

**TCB****GRANT OF EQUIPMENT  
AUTHORIZATION****TCB**

**Certification**  
**Issued Under the Authority of the**  
**Federal Communications Commission**  
**By:**

**MiCOM Labs**  
**575 Boulder Court**  
**Pleasanton, CA 94566**

**Date of Grant: 03/14/2022**

**Application Dated: 03/14/2022**

**Guangdong Welland Technology Co., Ltd.**  
**No.85 MinKe East Road, MinYing Science**  
**and Technology Park, ShiQi District,**  
**Zhongshan, 528400**  
**China**

**Attention: Hillary Chan , Sales Manager**

**NOT TRANSFERABLE**

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is  
VALID ONLY for the equipment identified hereon for use under the Commission's  
Rules and Regulations listed below.

**FCC IDENTIFIER:** 2AP3Q-FI2019LB-B

**Name of Grantee:** Guangdong Welland Technology Co.,  
Ltd.

**Equipment Class:** Digital Transmission System  
**Notes:** Smart Body Fat Scale

**Grant Notes****FCC Rule Parts**

15C

**Frequency  
Range (MHZ)**

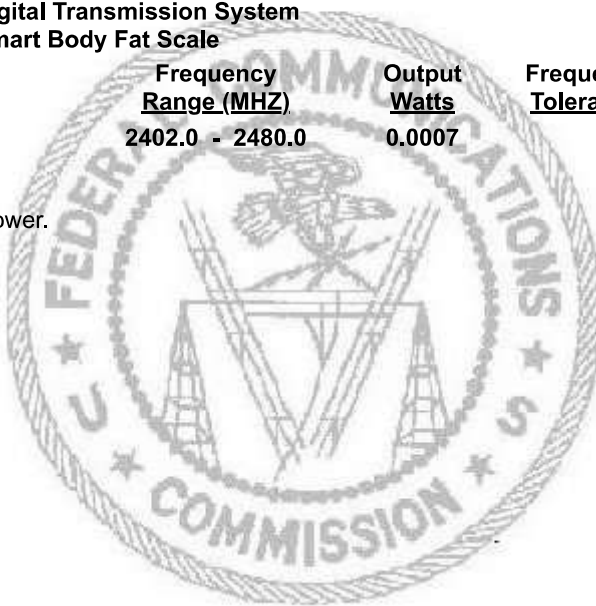
2402.0 - 2480.0

**Output  
Watts**

0.0007

**Frequency  
Tolerance****Emission  
Designator**

Power listed is the maximum conducted output power.



# RoHS 测试报告

## RoHS Test Report

报告编号 : AGC06164210702-003  
Report No.

样品名称 : 智能体脂秤 Smart Body Fat Scale  
SAMPLE NAME

样品型号 : 请参见后续页(Please refer to following page(s)).  
MODEL NAME

委托单位 : 广东沃莱科技有限公司  
APPLICANT : Guangdong Welland Technology Co., Ltd.

检测标准 : 请参见后续页(Please refer to following page(s)).  
STANDARD(S)

签发日期 : 2021/07/21  
DATE OF ISSUE

深圳市鑫宇环标准技术有限公司

*Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.*



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委托单位(Applicant) : 广东沃莱科技有限公司  
Guangdong Welland Technology Co., Ltd.  
单位地址(Address) : 中山市石岐区民科东路 85 号  
No.85 MinKe East Road, MinYing Science and Technology Park,  
ShiQi District,Zhongshan, Guangdong, China  
测试地址(Test Site) : 深圳市宝安区航城街道三围社区三围茶西工业区 2 栋 6 层  
6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei  
Community, Hangcheng Street, Bao'an District, Shenzhen,  
Guangdong, China

**样品信息(Report on the submitted sample(s) said to be):**

样品名称(Sample Name) : 智能体脂秤 Smart Body Fat Scale  
FG1914B(USB)(主测/Main test), FI1914B(USB),  
FI1914UB,FG1914UB, BB371,FB371,FG371U,  
型号(Model) : FG300UWB,FG2019ULB-A,FI2019ULB-A,  
FI2016UWB,FG2016URB,FI2016URB,  
FG2016UWB.FG370UWB,FG430URB,FI2015ULB  
收样日期(Sample Received Date) : 2021/07/06  
测试周期(Testing Period) : 2021/07/06-2021/07/16

**测试要求****Test Requested:**

根据客户要求, 依据UK RoHS指令《2012年电气和电子设备中使用某些有害物质的限制条例》(S.I.2012 No.3032)及其修订版规定, 通过XRF扫描和化学方法对送检样品中的铅、镉、汞、六价铬、多溴联苯、多溴二苯醚、DBP、BBP、DEHP、DIBP的含量进行测定。

As specified by client, to determine the Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with the provisions of UK RoHS Directive The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I.2012 No.3032) and its revised edition.

**结论  
Conclusion****合格  
Pass**Approved by: Jessie Liang

签发: 梁丹(Jessie.Liang)

技术总监(Technical Director)

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序号 No.	样品描述 Sample Description		
1.Smart body fat scale 型号 model FG1914 (USB)			
1	外壳 Outer shell	玻璃面壳	Glass shell
2		导电胶布	Conductive adhesive
3		黑色烤漆	Black lacquer
4		金属壳	Metal shell
5		金属片	Metal sheet
6		焊锡	Tin solder
7		热熔胶	Hot melt adhesive
8		红色线皮	Red wire jacket
9		黑色线皮	Black wire jacket
10		线芯	Wire core
11		白色塑料壳	White plastic shell
12		灰色橡胶脚垫	Gray rubber mats
13	银色螺丝	Silver screw	
14	显示屏 Display screen	红色橡胶条	Red rubber strip
15		偏光板	Polarizer
16		玻璃显示屏	Glass display
17		银色胶带	Silvery tape
18		上增光	Upper intensify
19		匀光板	Light guide plate
20		反光板	Reflector panel
21		黑色胶布	Black adhesive tape
22		PCB 板	PCB board
23		贴片 LED	Chip LED
24		焊锡	Tin solder
25		红色线皮	Red wire jacket
26		线芯	Wire core
27		黑色线皮	Black wire jacket
28	传感器 Sensor	金属片	Metal sheet
29		白胶	White glue
30		焊锡	Tin solder
31		白色线皮	White wire jacket
32		红色线皮	Red wire jacket
33		线芯	Wire core
34		黑色线皮	Black wire jacket
35		双面胶	Double faced adhesive tape
36	电路板 Circuit board	贴片电容	Chip capacitor
37		贴片电阻	Chip resistor
38		IC 本体	IC body
39		镀锡	Tin plating
40		PCB 板	PCB board
41		焊锡	Tin solder
42		黄色塑料开关	Yellow plastic switch

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序号 No.	样品描述 Sample Description			
43		开关 Switch	金属弹簧	Metal spring
44			金属壳	Metal shell
45			金属片	Metal sheet
46			环氧树脂板	Epoxy resin board
47		Micro 接头 Micro connector	Micro 金属接头	Micro metal connector
48			灰色塑料接头	Grey plastic joint
49			插针	Contact pin
50		电路板 Circuit board	黑色圆形 IC	Black round IC
51			绿色标签	Green label
52			贴片电容	Chip capacitor
53			贴片电阻	Chip resistor
54			贴片三极管	Chip triode
55			晶振	Crystal oscillator
56			IC 本体	IC body
57			镀锡	Tin plating
58			贴片晶振	Chip crystal oscillator
59			红色线皮	Red wire jacket
60			绿色线皮	Green wire jacket
61			黑色线皮	Black wire jacket
62			线芯	Wire core
63			PCB 板	PCB board
64			焊锡	Tin solder
65	电池 Battery		茶色胶带	Brown tape
66			IC 本体	IC body
67			镀锡	Tin plating
68			PCB 板	PCB board
69			焊锡	Tin solder
70			红色线皮	Red wire jacket
71			线芯	Wire core
72			黑色线皮	Black wire jacket

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**测试结果(Test Result):**

(测试方法/仪器/方法检出限及限值: 见附件)

(Test Method/ Instrument/ MDL and Limit: See Appendix)

序号 No.	测试结果 Test result (mg/kg)										结论 Conclusion
	Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
4	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
5	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
6	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
10	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
11	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
13	275	N.D.	N.D.	441	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
17	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
18	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
19	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
20	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
21	N.D.	N.D.	N.D.	N.D.*	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity

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序号 No.	测试结果 Test result (mg/kg)										结论 Conclusion
	Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	
22	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
23	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
24	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
25	N.D.	N.D.	N.D.	226	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
26	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
27	N.D.	N.D.	N.D.	N.D.*	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
28	N.D.	N.D.	N.D.	N.D.*	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
29	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
30	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
31	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
32	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
33	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
34	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
35	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
36	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
37	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
38	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
39	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
40	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
41	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
42	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
43	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
44	439	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity

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序号 No.	测试结果 Test result (mg/kg)										结论 Conclusion
	Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	
45	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
46	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
47	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
48	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
49	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
51	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
52	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
53	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
54	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
55	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
56	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
57	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
58	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
59	N.D.	N.D.	N.D.	331	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
61	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
62	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
63	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
64	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
65	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
66	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
67	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity

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序号 No.	测试结果 Test result (mg/kg)										结论 Conclusion
	Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	
68	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
69	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
70	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
71	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
72	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity

### 注释 Note:

mg/kg =毫克每千克 (milligram per kilogram)

μg/cm<sup>2</sup> =微克每平方厘米 (microgram per square centimeter)

N.D.= 未检出 (小于方法检出限) (Not Detected (less than method detection limit))

N/A=不适用 (Not applicable)

MDL =方法检出限 Method Detection Limit

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**备注 Remark:**

- \*表示报告结果采用湿化学法。其他的则由X射线荧光。对于X射线荧光筛选, Cr VI的结果报告为总铬, 而多溴联苯和多溴二苯醚报告为总溴。此外, XRF扫描结果可能基于各种因素与实际含量有所不同, 包括但不限于样品尺寸、厚度、面积、不均匀性成分, 表面平整度。

\*denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, nonuniformity composition, surface flatness.

- XRF 扫描报告仅供参考, 申请者必须自己确认本 XRF 扫描报告所提供的信息能满足/他/她的用途。

基于不同的因素, 本 XRF 扫描报告显示结果有所不同, 包括但不限于样品的尺寸、厚度、面积、表面光滑度、设备参数和基体效应(例如塑胶、橡胶、金属、玻璃、陶瓷等等)。为获得数据资料, 要求有相关化学分析设备作进一步湿化学预处理。

This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

- Boiling-water-extraction 沸水提取: (X represents the results of the tested sample / X 为待测样品结果)

Number 序号	Colorimetric result (Cr(VI) concentration) 比色结果(铬(VI)浓度)	Judgement 判定
1	$X < 0.1 \mu\text{g}/\text{cm}^2$	Negative 阴性
2	$0.1 \mu\text{g}/\text{cm}^2 \leq X \leq 0.13 \mu\text{g}/\text{cm}^2$	Uncertainty 不确定
3	$X > 0.13 \mu\text{g}/\text{cm}^2$	Positive 阳性

- Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating. 阴性表明测试区域内六价铬含量低于定量极限, 认定镀层不存在六价铬;

Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination. 不确定表明测试区域镀层六价铬的不可避免的变化影响结果判定, 导致无法判定结果;

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI). 阳性表明测试区域内六价铬含量高于定量极限, 认定镀层含有六价铬;

Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing. 由于未获知样品的存储条件和生产日期、样品的六价铬测试结果仅代表测试时样品的状态。



## 附件 Appendix:

测试项目 Test Item	测试方法/仪器 Test Method/ Instrument	方法检出限 MDL	最大限值 Maximum Limit
X 射线荧光光谱法 X-ray Fluorescence Spectrometry (XRF)			
铅 Lead (Pb)	IEC 62321-3-1:2013 / XRF	200mg/kg	1000mg/kg
镉 Cadmium (Cd)		50mg/kg	100mg/kg
汞 Mercury (Hg)		200mg/kg	1000mg/kg
总铬 Total Chromium		200mg/kg	/
总溴 Total Bromine		200mg/kg	/
湿化学法 Wet Chemistry Method			
铅 Lead (Pb)	IEC 62321-5:2013/ ICP-OES	10mg/kg	1000mg/kg
镉 Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	10mg/kg	100mg/kg
汞 Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	10mg/kg	1000mg/kg
非金属：六价铬 (Cr <sup>6+</sup> ) Non-metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	1000mg/kg
金属：六价铬 (Cr <sup>6+</sup> ) Metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-1:2015/ UV-Vis	0.1µg/cm <sup>2</sup>	/
多溴联苯(PBBs) Polybrominated Biphenyls (PBBs) - 一溴联苯(MonoBB) -Monobromobiphenyl (MonoBB) - 二溴联苯(DiBB) -Dibromobiphenyl (DiBB) - 三溴联苯(TriBB) -Tribromobiphenyl (TriBB) - 四溴联苯(TetraBB) -Tetrabromobiphenyl (TetraBB) - 五溴联苯(PentaBB) -Pentabromobiphenyl (PentaBB) - 六溴联苯(HexaBB) -Hexabromobiphenyl (HexaBB) - 七溴联苯(HeptaBB) -Heptabromobiphenyl (HeptaBB) - 八溴联苯(OctaBB) -Octabromobiphenyl (OctaBB) - 九溴联苯(NonaBB) -Nonabromodiphenyl (NonaBB) - 十溴联苯(DecaBB) -Decabromodiphenyl (DecaBB)	IEC 62321-6:2015/ GC-MS	单项 Single 5mg/kg	总和 Sum 1000mg/kg

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测试项目 Test Item	测试方法/仪器 Test Method/ Instrument	方法检出限 MDL	最大限值 Maximum Limit
多溴二苯醚 (PBDEs) Polybrominated Diphenylethers (PBDEs) - 一溴二苯醚(MonoBDE) -Monobromodiphenyl ether (MonoBDE) - 二溴二苯醚(DiBDE) -Dibromodiphenyl ether (DiBDE) - 三溴二苯醚(TriBDE) -Tribromodiphenyl ether (TriBDE) - 四溴二苯醚(TetraBDE) -Tetrabromodiphenyl ether (TetraBDE) - 五溴二苯醚(PentaBDE) -Pentabromodiphenyl ether (PentaBDE) - 六溴二苯醚(HexaBDE) -Hexabromodiphenyl ether (HexaBDE) - 七溴二苯醚(HeptaBDE) -Heptabromodiphenyl ether (HeptaBDE) - 八溴二苯醚(OctaBDE) -Octabromodiphenyl ether (OctaBDE) - 九溴二苯醚(NonaBDE) -Nonabromodiphenyl ether (NonaBDE) - 十溴二苯醚(DecaBDE) -Decabromodiphenyl ether (DecaBDE)	IEC 62321-6:2015/ GC-MS	单项 Single 5mg/kg	总和 Sum 1000mg/kg
邻苯二甲酸二异丁酯(DIBP) Di-iso-butyl phthalate (DIBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	1000mg/kg
邻苯二甲酸二正丁酯(DBP) Dibutyl phthalate (DBP)		50mg/kg	1000mg/kg
邻苯二甲酸丁苄酯(BBP) Butylbenzyl phthalate (BBP)		50mg/kg	1000mg/kg
邻苯二甲酸二(2-乙基己基)酯(DEHP) Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	1000mg/kg

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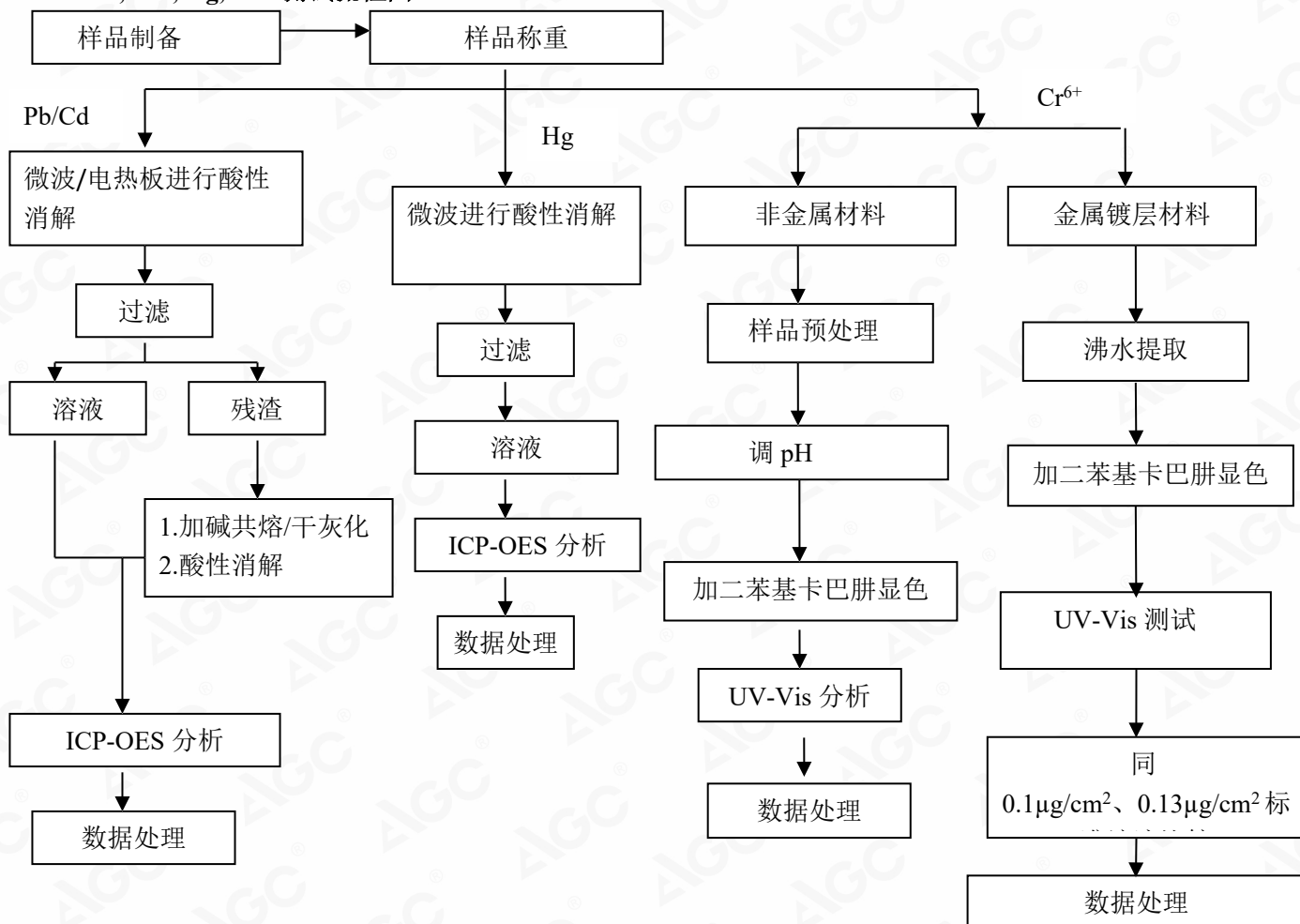
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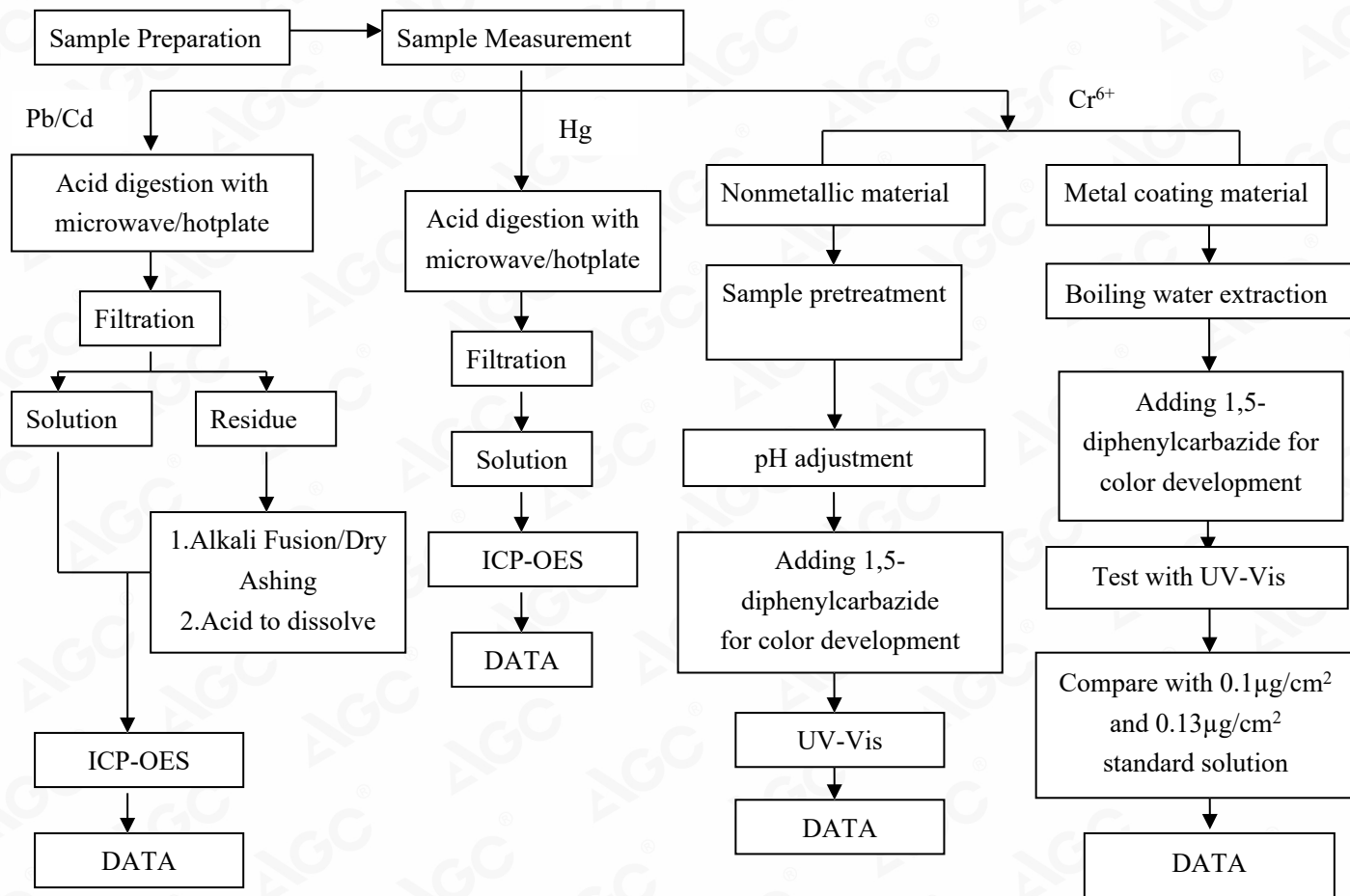


## 测试流程图(Test Flow Chart)

1. Pb, Cd, Hg, Cr<sup>6+</sup>测试流程图

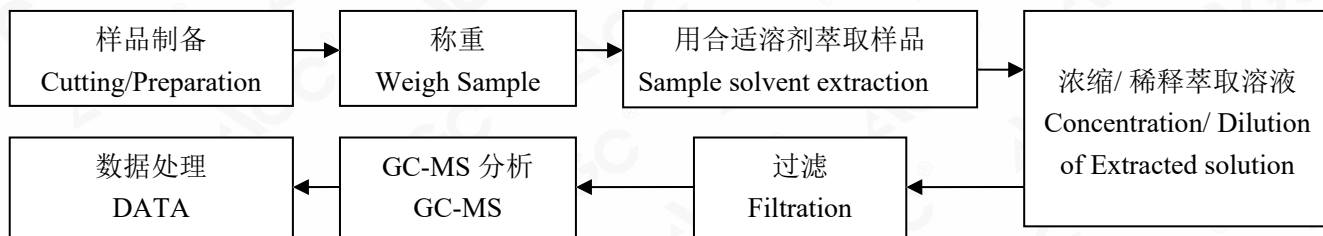
根据以上的流程图之条件，样品已经完全溶解（六价铬测试方法除外）。

### 1.For Pb , Cd , Hg, Cr<sup>6+</sup>



These sample were dissolved totally by pre-conditioning method according to above flow chart (Cr<sup>6+</sup> test method excluded)

### 2. PBBs, PBDEs, DBP, BBP, DEHP 和DIBP的测试流程图(The Test Flow Chart of PBBs, PBDEs, DBP, BBP, DEHP and DIBP)



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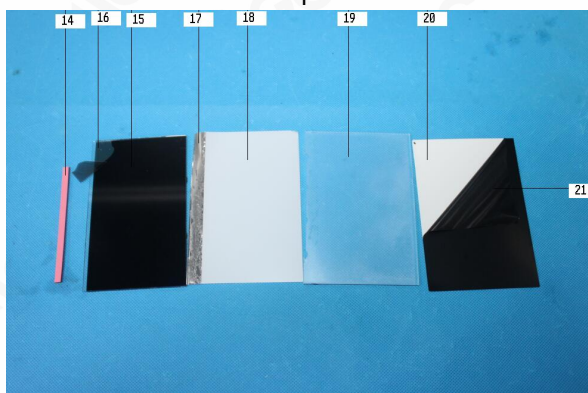
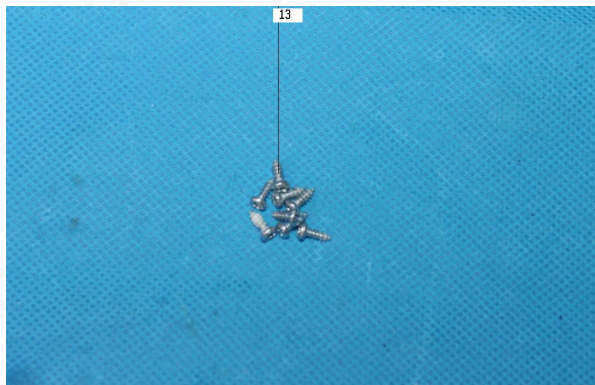
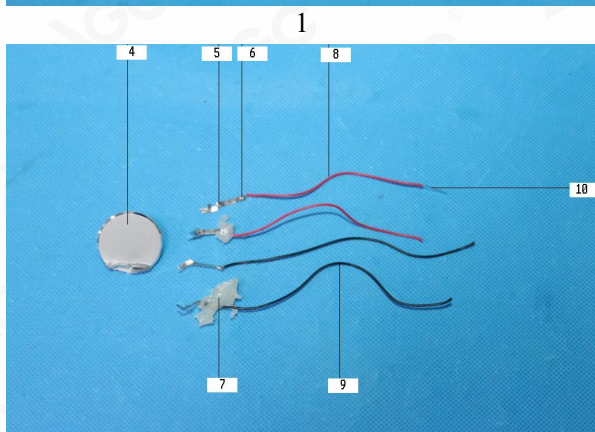
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# 样品附图(The photo of the sample)



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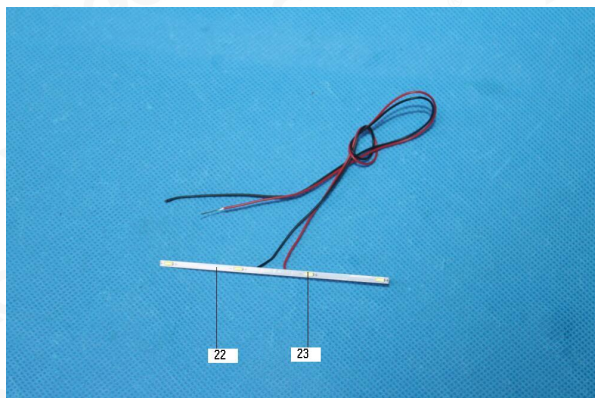
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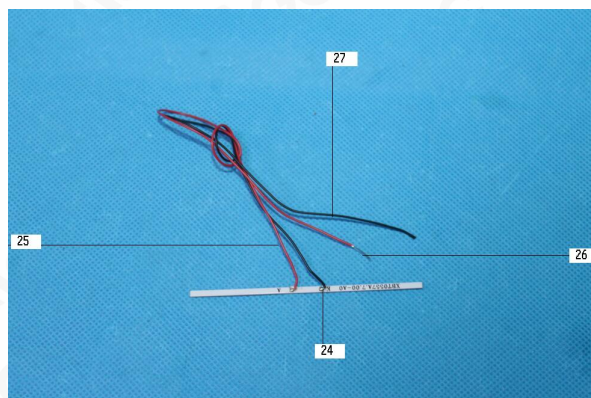
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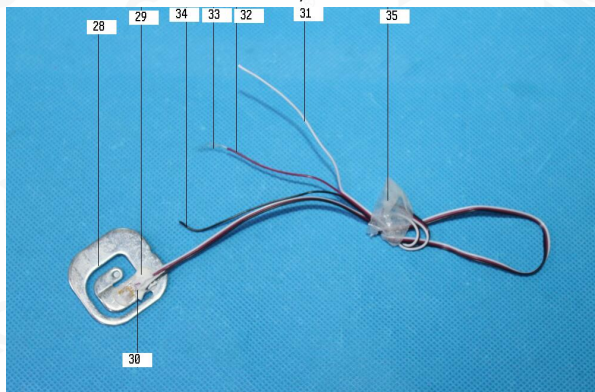




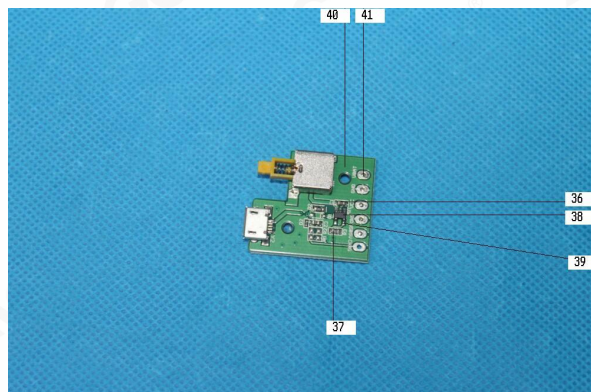
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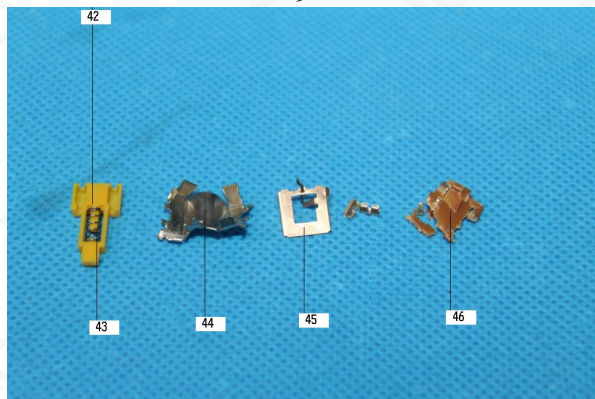
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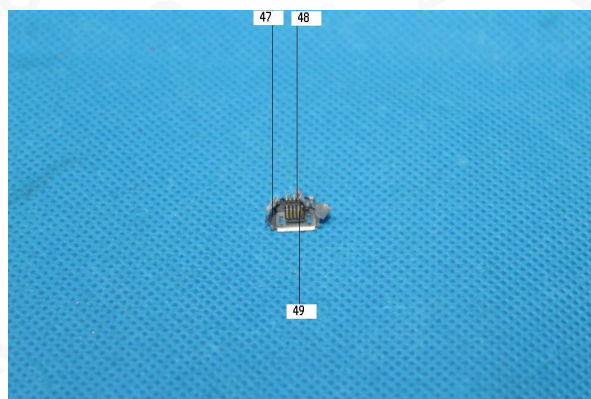
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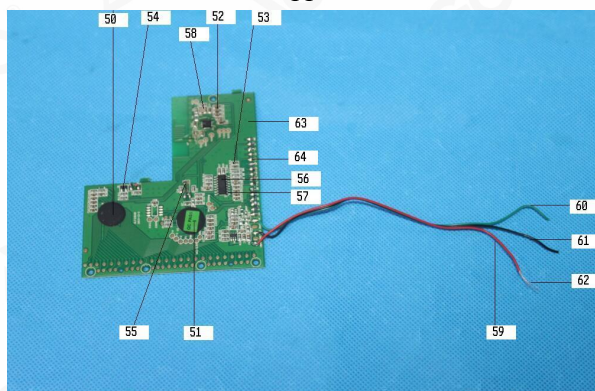
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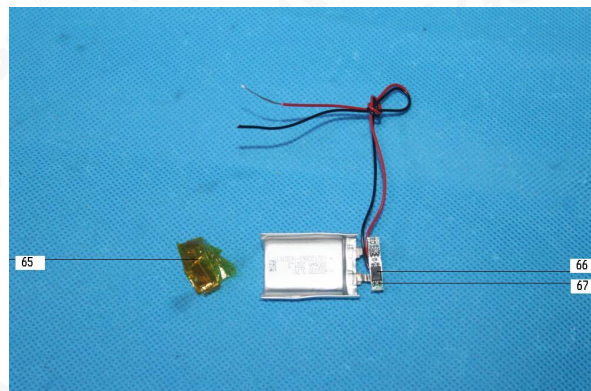
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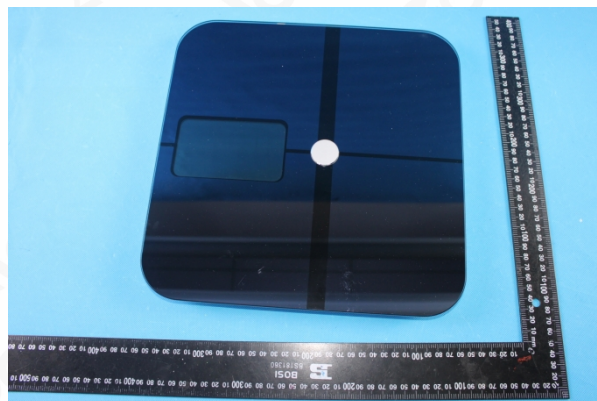
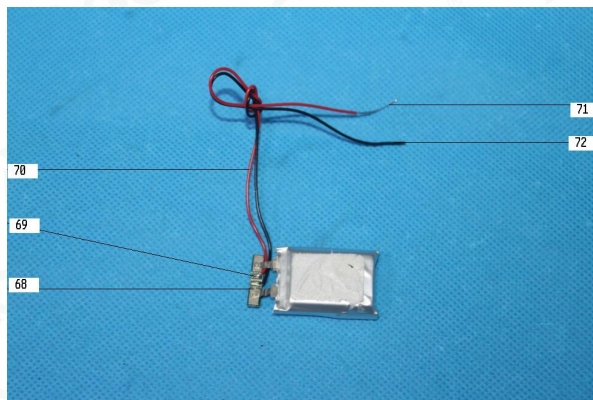
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\*\*\*报告结束\*\*\*

\*\*\* End of Report \*\*\*

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## 签发测试报告条款 Conditions of Issuance of Test Reports

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2. 由此测试申请所发出的任何报告(以下简称[报告]), 本公司会严格为客户保密。未经本公司的书面同意, 报告的整体或部分不得复制, 也不得用于广告或授权的其他用途。然而, 客户可以将本公司印制的报告或认可的副本, 向其客户、供货商或直接相关的其他人出示或提交。除非相关政府部门、法律或法规要求, 否则未经客户同意, 本公司不得将报告内容向任何第三方讨论或披露。Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. 除非相关政府部门、法律或法院要求, 否则未经公司预先书面同意, 本公司毋需也无义务到法院对有关报告作证。The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. 无 CMA 标志的报告, 仅供使用方内部参考, 不具有对社会的证明作用。The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. 如果本公司确定报告被不当地使用, 本公司保留撤回报告的权利, 并有权要求其它适当的额外赔偿。In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. 本公司接受样品进行测试的前提是, 该测试报告不能作为针对本公司法律行动的依据。Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. 如因使用本公司任何报告内的资料, 或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害, 本公司概不负责。The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. 若需要在法院审理程序或仲裁过程中使用测试报告, 客户必须在提交测试样品前将该意图告知本公司。Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

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9. 电子版报告更改后将不被追回，客户有义务将更改后的报告提供给使用原报告的相关方。The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

10. 该测试报告的支持数据和信息本公司保存 6 年。个别评审机构有特别要求的，检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限，数据和信息将被处理掉。任何情况下，本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害，本公司在任何情况下也不必承担任何损害，包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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# RoHS 测试报告

## RoHS Test Report

报告编号 : AGC06164210702-001  
Report No.

样品名称 : 智能体脂秤 Smart Body Fat Scale  
SAMPLE NAME

样品型号 : 请参见后续页(Please refer to following page(s)).  
MODEL NAME

委托单位 : 广东沃莱科技有限公司  
APPLICANT : Guangdong Welland Technology Co., Ltd.

检测标准 : 请参见后续页(Please refer to following page(s)).  
STANDARD(S)

签发日期 : 2021/07/21  
DATE OF ISSUE

深圳市鑫宇环标准技术有限公司

*Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.*



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委托单位(Applicant) : 广东沃莱科技有限公司  
Guangdong Welland Technology Co., Ltd.  
单位地址(Address) : 中山市石岐区民科东路 85 号  
No.85 MinKe East Road, MinYing Science and Technology Park,  
ShiQi District,Zhongshan, Guangdong, China  
测试地址(Test Site) : 深圳市宝安区航城街道三围社区三围茶西工业区 2 栋 6 层  
6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei  
Community, Hangcheng Street, Bao'an District, Shenzhen,  
Guangdong, China

**样品信息(Report on the submitted sample(s) said to be):**

样品名称(Sample Name) : 智能体脂秤 Smart Body Fat Scale  
FG1914B(USB)(主测/Main test), FI1914B(USB),  
FI1914UB,FG1914UB, BB371,FB371,FG371U,  
型号(Model) : FG300UWB,FG2019ULB-A,FI2019ULB-A,  
FI2016UWB,FG2016URB,FI2016URB,  
FG2016UWB.FG370UWB,FG430URB,FI2015ULB  
收样日期(Sample Received Date) : 2021/07/06  
测试周期(Testing Period) : 2021/07/06-2021/07/16

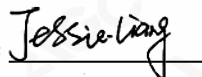
**测试要求****Test Requested:**

根据客户要求, 依据欧盟议会和欧盟理事会第2011/65/EU(RoHS)号指令及修正案(EU) 2015/863的要求, 通过XRF扫描和化学方法对送检样品中的铅、镉、汞、六价铬、多溴联苯、多溴二苯醚、DBP、BBP、DEHP、DIBP的含量进行测定。

As specified by client, to determine the Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 on XRF and Chemical Method.

**结论**  
**Conclusion**

**合格**  
**Pass**

Approved by: 

签发: 梁丹(Jessie.Liang)

技术总监(Technical Director)

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序号 No.	样品描述 Sample Description		
1.Smart body fat scale 型号 model FG1914 (USB)			
1	外壳 Outer shell	玻璃面壳	Glass shell
2		导电胶布	Conductive adhesive
3		黑色烤漆	Black lacquer
4		金属壳	Metal shell
5		金属片	Metal sheet
6		焊锡	Tin solder
7		热熔胶	Hot melt adhesive
8		红色线皮	Red wire jacket
9		黑色线皮	Black wire jacket
10		线芯	Wire core
11		白色塑料壳	White plastic shell
12		灰色橡胶脚垫	Gray rubber mats
13	银色螺丝	Silver screw	
14	显示屏 Display screen	红色橡胶条	Red rubber strip
15		偏光板	Polarizer
16		玻璃显示屏	Glass display
17		银色胶带	Silvery tape
18		上增光	Upper intensify
19		匀光板	Light guide plate
20		反光板	Reflector panel
21		黑色胶布	Black adhesive tape
22		PCB 板	PCB board
23		贴片 LED	Chip LED
24		焊锡	Tin solder
25		红色线皮	Red wire jacket
26		线芯	Wire core
27		黑色线皮	Black wire jacket
28	传感器 Sensor	金属片	Metal sheet
29		白胶	White glue
30		焊锡	Tin solder
31		白色线皮	White wire jacket
32		红色线皮	Red wire jacket
33		线芯	Wire core
34		黑色线皮	Black wire jacket
35		双面胶	Double faced adhesive tape
36	电路板 Circuit board	贴片电容	Chip capacitor
37		贴片电阻	Chip resistor
38		IC 本体	IC body
39		镀锡	Tin plating
40		PCB 板	PCB board
41		焊锡	Tin solder
42		黄色塑料开关	Yellow plastic switch

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序号 No.	样品描述 Sample Description			
43		开关 Switch	金属弹簧	Metal spring
44			金属壳	Metal shell
45			金属片	Metal sheet
46			环氧树脂板	Epoxy resin board
47		Micro 接头 Micro connector	Micro 金属接头	Micro metal connector
48			灰色塑料接头	Grey plastic joint
49			插针	Contact pin
50		电路板 Circuit board	黑色圆形 IC	Black round IC
51			绿色标签	Green label
52			贴片电容	Chip capacitor
53			贴片电阻	Chip resistor
54			贴片三极管	Chip triode
55			晶振	Crystal oscillator
56			IC 本体	IC body
57			镀锡	Tin plating
58			贴片晶振	Chip crystal oscillator
59			红色线皮	Red wire jacket
60			绿色线皮	Green wire jacket
61			黑色线皮	Black wire jacket
62			线芯	Wire core
63			PCB 板	PCB board
64			焊锡	Tin solder
65	电池 Battery		茶色胶带	Brown tape
66			IC 本体	IC body
67			镀锡	Tin plating
68			PCB 板	PCB board
69			焊锡	Tin solder
70			红色线皮	Red wire jacket
71			线芯	Wire core
72			黑色线皮	Black wire jacket

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**测试结果(Test Result):**

(测试方法/仪器/方法检出限及限值: 见附件)

(Test Method/ Instrument/ MDL and Limit: See Appendix)

序号 No.	测试结果 Test result (mg/kg)										结论 Conclusion
	Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
4	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
5	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
6	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
10	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
11	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
13	275	N.D.	N.D.	441	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
17	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
18	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
19	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
20	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
21	N.D.	N.D.	N.D.	N.D.*	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity

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序号 No.	测试结果 Test result (mg/kg)										结论 Conclusion
	Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	
22	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
23	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
24	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
25	N.D.	N.D.	N.D.	226	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
26	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
27	N.D.	N.D.	N.D.	N.D.*	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
28	N.D.	N.D.	N.D.	N.D.*	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
29	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
30	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
31	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
32	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
33	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
34	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
35	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
36	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
37	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
38	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
39	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
40	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
41	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
42	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
43	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
44	439	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity

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序号 No.	测试结果 Test result (mg/kg)										结论 Conclusion
	Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	
45	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
46	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
47	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
48	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
49	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
51	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
52	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
53	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
54	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
55	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
56	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
57	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
58	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
59	N.D.	N.D.	N.D.	331	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
61	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
62	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
63	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
64	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
65	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
66	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
67	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity

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序号 No.	测试结果 Test result (mg/kg)										结论 Conclusion
	Pb	Cd	Hg	Cr <sup>6+</sup>	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	
68	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
69	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
70	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity
71	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	符合 Conformity
72	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	符合 Conformity

**注释 Note:**

mg/kg =毫克每千克 (milligram per kilogram)

 $\mu\text{g}/\text{cm}^2$  =微克每平方厘米 (microgram per square centimeter)

N.D.= 未检出 (小于方法检出限) (Not Detected (less than method detection limit))

N/A=不适用 (Not applicable)

MDL =方法检出限 Method Detection Limit

**备注 Remark:**

- \*表示报告结果采用湿化学法。其他的则由X射线荧光。对于X射线荧光筛选, Cr VI的结果报告为总铬, 而多溴联苯和多溴二苯醚报告为总溴。此外, XRF扫描结果可能基于各种因素与实际含量有所不同, 包括但不限于样品尺寸、厚度、面积、不均匀性成分, 表面平整度。  
\*denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, nonuniformity composition, surface flatness.
- XRF 扫描报告仅供参考, 申请者必须自己确认本 XRF 扫描报告所提供的信息能满足/他/她的用途。  
基于不同的因素, 本 XRF 扫描报告显示结果有所不同, 包括但不限于样品的尺寸、厚度、面积、表面光滑度、设备参数和基体效应(例如塑胶、橡胶、金属、玻璃、陶瓷等等)。为获得数据资料, 要求有相关化学分析设备作进一步湿化学预处理。  
This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.  
The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.
- Boiling-water-extraction 沸水提取: (X represents the results of the tested sample / X 为待测样品结果)

Number 序号	Colorimetric result (Cr(VI) concentration) 比色结果(铬(VI)浓度)	Judgement 判定
1	$X < 0.1 \mu\text{g}/\text{cm}^2$	Negative 阴性

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2	$0.1\mu\text{g}/\text{cm}^2 \leq X \leq 0.13\mu\text{g}/\text{cm}^2$	Uncertainty 不确定
3	$X > 0.13\mu\text{g}/\text{cm}^2$	Positive 阳性

- Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating. 阴性表明测试区域内六价铬含量低于定量极限，认定镀层不存在六价铬；  
Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination. 不确定表明测试区域镀层六价铬的不可避免的变化影响结果判定，导致无法判定结果；  
Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI). 阳性表明测试区域内六价铬含量高于定量极限，认定镀层含有六价铬；  
Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing. 由于未获知样品的存储条件和生产日期、样品的六价铬测试结果仅代表测试时样品的状态。

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## 附件 Appendix:

测试项目 Test Item	测试方法/仪器 Test Method/ Instrument	方法检出限 MDL	最大限值 Maximum Limit
X 射线荧光光谱法 X-ray Fluorescence Spectrometry (XRF)			
铅 Lead (Pb)	IEC 62321-3-1:2013 / XRF	200mg/kg	1000mg/kg
镉 Cadmium (Cd)		50mg/kg	100mg/kg
汞 Mercury (Hg)		200mg/kg	1000mg/kg
总铬 Total Chromium		200mg/kg	/
总溴 Total Bromine		200mg/kg	/
湿化学法 Wet Chemistry Method			
铅 Lead (Pb)	IEC 62321-5:2013/ ICP-OES	10mg/kg	1000mg/kg
镉 Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	10mg/kg	100mg/kg
汞 Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	10mg/kg	1000mg/kg
非金属：六价铬 (Cr <sup>6+</sup> ) Non-metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	1000mg/kg
金属：六价铬 (Cr <sup>6+</sup> ) Metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-1:2015/ UV-Vis	0.1µg/cm <sup>2</sup>	/
多溴联苯(PBBs) Polybrominated Biphenyls (PBBs) - 一溴联苯(MonoBB) -Monobromobiphenyl (MonoBB) - 二溴联苯(DiBB) -Dibromobiphenyl (DiBB) - 三溴联苯(TriBB) -Tribromobiphenyl (TriBB) - 四溴联苯(TetraBB) -Tetrabromobiphenyl (TetraBB) - 五溴联苯(PentaBB) -Pentabromobiphenyl (PentaBB) - 六溴联苯(HexaBB) -Hexabromobiphenyl (HexaBB) - 七溴联苯(HeptaBB) -Heptabromobiphenyl (HeptaBB) - 八溴联苯(OctaBB) -Octabromobiphenyl (OctaBB) - 九溴联苯(NonaBB) -Nonabromodiphenyl (NonaBB) - 十溴联苯(DecaBB) -Decabromodiphenyl (DecaBB)	IEC 62321-6:2015/ GC-MS	单项 Single 5mg/kg	总和 Sum 1000mg/kg

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测试项目 Test Item	测试方法/仪器 Test Method/ Instrument	方法检出限 MDL	最大限值 Maximum Limit
多溴二苯醚 (PBDEs) Polybrominated Diphenylethers (PBDEs) - 一溴二苯醚(MonoBDE) -Monobromodiphenyl ether (MonoBDE) - 二溴二苯醚(DiBDE) -Dibromodiphenyl ether (DiBDE) - 三溴二苯醚(TriBDE) -Tribromodiphenyl ether (TriBDE) - 四溴二苯醚(TetraBDE) -Tetrabromodiphenyl ether (TetraBDE) - 五溴二苯醚(PentaBDE) -Pentabromodiphenyl ether (PentaBDE) - 六溴二苯醚(HexaBDE) -Hexabromodiphenyl ether (HexaBDE) - 七溴二苯醚(HeptaBDE) -Heptabromodiphenyl ether (HeptaBDE) - 八溴二苯醚(OctaBDE) -Octabromodiphenyl ether (OctaBDE) - 九溴二苯醚(NonaBDE) -Nonabromodiphenyl ether (NonaBDE) - 十溴二苯醚(DecaBDE) -Decabromodiphenyl ether (DecaBDE)	IEC 62321-6:2015/ GC-MS	单项 Single 5mg/kg	总和 Sum 1000mg/kg
邻苯二甲酸二异丁酯(DIBP) Di-iso-butyl phthalate (DIBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	1000mg/kg
邻苯二甲酸二正丁酯(DBP) Dibutyl phthalate (DBP)		50mg/kg	1000mg/kg
邻苯二甲酸丁苄酯(BBP) Butylbenzyl phthalate (BBP)		50mg/kg	1000mg/kg
邻苯二甲酸二(2-乙基己基)酯(DEHP) Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	1000mg/kg

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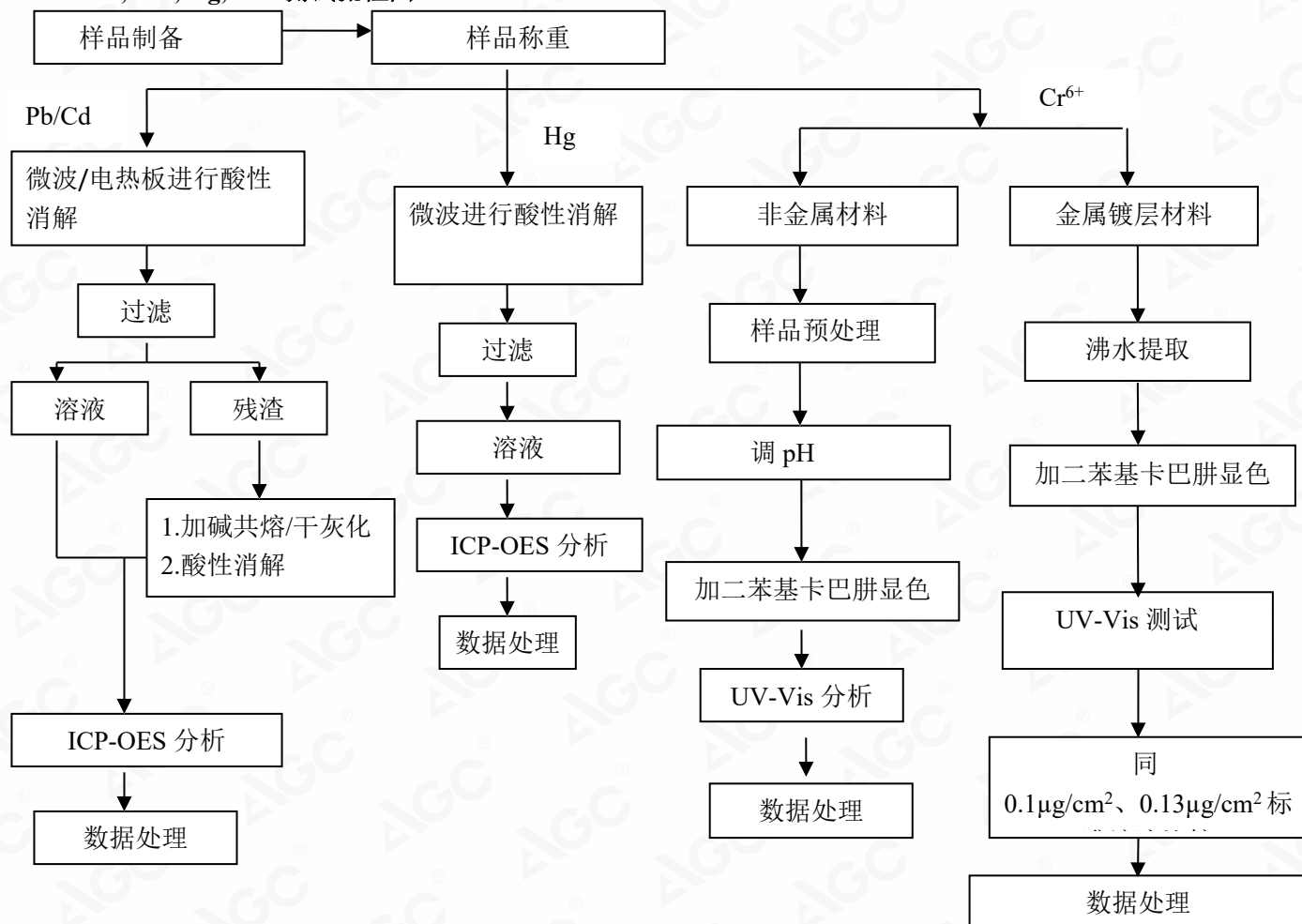
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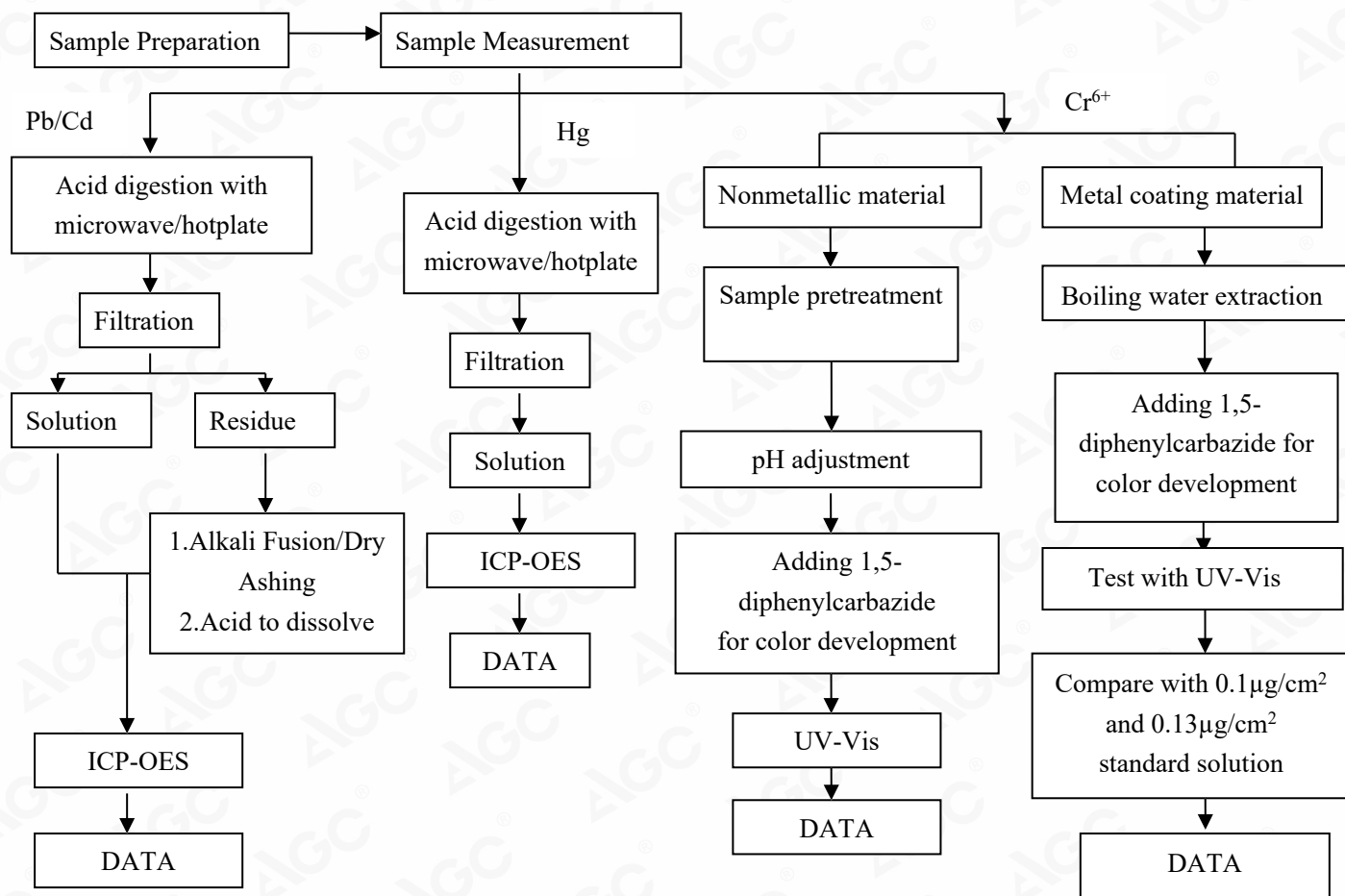


## 测试流程图(Test Flow Chart)

1. Pb, Cd, Hg, Cr<sup>6+</sup>测试流程图

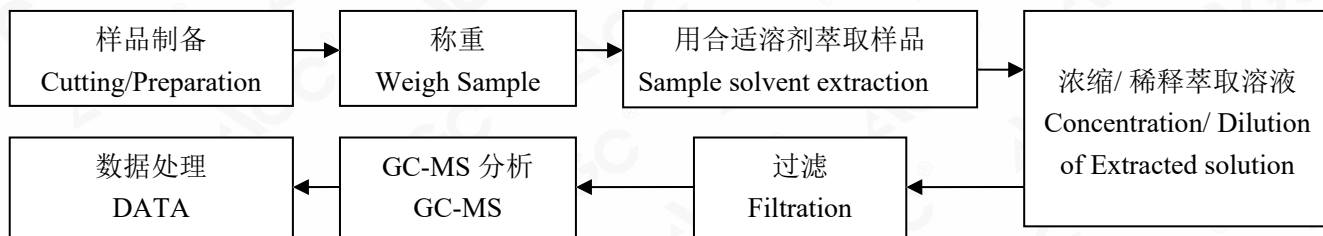
根据以上的流程图之条件，样品已经完全溶解（六价铬测试方法除外）。

### 1. For Pb, Cd, Hg, Cr<sup>6+</sup>



These sample were dissolved totally by pre-conditioning method according to above flow chart (Cr<sup>6+</sup> test method excluded)

### 2. PBBs, PBDEs, DBP, BBP, DEHP 和DIBP的测试流程图(The Test Flow Chart of PBBs, PBDEs, DBP, BBP, DEHP and DIBP)



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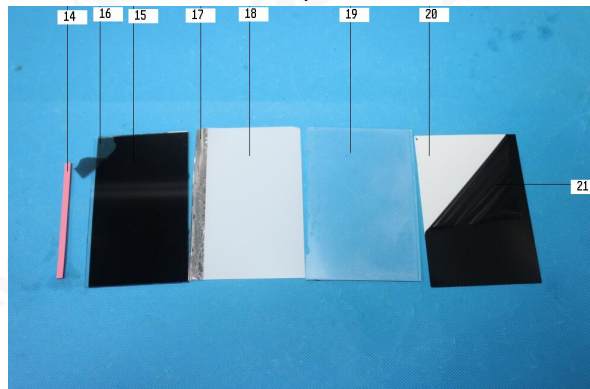
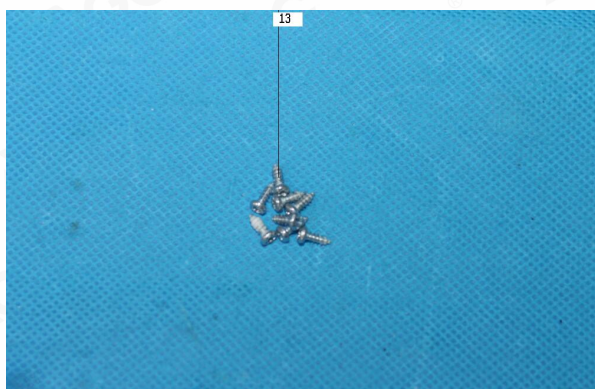
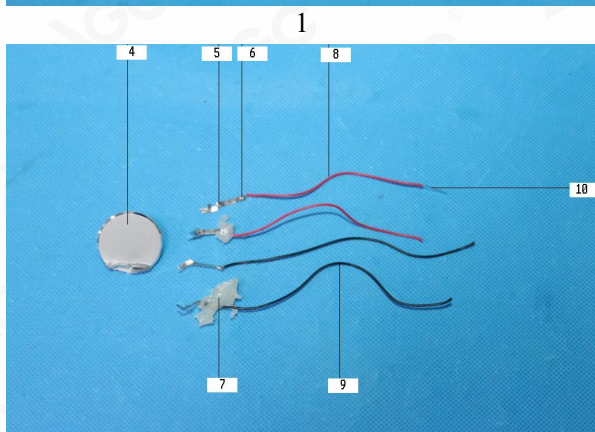
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样品附图(The photo of the sample)



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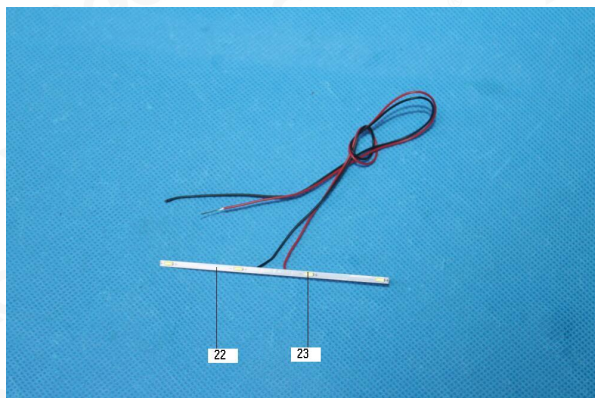
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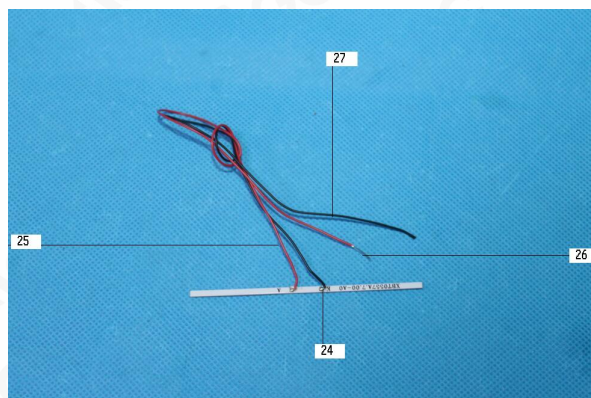
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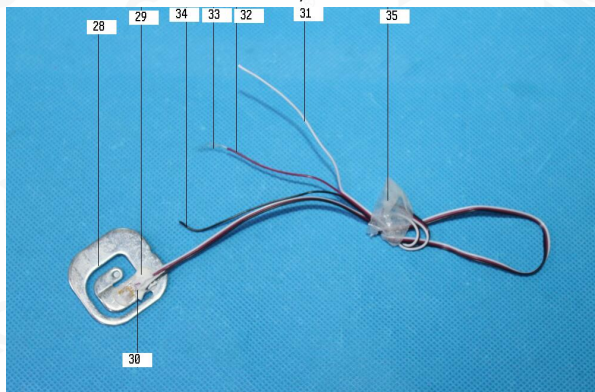




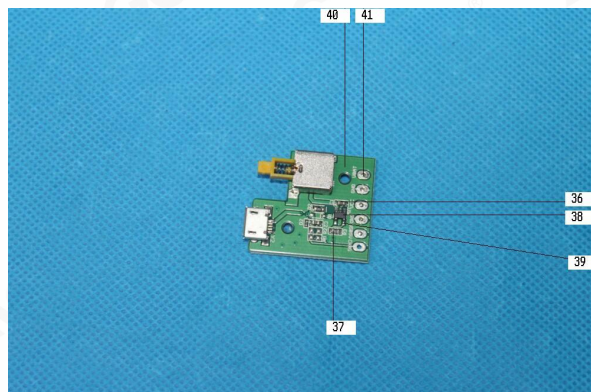
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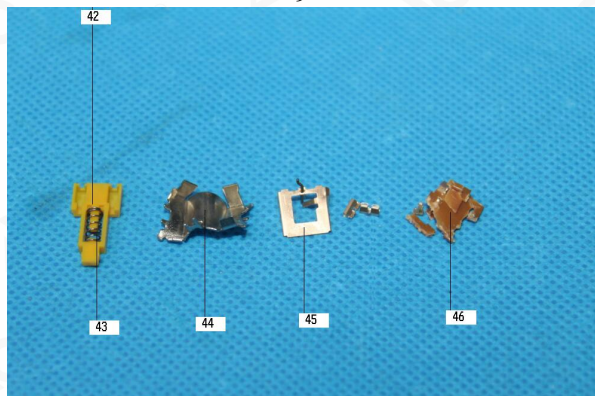
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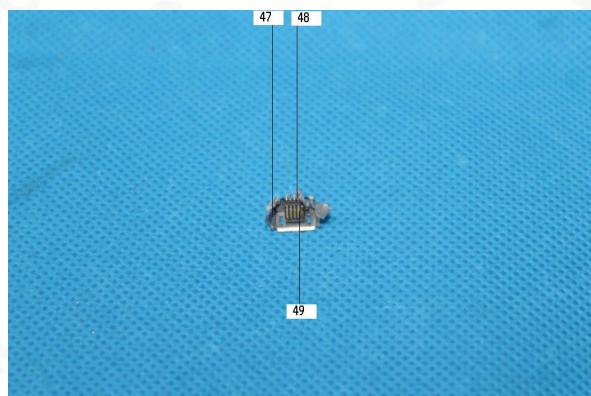
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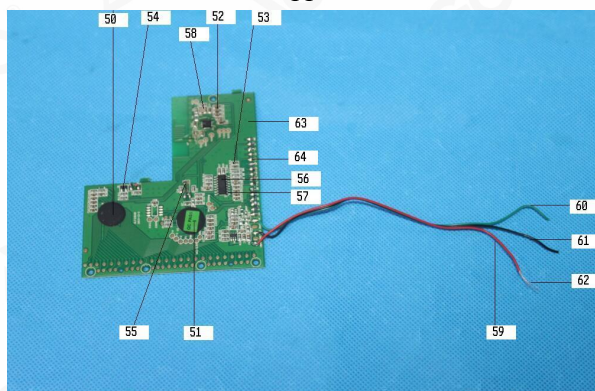
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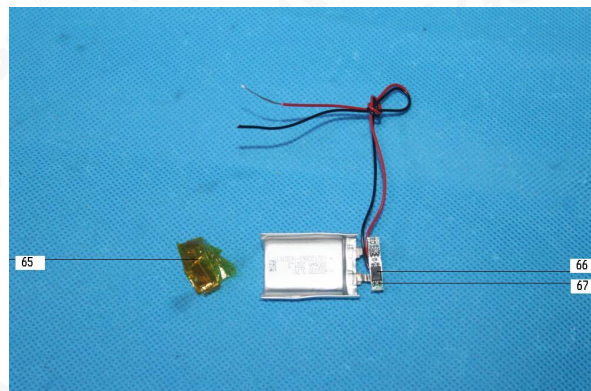
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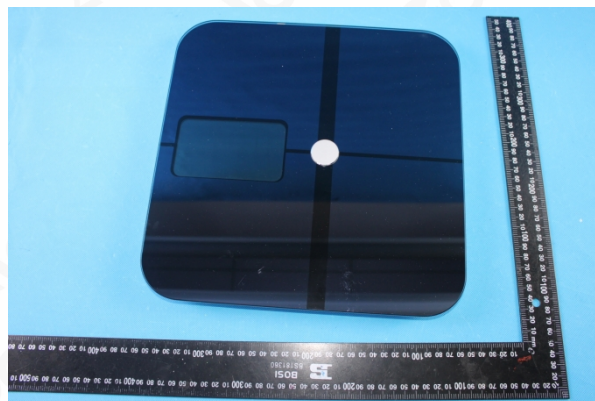
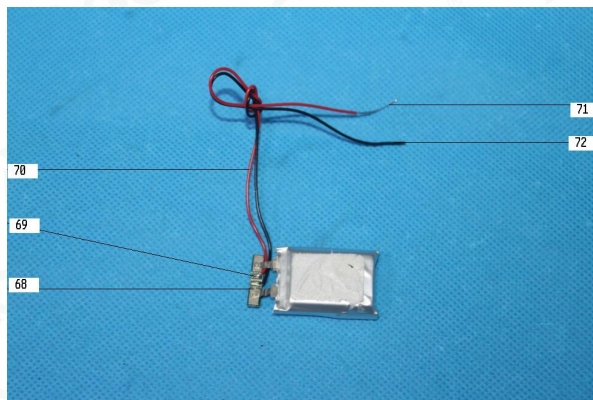
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10. 该测试报告的支持数据和信息本公司保存 6 年。个别评审机构有特别要求的，检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限，数据和信息将被处理掉。任何情况下，本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害，本公司在任何情况下也不必承担任何损害，包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

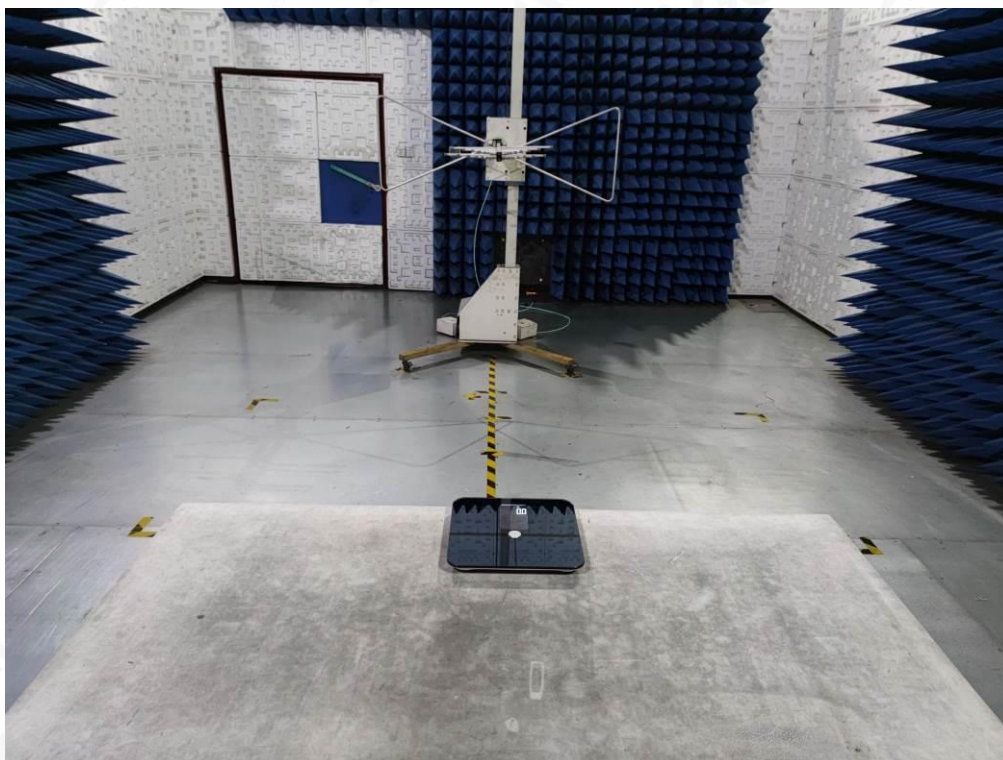
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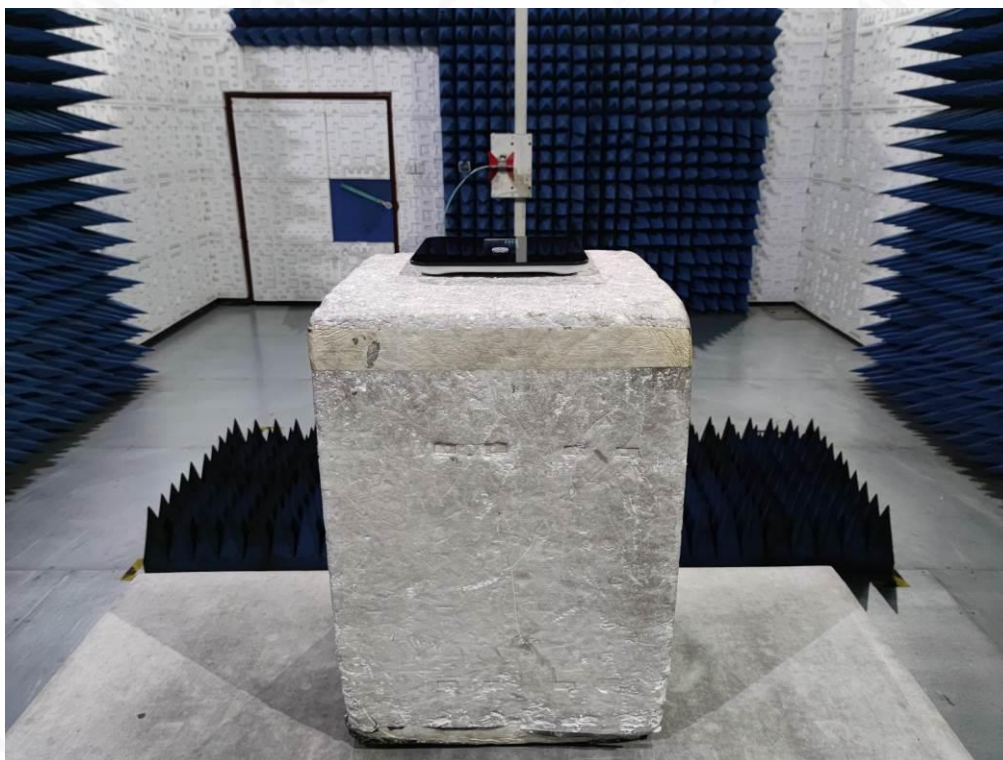


## TEST SETUP PHOTOS

### RADIATED EMISSION TEST SETUP BELOW 1GHz



### RADIATED EMISSION TEST SETUP ABOVE 1GHz



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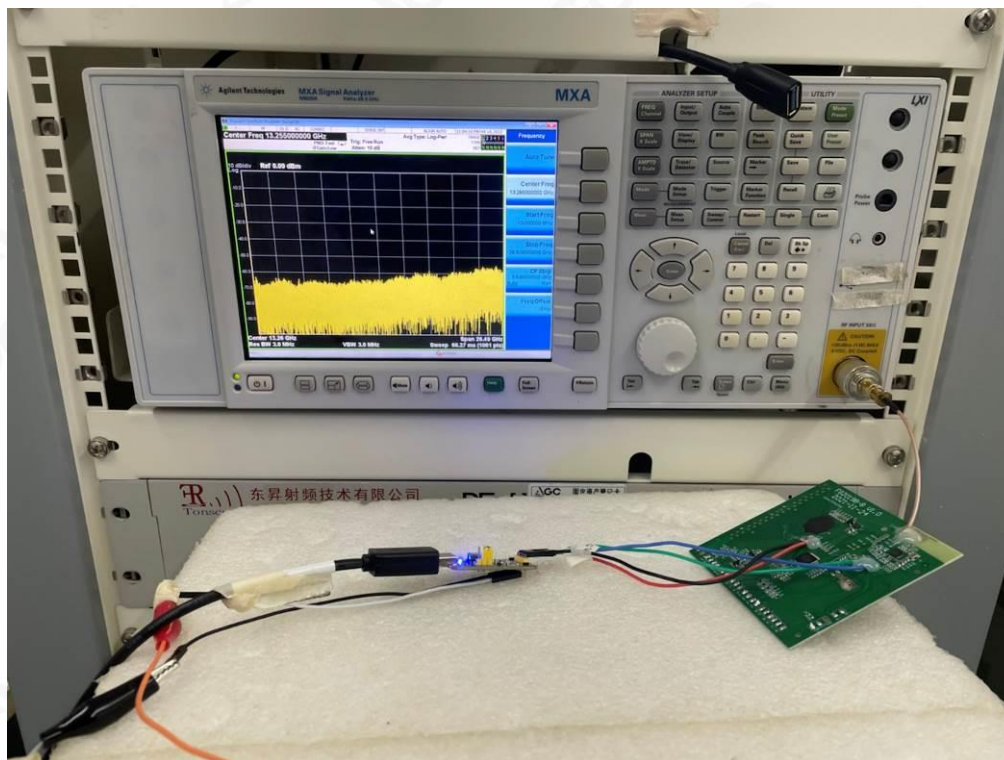
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## RF CONDUCTED TEST SETUP



\*\*\*\*\*End of Report\*\*\*\*\*

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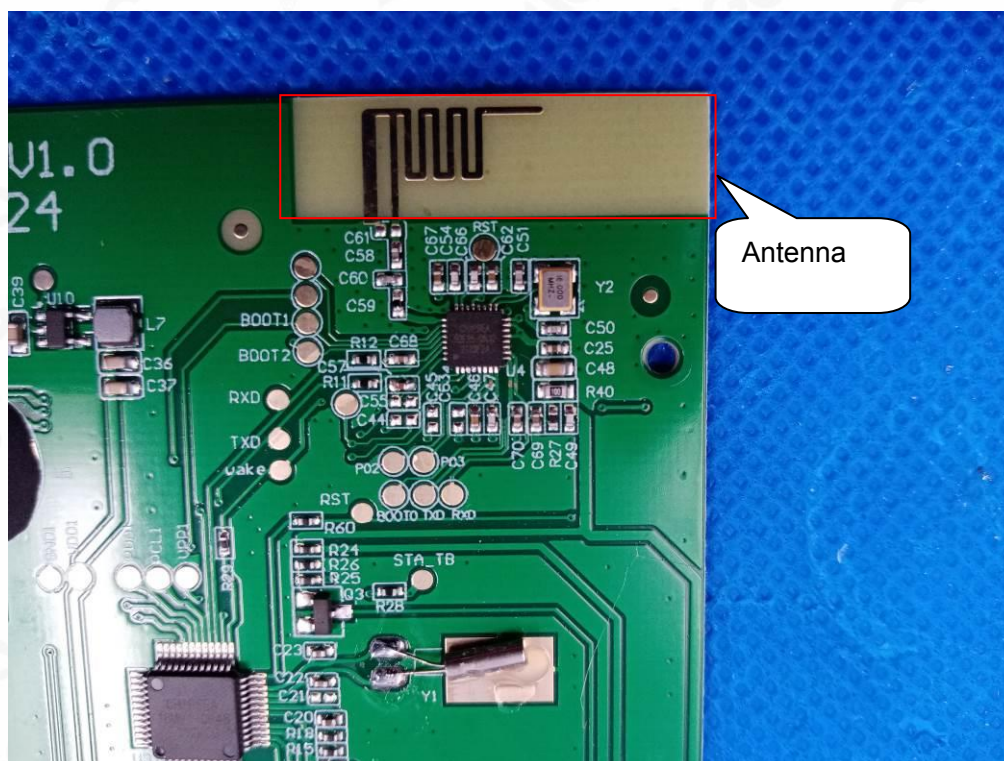
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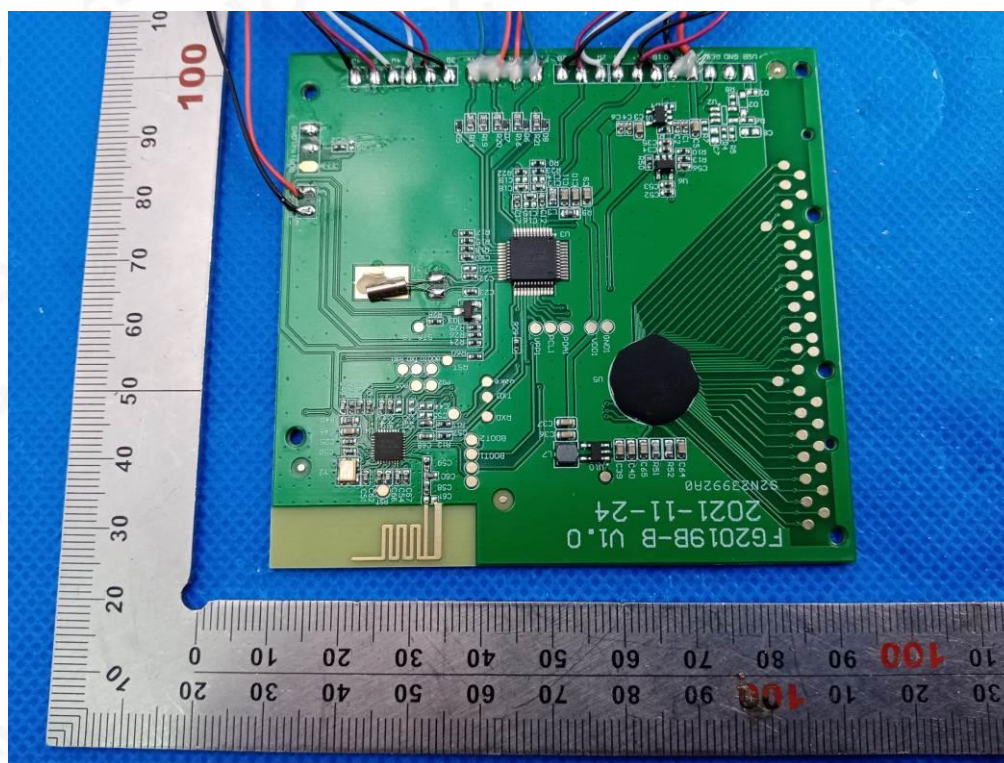


## INTERNAL PHOTOS

### ANTENNA CLOSE-UP PHOTO-1



INTERNAL VIEW OF EUT (FIGURE 1)



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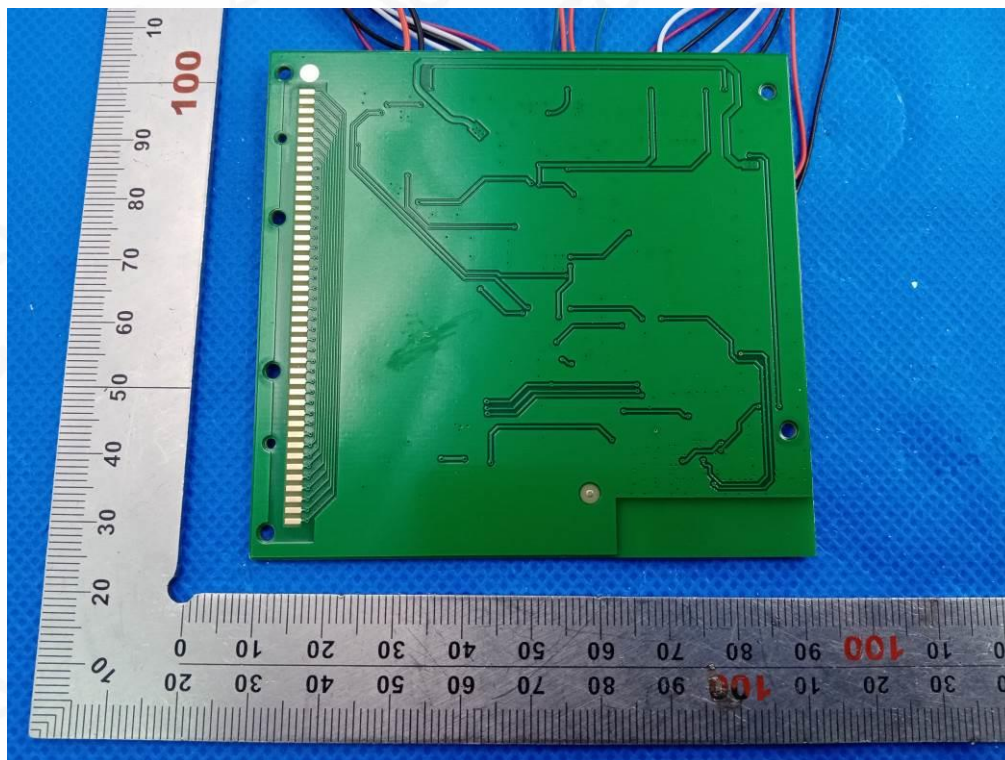
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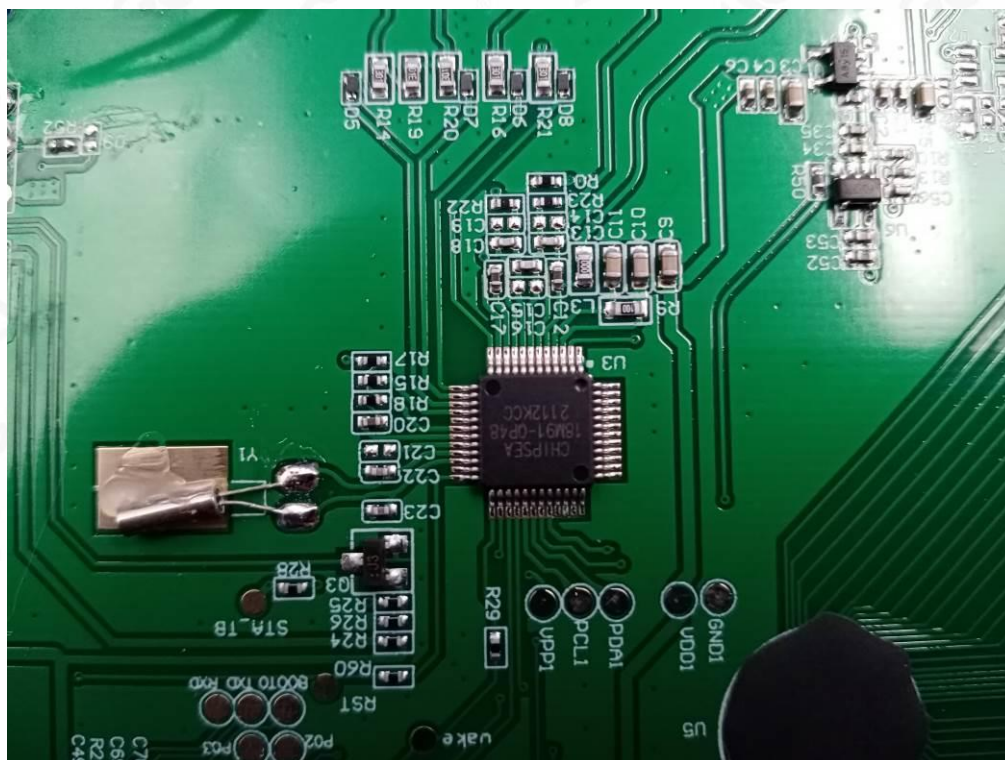




INTERNAL VIEW OF EUT (FIGURE 2)



INTERNAL VIEW OF EUT (FIGURE 3)



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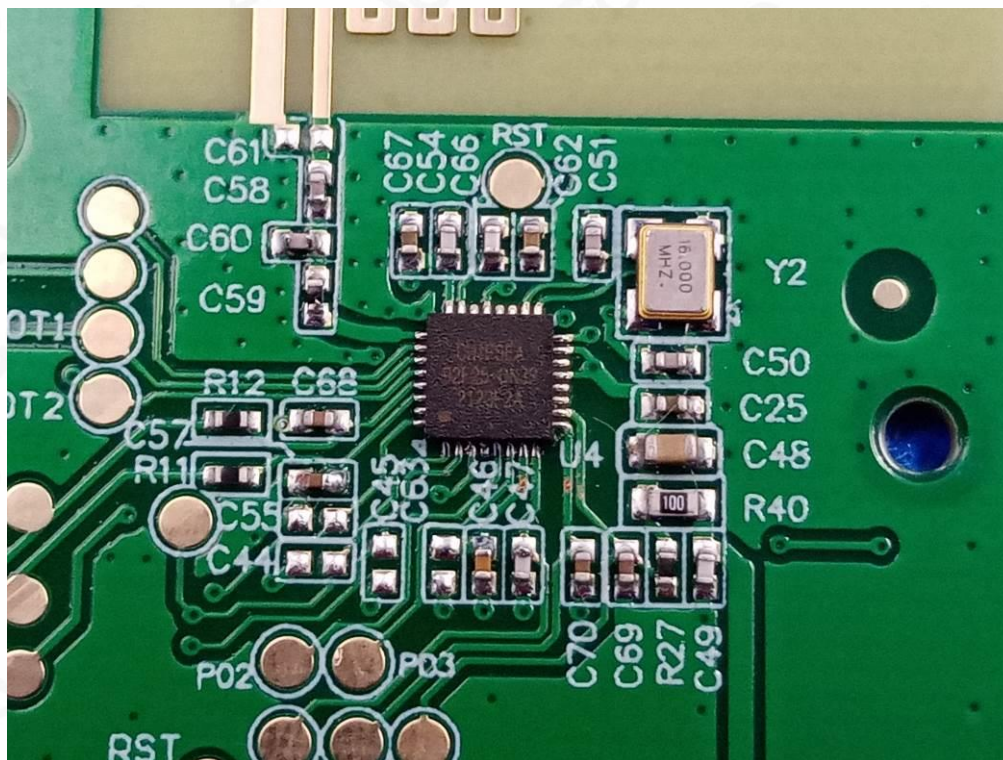
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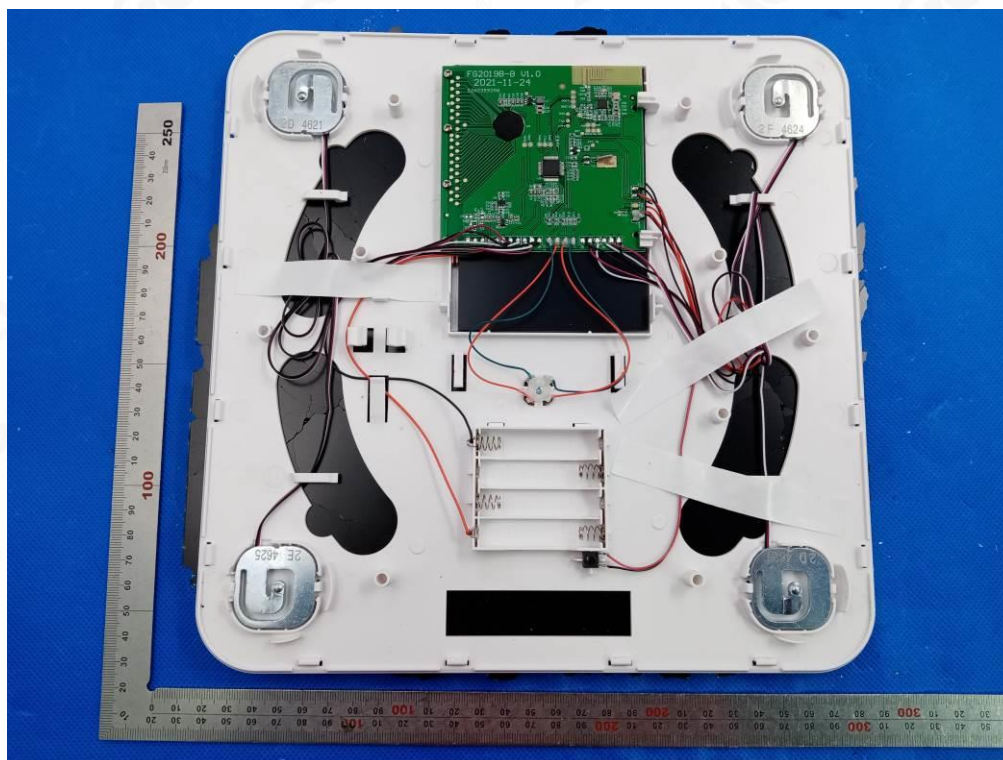




INTERNAL VIEW OF EUT (FIGURE 4)



INTERNAL VIEW OF EUT (FIGURE 5)



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INTERNAL VIEW OF EUT (FIGURE 6)



\*\*\*\*\*End of Report\*\*\*\*\*

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# FCC Test Report

Report No.: AGC06164220201FE01

**PRODUCT DESIGNATION** : Smart Body Fat Scale

**BRAND NAME** : N/A

**MODEL NAME** : FI2019LB-B, FG2019LB-B, FI2019LB, FG2019LB,  
FI2019LB-A, FG2019LB-A

**APPLICANT** : Guangdong Welland Technology Co., Ltd

**DATE OF ISSUE** : Feb. 23, 2022

**STANDARD(S)** : FCC Part 15 Subpart B

**REPORT VERSION** : V1.0

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### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Feb. 23, 2022	Valid	Initial release

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## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	Guangdong Welland Technology Co., Ltd.
<b>Address</b>	NO. 85 Minke East Road, Min Ying Science and Technology Park, Shiqi District, Zhongshan, Guangdong, China
<b>Manufacturer</b>	Guangdong Welland Technology Co., Ltd.
<b>Address</b>	NO. 85 Minke East Road, Min Ying Science and Technology Park, Shiqi District, Zhongshan, Guangdong, China
<b>Factory</b>	Guangdong Welland Technology Co., Ltd.
<b>Address</b>	NO. 85 Minke East Road, Min Ying Science and Technology Park, Shiqi District, Zhongshan, Guangdong, China
<b>Product Designation</b>	Smart Body Fat Scale
<b>Brand Name</b>	N/A
<b>Test Model</b>	FI2019LB-B
<b>Series Model</b>	FG2019LB-B, FI2019LB, FG2019LB, FI2019LB-A, FG2019LB-A
<b>Difference Description</b>	All the series models are the same as the test model except for the model names and the color of appearance.
<b>Measurement Procedure</b>	ANSI C63.4: 2014
<b>Date of test</b>	Feb. 18, 2022 to Feb. 23, 2022
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-IT/AC

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2014. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Prepared By

*Kelly Cheng*Kelly Cheng  
(Project Engineer)

Feb. 23, 2022

Reviewed By

*Calvin Liu*Calvin Liu  
(Reviewer)

Feb. 23, 2022

Approved By

*Forrest Lei*Forrest Lei  
(Authorized Officer)

Feb. 23, 2022

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## 2. SYSTEM DESCRIPTION

TEST MODE DESCRIPTION		
NO.	TEST MODE DESCRIPTION	WORST
1	Normal Working	V
Note: 1. V means EMI worst mode. 2. Only worst mode data recorded in the test report.		

## 3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission,  $U_c = \pm 3.2$  dB
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 3.9$  dB
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.8$  dB

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#### 4. PRODUCT INFORMATION

<b>Housing Type</b>	Plastic and metal
<b>Hardware Version</b>	V1.0
<b>Software Version</b>	V1.0.0
<b>Power Supply</b>	DC 6V by adapter

I/O Port Information (☒ Applicable ☐ Not Applicable)

I/O Port of EUT			
I/O Port Type	Number	Specific	Tested With
DC IN	1	--	1

**Note:**

1. All the above “—” means that EUT has no cable.
2. All the cables were provided by AGC Lab.

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## 5. SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
--	--	--	--	--	--

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## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

## TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2022
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A

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## 7. TEST ITEMS AND THE RESULTS

Test item	Test Requirement	Test Method	Class/Severity	Result
CONDUCTED EMISSION	FCC Part 15 Rules	ANSI C63.4	Class B	N/A
RADIATED EMISSION	FCC Part 15 Rules	ANSI C63.4	Class B	Pass

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## 8. RADIATED EMISSION TEST

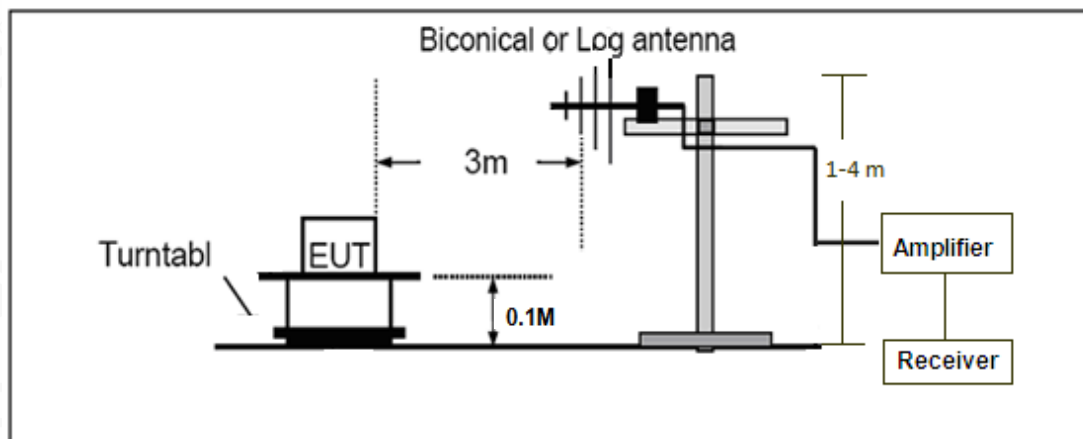
### 8.1. LIMITS OF RADIATED EMISSION TEST

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m/ Q.P.)
30~88	3	40.0
88~216	3	43.5
216~960	3	46.0
Above 960	3	54.0

Note: The lower limit shall apply at the transition frequency.

### 8.2. BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators



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### 8.3. PROCEDURE OF RADIATED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) All support equipments received AC120V/60Hz power from socket under the turntable, if any.
- (5) The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- (6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- (7) The test mode(s) were scanned during the test:
- (8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.

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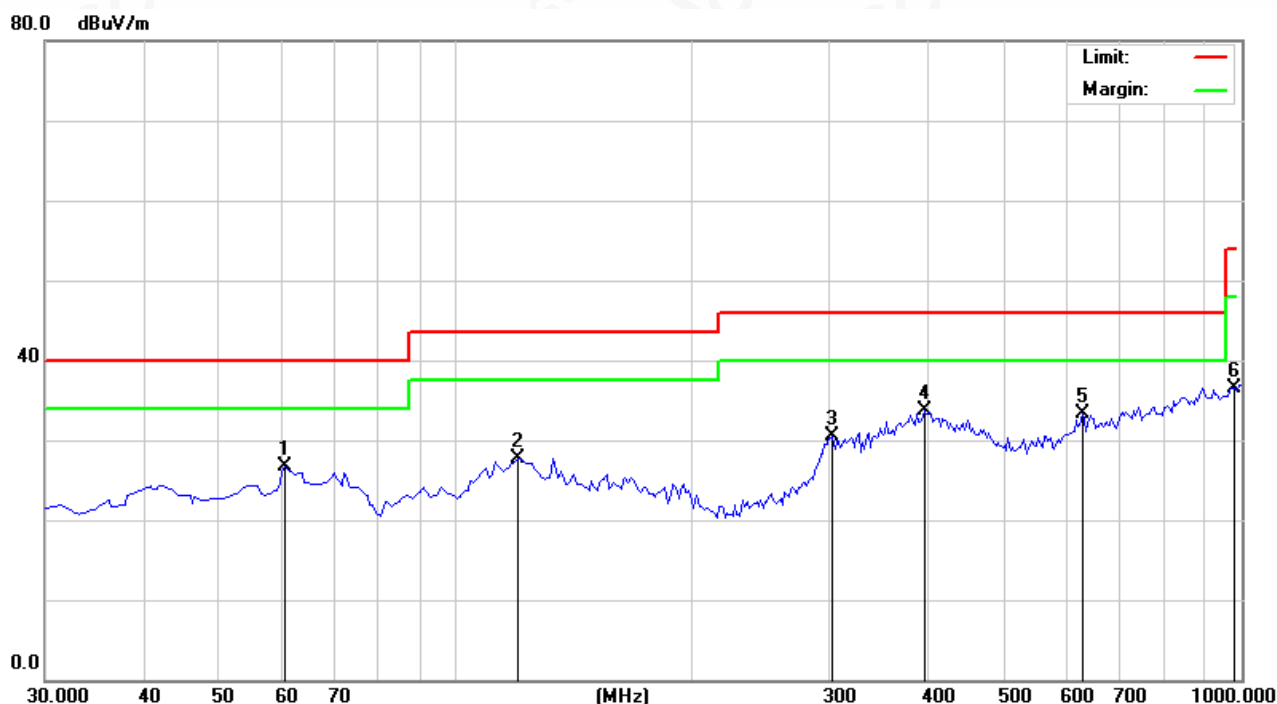
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#### 8.4. TEST RESULT OF RADIATED EMISSION TEST

Radiated Emission below 1GHz Test at 3m Distance-Horizontal



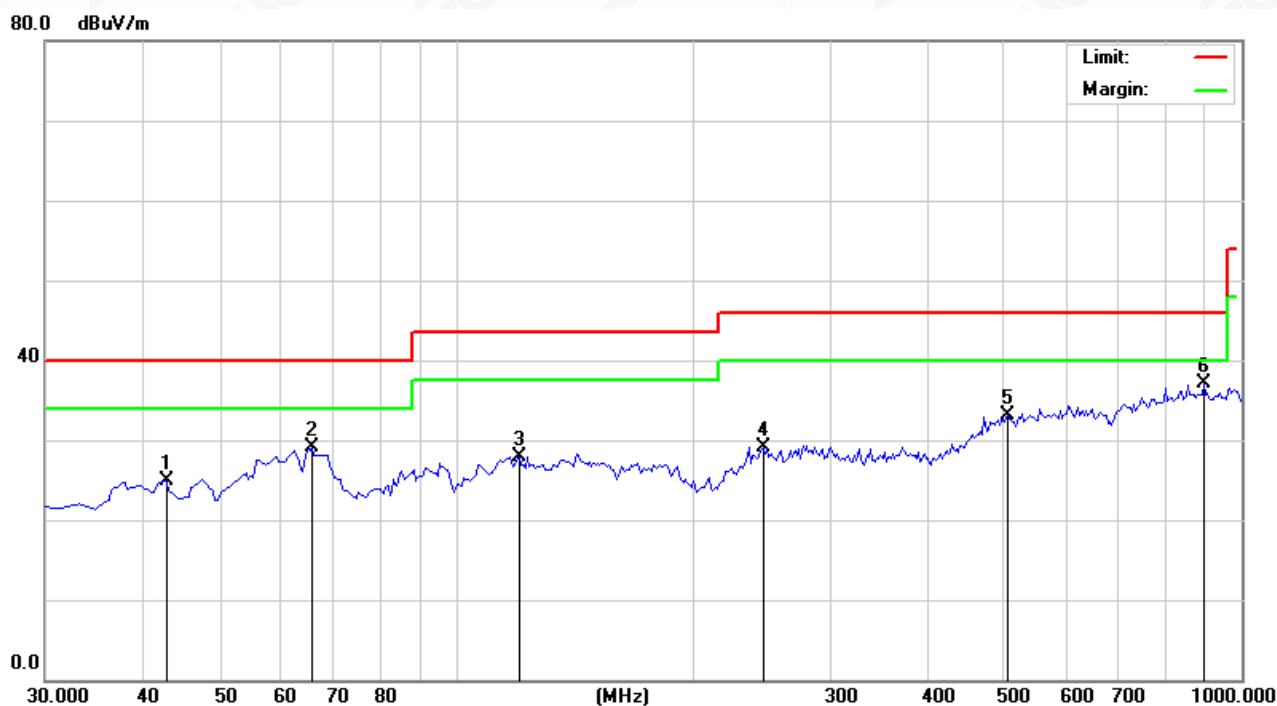
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		60.7167	15.10	11.53	26.63	40.00	-13.37	peak
2		120.5332	14.79	12.96	27.75	43.50	-15.75	peak
3		303.2167	13.90	16.51	30.41	46.00	-15.59	peak
4	*	396.9832	15.02	18.61	33.63	46.00	-12.37	peak
5		629.7833	15.97	17.31	33.28	46.00	-12.72	peak
6		982.2166	13.60	22.94	36.54	54.00	-17.46	peak

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## Radiated Emission below 1GHz Test at 3m Distance-Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		42.9333	15.30	9.59	24.89	40.00	-15.11	peak
2		65.6492	17.07	12.01	29.08	40.00	-10.92	peak
3		120.5580	14.93	12.98	27.91	43.50	-15.59	peak
4		246.6332	15.52	13.54	29.06	46.00	-16.94	peak
5		506.9166	15.88	17.19	33.07	46.00	-12.93	peak
6	*	899.7667	14.39	22.64	37.03	46.00	-8.97	peak

**RESULT: PASS**

Note:

Measurement(dBuV/m)=Reading(dBuV)+Factor(dB/m)

Factor(dB/m)=Antenna Factor(dB/m)+Cable loss(dB)+Attenuation(dB)for Attenuator

Over=Measurement-Limit

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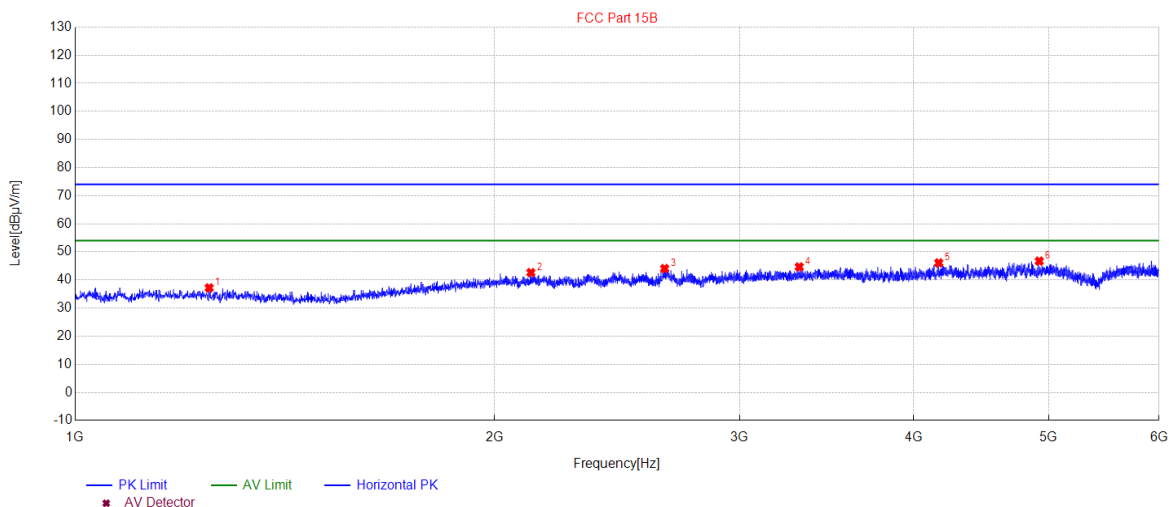
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### Radiated Emission above 1GHz Test at 3m Distance-Horizontal



NO	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1248.0248	37.19	-16.88	74.00	36.81	100	70	Horizontal
2	2124.1124	42.62	-11.30	74.00	31.38	100	230	Horizontal
3	2649.665	44.05	-9.60	74.00	29.95	100	100	Horizontal
4	3310.231	44.64	-8.26	74.00	29.36	100	170	Horizontal
5	4168.8169	46.07	-6.06	74.00	27.93	100	170	Horizontal
6	4922.3922	46.71	-4.79	74.00	27.29	100	100	Horizontal

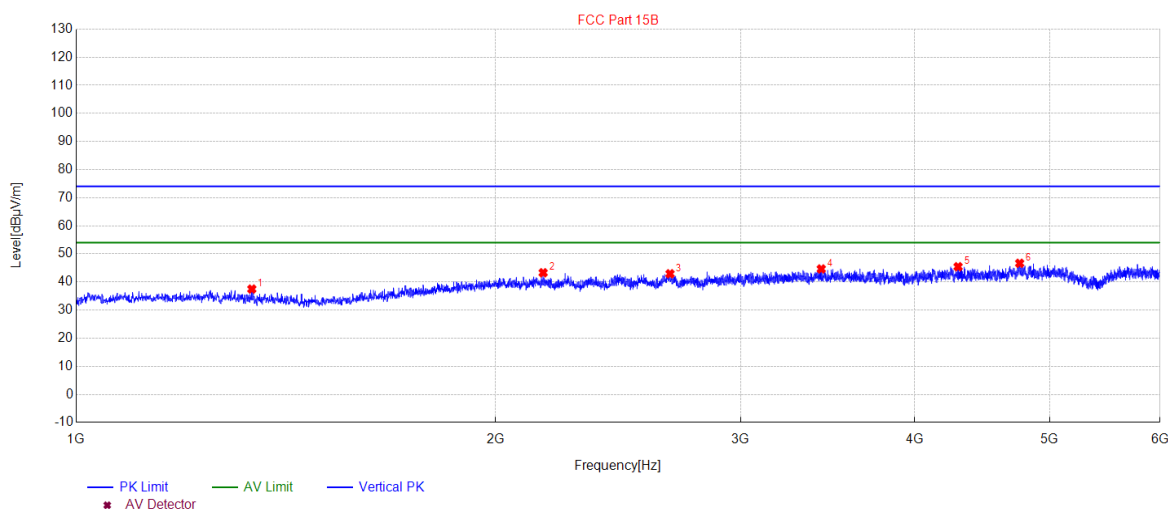
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### Radiated Emission above 1GHz Test at 3m Distance-Vertical



NO	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1337.0337	37.48	-16.97	74.00	36.52	100	80	Vertical
2	2164.1164	43.28	-11.13	74.00	30.72	100	310	Vertical
3	2669.1669	42.91	-9.59	74.00	31.09	100	180	Vertical
4	3427.2427	44.63	-7.85	74.00	29.37	100	60	Vertical
5	4296.8297	45.43	-5.73	74.00	28.57	100	300	Vertical
6	4757.3757	46.65	-4.95	74.00	27.35	100	120	Vertical

### RESULT: PASS

Note:

Measurement(dBuV/m)=Reading(dBuV)+Factor(dB/m)

Factor(dB/m)=Antenna Factor(dB/m)+Cable loss(dB)+Attenuation(dB)for Attenuator

Margin= Limit-Level

All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.

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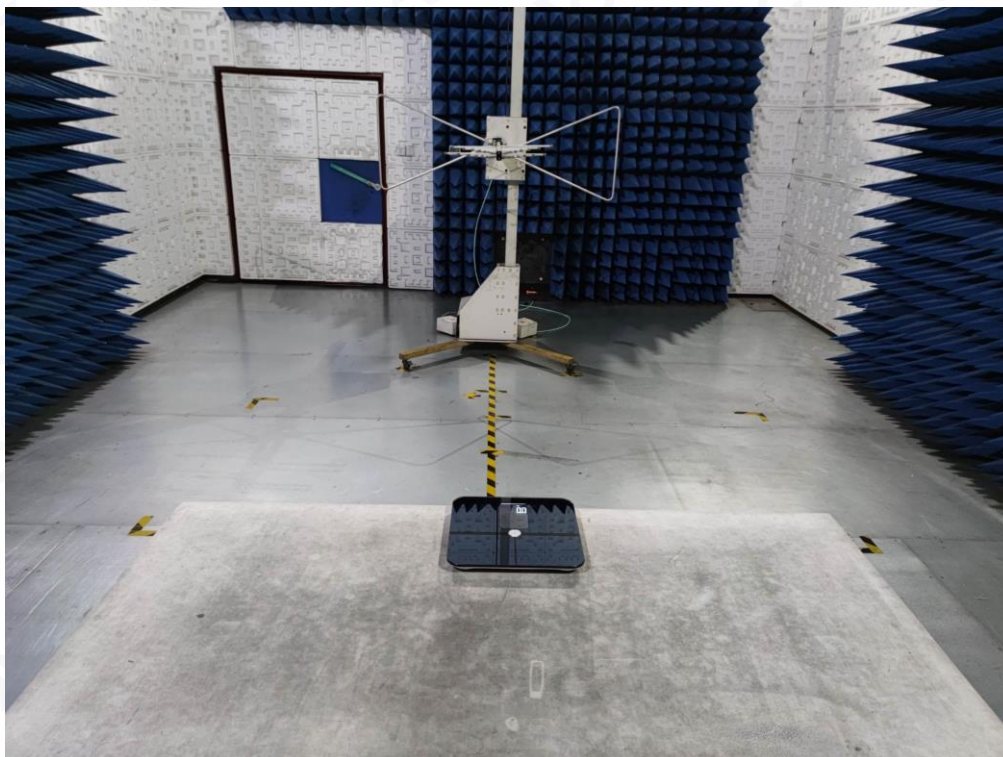
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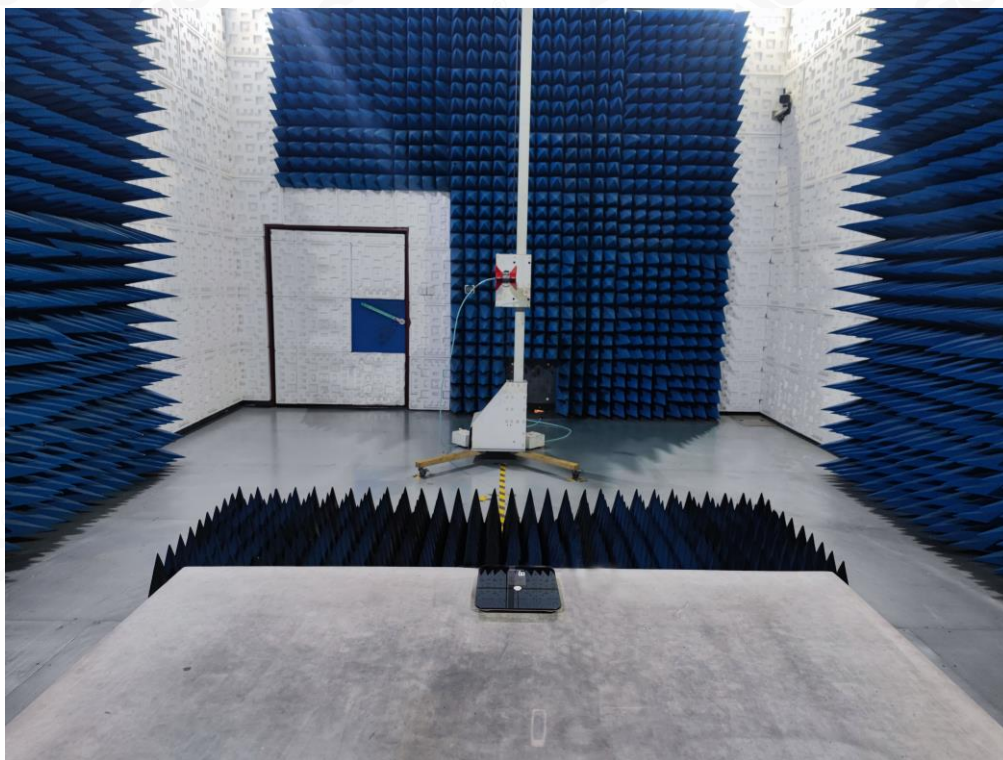


## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### FCC RADIATED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHz



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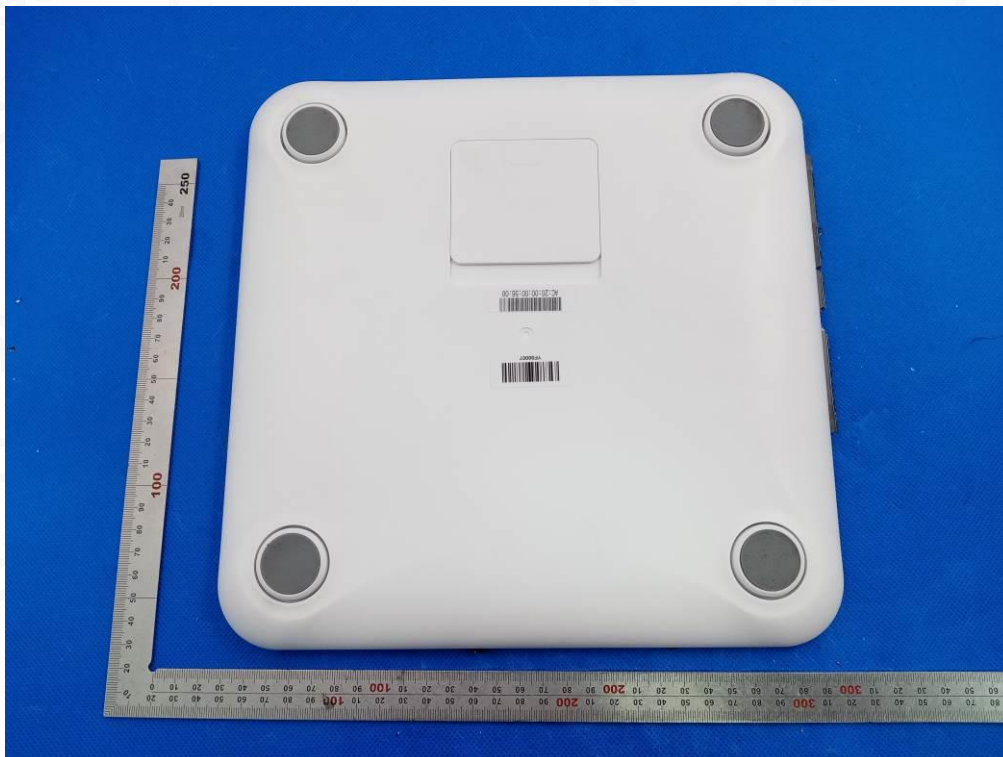


## APPENDIX B: PHOTOGRAPHS OF EUT

### TOP VIEW OF EUT



### BOTTOM VIEW OF EUT



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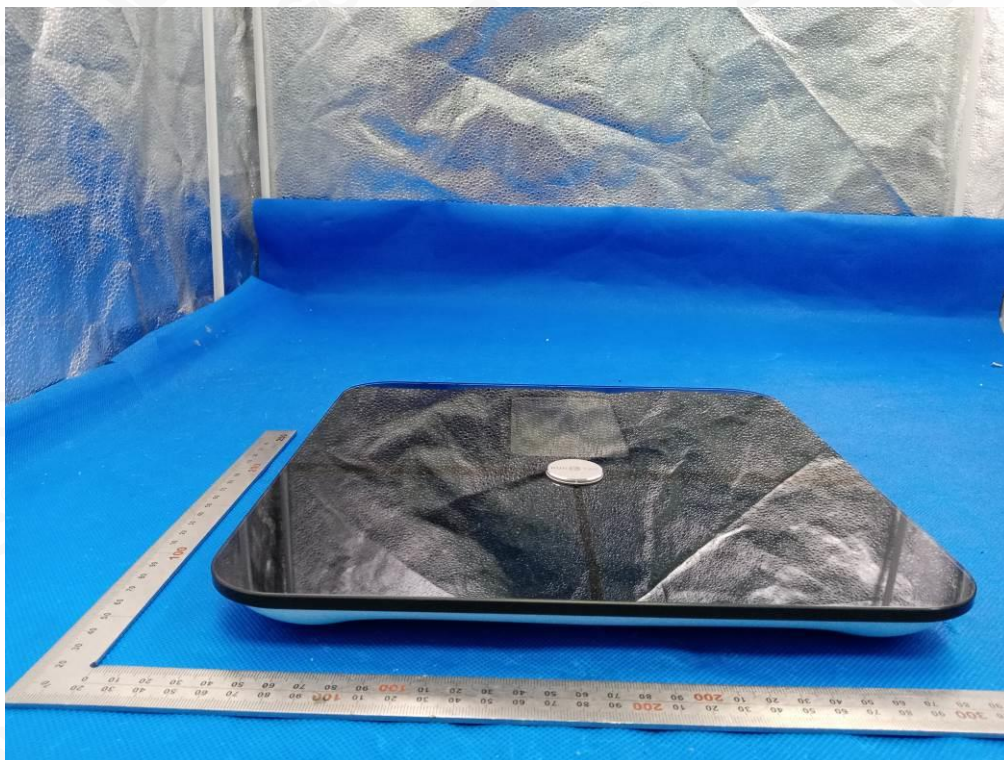
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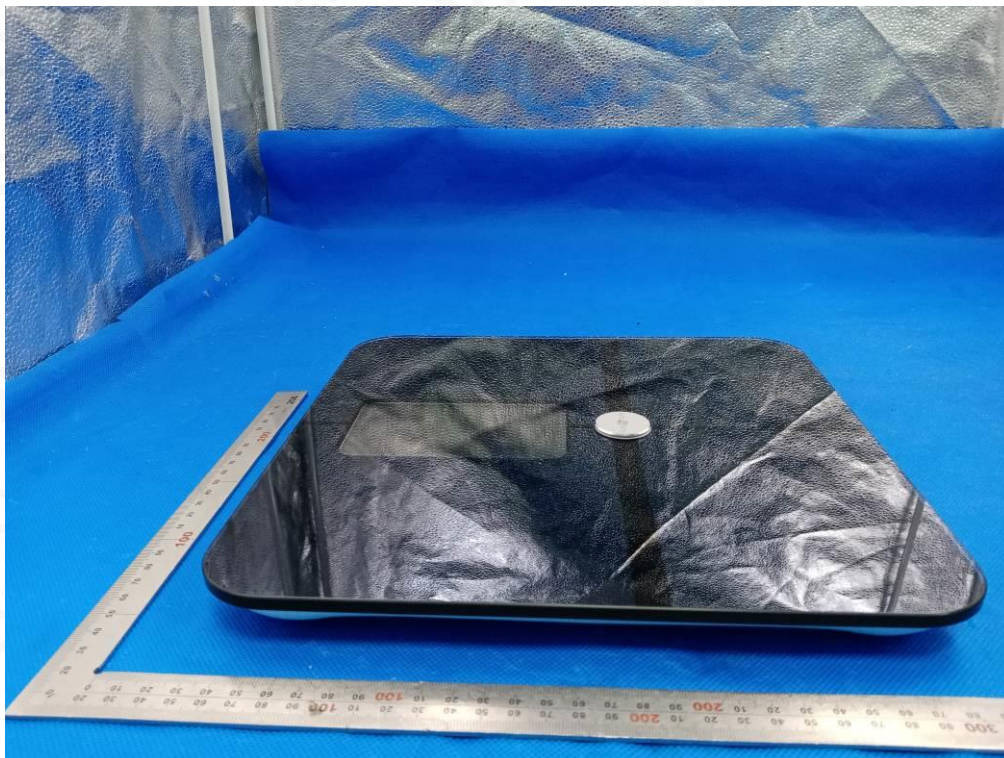




FRONT VIEW OF EUT



BACK VIEW OF EUT



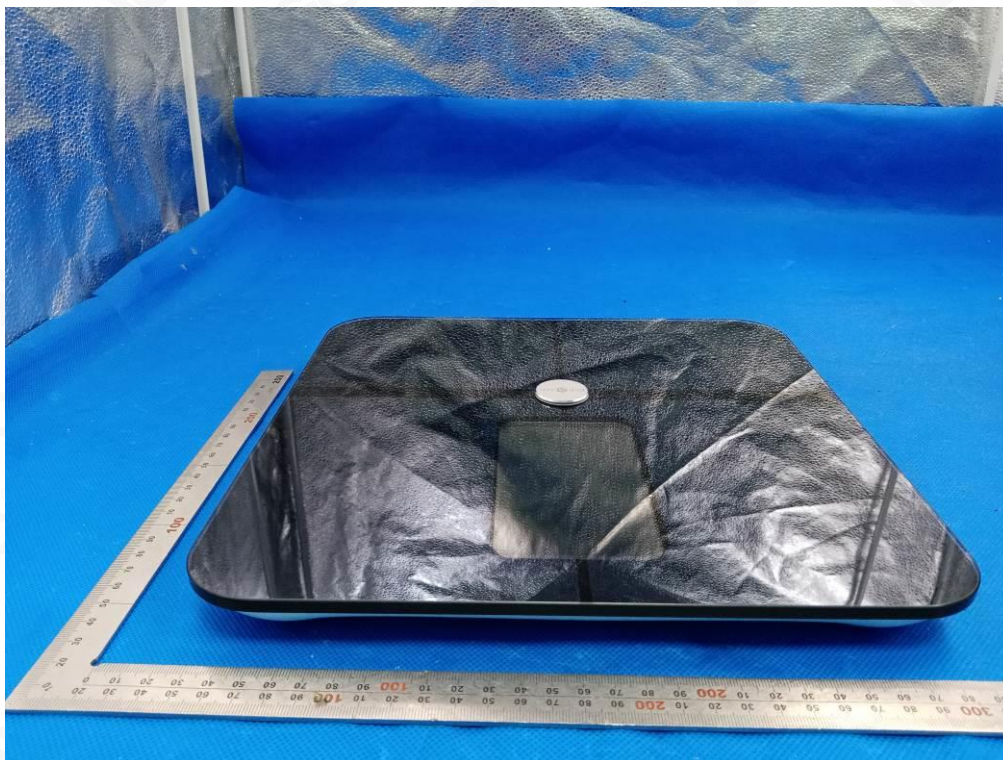
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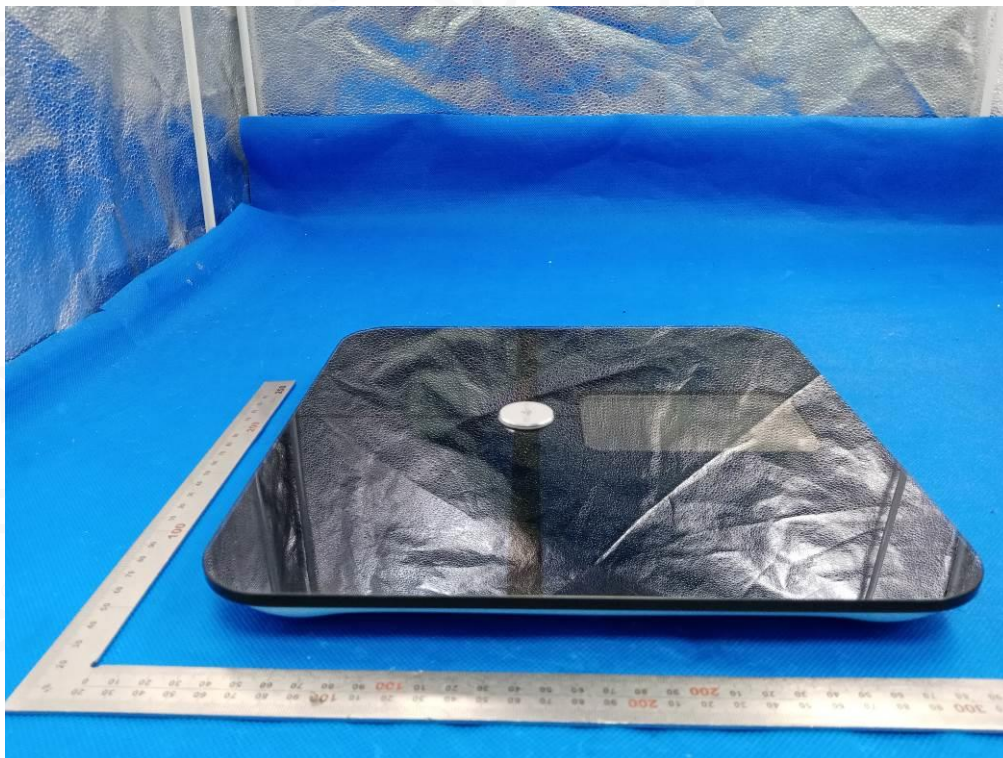




LEFT VIEW OF EUT



RIGHT VIEW OF EUT



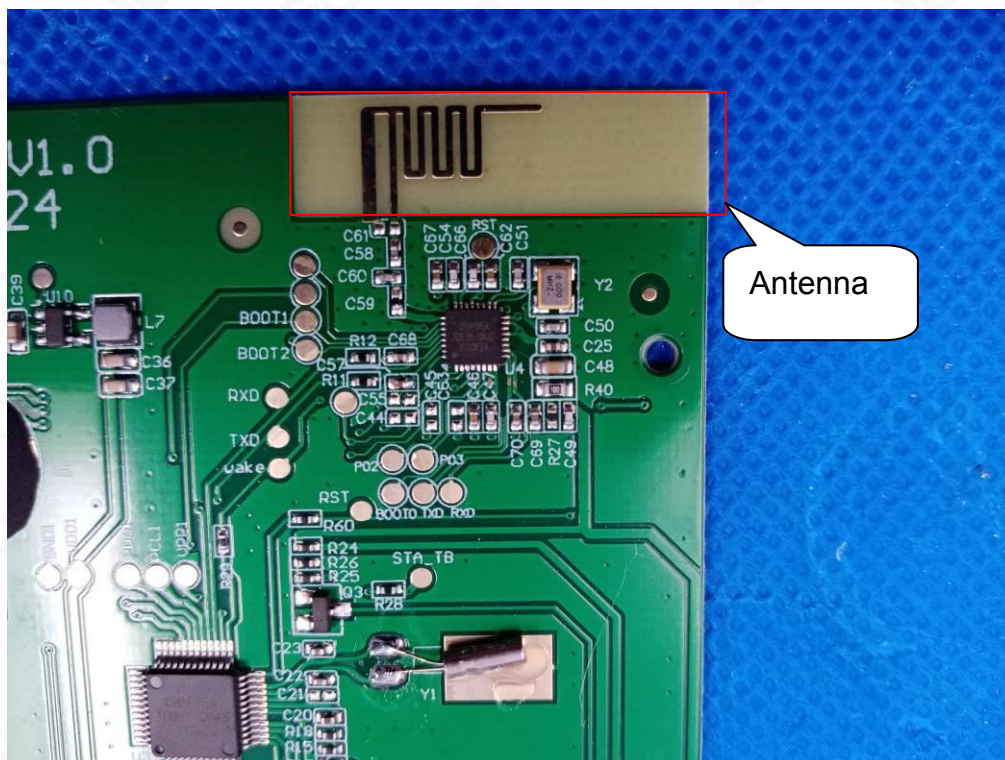
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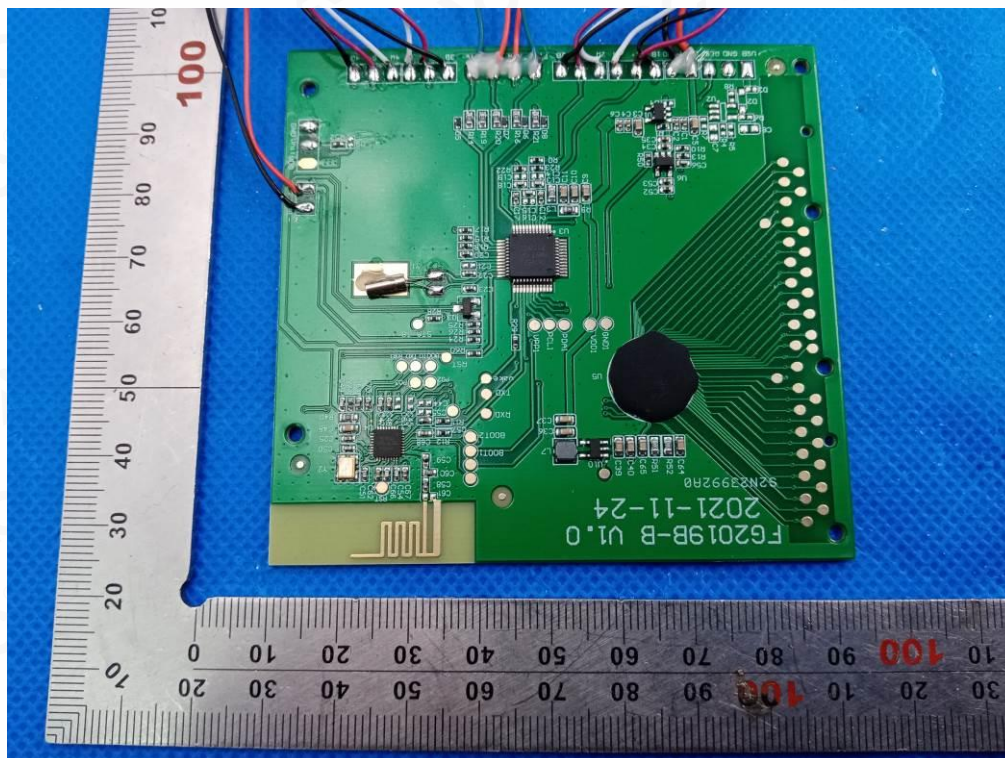




ANTENNA CLOSE-UP PHOTO-1



INTERNAL VIEW OF EUT (FIGURE 1)



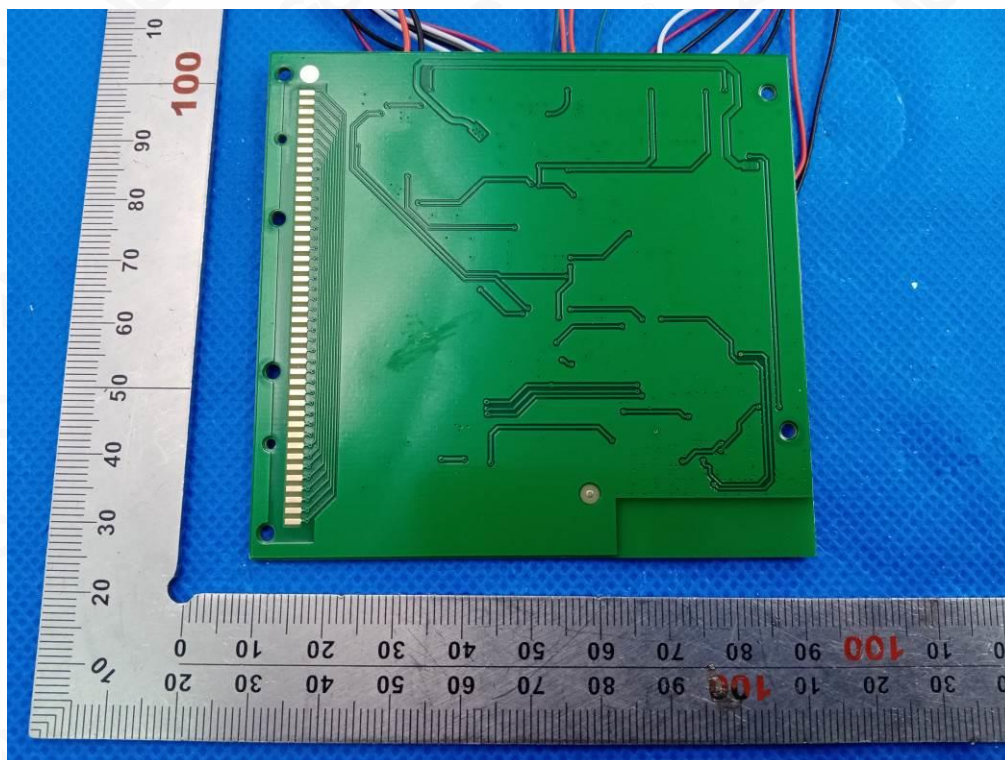
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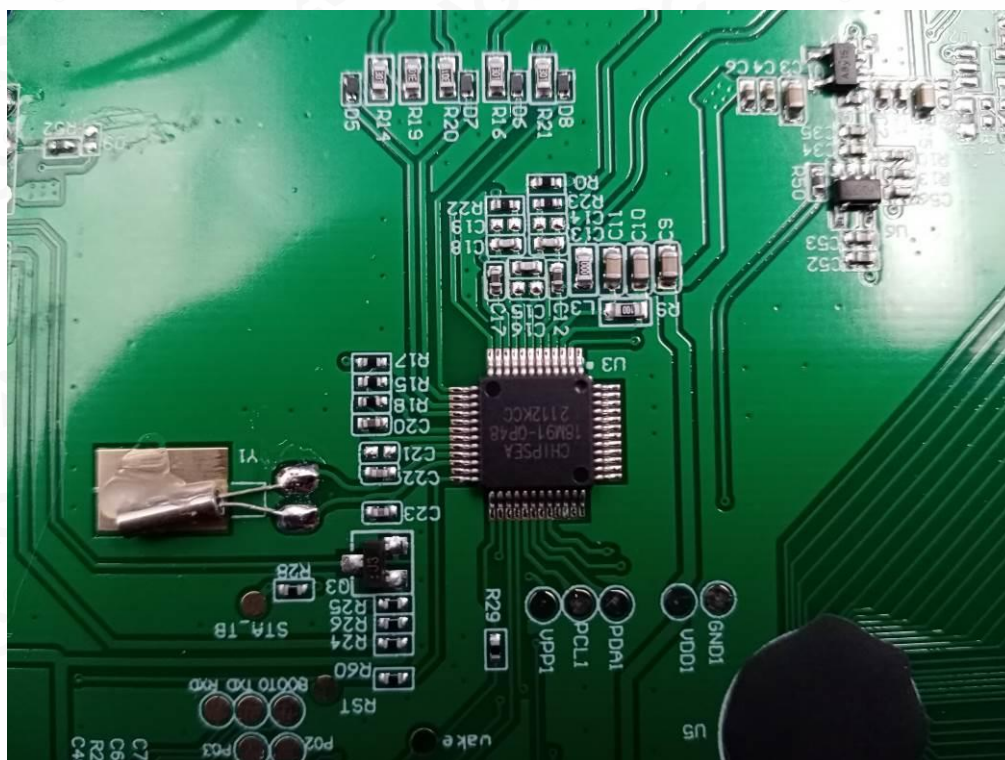




### INTERNAL VIEW OF EUT (FIGURE 2)



### INTERNAL VIEW OF EUT (FIGURE 3)



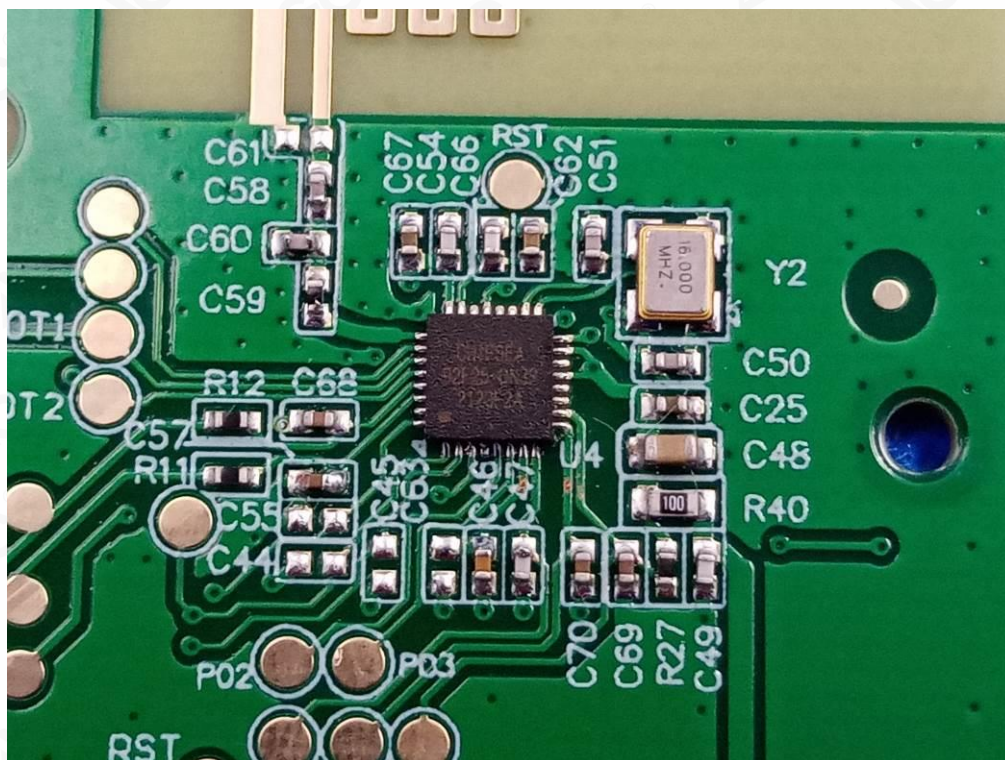
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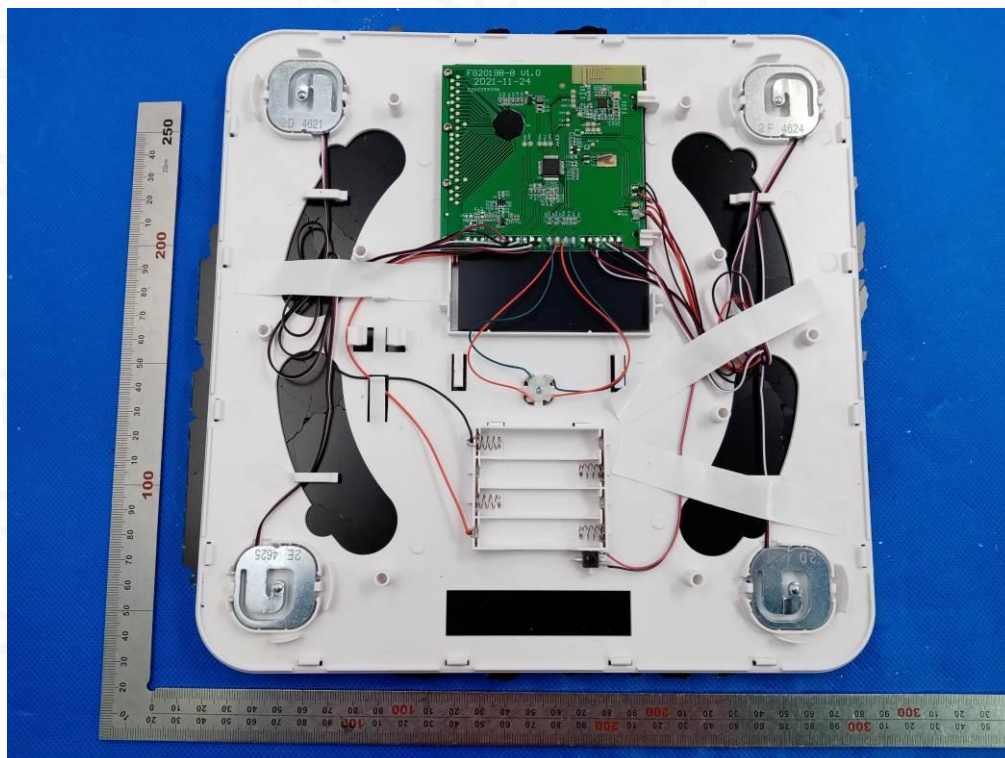




INTERNAL VIEW OF EUT (FIGURE 4)



INTERNAL VIEW OF EUT (FIGURE 5)



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# INTERNAL VIEW OF EUT (FIGURE 6)



-----END OF REPORT-----

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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# FCC Test Report

Report No.: AGC06164220201FE02

**FCC ID** : 2AP3Q-FI2019LB-B

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Smart Body Fat Scale

**BRAND NAME** : N/A

**MODEL NAME** : FI2019LB-B, FG2019LB-B, FI2019LB, FG2019LB,  
FI2019LB-A, FG2019LB-A

**APPLICANT** : Guangdong Welland Technology Co., Ltd.

**DATE OF ISSUE** : Feb. 23, 2022

**STANDARD(S)** : FCC Part 15.247

**REPORT VERSION** : V1.0

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### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Feb. 23, 2022	Valid	Initial Release

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## 1. VERIFICATION OF COMPLIANCE

<b>Applicant</b>	Guangdong Welland Technology Co., Ltd.
<b>Address</b>	NO. 85 Minke East Road, Min Ying Science and Technology Park, Shiqi District , Zhongshan, Guangdong, China
<b>Manufacturer</b>	Guangdong Welland Technology Co., Ltd.
<b>Address</b>	NO. 85 Minke East Road, Min Ying Science and Technology Park, Shiqi District , Zhongshan, Guangdong, China
<b>Factory</b>	Guangdong Welland Technology Co., Ltd.
<b>Address</b>	NO. 85 Minke East Road, Min Ying Science and Technology Park, Shiqi District , Zhongshan, Guangdong, China
<b>Product Designation</b>	Smart Body Fat Scale
<b>Brand Name</b>	N/A
<b>Test Model</b>	FI2019LB-B
<b>Series Model</b>	FG2019LB-B, FI2019LB, FG2019LB, FI2019LB-A, FG2019LB-A
<b>Declaration of Difference</b>	All the series models are the same as the test model except for the model names and the color of appearance.
<b>Date of test</b>	Feb. 18, 2022 to Feb. 23, 2022
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-BLE/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By



Kelly Cheng  
(Project Engineer)

Feb. 23, 2022

Reviewed By



Calvin Liu  
(Reviewer)

Feb. 23, 2022

Approved By



Forrest Lei  
(Authorized Officer)

Feb. 23, 2022

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as a “Smart Body Fat Scale”. It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-1.617dBm (Max)
Bluetooth Version	V5.0
Modulation	BR <input type="checkbox"/> GFSK, EDR <input type="checkbox"/> π/4-DQPSK, <input type="checkbox"/> 8DPSK BLE <input checked="" type="checkbox"/> GFSK 1Mbps <input type="checkbox"/> GFSK 2Mbps
Number of channels	40 Channel
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	0.89dBi
Hardware Version	V1.0
Software Version	V1.0.0
Power Supply	DC 6V by battery

### 2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHz	0	2402 MHz
	1	2404 MHz
	:	:
	38	2478 MHz
	39	2480 MHz

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### 2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AP3Q-FI2019LB-B** filing to comply with the FCC Part 15.247 requirements.

### 2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

### 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

### 2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.  
For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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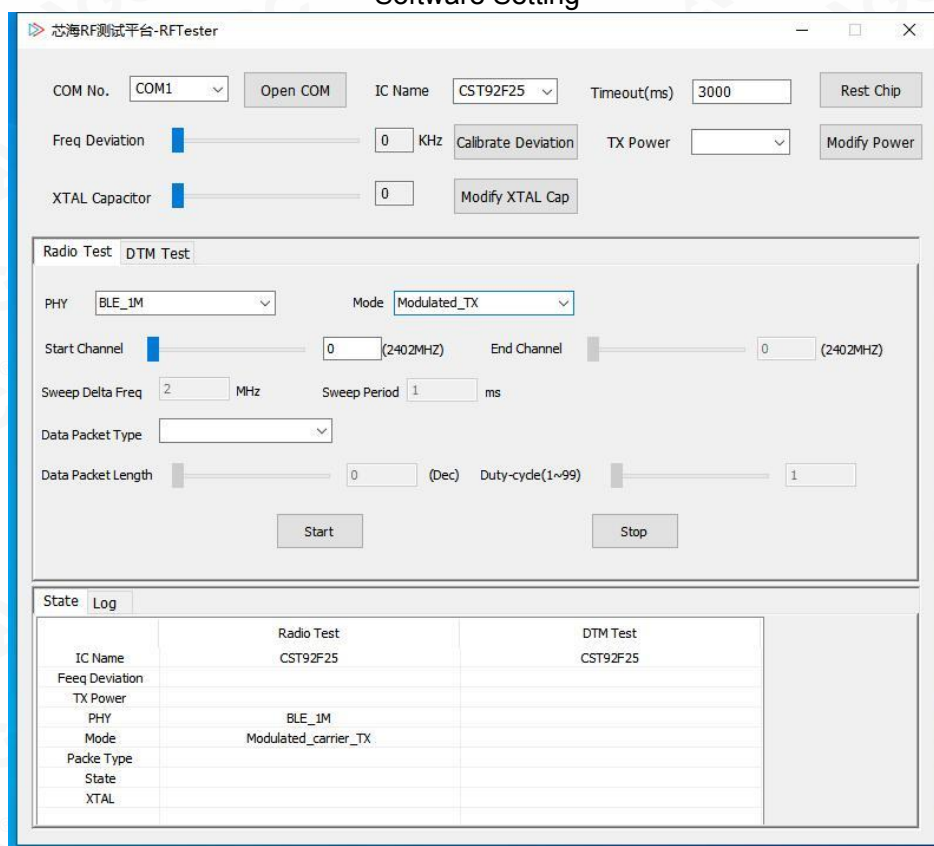
#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

#### Software Setting



The screenshot shows the RFTester software interface with the following settings:

- COM No.: COM1, Open COM button
- IC Name: CST92F25, Timeout(ms): 3000, Rest Chip button
- Freq Deviation: 0 KHz, Calibrate Deviation button
- TX Power: (dropdown), Modify Power button
- XTAL Capacitor: 0, Modify XTAL Cap button
- Radio Test: DTM Test tab selected
- PHY: BLE\_1M, Mode: Modulated\_TX
- Start Channel: 0 (2402MHz), End Channel: 0 (2402MHz)
- Sweep Delta Freq: 2 MHz, Sweep Period: 1 ms
- Data Packet Type: (dropdown)
- Data Packet Length: 0 (Dec), Duty-cycle(1~99): 1
- Start and Stop buttons
- State Log table:

	Radio Test	DTM Test
IC Name	CST92F25	CST92F25
Freq Deviation		
TX Power		
PHY	BLE_1M	
Mode	Modulated_carrier_TX	
Packe Type		
State		
XTAL		

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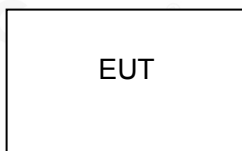
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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



### 5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Smart Body Fat Scale	FI2019LB-B	2AP3Q-FI2019LB-B	EUT

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Not applicable

Note: The dry Battery-powered, no emissions testing

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## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA

## TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2021	May 14, 2022
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2022
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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## 7. PEAK OUTPUT POWER

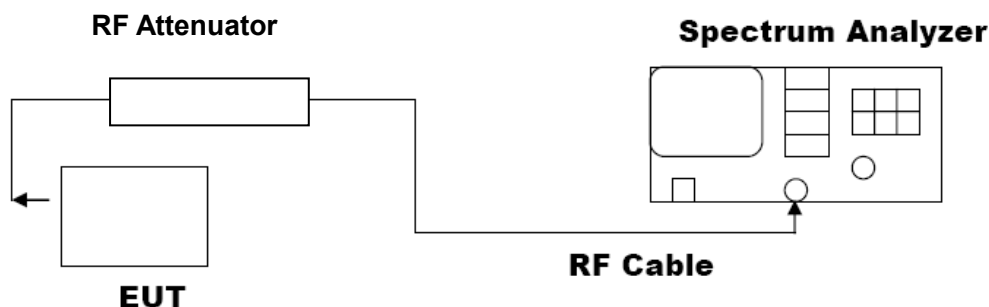
### 7.1. MEASUREMENT PROCEDURE

For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2.  $RBW \geq DTS$  bandwidth
3.  $VBW \geq 3 * RBW$ .
4.  $SPAN \geq VBW$ .
5. Sweep: Auto.
6. Detector function: Peak.
7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

### 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



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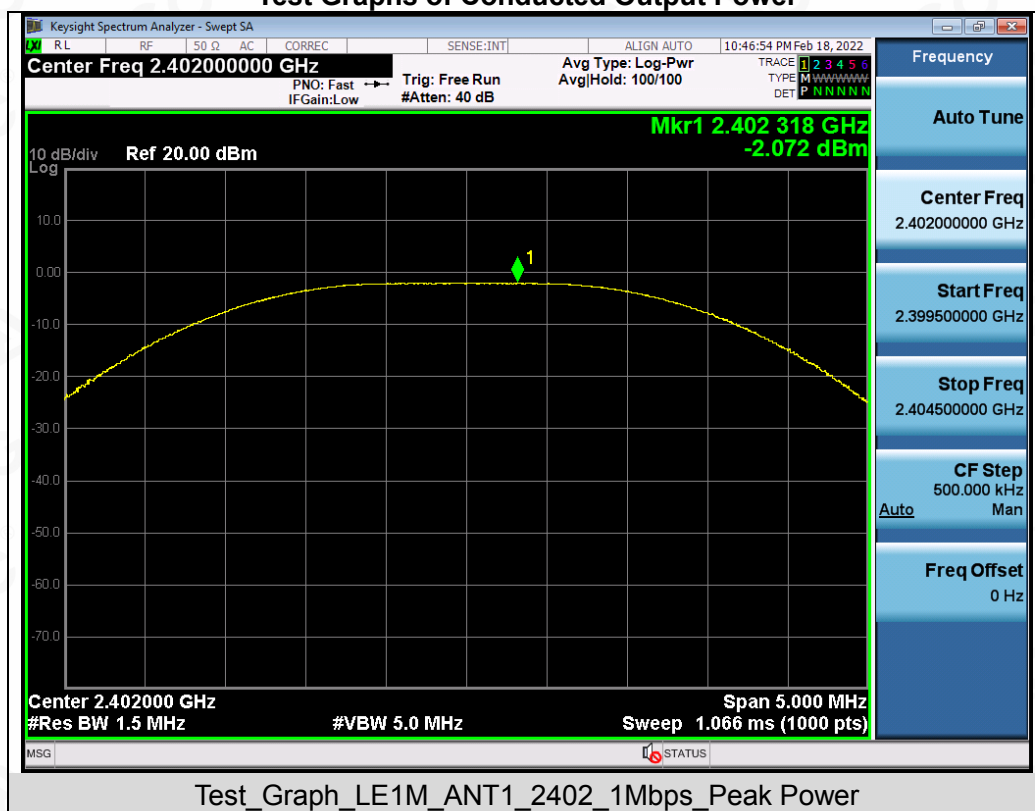
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### 7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power				
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK 1M	2402	-2.072	$\leq 30$	Pass
	2440	-1.904	$\leq 30$	Pass
	2480	-1.617	$\leq 30$	Pass

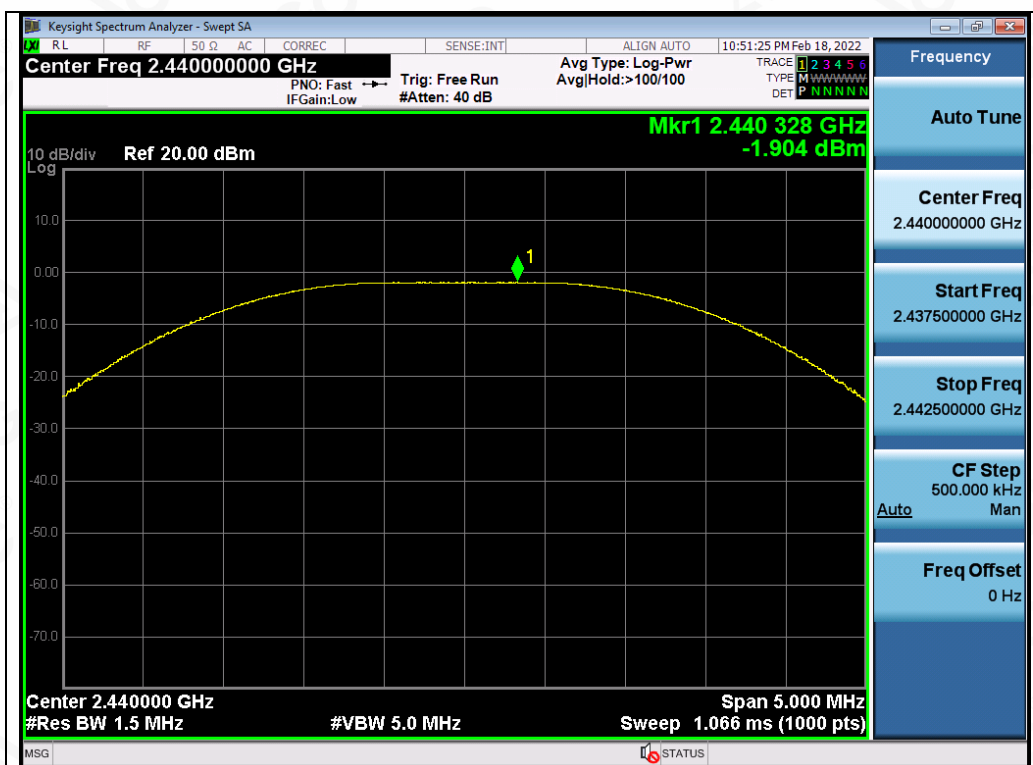
### Test Graphs of Conducted Output Power



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## 8. BANDWIDTH

### 8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW $\geq 3 \times$  RBW.
4. Set SPA Trace 1 Max hold, then View.

Occupied bandwidth:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel  
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

### 8.3. LIMITS AND MEASUREMENT RESULTS

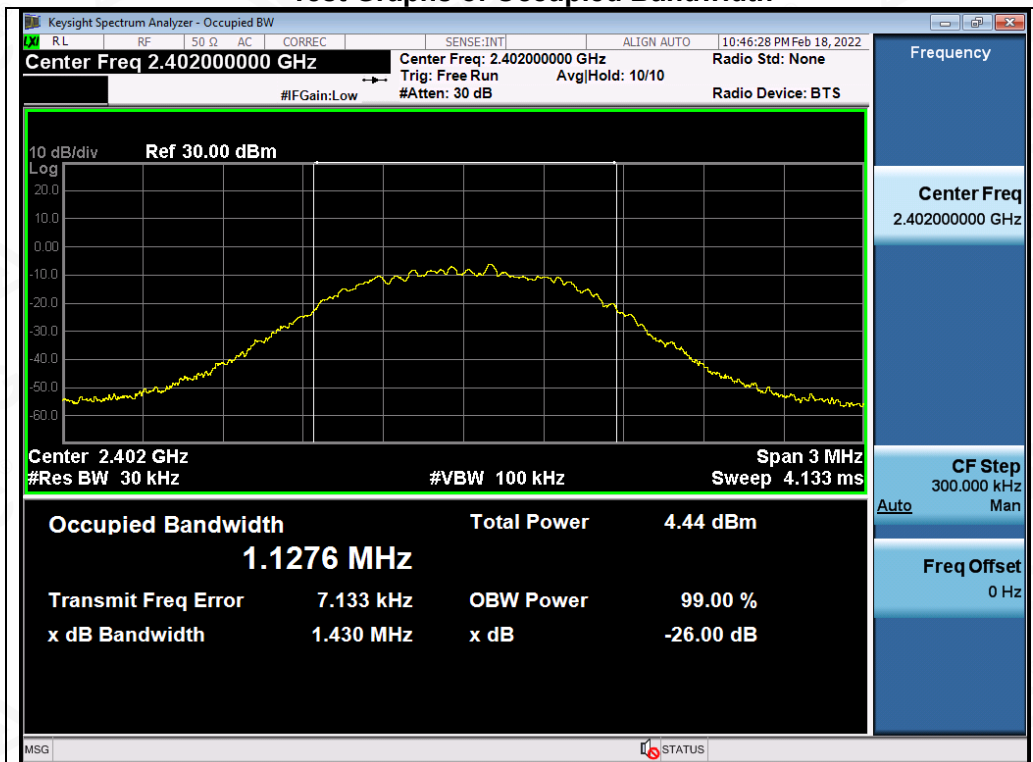
Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
GFSK 1M	2402	1.128	0.898	$\geq 0.5$	Pass
	2440	1.141	0.900	$\geq 0.5$	Pass
	2480	1.156	0.894	$\geq 0.5$	Pass

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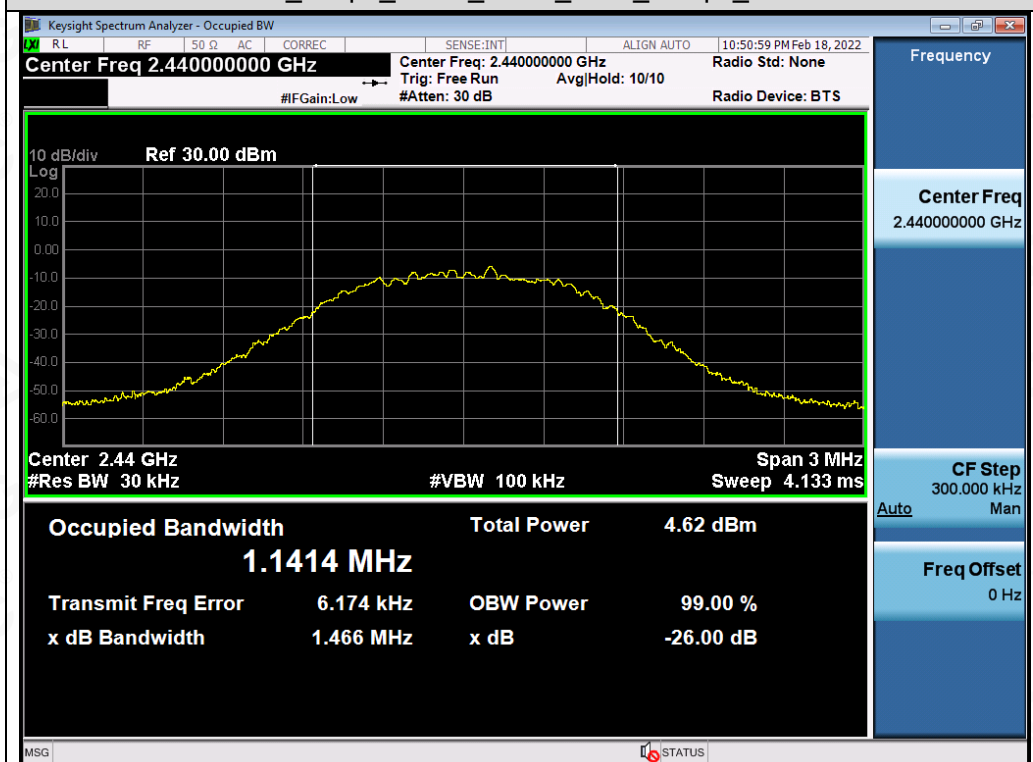
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### Test Graphs of Occupied Bandwidth



Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_OBW

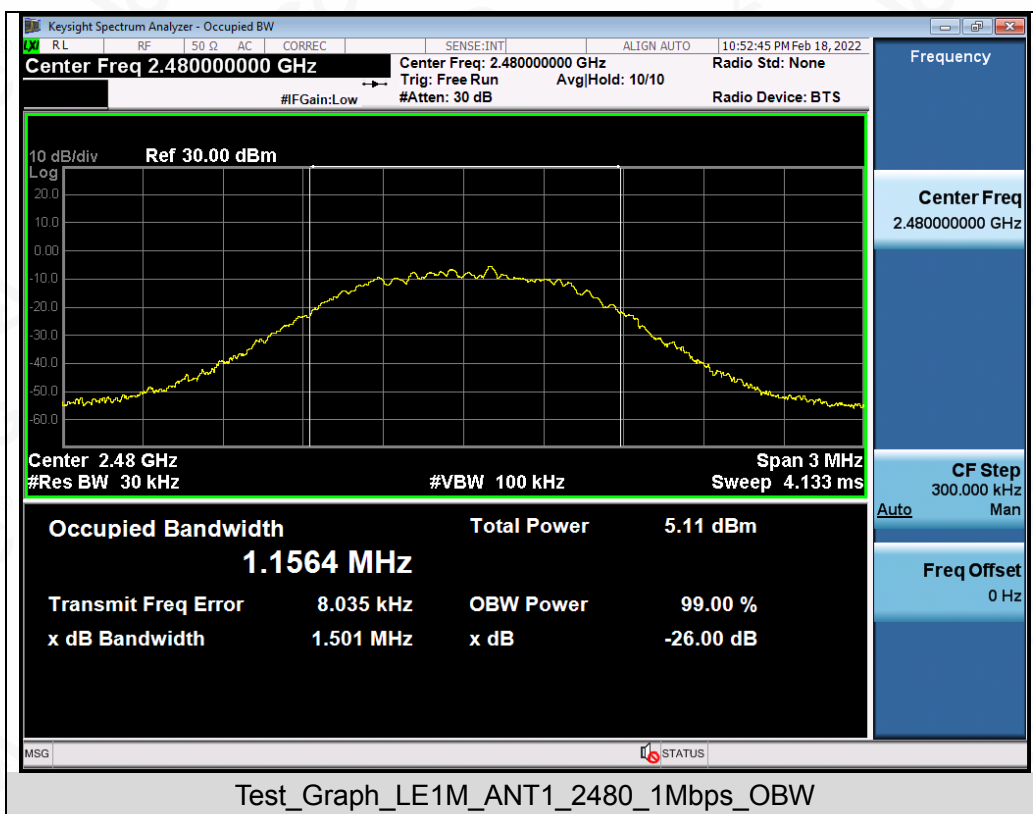


Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_OBW

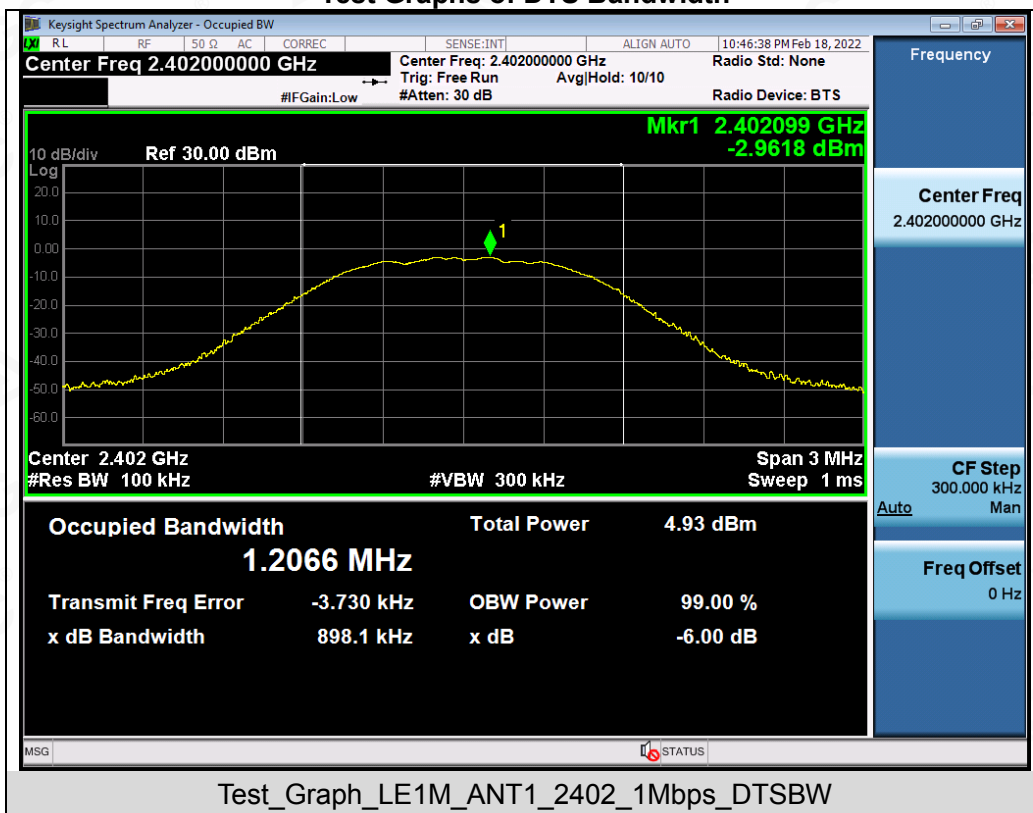
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Test Graphs of DTS Bandwidth



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Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_DTSBW



Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_DTSBW

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## 9. CONDUCTED SPURIOUS EMISSION

### 9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

### 9.4. LIMITS AND MEASUREMENT RESULT

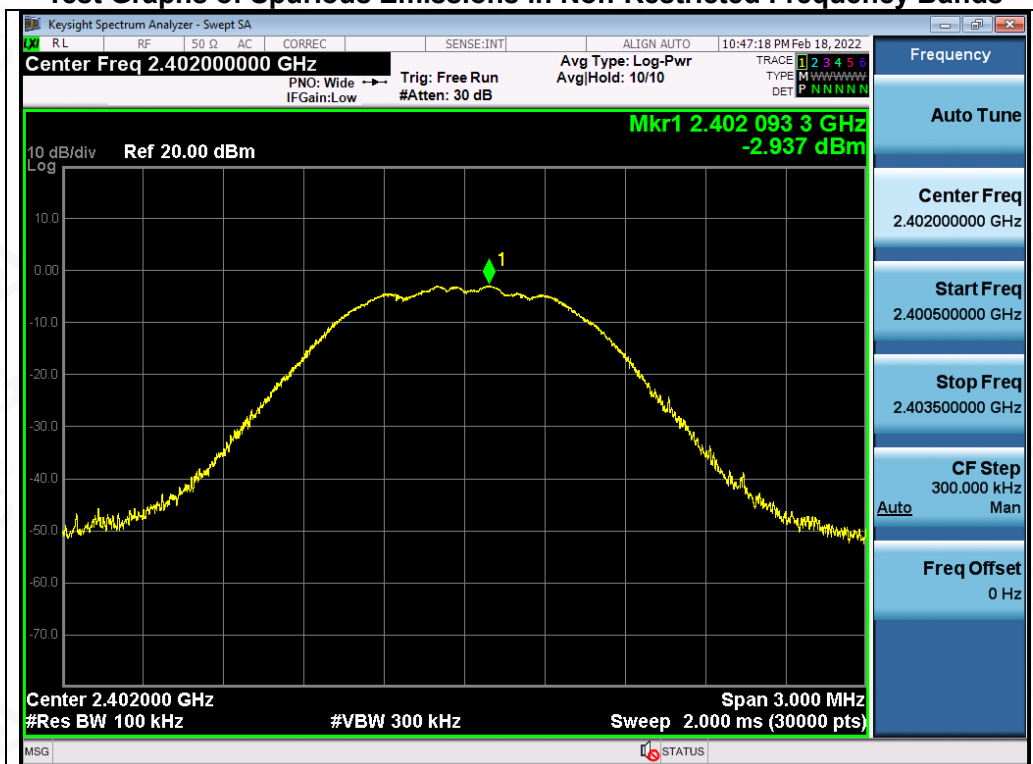
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS

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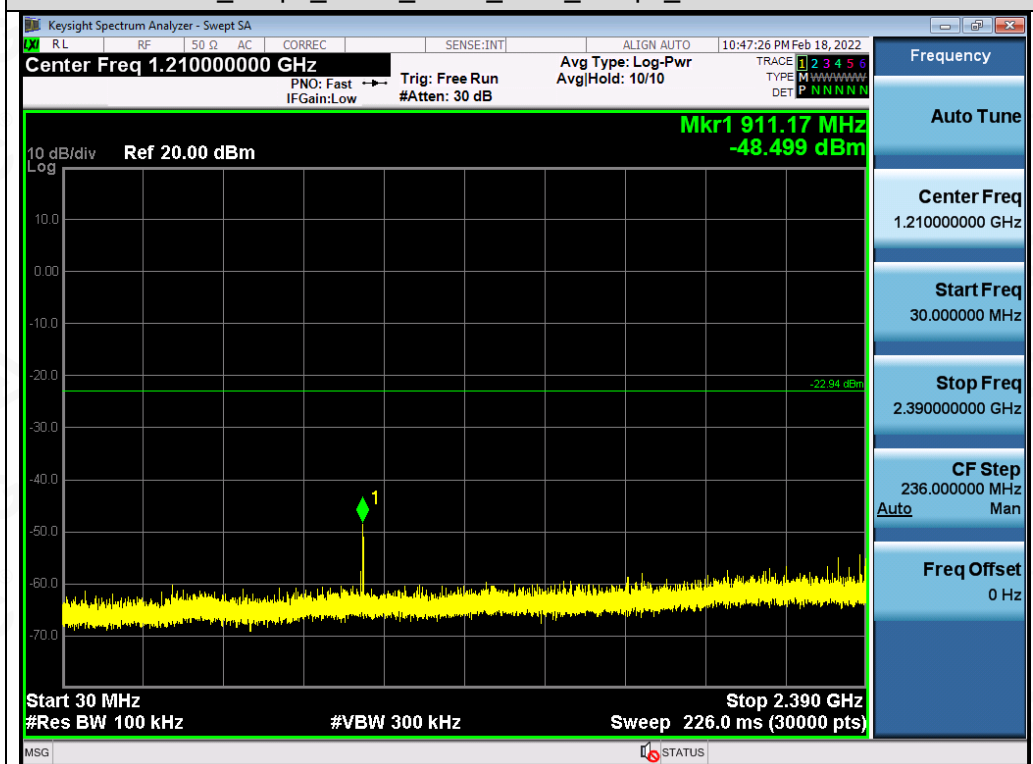
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### Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Reference Level



Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Lower Band Emissions

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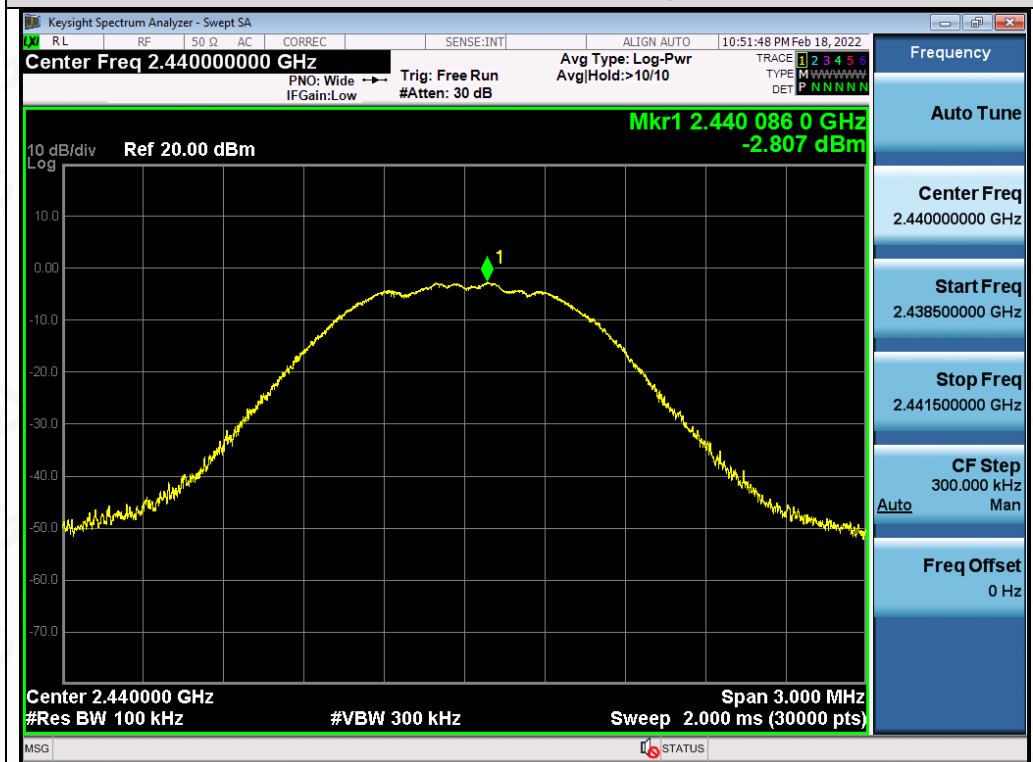
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Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Higher Band Emissions

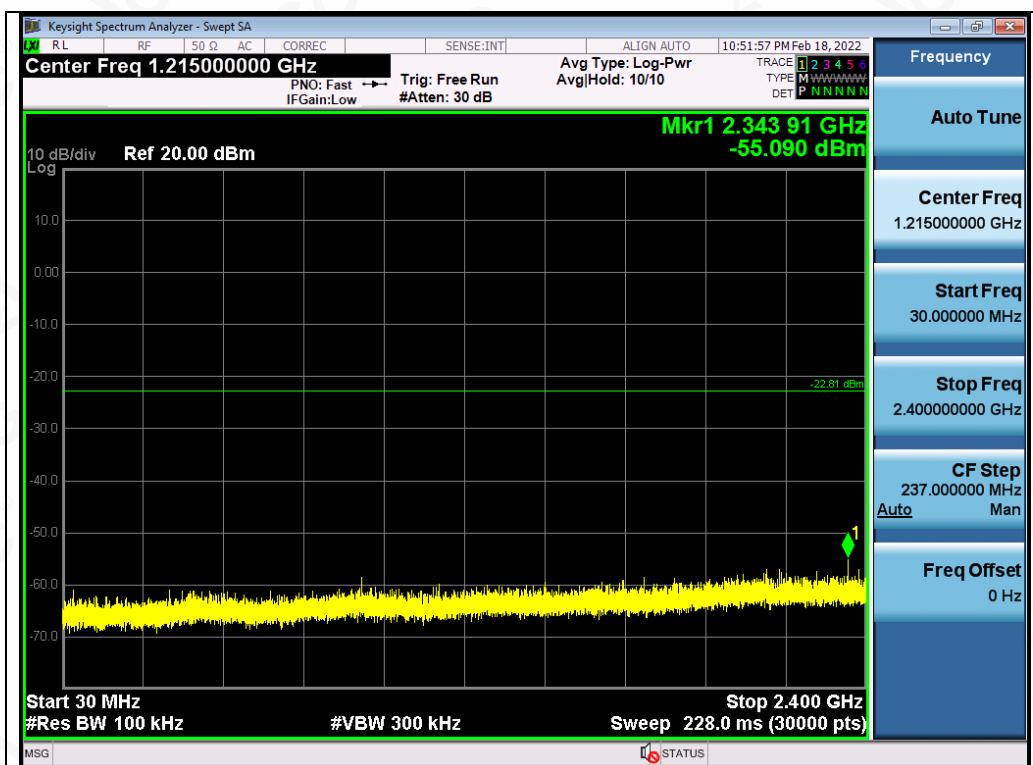


Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_Reference Level

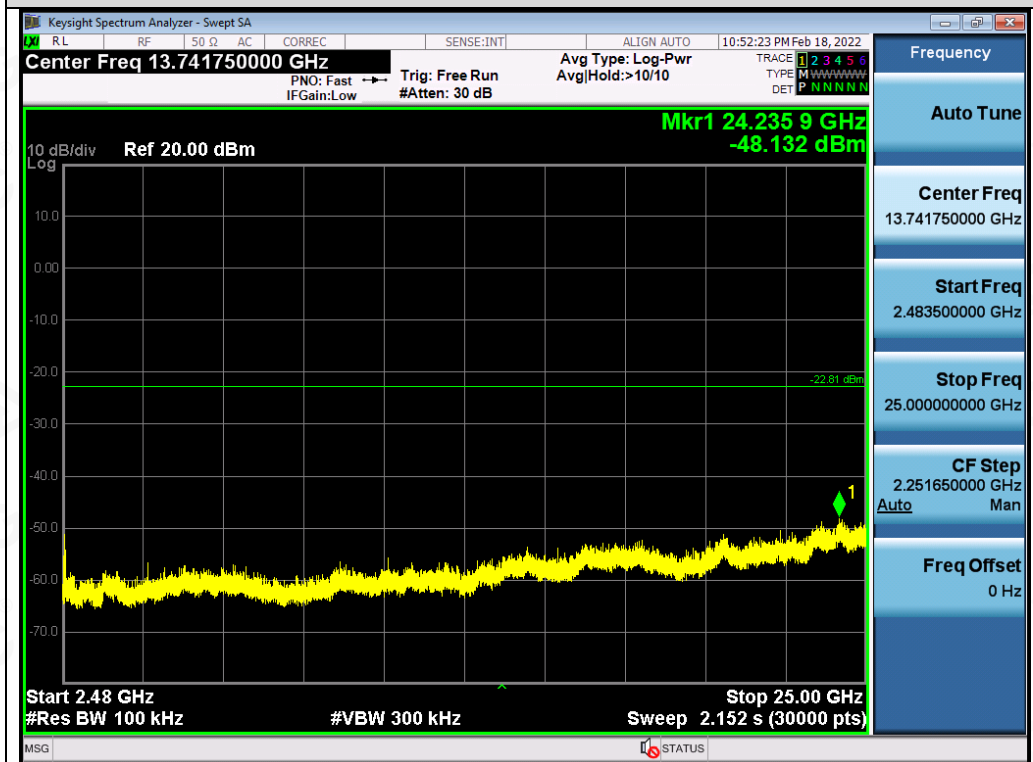
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Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_Lower Band Emissions

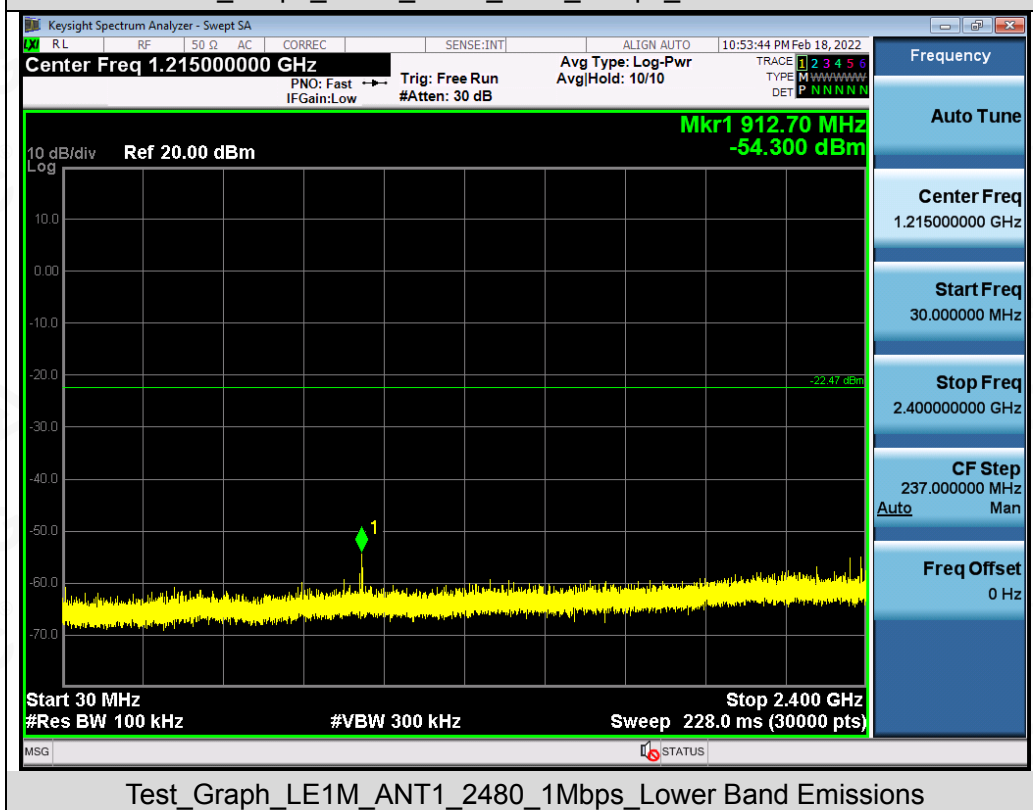
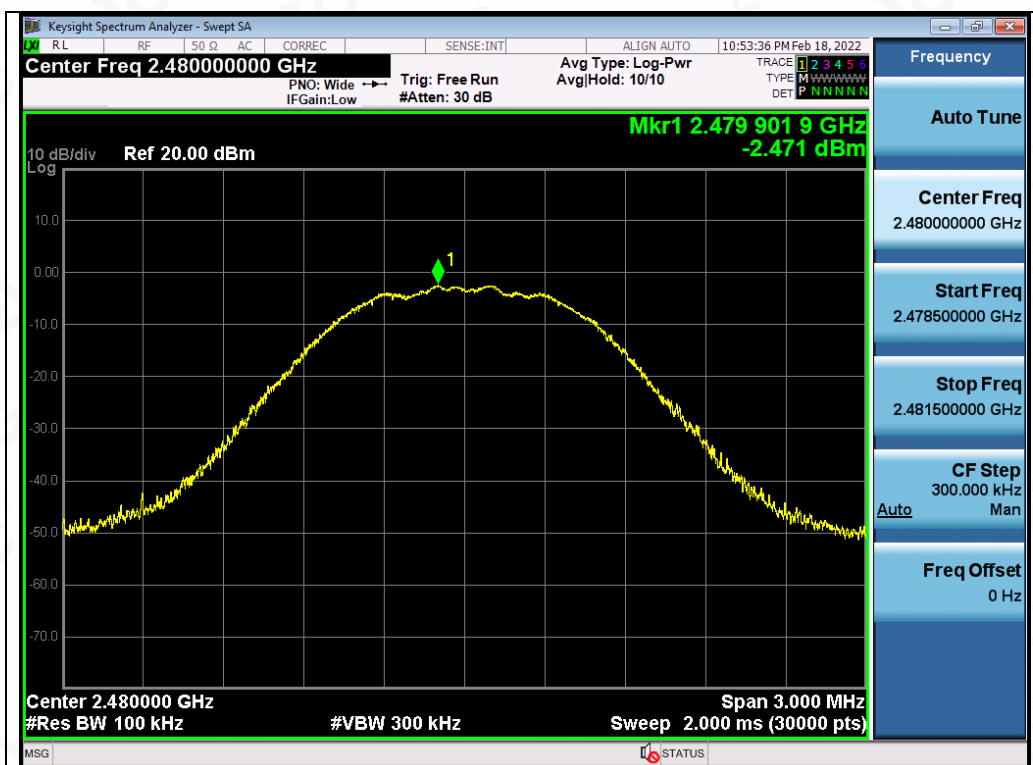


Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_Higher Band Emissions

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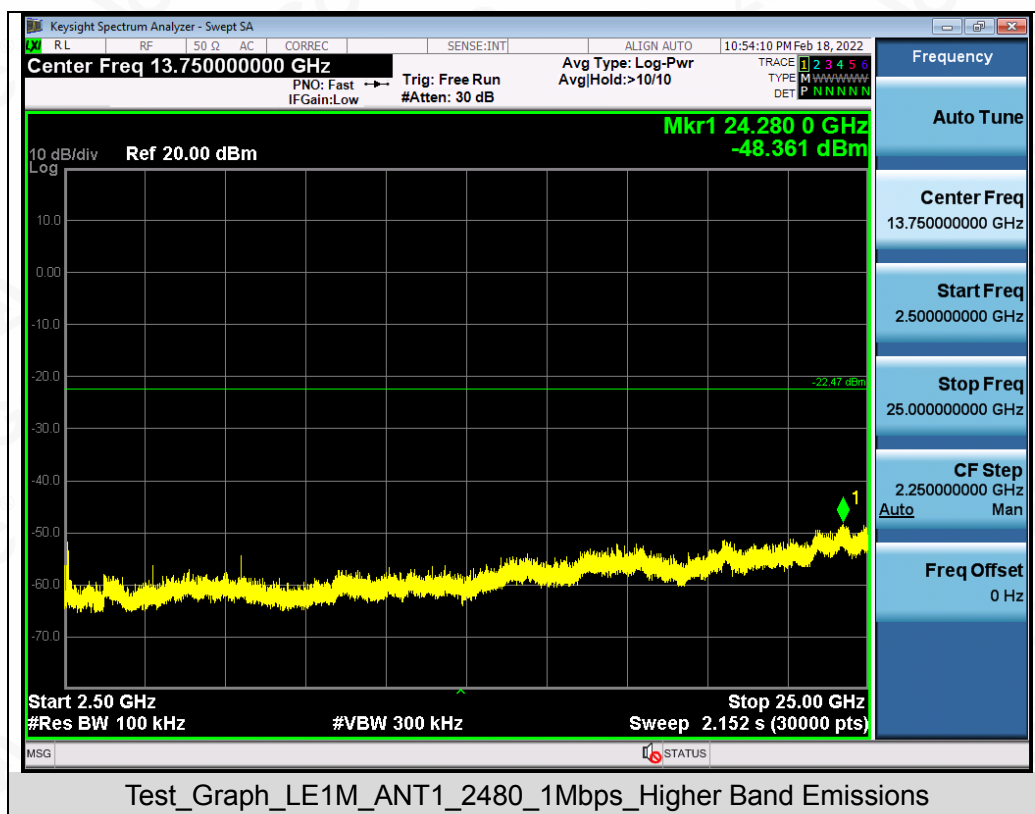


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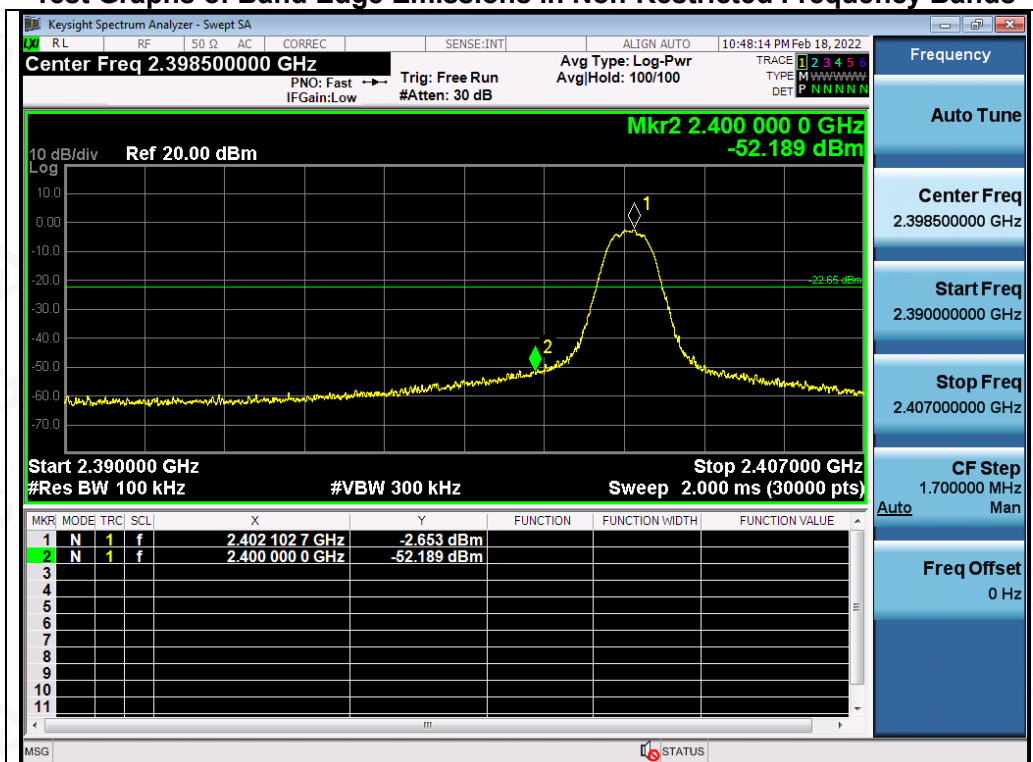


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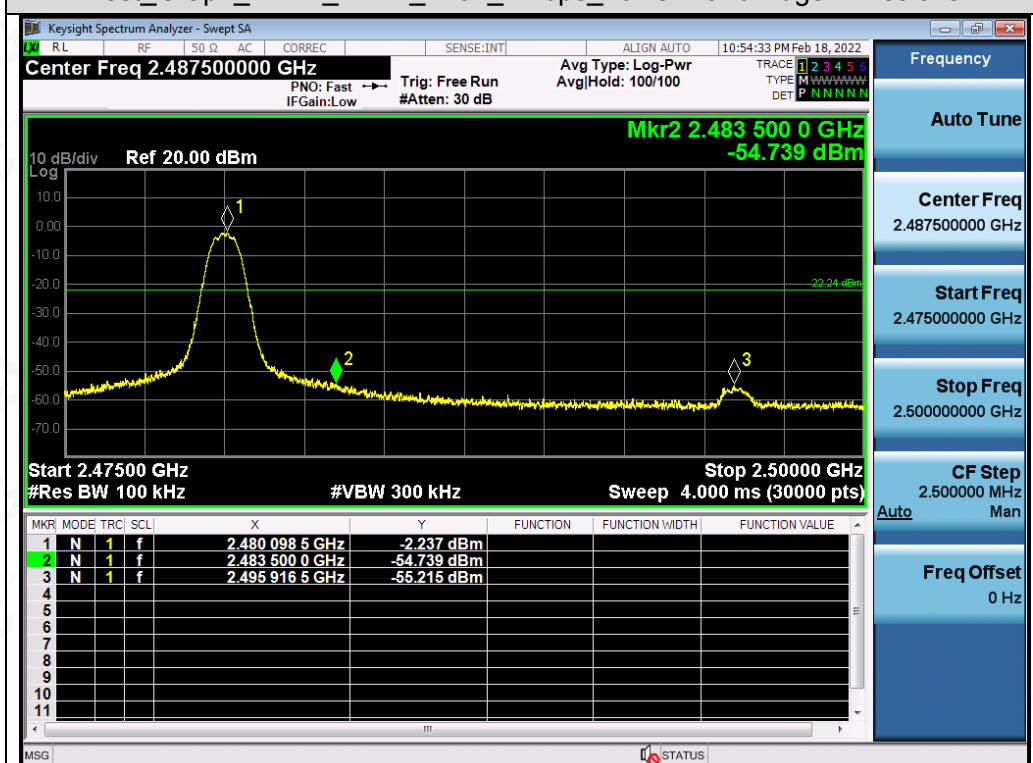
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### Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Lower Band Edge Emissions



Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_Higher Band Edge Emissions

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## 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

### 10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 8.4 was used in this testing.

### 10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 7.2.

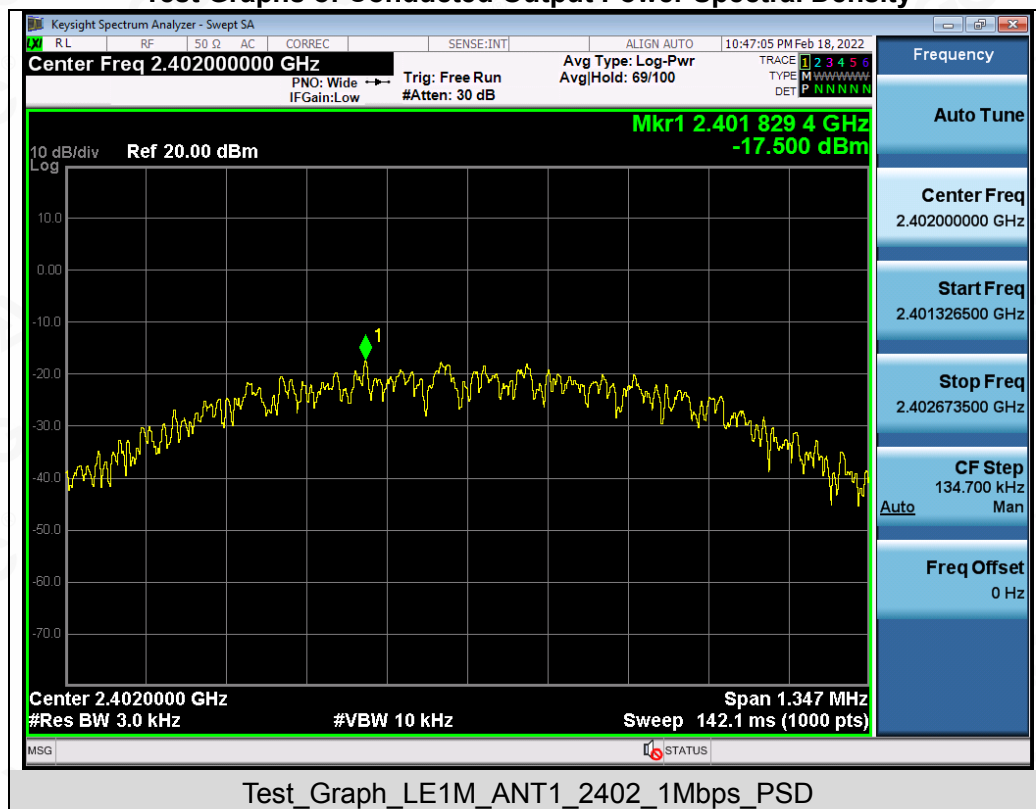
### 10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

### 10.4. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Spectral Density				
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
GFSK 1M	2402	-17.500	$\leq 8$	Pass
	2440	-17.424	$\leq 8$	Pass
	2480	-16.991	$\leq 8$	Pass

Test Graphs of Conducted Output Power Spectral Density

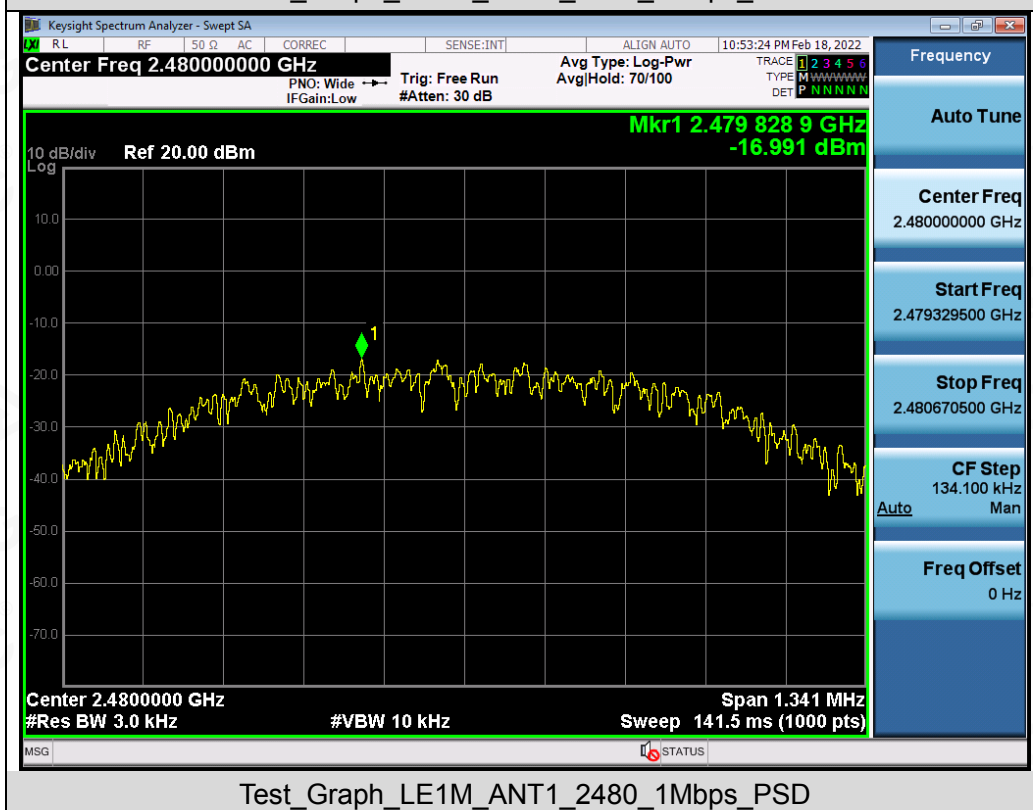
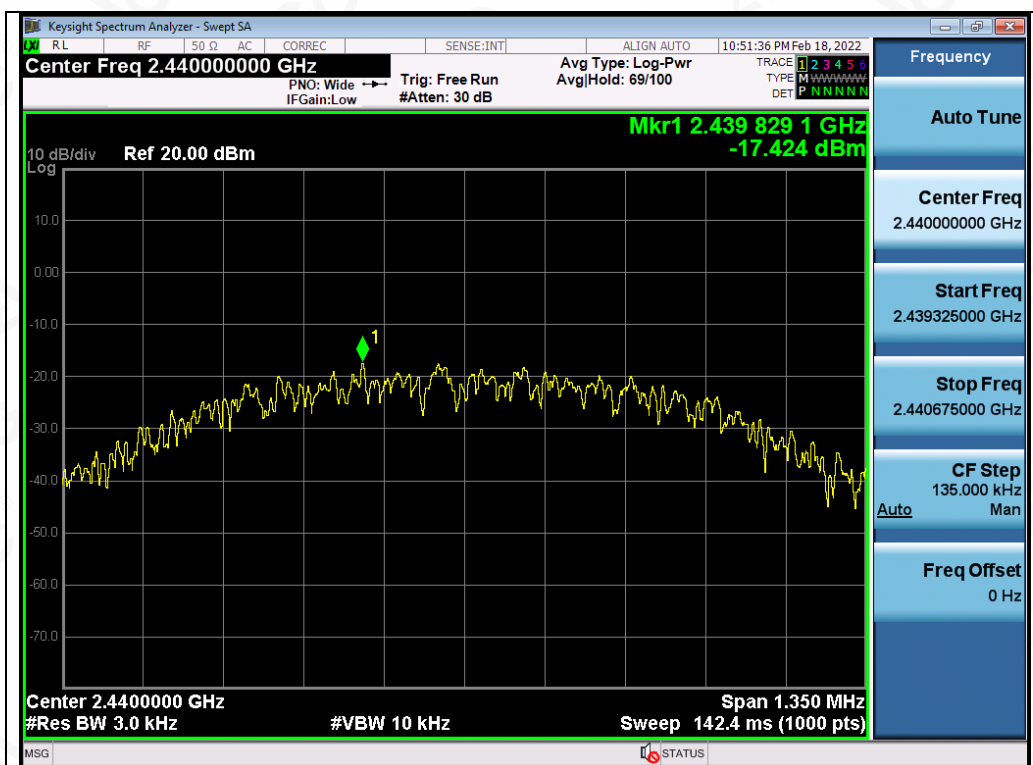


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## 11. RADIATED EMISSION

### 11.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. 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. 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.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

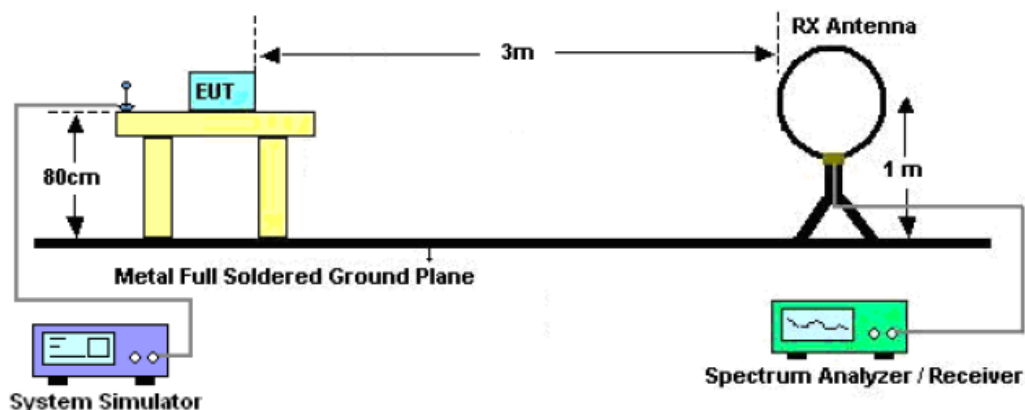
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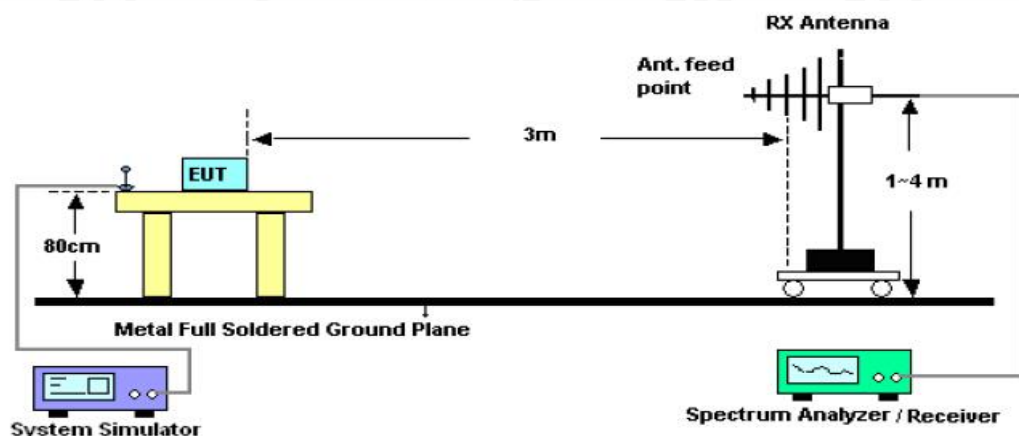


## 11.2. TEST SETUP

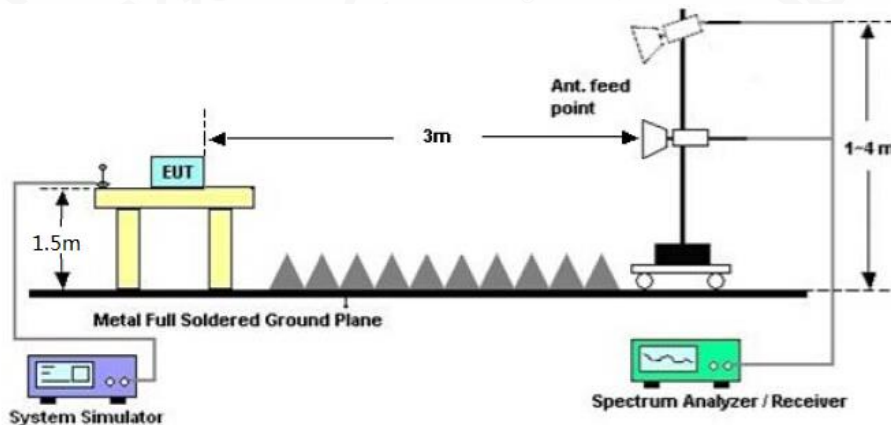
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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### 11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (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

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

### 11.4. TEST RESULT

#### Radiated emission below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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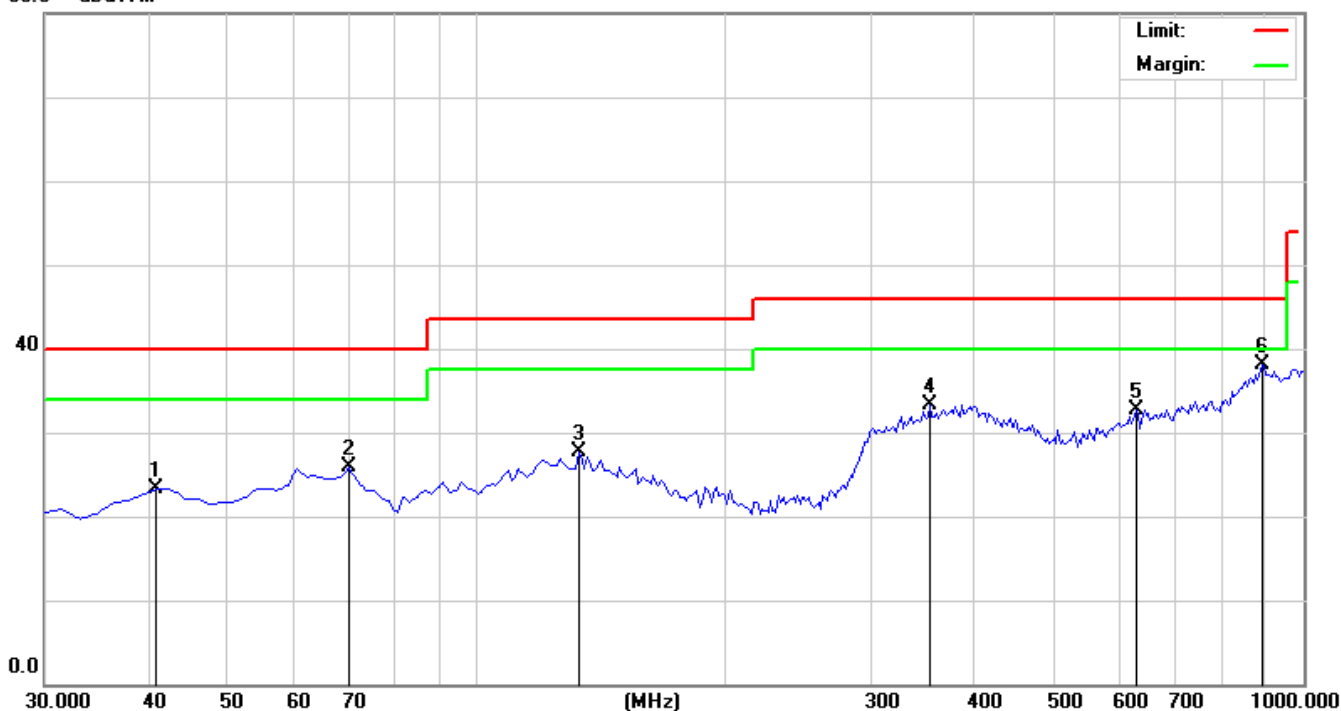
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### Radiated emission from 30MHz to 1000MHz

<b>EUT</b>	Smart Body Fat Scale	<b>Model Name</b>	FI2019LB-B
<b>Temperature</b>	21.8° C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Horizontal

80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		40.8924	13.29	9.97	23.26	40.00	-16.74	peak
2		70.4167	13.99	11.94	25.93	40.00	-14.07	peak
3		133.4667	14.93	12.75	27.68	43.50	-15.82	peak
4		354.9500	15.58	17.67	33.25	46.00	-12.75	peak
5		629.7833	15.47	17.31	32.78	46.00	-13.22	peak
6	*	893.3000	15.39	22.64	38.03	46.00	-7.97	peak

**RESULT: PASS**

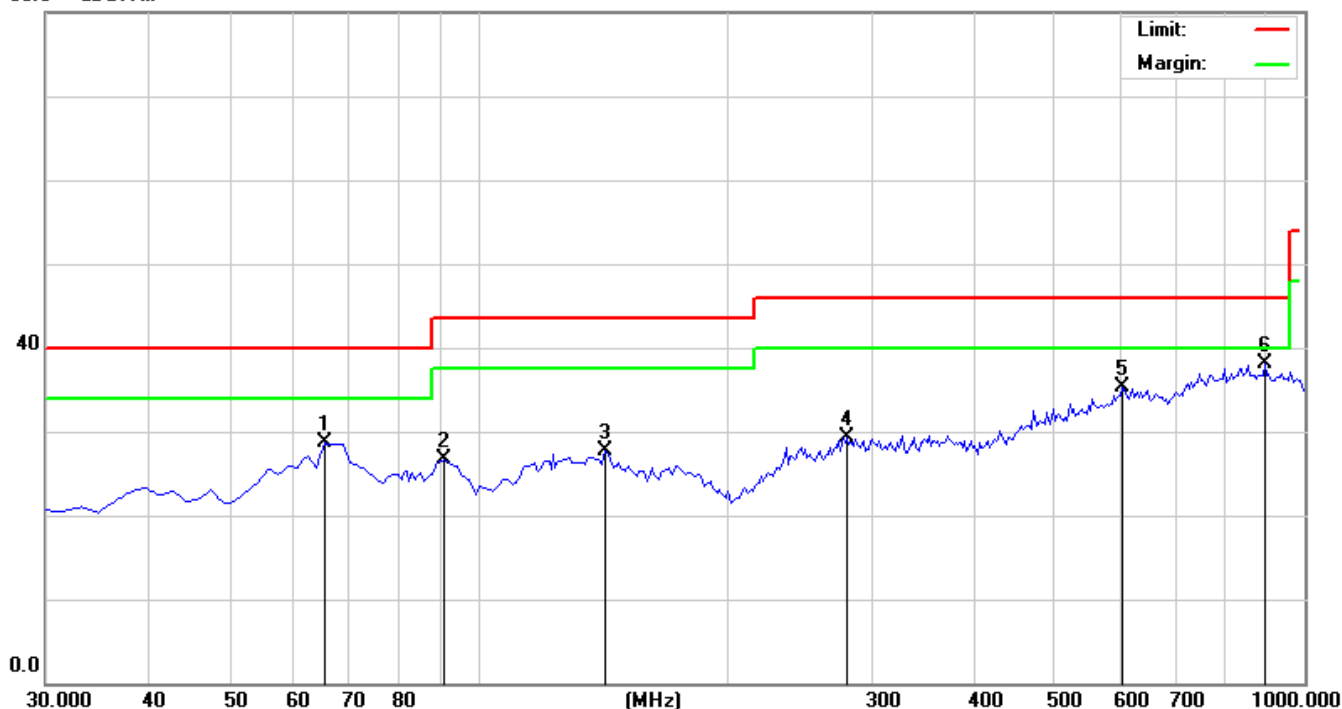
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EUT	Smart Body Fat Scale	Model Name	FI2019LB-B
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		65.5666	16.61	12.00	28.61	40.00	-11.39	peak
2		91.4333	17.00	9.70	26.70	43.50	-16.80	peak
3		143.1666	14.86	12.91	27.77	43.50	-15.73	peak
4		280.5833	14.39	14.93	29.32	46.00	-16.68	peak
5		603.9166	15.29	19.96	35.25	46.00	-10.75	peak
6	*	899.7667	15.39	22.64	38.03	46.00	-7.97	peak

## RESULT: PASS

### Note:

- Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.
- All test modes had been tested. The mode 3 is the worst case and recorded in the report.

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### Radiated emission above 1GHz

<b>EUT</b>	Smart Body Fat Scale	<b>Model Name</b>	FI2019LB-B
<b>Temperature</b>	21.8° C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	43.46	0.08	43.54	74	-30.46	peak
4804.000	35.35	0.08	35.43	54	-18.57	AVG
7206.000	38.64	2.21	40.85	74	-33.15	peak
7206.000	31.27	2.21	33.48	54	-20.52	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	Smart Body Fat Scale	<b>Model Name</b>	FI2019LB-B
<b>Temperature</b>	21.8° C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 1	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	44.41	0.08	44.49	74	-29.51	peak
4804.000	34.87	0.08	34.95	54	-19.05	AVG
7206.000	38.25	2.21	40.46	74	-33.54	peak
7206.000	30.66	2.21	32.87	54	-21.13	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	Smart Body Fat Scale	<b>Model Name</b>	FI2019LB-B
<b>Temperature</b>	21.8° C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 2	<b>Antenna</b>	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4880.000	44.68	0.14	44.82	74	-29.18	peak
4880.000	35.72	0.14	35.86	54	-18.14	AVG
7320.000	39.75	2.36	42.11	74	-31.89	peak
7320.000	31.57	2.36	33.93	54	-20.07	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	Smart Body Fat Scale	<b>Model Name</b>	FI2019LB-B
<b>Temperature</b>	21.8° C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 2	<b>Antenna</b>	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4880.000	45.14	0.14	45.28	74	-28.72	peak
4880.000	38.08	0.14	38.22	54	-15.78	AVG
7320.000	40.42	2.36	42.78	74	-31.22	peak
7320.000	32.47	2.36	34.83	54	-19.17	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	Smart Body Fat Scale	<b>Model Name</b>	FI2019LB-B
<b>Temperature</b>	21.8° C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.000	44.69	0.22	44.91	74	-29.09	peak
4960.000	35.44	0.22	35.66	54	-18.34	AVG
7440.000	38.77	2.64	41.41	74	-32.59	peak
7440.000	29.42	2.64	32.06	54	-21.94	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	Smart Body Fat Scale	<b>Model Name</b>	FI2019LB-B
<b>Temperature</b>	21.8° C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Antenna</b>	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960.000	42.89	0.22	43.11	74	-30.89	peak
4960.000	34.07	0.22	34.29	54	-19.71	AVG
7440.000	38.62	2.64	41.26	74	-32.74	peak
7440.000	29.77	2.64	32.41	54	-21.59	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

## RESULT: PASS

### Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Level-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

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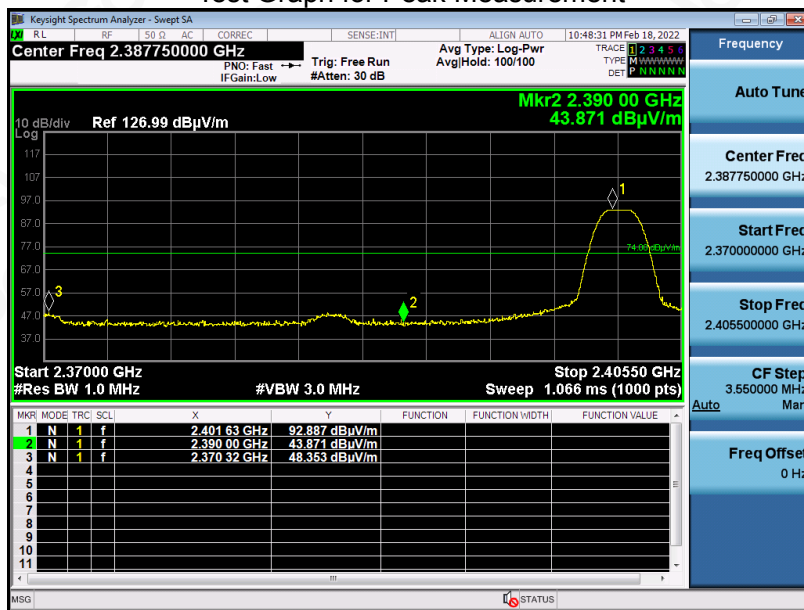




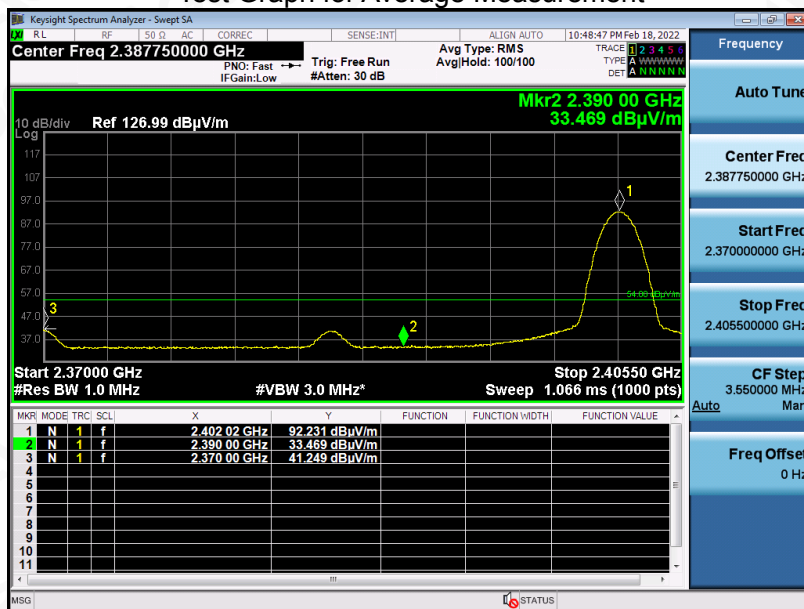
### Test result for band edge emission at restricted bands

EUT	Smart Body Fat Scale	Model Name	FI2019LB-B
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

### Test Graph for Peak Measurement



### Test Graph for Average Measurement



**RESULT: PASS**

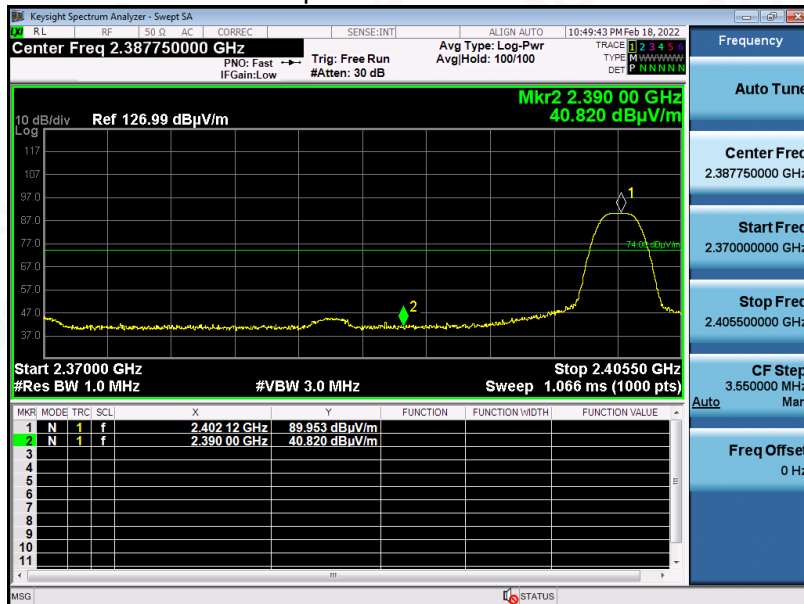
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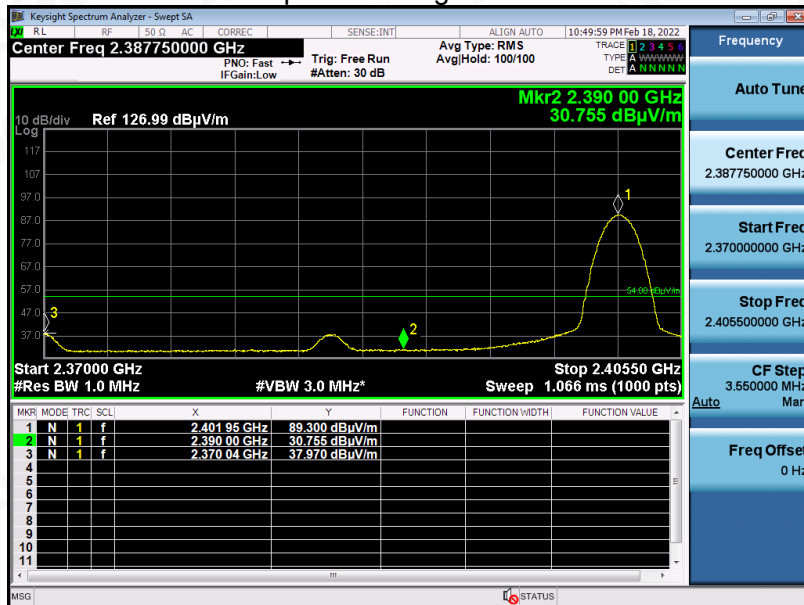


EUT	Smart Body Fat Scale	Model Name	FI2019LB-B
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

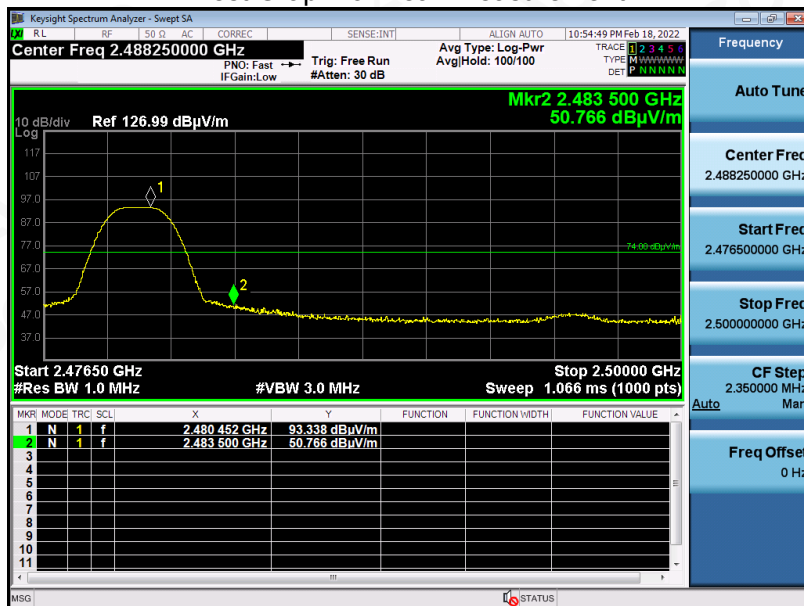
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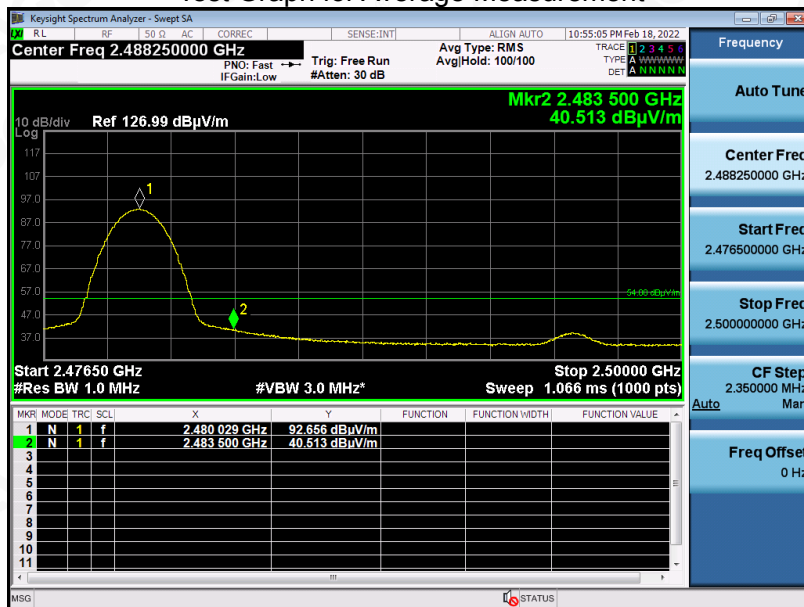


EUT	Smart Body Fat Scale	Model Name	FI2019LB-B
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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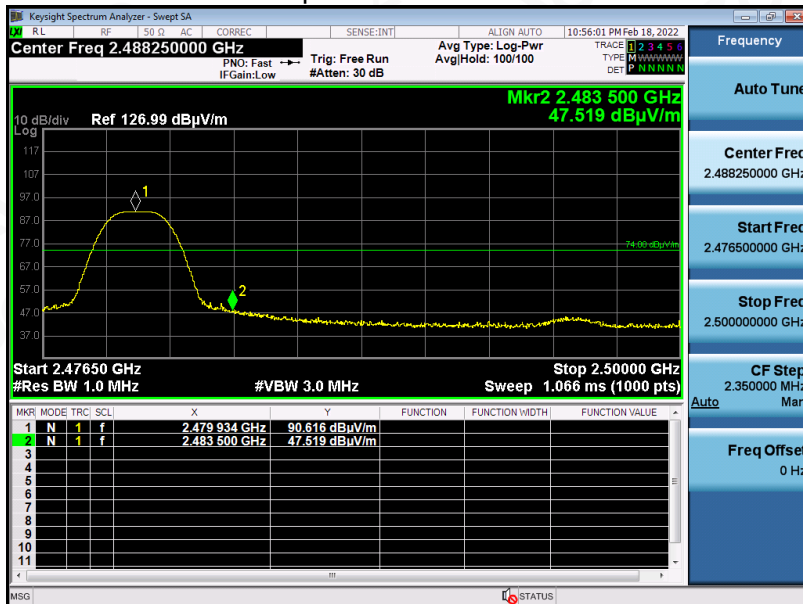
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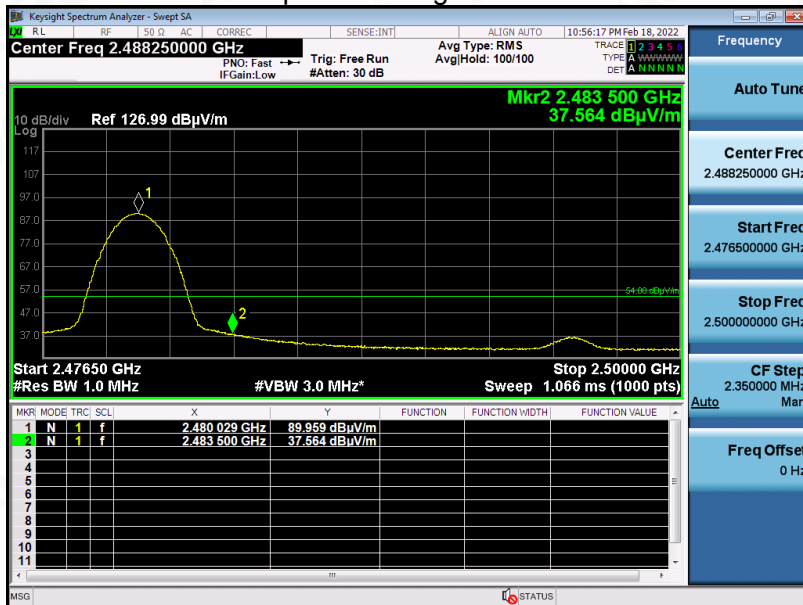


EUT	Smart Body Fat Scale	Model Name	FI2019LB-B
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



## RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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## 12. LINE CONDUCTED EMISSION TEST

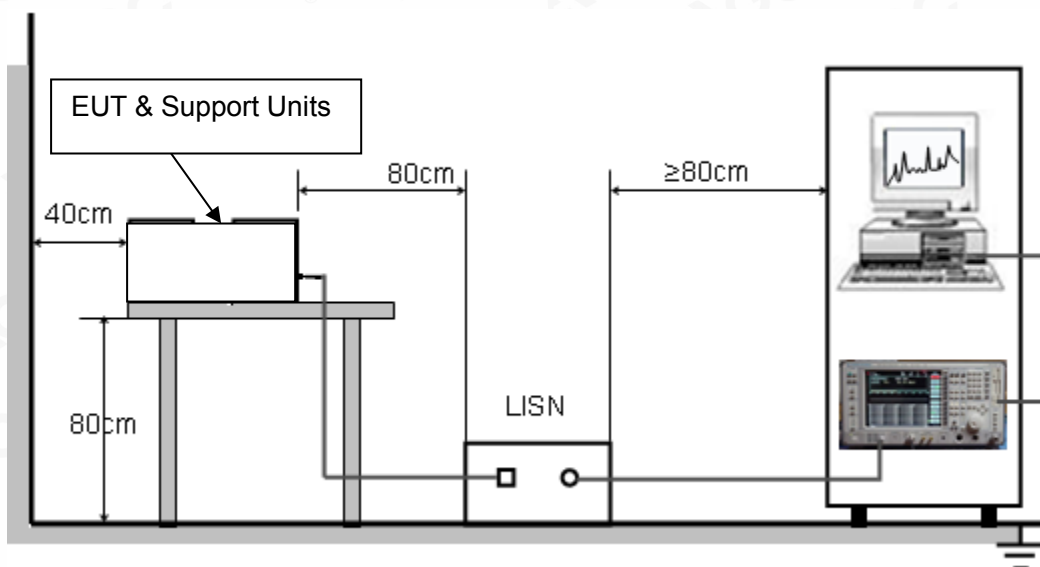
### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.( dBuV)	Average( dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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### 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The dry Battery-powered, no emissions testing





## **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

Refer to the Report No.: AGC06164220201AP01

## **APPENDIX B: PHOTOGRAPHS OF EUT**

Refer to the Report No.: AGC06164220201AP02

**----END OF REPORT----**

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4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	Smart Body Fat Scale
Test Model	FI2019LB-B
Series Model	FG2019LB-B, FI2019LB, FG2019LB, FI2019LB-A, FG2019LB-A
FCC ID	2AP3Q-FI2019LB-B

### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

Where  $f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

### 3. CALCULATION

BLE

$P_t = -1.617 \text{ dBm} = 0.69 \text{ mW}$

The value of the Maximum output power  $P_t$  is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation  $\text{SAR} = (0.69 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480(\text{GHz})}] = 0.22 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

### 4. CONCLUSION

The SAR evaluation is not required.

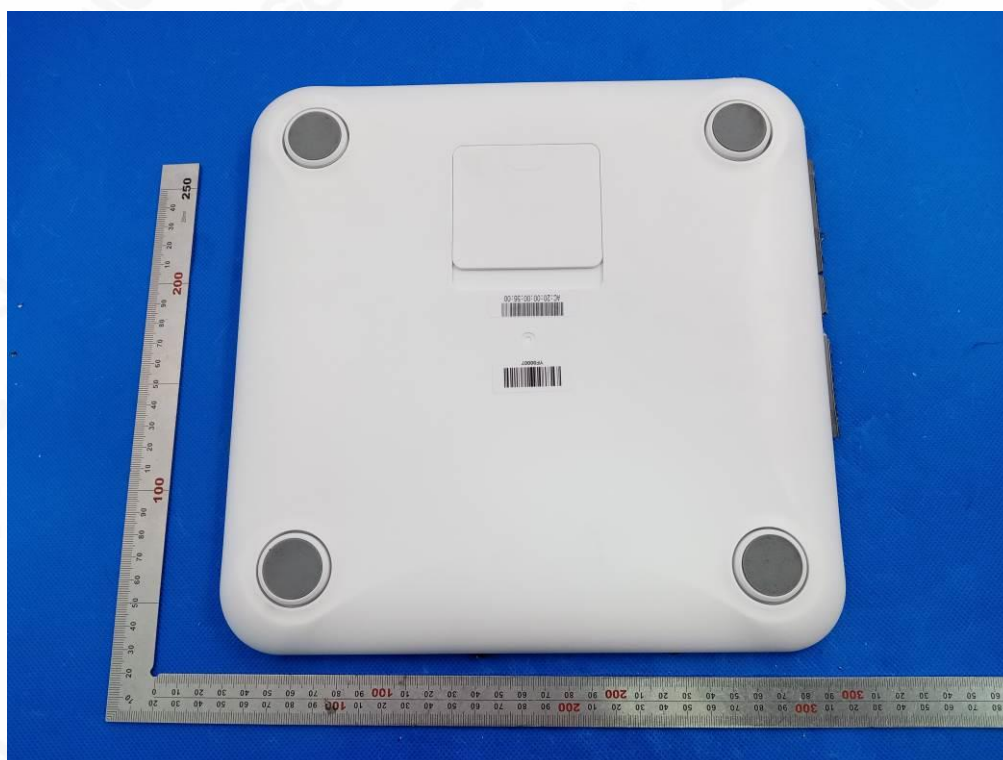


## EXTERNAL PHOTOS

### TOP VIEW OF EUT



### BOTTOM VIEW OF EUT



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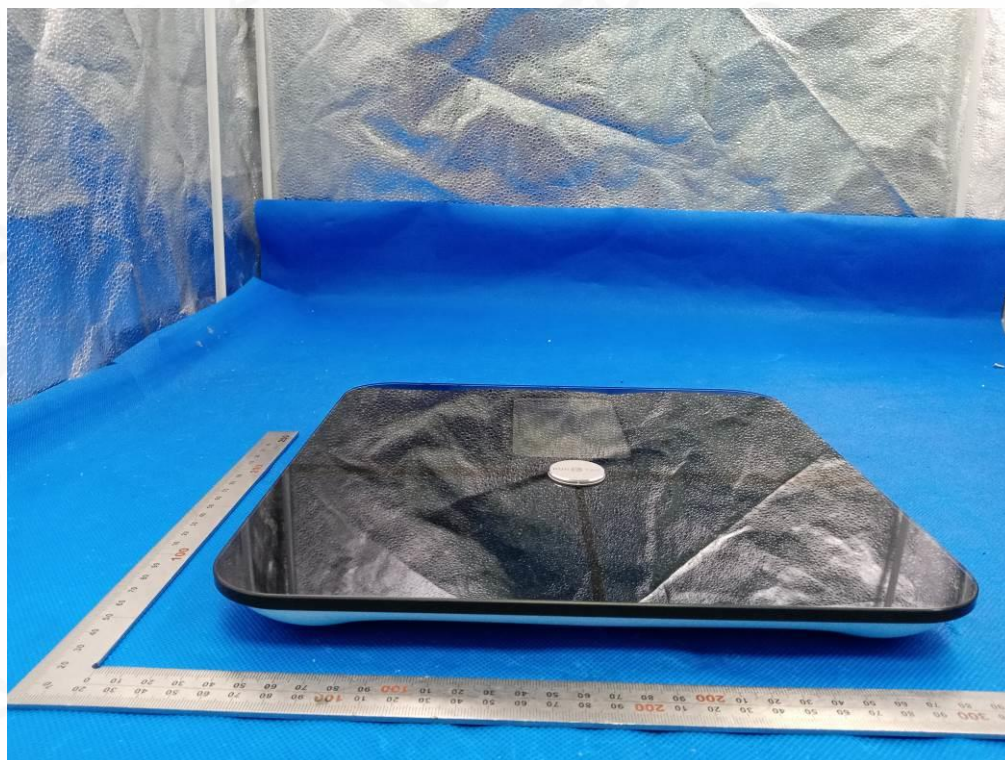
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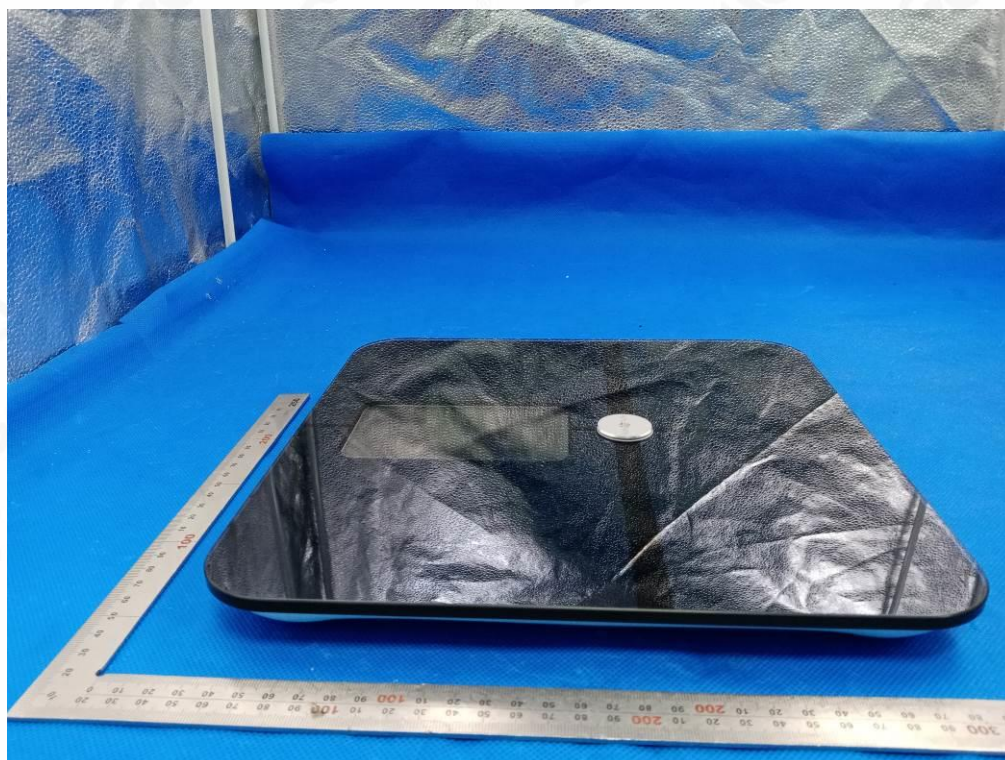




FRONT VIEW OF EUT



BACK VIEW OF EUT



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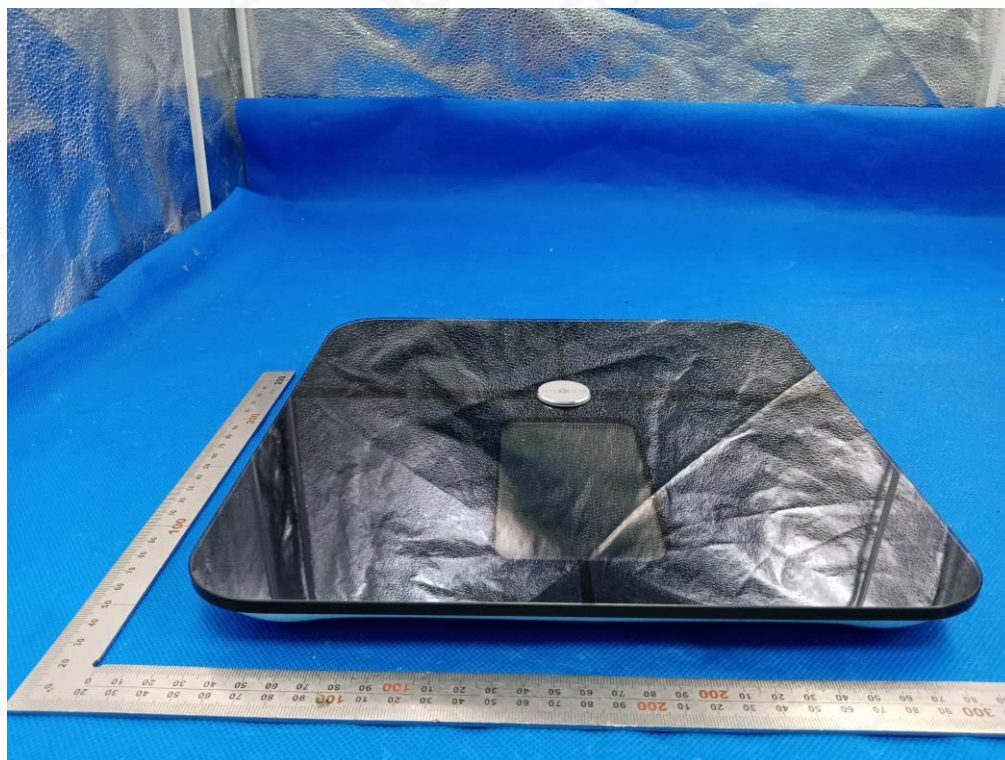
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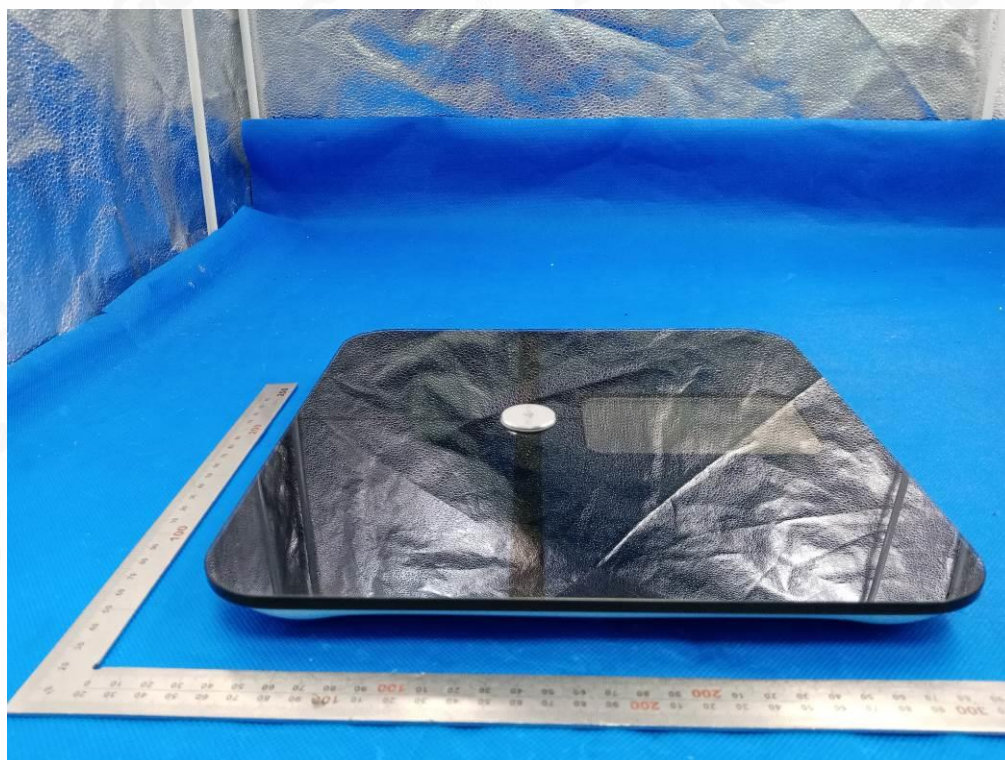




LEFT VIEW OF EUT



RIGHT VIEW OF EUT



\*\*\*\*\*End of Report\*\*\*\*\*

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