

Shenzhen Huaxia Testing Technology Co., Ltd.

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Report Template Version: V05 Report Template Revision Date: 2021-11-03

Test Report

Report No.: Applicant:	CQASZ20220901553E-01 Shenzhen Inkbird Technology Co., Ltd.
Address of Applicant:	Room 1803, Guowei Building, NO.68 Guowei Road, Xianhu Community, Liantang, Luohu District,Shenzhen, China
Equipment Under Test (E	EUT):
Product:	Phoenix Smart Thermometer
Model No.:	phoenix
Test Model No.:	phoenix
Brand Name:	INKBIRD
FCC ID:	2AYZDPHOENIX
Standards:	47 CFR Part 15, Subpart C
Date of Receipt:	2022-09-07
Date of Test:	2022-09-07 to 2022-09-15
Date of Issue:	2022-11-04
Test Result:	PASS*

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

Tested By: ______ (Lewis ZhOU

Reviewed By:

Timo Loj' (Timo Lei)

Approved By: (Jack Ai)



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



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20220901553E-01	Rev.01	Initial report	2022-11-04



2 Test Summary

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



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4 General Information

4.1 Client Information

Applicant:	Shenzhen Inkbird Technology Co., Ltd.		
Address of Applicant:	Room 1803, Guowei Building, NO.68 Guowei Road, Xianhu Community,		
Liantang, Luohu District, Shenzhen, China Manufacturor: Shenzhen Inkbird Technology Co., Ltd.			
Manufacturer: Address of Manufacturer:	Room 1803, Guowei Building, NO.68 Guowei Road, Xianhu Community, Liantang, Luohu District,Shenzhen, China		
Factory:	Shenzhen Inkbird Technology Co., Ltd.		
Address of Factory:	Room 1803, Guowei Building, NO.68 Guowei Road, Xianhu Community, Liantang, Luohu District,Shenzhen, China		

4.2 General Description of EUT

Product Name:	Phoenix Smart Thermometer
Model No.:	phoenix
Test Model No.:	phoenix
Trade Mark:	INKBIRD
Software Version:	V1.0.5
Hardware Version:	V1.1.2
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.0
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	🛛 Mobile 🗌 Portable
Test Software of EUT:	smartrftm_studio-2.25.0
Antenna Type:	PCB antenna
Antenna Gain:	5.19dBi
EUT Power Supply:	Li-ion battery: DC 3.7V 2500mAh, Charge by DC 5V for adapter



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

Note:

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

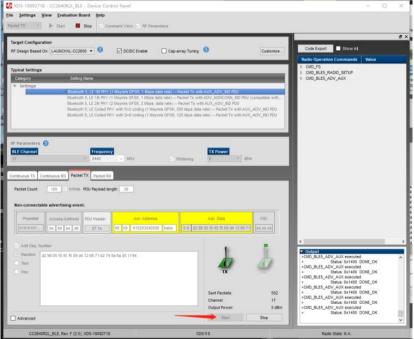
Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz



4.3 Additional Instructions

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

Run Software:





4.4 Test Environment

Operating Environment	Operating Environment:			
Temperature:	24.5°C			
Humidity:	59% RH			
Atmospheric Pressure:	1009mbar			
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.			

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Adapter	Mi	/	1	CQA
2) Cable				

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
1	1	1	1	1



4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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

Hereafter the best measurement capability for CQA laboratory is reported:



4.7 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

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

4.8 Test Facility

• A2LA (Certificate No. 4742.01)

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

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.9 Deviation from Standards

None.

4.10Other Information Requested by the Customer

None.



4.11Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2022/9/9	2023/9/8
Spectrum analyzer	R&S	FSU26	CQA-038	2022/9/9	2023/9/8
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2022/9/9	2023/9/8
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/9/16	2024/9/15
Bilog Antenna	R&S	HL562	CQA-011	2021/9/16	2024/9/15
Horn Antenna	R&S	HF906	CQA-012	2021/9/16	2024/9/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/9/16	2024/9/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2022/9/9	2023/9/8
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2022/9/9	2023/9/8
Antenna Connector	CQA	RFC-01	CQA-080	2022/9/9	2023/9/8
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2022/9/9	2023/9/8
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2022/9/9	2023/9/8

Note:

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



5 Test results and Measurement Data

5.1 Antenna Requirement

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

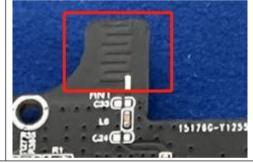
15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

EUT Antenna:

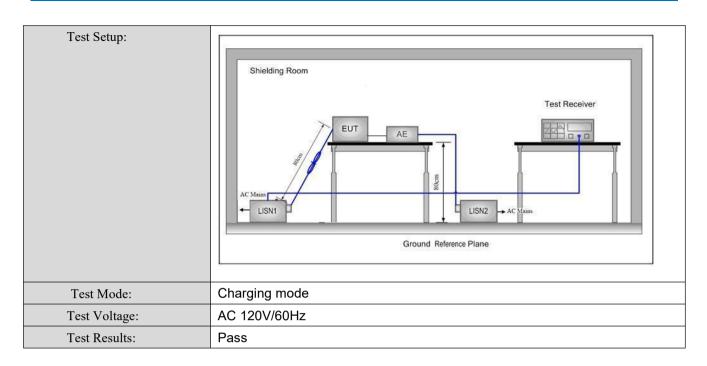


The antenna is PCB antenna. The best case gain of the antenna is 5.19 dBi. BLE and wifi cannot be transmitted at the same time. wifi is turned off when BLE is transmitted



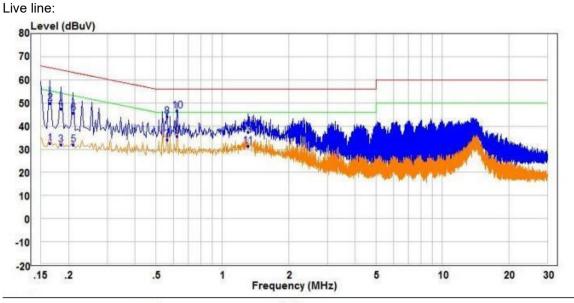
Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Limit:		Limit (d	lBuV)				
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarithm of	f the frequency.					
Test Procedure:	1) The mains terminal disturt room.	oance voltage test was	s conducted in a shielded				
	 The mains terminal disturbance voltage test was conducted in a shielde room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linea impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to 						







Measurement Data



		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	8-	MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.165	22.89	9.67	32.56	55.21	-22.65	Average	Line
2		0.165	40.24	9.67	49.91	65.21	-15.30	QP	Line
3		0.185	22.47	9.64	32.11	54.26	-22.15	Average	Line
3 4 5 6		0.185	37.89	9.64	47.53	64.26	-16.73	QP	Line
5		0.210	22.24	9.60	31.84	53.21	-21.37	Average	Line
6		0.210	36.09	9.60	45.69	63.21	-17.52	QP	Line
7		0.560	24.21	9.76	33.97	46.00	-12.03	Average	Line
8		0.560	34.29	9.76	44.05	56.00	-11.95	QP	Line
9	AV	0.625	25.79	9.83	35.62	46.00	-10.38	Average	Line
10	PP	0.625	36.71	9.83	46.54	56.00	-9.46	QP	Line
11		1.305	21.07	10.45	31.52	46.00	-14.48	Average	Line
12		1.305	27.01	10.45	37.46	56.00	-18.54	QP	Line

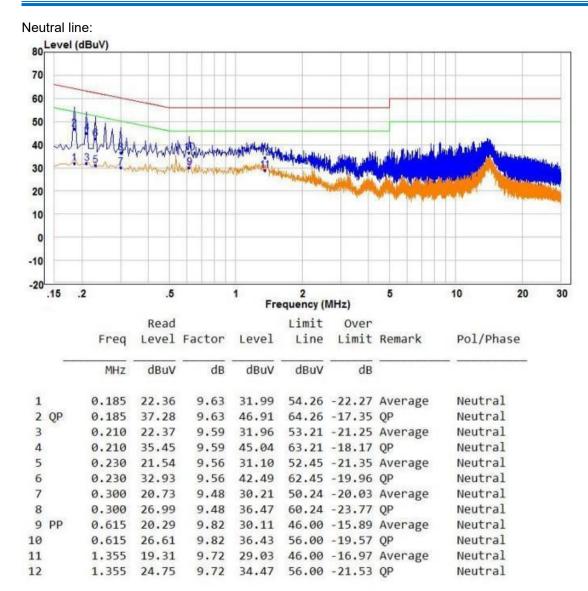
Remark:

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

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

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





Remark:

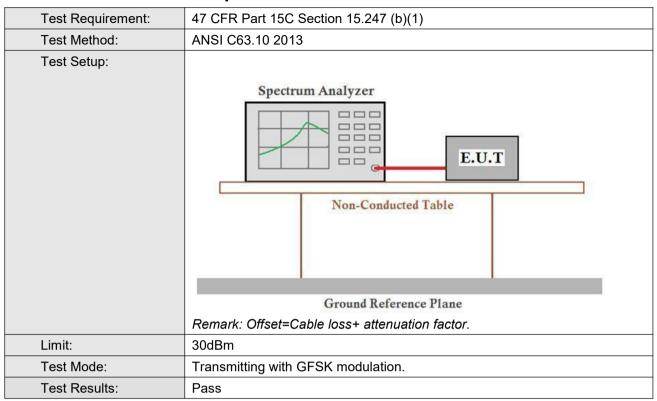
1. The following Quasi-Peak and Average measurements were performed on the EUT:

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

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



5.3 Conducted Peak Output Power



Measurement Data

GFSK mode (1Mbps)							
Test channel	Peak Output Power (dBm)	Peak Output Power (dBm) Limit (dBm)					
Lowest	-2.63	30.00	Pass				
Middle	-2.01	30.00	Pass				
Highest	-2.35	30.00	Pass				



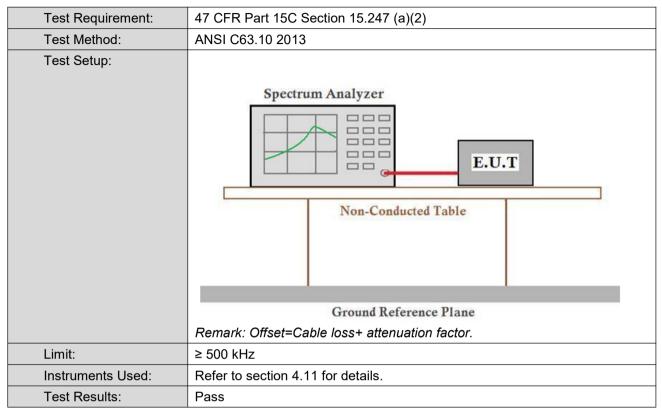








5.4 6dB Occupy Bandwidth



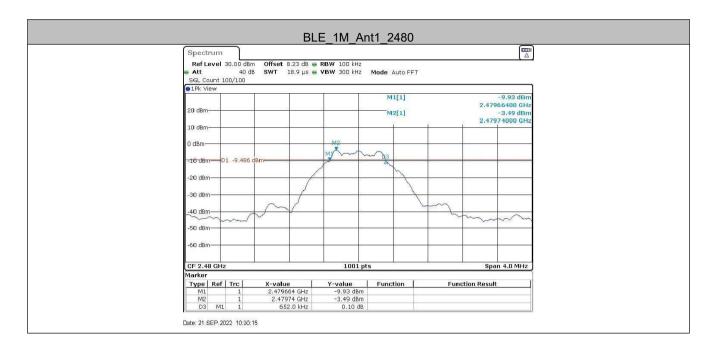
Measurement Data

	GFSK mode (1Mbps)							
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result					
Lowest	0.644	≥500	Pass					
Middle	0.660	≥500	Pass					
Highest	0.652	≥500	Pass					



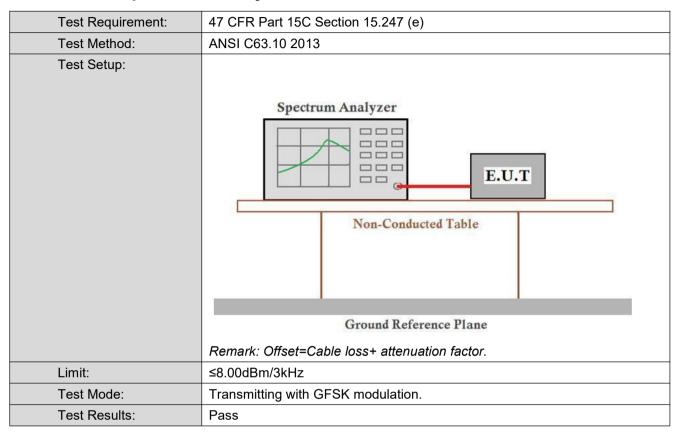








5.5 Power Spectral Density

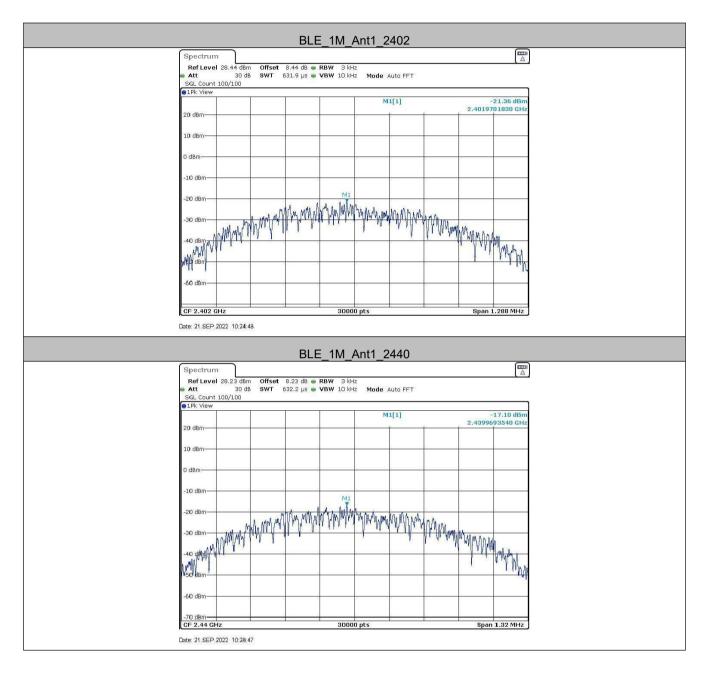


Measurement Data

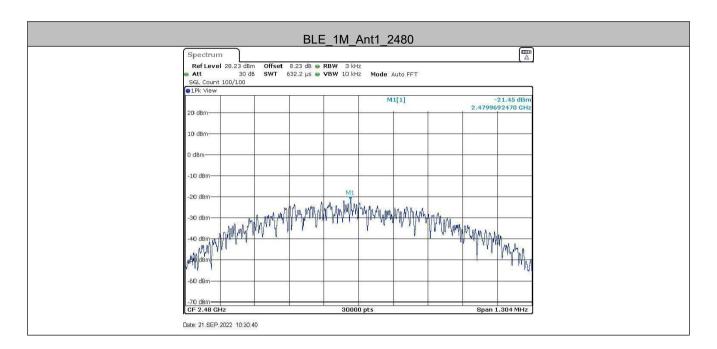
	GFSK mode (1Mbps)							
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result					
Lowest	-21.36	≤8.00	Pass					
Middle	-17.1	≤8.00	Pass					
Highest	-21.45	≤8.00	Pass					



Test plot as follows:

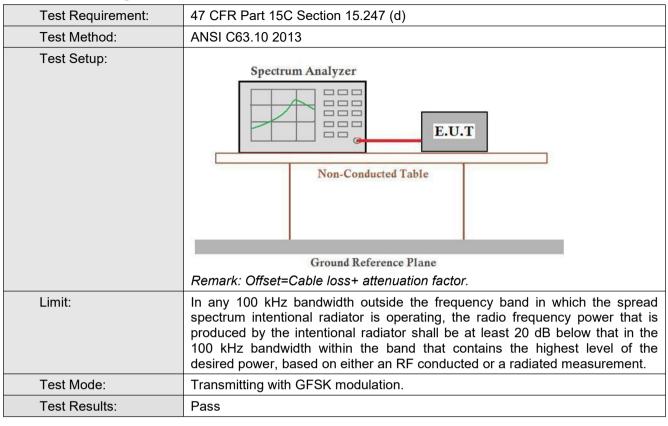








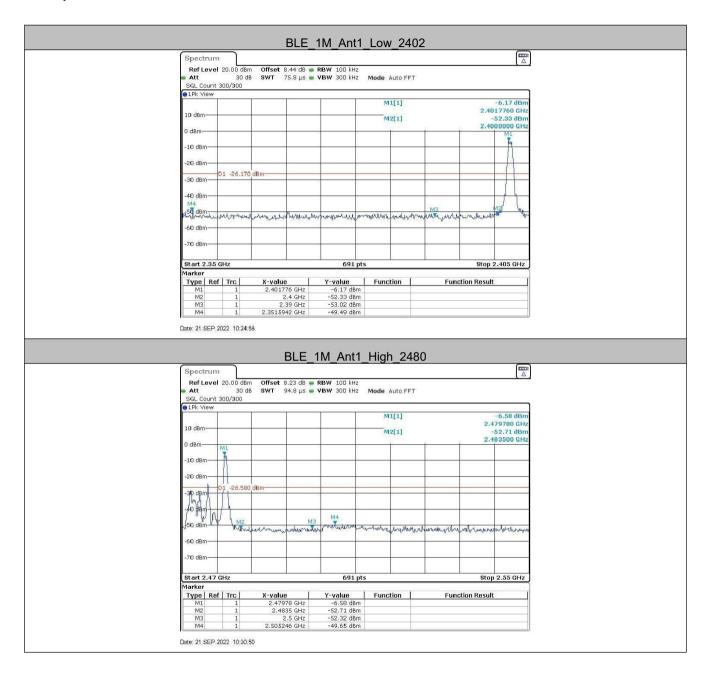
5.6 Band-edge for RF Conducted Emissions



TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
		Low	2402	-6.17	-49.49	≤-26.17	PASS
BLE_1M	Ant1	High	2480	-6.58	-49.65	≤-26.58	PASS

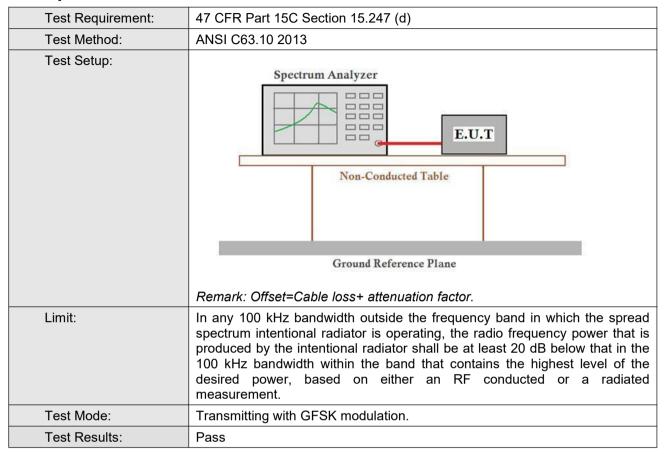


Test plot as follows:



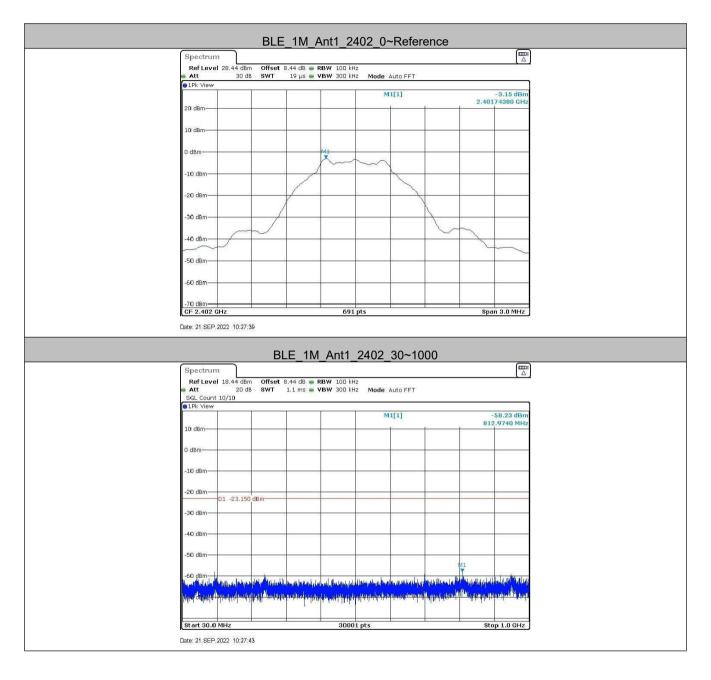


5.7 Spurious RF Conducted Emissions

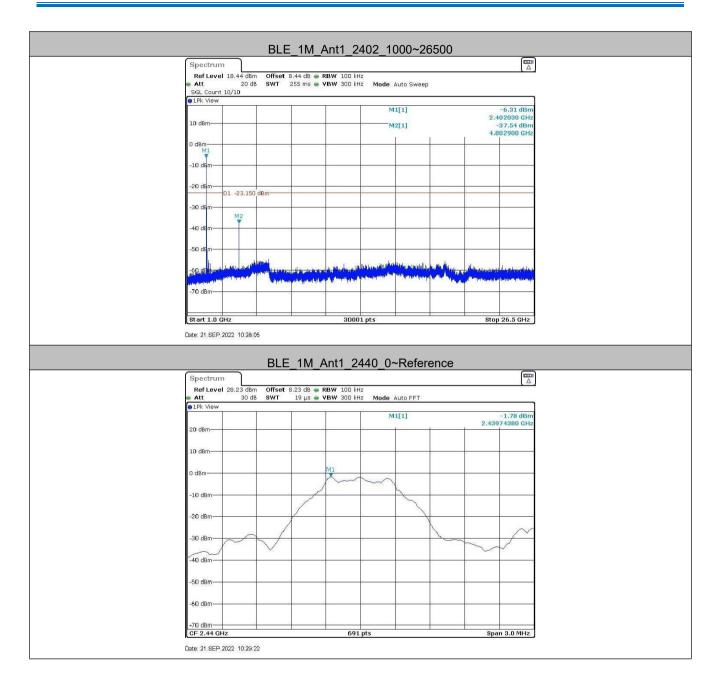




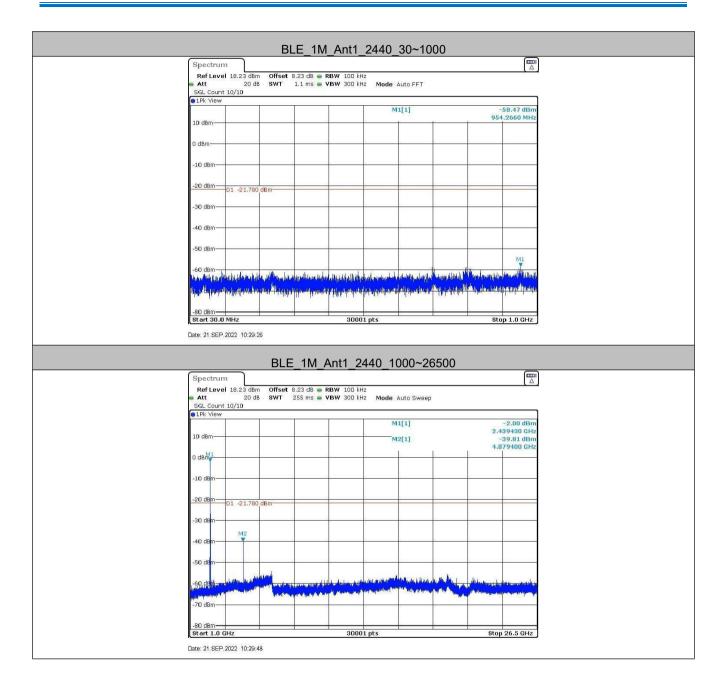
Test plot as follows:



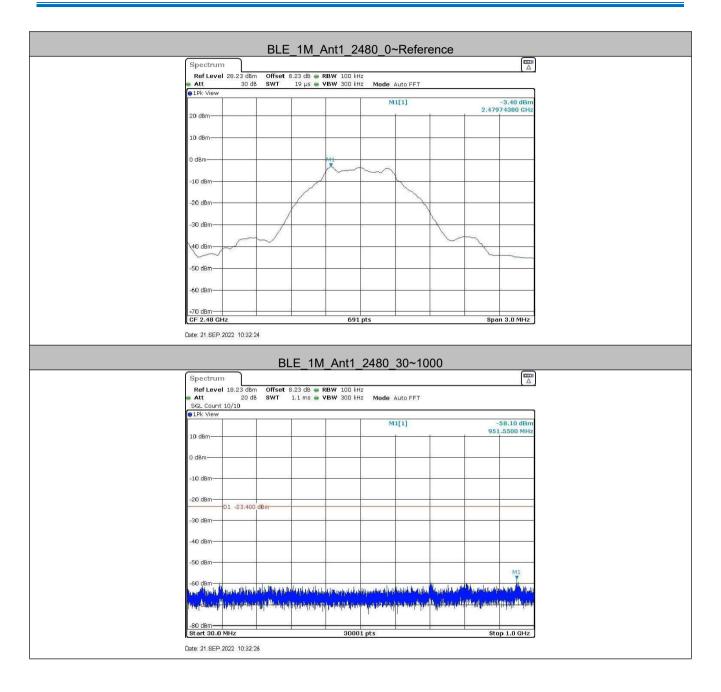




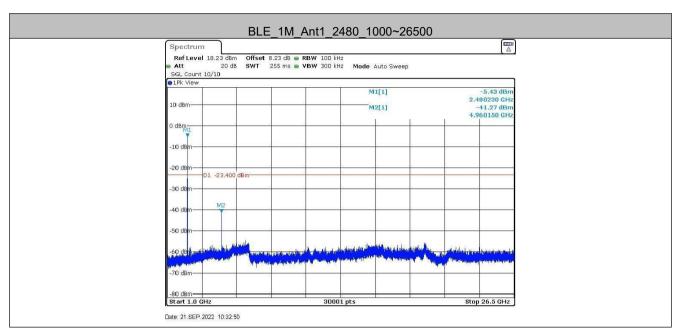












Remark:

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

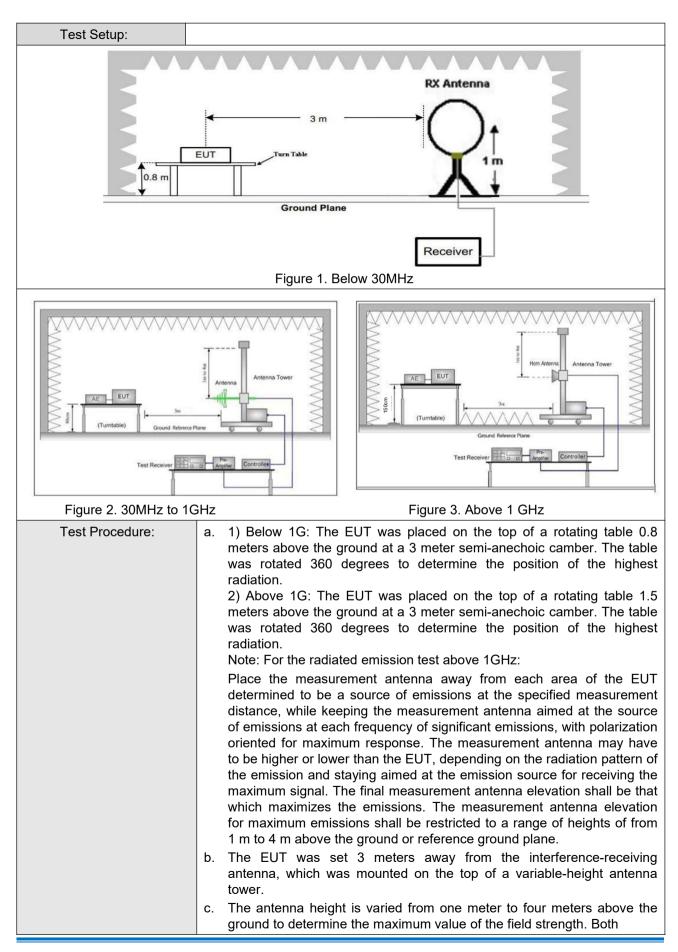


5.8 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Secti	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10 2013	ANSI C63.10 2013						
Test Site:	Measurement Distance	: 3m	n (Semi-Anecł	noic Cham	ber)			
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark		
	0.009MHz-0.090MH	z	Peak	10kHz	z 30kHz	Peak		
	0.009MHz-0.090MH	z	Average	10kHz	z 30kHz	Average		
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	z 30kHz	Quasi-peak		
	0.110MHz-0.490MH	z	Peak	10kHz	z 30kHz	Peak		
	0.110MHz-0.490MH	z	Average	10kHz	z 30kHz	Average		
	0.490MHz -30MHz		Quasi-peak	10kHz	z 30kHz	Quasi-peak		
	30MHz-1GHz	lz Quasi-peak		100 kH	lz 300kHz	Quasi-peak		
	Above 1GHz		Peak	1MHz	3MHz	Peak		
			Peak	1MHz	10Hz	Average		
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measureme distance (m		
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30		
	1.705MHz-30MHz		30	-	-	30		
	30MHz-88MHz		100	40.0	Quasi-peak	3		
	88MHz-216MHz		150	43.5	Quasi-peak	3		
	216MHz-960MHz		200	46.0	Quasi-peak	3		
	960MHz-1GHz 500		500	54.0	Quasi-peak	3		
	Above 1GHz		500	54.0	Average	3		
	Note: 15.35(b), frequency emissions is limit applicable to the e peak emission level rac	20c quip	IB above the oment under t	maximum est. This p	permitted ave	erage emissior		

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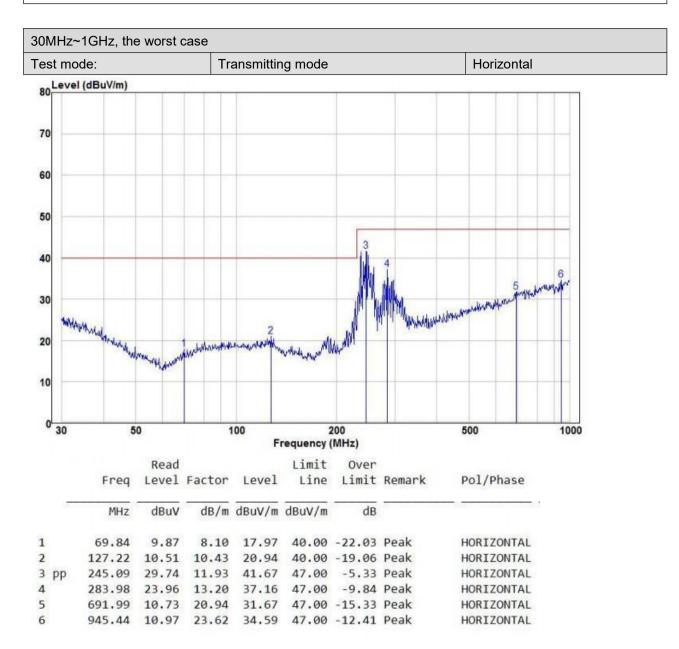




	horizontal and vertical polarizations of the antenna are set to make the measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter)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



Radiated Emission below 1GHz





5

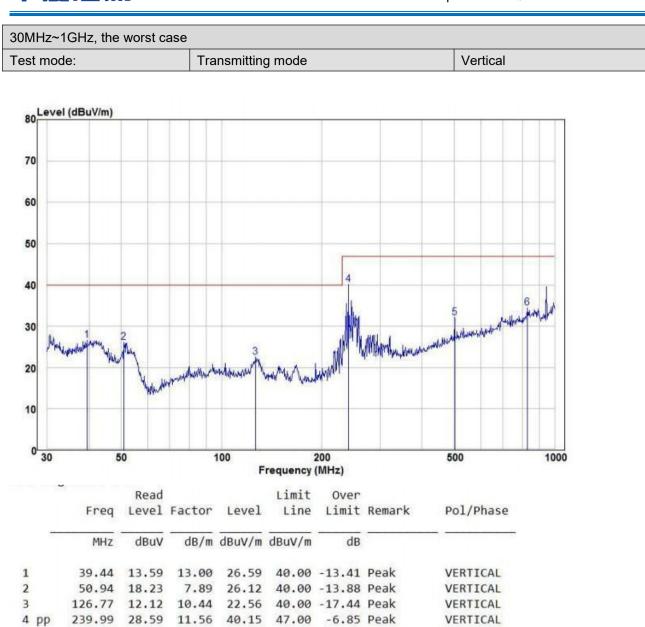
6

Shenzhen Huaxia Testing Technology Co., Ltd.

VERTICAL

VERTICAL

Report No.: CQASZ20220901553E-01



501.18 13.76 18.29 32.05 47.00 -14.95 Peak

830.40 10.74 23.70 34.44 47.00 -12.56 Peak

Worse case mode:		GFSK(1Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	53.76	-9.2	44.56	74	-29.44	Peak	н
2400	55.94	-9.39	46.55	74	-27.45	Peak	Н
4804	54.04	-4.33	49.71	74	-24.29	Peak	Н
7206	50.98	1.01	51.99	74	-22.01	Peak	Н
2390	52.82	-9.2	43.62	74	-30.38	Peak	v
2400	51.57	-9.39	42.18	74	-31.82	Peak	V
4804	54.54	-4.33	50.21	74	-23.79	Peak	V
7206	50.57	1.01	51.58	74	-22.42	Peak	V

Worse case mode:		GFSK(1Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4880	50.34	-4.11	46.23	74	-27.77	peak	Н
7320	48.55	1.51	50.06	74	-23.94	peak	Н
4880	53.66	-4.11	49.55	74	-24.45	peak	V
7320	48.65	1.51	50.16	74	-23.84	peak	V

Worse case mode:		GFSK(1Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2483.5	56.89	-9.29	47.60	74	-26.40	Peak	н
4960	50.66	-4.04	46.62	74	-27.38	Peak	Н
7440	50.63	1.57	52.20	74	-21.80	Peak	Н
2483.5	57.93	-9.29	48.64	74	-25.36	Peak	v
4960	50.57	-4.04	46.53	74	-27.47	Peak	V
7440	50.20	1.57	51.77	74	-22.23	Peak	V

Remark:

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

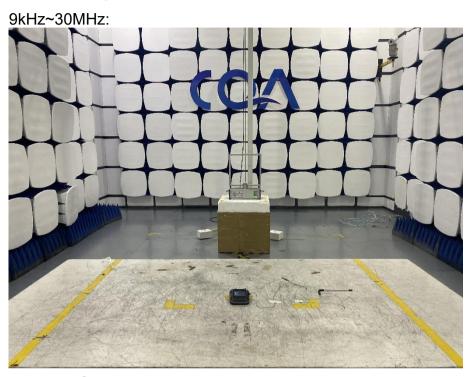
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

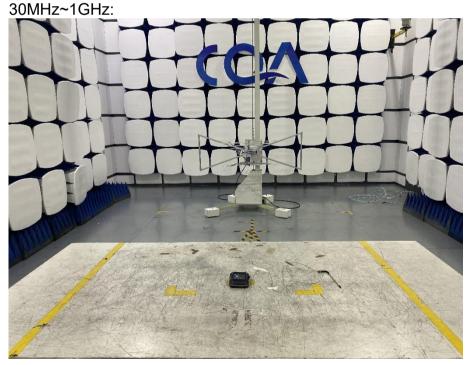
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified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



6 Photographs - EUT Test Setup

6.1 Radiated Spurious Emission









6.2 Conducted Emissions Test Setup





9 20

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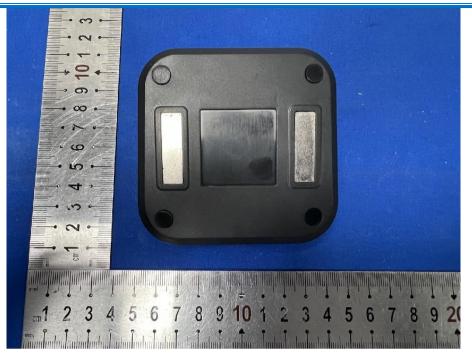
Photographs - EUT Constructional Details 7



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dunkalan bahada ya bahada da bated









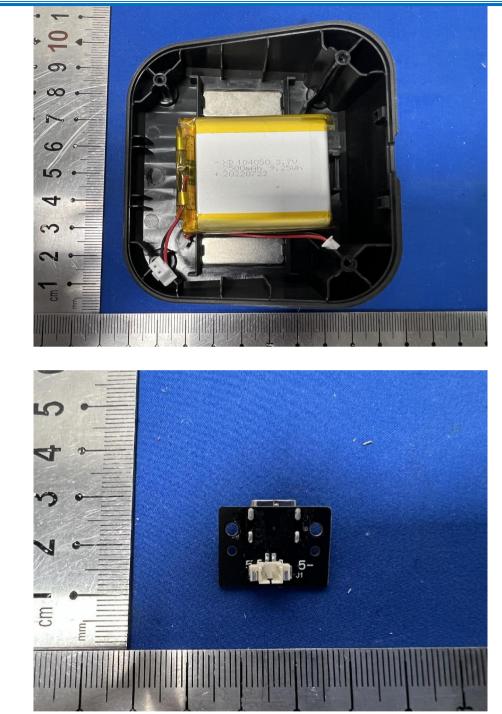




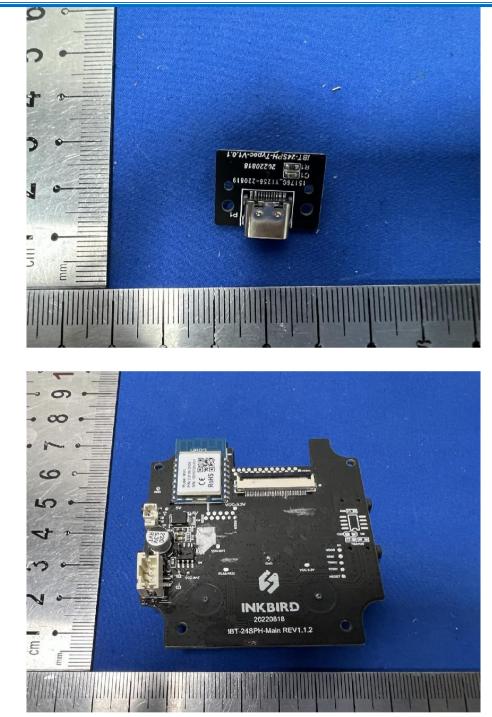






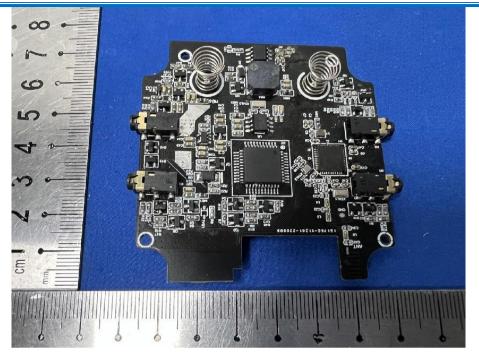








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*** END OF REPORT ***