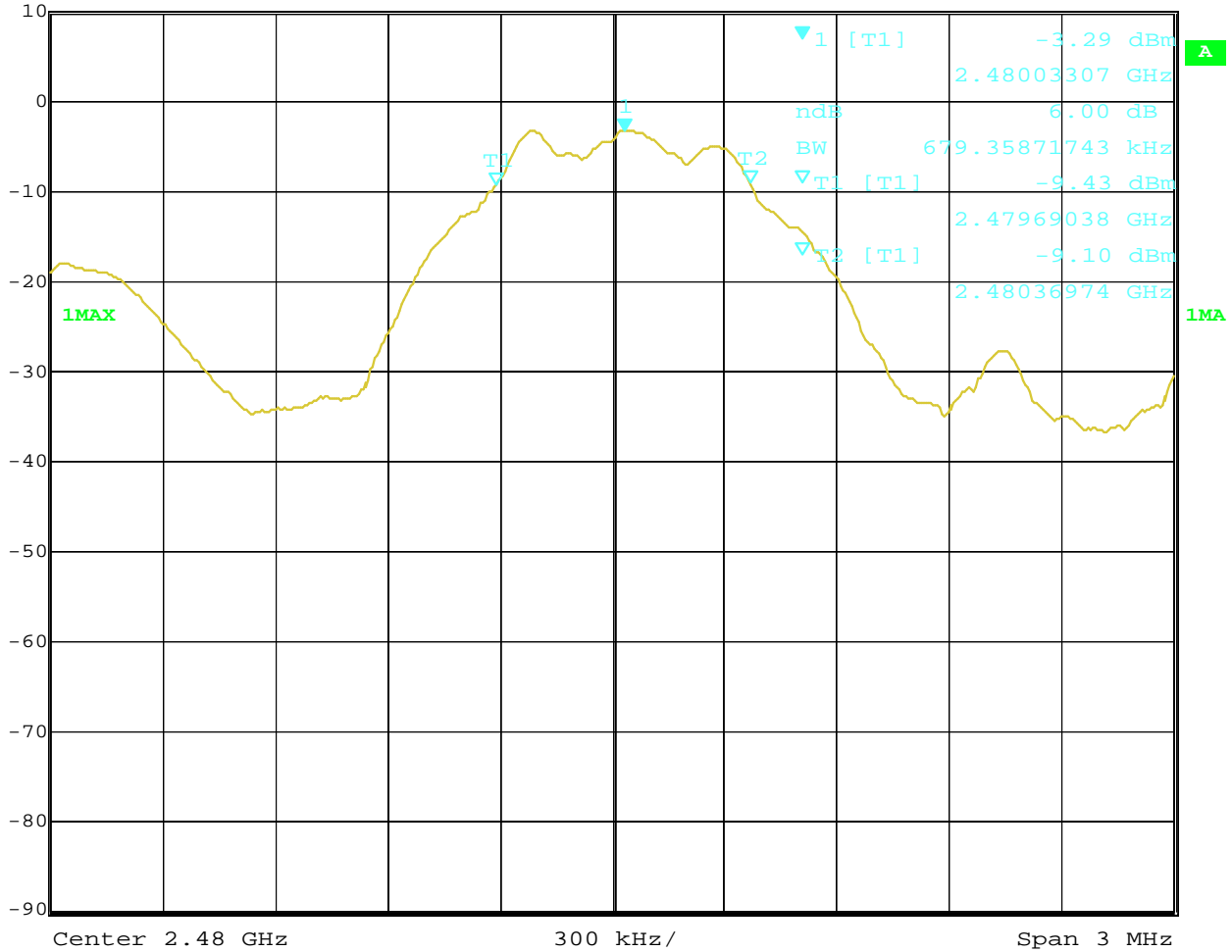
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3. High Channel



Ref Lvl	10 dBm	Marker 1 [T1 ndB]	ndB	6.00 dB	RBW	100 kHz	RF Att	20 dB
		BW	679.35871743 kHz		VBW	300 kHz	Unit	dBm
					SWT	5 ms		



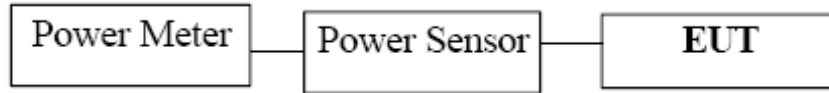
Date: 4.JAN.2021 09:52:46

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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the Peak power were measured.



8.4 Test Results

EUT	Smart watch		Model	i8	
Mode	Keep Transmitting		Test Voltage	DC3.6V	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)		Peak Power Limit (dBm)	Pass/ Fail
		Peak			
Low	2402	-2.88		30	Pass
Middle	2440	-2.29		30	Pass
High	2480	-2.55		30	Pass

Note: 1. the result basic equation calculation as follow:

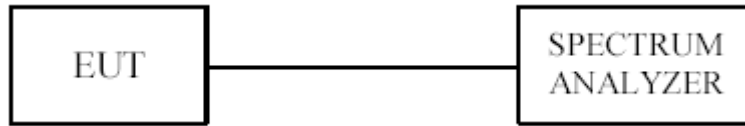
$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW \geq 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be \leq 8 dBm/3kHz.



9.4 Test Result

EUT	Smart watch			Model	i8
Mode	Keep Transmitting			Test Voltage	DC3.6V
Temperature	24 deg. C,			Humidity	56% RH
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	-7.12	0.2	-6.92	8	Pass
Middle	-6.20	0.2	-6.00	8	Pass
High	-6.74	0.2	-6.54	8	Pass

Note: The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss}$$

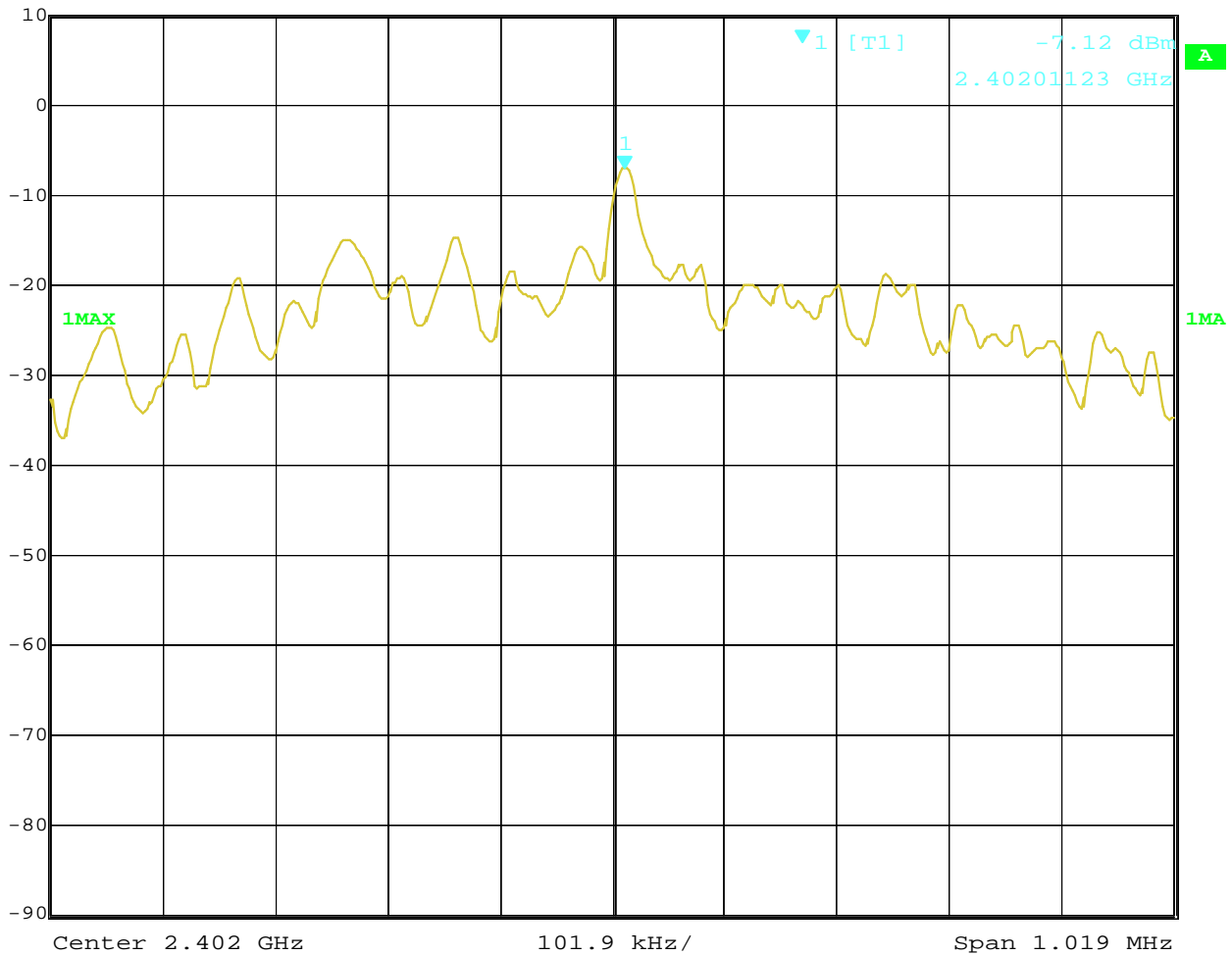
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Test Figure:

1. Condition: Low Channel

	Ref Lvl	10 dBm	Marker 1 [T1]	2.40201123 GHz	RBW	10 kHz	RF Att	20 dB
					VBW	30 kHz		
					SWT	26 ms	Unit	dBm



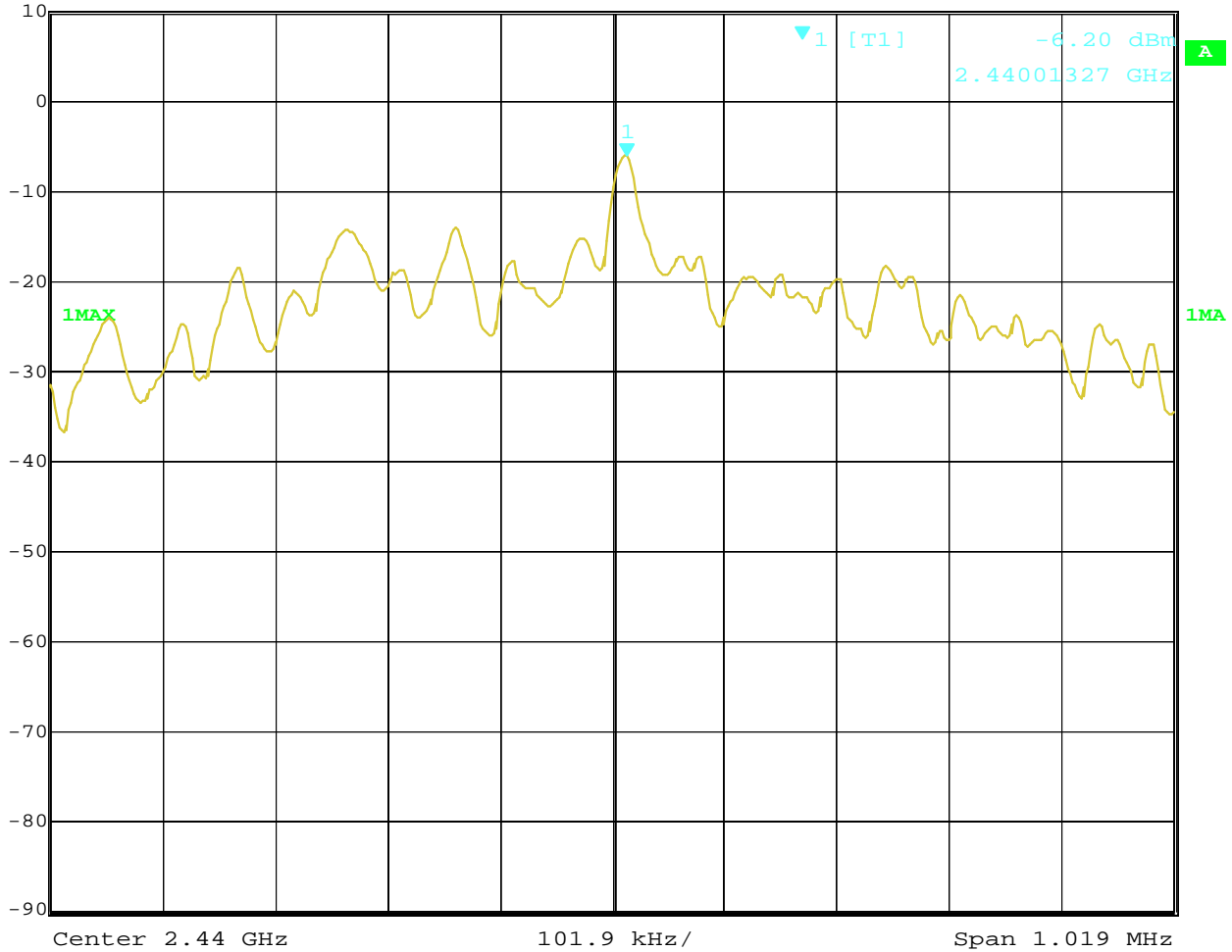
Date: 4.JAN.2021 09:57:02

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2. Condition: Middle Channel

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-6.20 dBm	VBW	30 kHz	
	10 dBm	2.44001327 GHz	SWT	26 ms	Unit dBm



Date: 4.JAN.2021 09:56:33

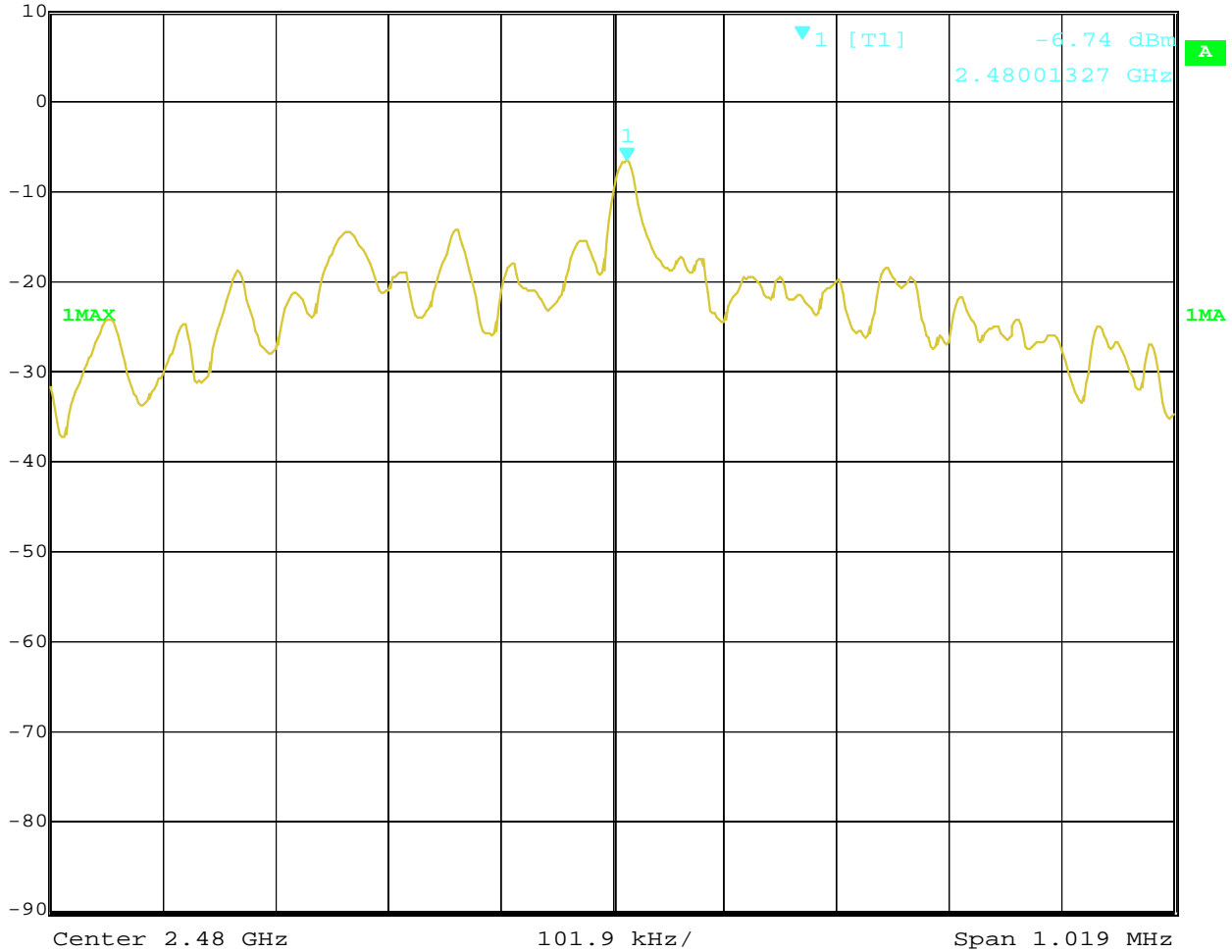
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3. High Channel



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
10 dBm	-6.74 dBm	VBW	30 kHz		
	2.48001327 GHz	SWT	26 ms	Unit	dBm



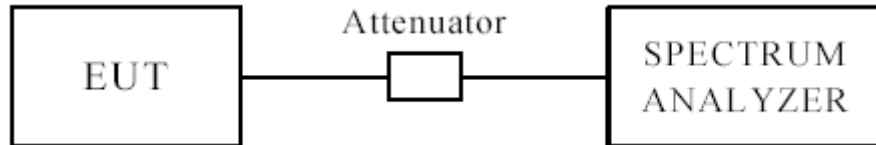
Date: 4.JAN.2021 09:56:13

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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

2. This is a handheld device. The restricted band test should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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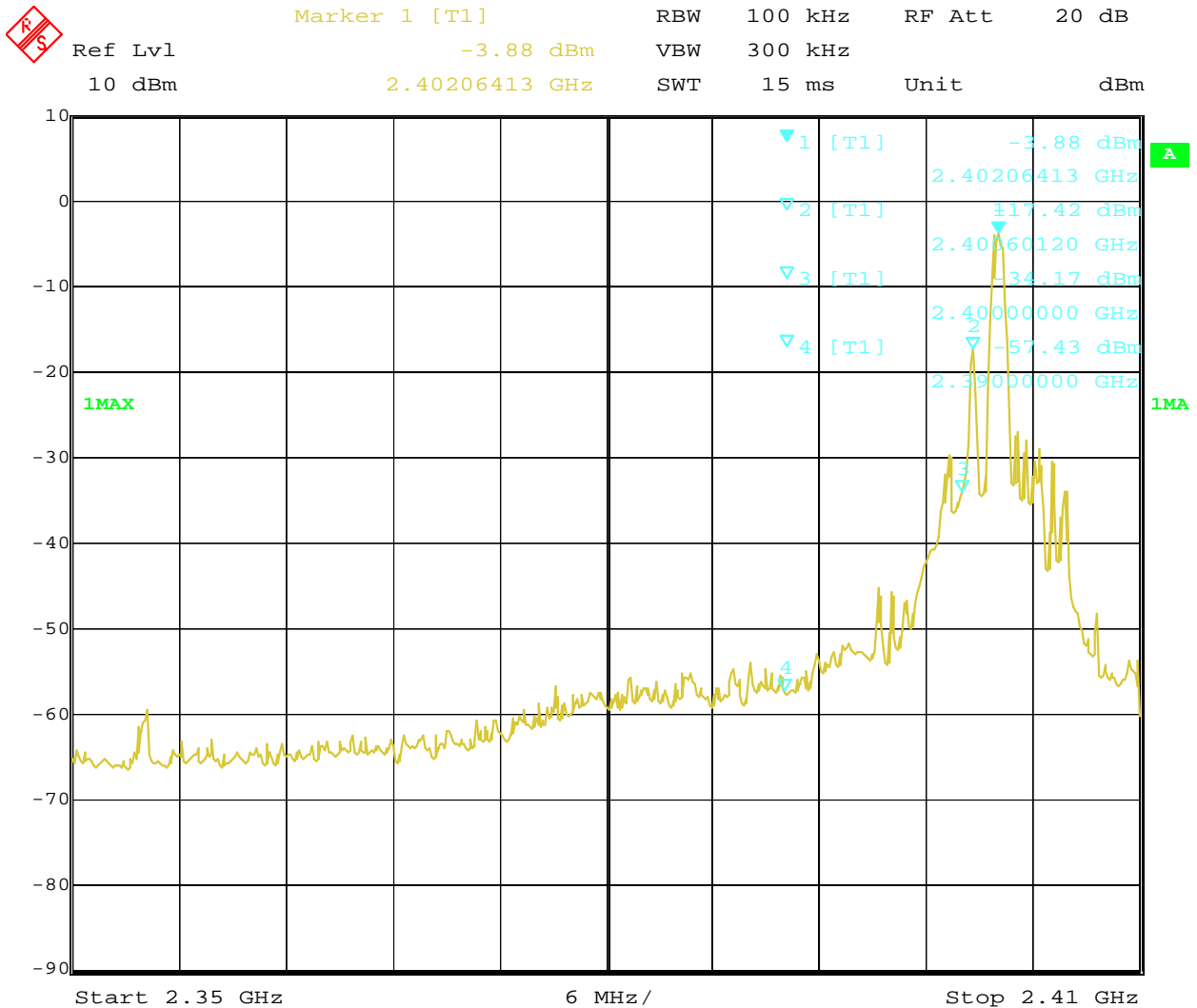
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10.4 Band-edge Measurement

EUT	Smart watch	Model	i8
Mode	Keep Transmitting	Test Voltage	DC3.6V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 4.JAN.2021 09:58:37

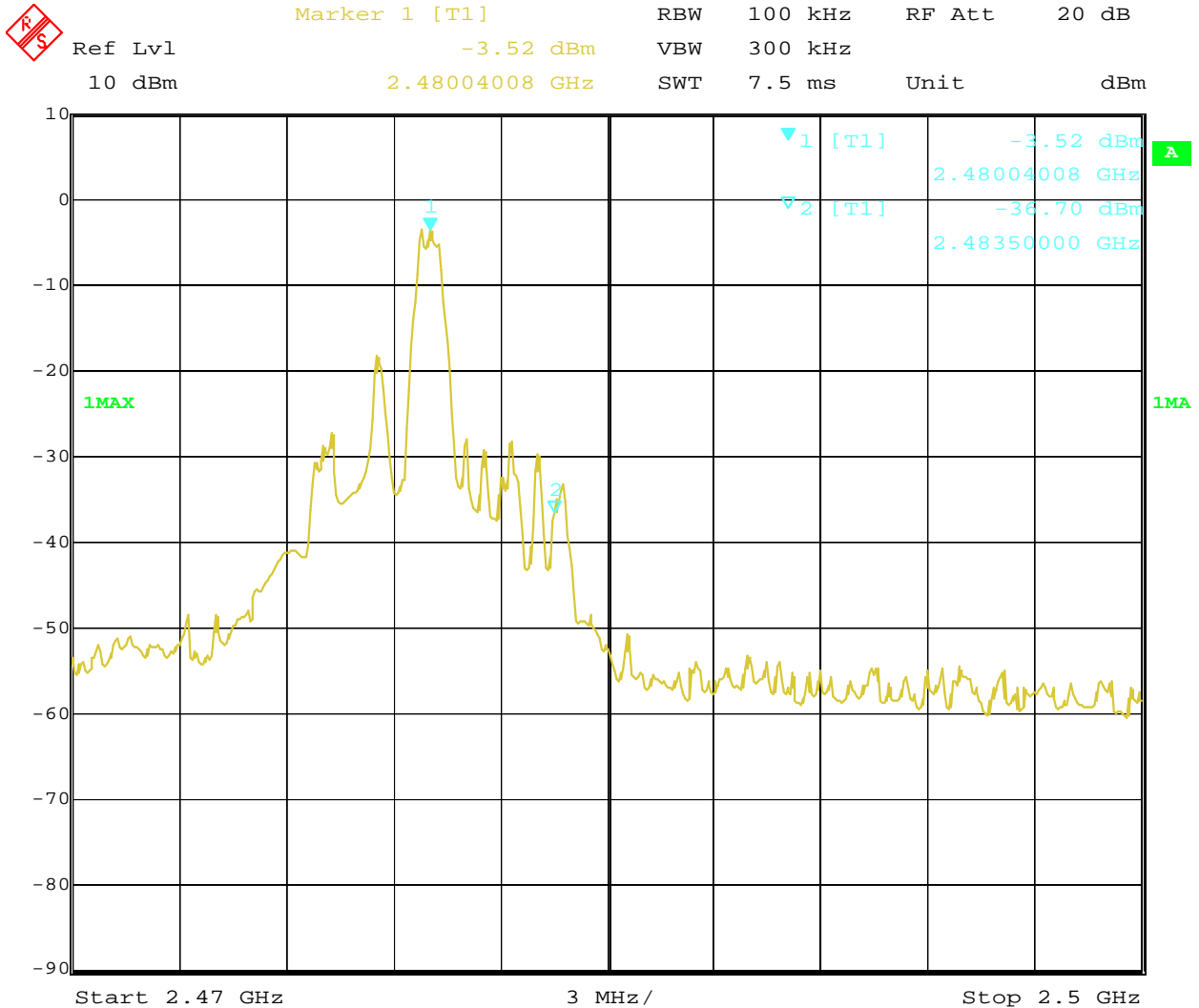
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10.4 Band-edge Measurement

EUT	Smart watch	Model	i8
Mode	Keeping Transmitting	Test Voltage	DC3.6V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



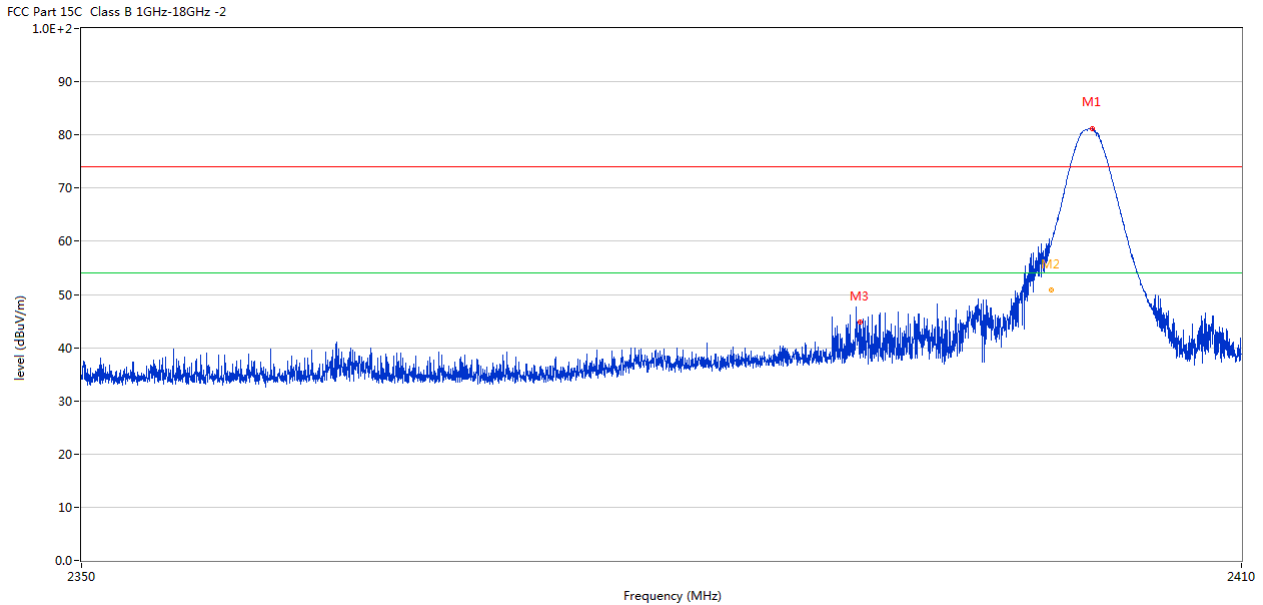
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10.4 Restrict Band Measurement

EUT	Smart watch	Model	i8
Mode	Keep Transmitting	Test Voltage	DC3.6V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



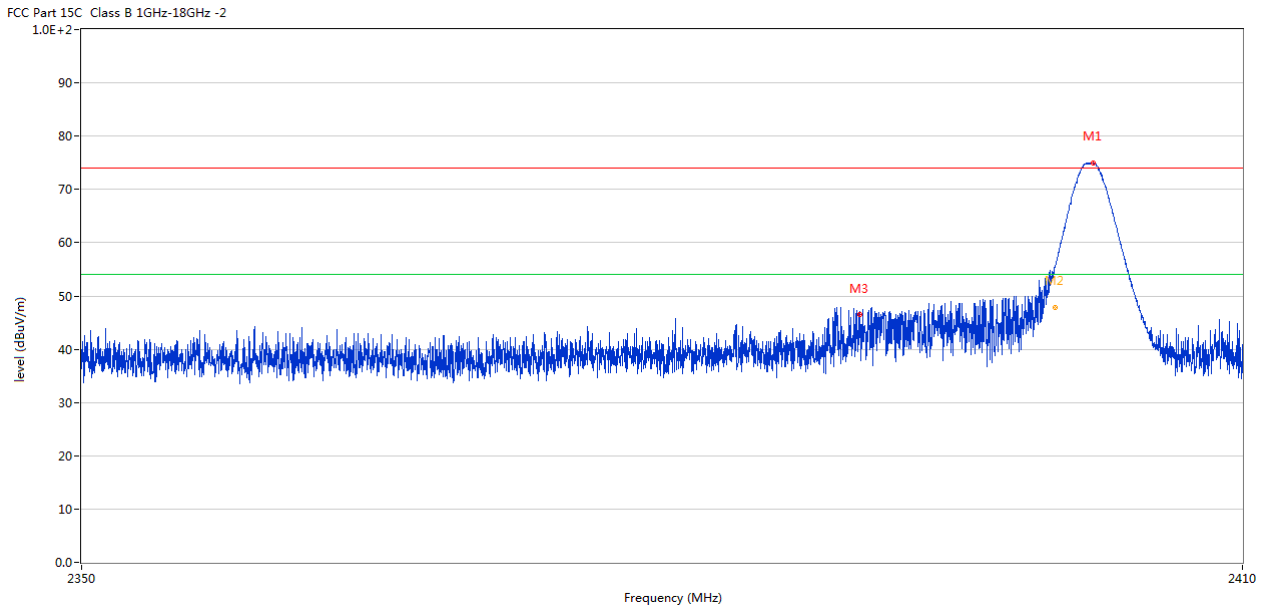
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.200	81.21	-3.57	74.0	7.21	Peak	279.00	100	Horizontal	N/A
2	2400.085	59.92	-3.57	74.0	-14.08	Peak	276.00	100	Horizontal	Pass
2**	2400.085	50.80	-3.57	54.0	-3.20	AV	276.00	100	Horizontal	Pass
3	2390.095	44.75	-3.53	74.0	-29.25	Peak	149.00	100	Horizontal	Pass

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10.4 Restrict Band Measurement

EUT	Smart watch	Model	i8
Mode	Keep Transmitting	Test Voltage	DC3.6V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



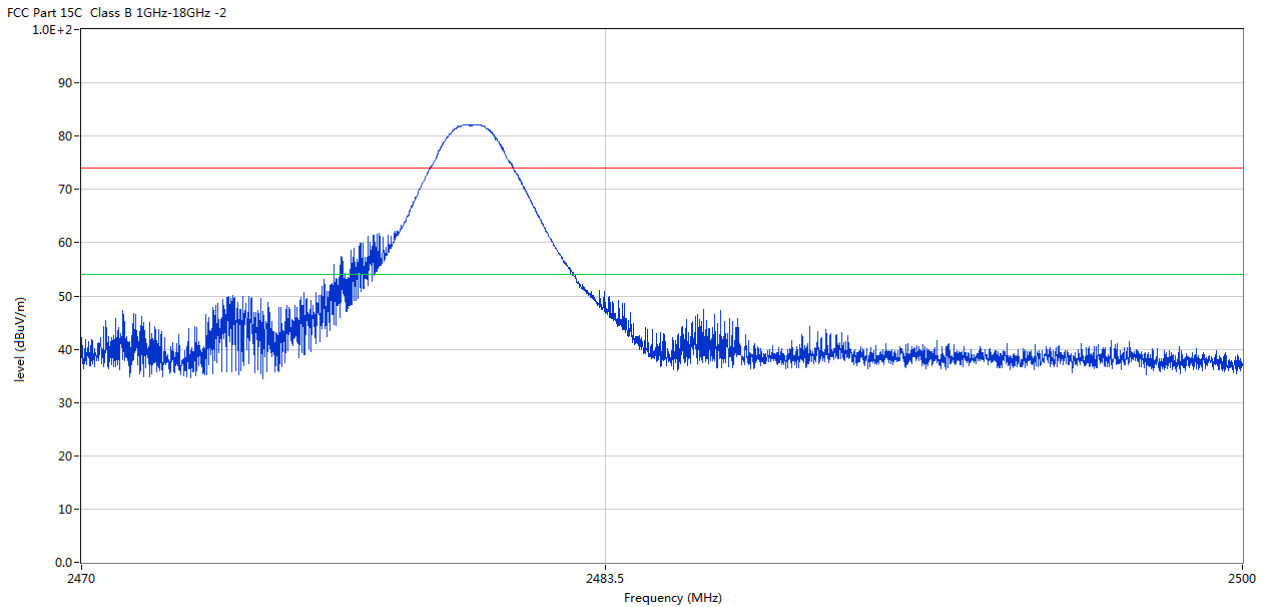
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.185	74.95	-3.57	74.0	0.95	Peak	151.00	100	Vertical	N/A
2	2400.220	55.73	-3.57	74.0	-18.27	Peak	151.00	100	Vertical	Pass
2**	2400.220	47.77	-3.57	54.0	-6.23	AV	151.00	100	Vertical	Pass
3	2390.080	46.51	-3.53	74.0	-27.49	Peak	18.00	100	Vertical	Pass

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10.4 Restrict Band Measurement

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Mode	Keep Transmitting	Test Voltage	DC3.6V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



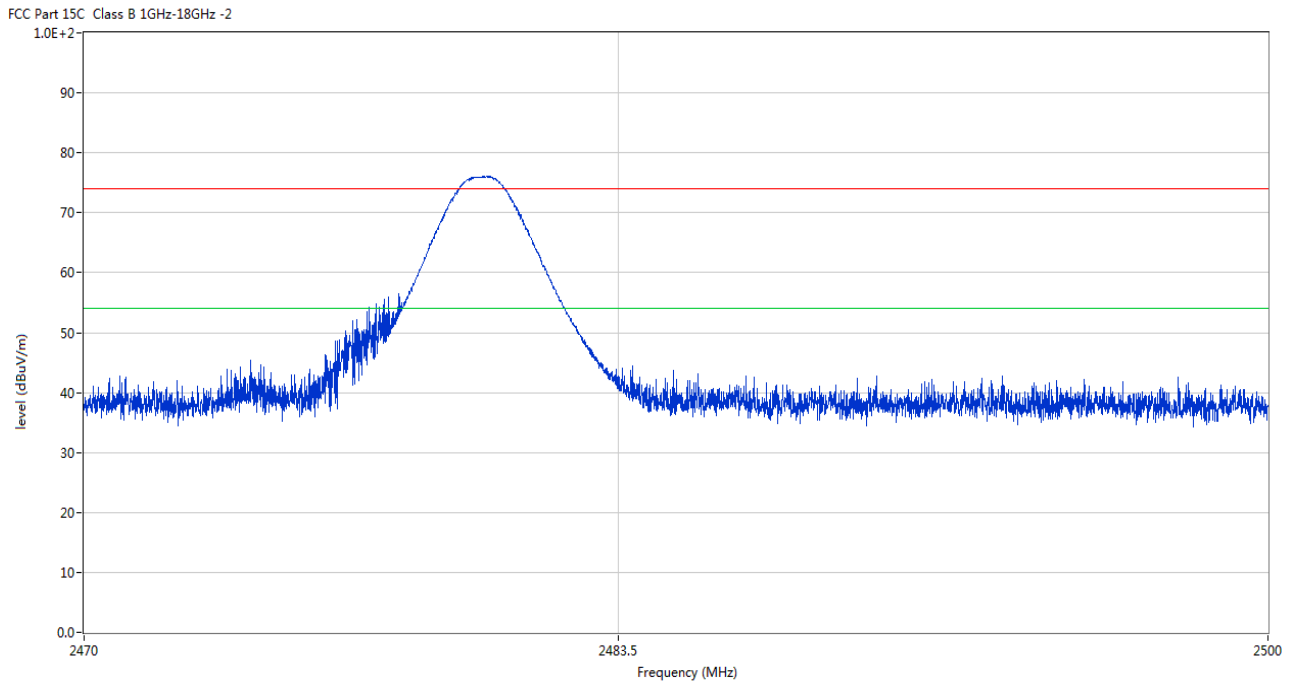
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.185	82.19	-3.57	74.0	8.19	Peak	276.00	100	Horizontal	N/A
2	2483.590	49.94	-3.57	74.0	-24.06	Peak	273.00	100	Horizontal	Pass

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10.4 Restrict Band Measurement

EUT	Smart watch	Model	i8
Mode	Keep Transmitting	Test Voltage	DC3.6V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.155	76.07	-3.57	74.0	2.07	Peak	163.00	100	Vertical	N/A
2	2483.867	44.38	-3.57	74.0	-29.62	Peak	96.00	100	Vertical	Pass

Note: The peak value less than the AV limit, no necessary to take down the AV measurement result.

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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Integral antennas used. The gain of the antennas is 0dBi. (Declared by the applicant)

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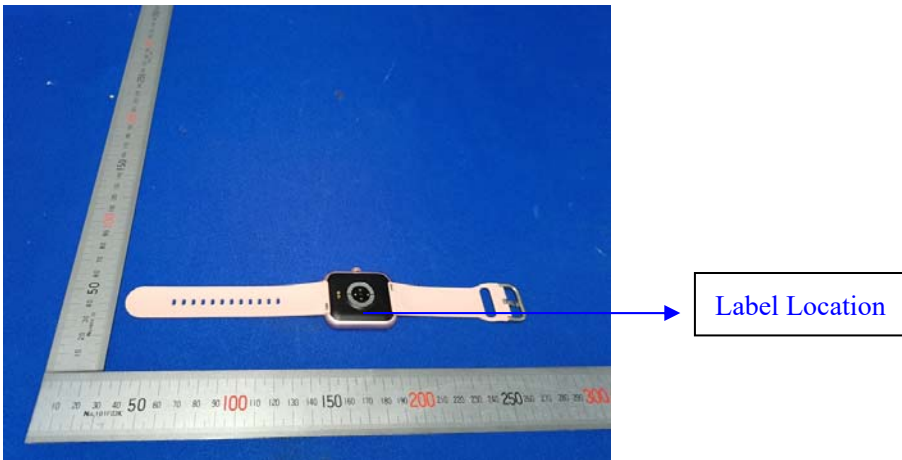


12.0 FCC ID Label

FCC ID: 2AYMC-I8

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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13.0 Photo of testing

Conducted Emission Test Setup:



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Radiated Emission Test Setup:



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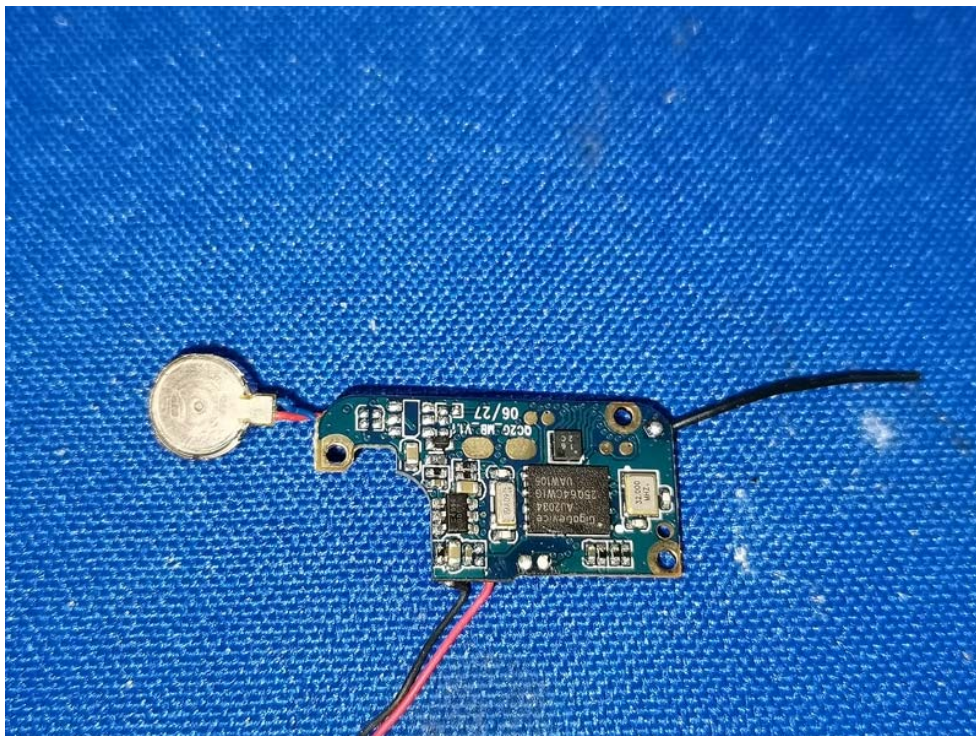
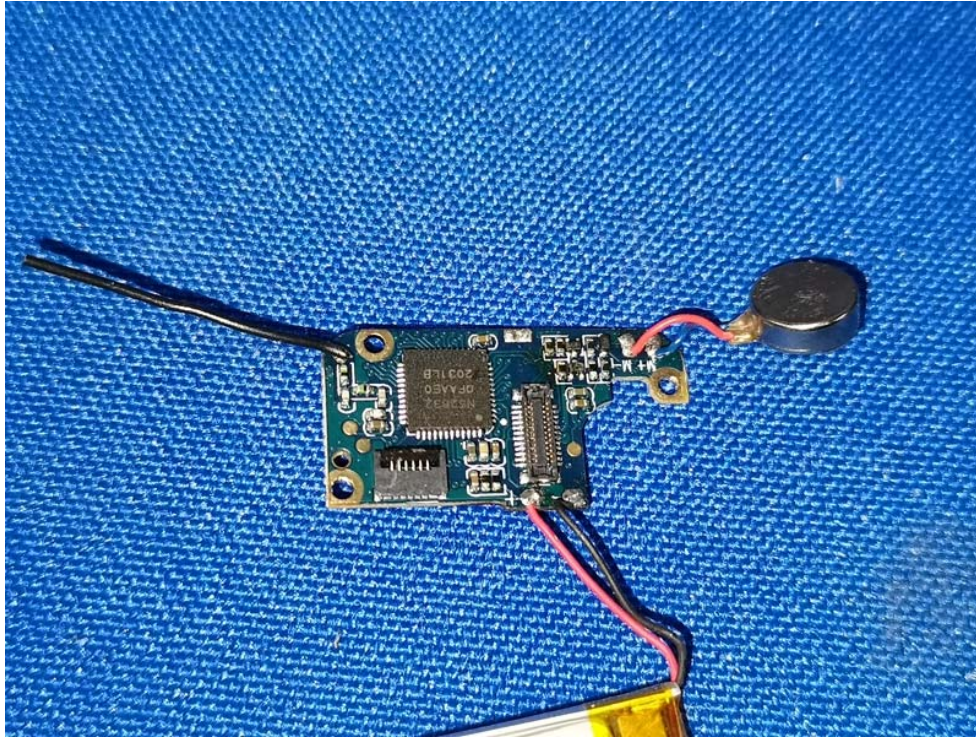
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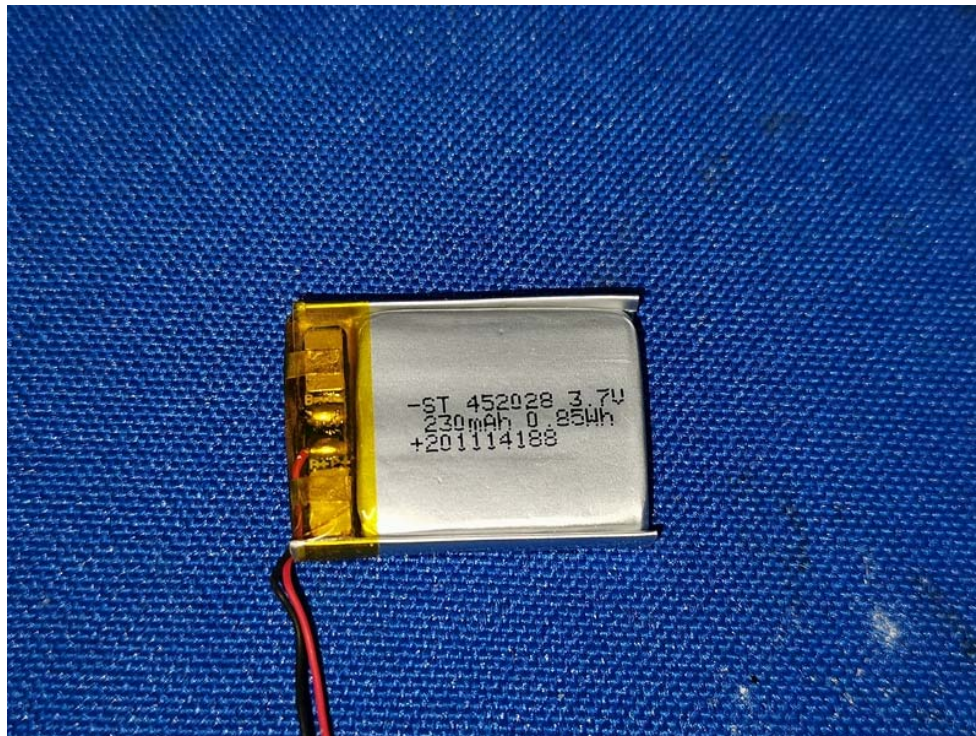
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--End of the report--

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