FCC TEST REPORT

Shenzhen Anysecu Technology Co., Ltd.

Mobile FM Transceiver

Test Model: WP-9900

Additional Model No.: Please Refer to Page 7

Prepared for Address	:	Shenzhen Anysecu Technology Co., Ltd. 2B-2413, COFCO Xiangyun international, Longcheng street, Longgang, Shenzhen, Guangdong, China
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
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Mail	:	webmaster@LCS-cert.com
Date of receipt of test sample	:	November 10, 2021
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	November 10, 2021 ~ November 15, 2021
Date of Report	:	November 15, 2021



FCC TEST REPORT				
FCC 47 CFR Part		-	C63.4 -2014	
Report Reference No	LCS21090207	3AE		
Date Of Issue	November 15,	2021		
Testing Laboratory Name	Shenzhen LC	S Compliance Tes	ting Laboratory Ltd.	
Address	street, Longga	ng, Shenzhen, Gua	ingdong, China	
Testing Location/ Procedure	Partial applicat	of Harmonised station of Harmonised l testing method □	andards ■ standards □	
Applicant's Name	: Shenzhen Any	/secu Technology	^v Co., Ltd.	
Address		.2B,COFCO Xiang nzhen,Guangdong		
Test Specification				
Standard	andard			
Test Report Form No : LCSEMC-1.0				
TRF Originator Shenzhen LCS Compliance Testing Laboratory Ltd.				
Master TRF : Dated 2011-03				
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Test Item Description	: Mobile FM Tra	insceiver		
Trade Mark	ANYSECU			
Test Model	Test Model : WP-9900			
Ratings : Input: DC 13.8V(Max)				
Result Compiled by:	: Pass Super	vised by:	Approved by:	
complied by.	Super			
Nero Deng	Jin	Wang	Grino Limoy	
Vara Dang/Administratora			Covin Liona/Monogor	

Vera Deng/ Administrators

Jin Wang/ Technique principal

Gavin Liang/ Manager



TEST REPORT

Test Report No. : LCS210902073AE

November 15, 2021 Date of issue

Test Model	: WP-9900
EUT	: Mobile FM Transceiver
Applicant	: Shenzhen Anysecu Technology Co., Ltd.
• •	: 2B-2413, COFCO Xiangyun international, Longcheng street, Longgang, Shenzhen, Guangdong, China
Telephone	
Fax	
Manufacturer	: Shenzhen Anysecu Technology Co., Ltd.
Address	2B-2413, COFCO Xiangyun international, Longcheng street, Longgang, Shenzhen, Guangdong, China
Telephone	
Fax.	
Factory	: Shenzhen Anysecu Technology Co., Ltd.
Address	: 2B-2413, COFCO Xiangyun international, Longcheng street, Longgang, Shenzhen, Guangdong, China
Telephone	: +86-755-82726057
Fax	

Test Result according to the standards on page 6: Pass

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

She

Revision History

Revision	Issue Date	Revisions	Revised By
000	November 15, 2021	Initial Issue	Gavin Liang

Report No.: LCS210902073AE

TABLE OF CONTENTS

Test Report Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	6
1.1. Description of Standards and Results	6
2. GENERAL INFORMATION	7
2.1. Description of Device (EUT)	7
2.2. Support Equipment List	7
2.3. External I/O	
2.4. Description of Test Facility	
2.5. Statement of the Measurement Uncertainty	
2.6. Measurement Uncertainty	
3. TEST RESULTS	9
3.1.Radiated Emission Measurement	9
3.2. Compliance for Scanning Receiver	
4. PHOTOGRAPHS OF TEST SETUP	
5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT	19

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

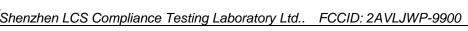
EMISSION				
Description of Test Item Standard Limits Resu				
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	N/A	
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS	
Compliance for Scanning Receiver FCC 47 CFR Part 15.121 FCC 47 CFR Part 15.121 FCC 47 FCC 47				
N/A is an abbreviation for Not Applicable.				

 Test mode:

 Mode1
 Operate in 144-148MHz mode
 Record

 Mode2
 Operate in 420-450MHz mode
 Pre-scan

 ****Note: All test modes were tested, but we only recorded the worst case in this report.



2. GENERAL INFORMATION

2.1. Description	of Device	(EUT)
------------------	-----------	-------

EUT	: Mobile FM Transceiver
Trade Mark	: ANYSECU
Test Model	: WP-9900
Additional Model No.	. WP9900plus, WP-3600, WP-3800, WP-5200, WP-5800, WP-5900, WP-6500, WP-6800, WP-6900
Model Declaration	PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	: DC 13.8V(Max)
Frequency Band	: 144-148MHz/420-450MHz

Highest internal frequency (Fx)	Highest measured frequency		
Fx ≤ 108 MHz	1 GHz		
108 MHz < Fx ≤ 500 MHz	2 GHz		
500 MHz < Fx ≤ 1 GHz	5 GHz		
Fx > 1 GHz	5 × Fx up to a maximum of 6 GHz		
NOTE 1 For FM and TV broadcast receivers, Fx is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies. Where Fx is unknown, the radiated emission measurements shall be performed up to 6 GHz.			

2.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate

2.3. External I/O

I/O Port Description	Quantity	Cable

2.4. Description of Test Facility

Site Description EMC Lab. : NVLAP Accreditation Code is 600167-0. FCC Designation Number is CN5024. CAB identifier is CN0071. CNAS Registration Number is L4595.

2.5. 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 LCS 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.

Test	Parameters	Expanded Uncertainty (U _{lab})	Expanded Uncertainty (U _{cispr})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	\pm 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	\pm 3.48 dB	\pm 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	\pm 3.90 dB	\pm 5.2 dB

2.6. Measurement Uncertainty

- (1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.
- (2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.



3. TEST RESULTS

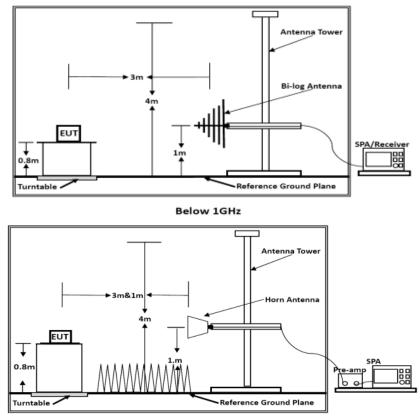
3.1.Radiated Emission Measurement

3.1.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	AUDIX	E3	/	N/A	N/A
2	EMI Test Receiver	R&S	ESR3	102311	2021-03-16	2022-03-15
3	Artificial Mains	R&S	ENV216	101288	2021-06-21	2022-06-20
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-003 2	2021-06-21	2022-06-20
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2020-12-02	2021-12-01

3.1.2. Block Diagram of Test Setup



Above 1GHz

3.1.3. Radiated Emission Limit (Class B)

Lim	its for Radiated	Disturbance	Below 1GHz
		Diotanoanioo	

Limits for Radiated Disturbance Below 1GHZ								
FREQUENCY	DISTANCE	FIELD STREN	NGTHS LIMIT					
MHz	Meters	μV/m	dB(µV)/m					
30 ~ 88	3	100	40					
88 ~ 216	3	150	43.5					
216 ~ 960	3	200	46					
960 ~ 1000	500	54						
 Remark : (1) Emission level (dB)μV = 20 log Emission level μV/m (2) The smaller limit shall apply at the cross point between two frequency bands. (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system. 								
	for Radiated Emiss							
Frequency	Distance	Peak Limit	Average Limit					
(MHz)	(Meters)	(dBµV/m)	(dBµV/m)					
Above 1000	3	74	54					
***Note: The lower limit applies at the transition frequency.								

3.1.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.1.5. Operating Condition of EUT

3.5.1.Setup the EUT as shown in Section 3.2.

3.5.2.Let the EUT work in test Mode (Working) and measure it.

3.1.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission measurement.

3.1.7. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver



Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for
KB7 VB (Emission in restricted band)	Average
RB / VB (Emission in non-restricted	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for
band)	Average

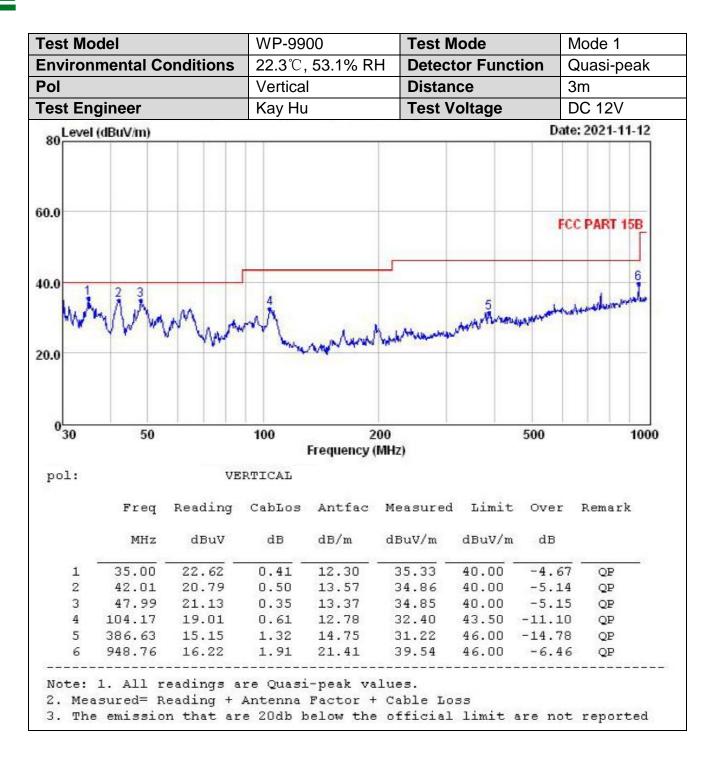
The frequency range from 30MHz to 1000MHz and above 1000MHz is checked.

3.1.8. Test Results

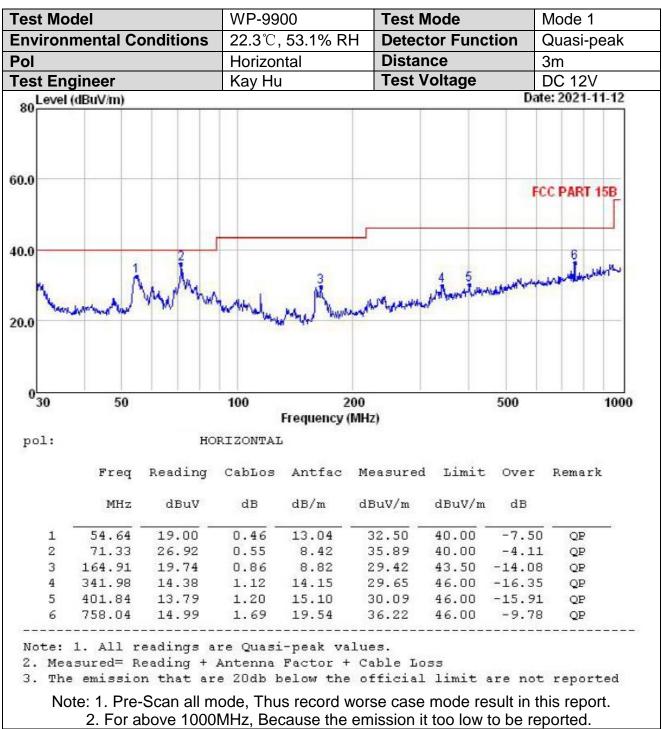
PASS.

The test result please refer to the next page.











Report No.: LCS210902073AE

Test	Mode	el 🛛	W	P-9900		Tes	t Mode		Mode 1		
Envi	ronme	ental Condit	ions 22	2.3℃, 53.1	% RH	Det	ector Funct	ion	n Peak+Avera		
Pol			Ve	ertical	Distance			3m			
Test	Engir	neer	Ka	ay Hu		Tes	t Voltage		DC 12V		
	90.0 dBuV 80	//m		300.00	55 55 55 55 55 55 55 55 55 55 55 55 55			art15 RE-Class B	_1.66Hz-AVG 11		
	No.	Frequency	Reading	Factor	Leve	I	Limit	Marg	in Det.		
		(MHz)	(dBuV)	(dB/m)	(dBuV/	m)	(dBuV/m)	(dB))		
	1	2145.000	45.45	1.50	46.95	5	74.00	-27.0	5 peak		
	2	2155.000	34.78	1.81	36.59)	54.00	-17.4	1 AVG		
	3	2520.000	44.02	5.50	49.52	2	74.00	-24.4	8 peak		
	4	2530.000	33.99	5.48	39.47		54.00	-14.5			
	5	3455.000	44.38	0.25	44.63		74.00	-29.3	-		
	6	3470.000	34.25	0.37	34.62		54.00	-19.3	8 AVG		
	7	4630.000	44.11	3.23	47.34		74.00	-26.6	- I		
	8	4650.000	34.02	3.26	37.28		54.00	-16.7			
	9	5380.000	43.67	6.80	50.47		74.00	-23.5	1		
	10	5390.000	33.78	6.88	40.66		54.00	-13.3			
	11	5830.000	43.91	8.83	52.74		74.00	-21.2			
	12 *	5835.000	33.15	8.84	41.99)	54.00	-12.0	1 AVG		



Test Mode		W	P-9900		Test N	lode		Mod	e 1
Environme	Environmental Conditions			22.3°C, 53.1% RH		Detector Function		Peak+Average	
Pol	Pol		Horizontal		Distan	се		3m	
Test Engin	eer	Ka	Kay Hu		Test V	oltage		DC ²	12V
90.0 dBwV/ 80	in					FCC P	nt15 RE-Class B_1 Part15 RE-Class B_	1-6GHz-PEAK	
50 40 White-sector 20 10 -10 -10 -20 -30 -40 -50 -60 -70 1000.000		2500.00		× × × × × × × × × × × × × × × × × × ×			<u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u>	32 32 32 32 32 32 32 32 32 32 32 32 32 3	
No.	Frequency	Reading	Factor	Level		Limit	Marg	in	Det.
1	(MHz)	(dBuV)	(dB/m)	(dBuV/	-	dBuV/m)	(dB)		maala
1 2	2015.000 2030.000	45.02	-0.71	44.31		74.00 54.00	-29.6		peak AVG
3	2590.000	43.95	5.41	49.36		74.00	-21.0		peak
4	2610.000	34.34	4.85	39.19		54.00	-14.8		AVG
5	3835.000	43.71	1.80	45.51		74.00	-28.4		peak
6	3855.000	34.36	1.88	36.24		54.00	-17.7	-	AVG
7	4290.000	44.34	2.74	47.08		74.00	-26.9	2	peak
8	4305.000	33.94	2.76	36.70		54.00	-17.3	0	AVG
9	5260.000	43.52	5.99	49.51		74.00	-24.4	9	peak
10	5280.000	34.05	6.11	40.16		54.00	-13.8	4	AVG
11	5660.000	45.00	8.39	53.39		74.00	-20.6	1	peak
12 *	5670.000	34.13	8.41	42.54	İ	54.00	-11.4	6	AVG

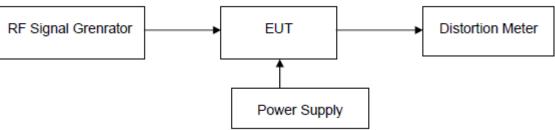
Note: Pre-Scan all mode, Thus record worse case mode result in this report.

- 3.2. Compliance for Scanning Receiver
 - 3.2.1 Applicable Standard

FCC §15.121

3.2.2 EUT Setup

For FCC §15.121 (b) Scanning Receiver Cellular Band Rejection Test



3.2.3 Test Procedure

1) Connected the EUT as shown in the above block diagram.

2) Apply a RF signal to the receiver input port at lowest, middle and highest channel frequencies of receiver operation band.

3) Adjust the audio output level of the receiver to it's rated value with the distortion less than 10%.

4) Adjust the RF Signal Generator Output Power to produce 12 dB SINAD without the audio output power dropping by more than 3 dB. This output level of the RF SG at each channel frequency is the sensitivity of the receiver.

5) Select the lowest or worse-case sensitivity level for all of the bands as the reference sensitivity.

6) Adjust the RF Signal Generator output to a level of +60 dB above the reference sensitivity obtained in step 5) and its frequency to the frequency points in the cellular band.

7) Set the Receiver squelch to threshold, the signal required to open the squelch must be lower than the reference sensitivity level.

8) Set the receiver in a scanning mode and allow it to scan through it's complete receiving range.

9) If the receiver unsquelched or stopped on any frequency, receiving at this frequency, then adjust the signal generator output level until 12 dB SINAD is produced, this level is the spurious value and the difference between the reference sensitivity and the spurious value is the rejection ratio and must be at least 38dB.

10) Repeat above procedure at the frequencies 824.5, 836.0, and 848.5 MHz for the mobile band, and 869.1, 881.5, and 893.5MHz for the cellular base band.

	The following test equipments are used during the radiated emission measurement.									
Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date				
1	RF Communication s Test Set	HP	8921A	3344A00457	2021-09-28	2022-09-27				
2	Sign Geal nerator	Agilent	E8257D	MY46520521	2021-06-22	2022-06-21				
3	Multimeter	FLUKE	12E	48270370WS	2021-06-22	2022-06-21				

3.2.4. Test Equipment

The following test equipments are used during the radiated emission measurement:



3.2.5 Test Results Summary

Comply with FCC 121(a):

 Please refer to the technical informations or the attestation letter conforming compliance with this requirement.

Comply with FCC 121(b):

 Please refer to the following Scanning Receiver Cellular Band Rejection Test Result.

Comply with FCC 121(c):

- Not applicable.

Comply with FCC 121(d):

- Please refer to the User Manual.

Comply with FCC 121(e):

This Scanning Receiver is not assembled from kits or marketed in kit form.

Comply with FCC 121(f):

- Please refer to the label of the product.

3.2.6 Test Data

Passed

Temperature	24.3°C	Humidity	53.9%
Test Engineer	Kay Hu		

EUT'S Scanning Frequency Band(MHz)	Test Frequencies of Cellular Band (MHz)	Spurious Value of Cellular Frequencies for 12 dB SINAD (dBm)	Reference Sensitivity for 12 dB SINAD (dBm)	Rejection Ratio (dB)	Rejection Ratio Limit (dB)	Result
1 2	824.5, 836.0, 848.5, 869.1, 881.5,893.5	> -51.2	-115.5	< 64.3	< -38.0	PASS

Note: Rejection Ratio = Reference Sensitivity - Spurious Value

4. PHOTOGRAPHS OF TEST SETUP



Photo of Radiated Measurement (30MHz~1GHz)

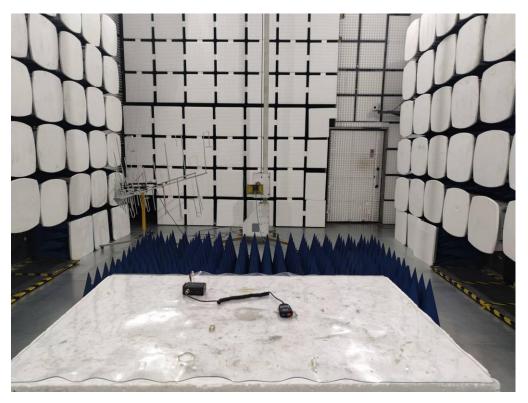


Photo of Radiated Measurement (Above 1GHz)

5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT



Fig.1





Fig.3



Fig.4





Fig.5









Fig.7

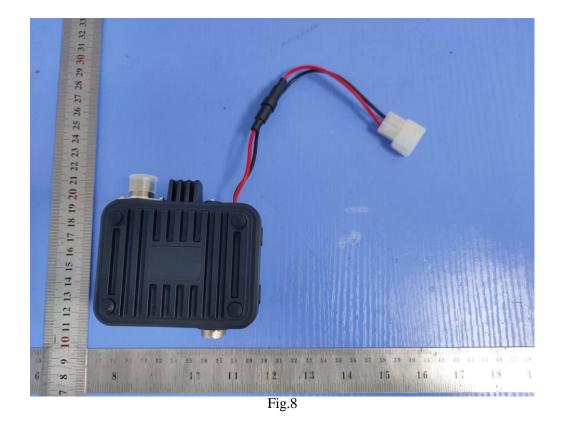




Fig.9

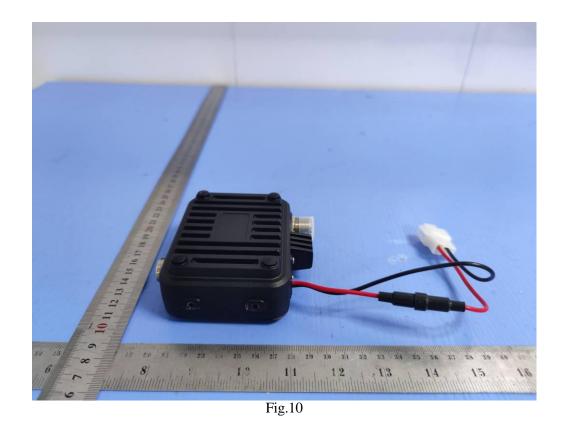




Fig.11



Fig.12



Fig.13

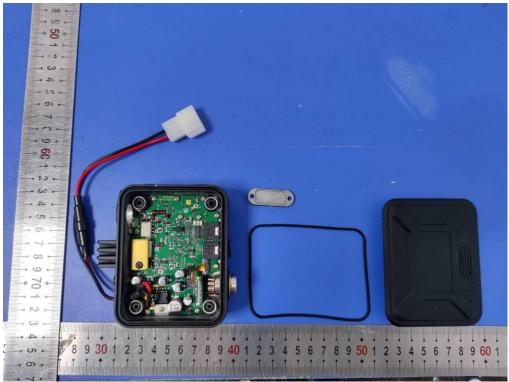


Fig.14





Fig.15

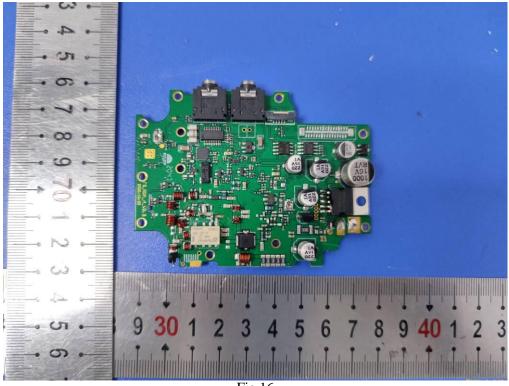


Fig.16



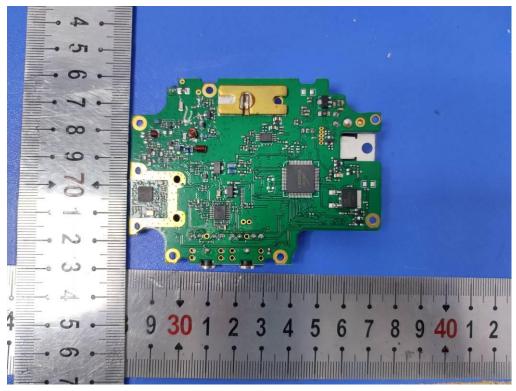


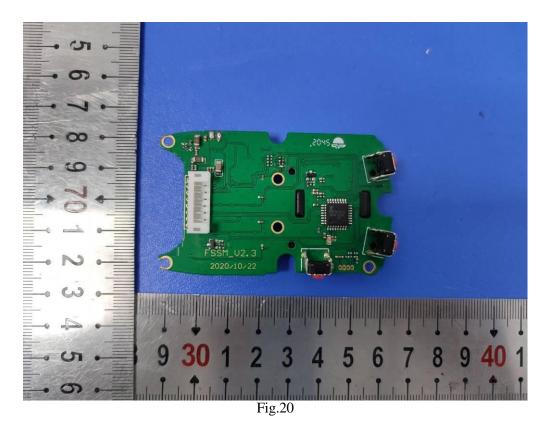
Fig.17



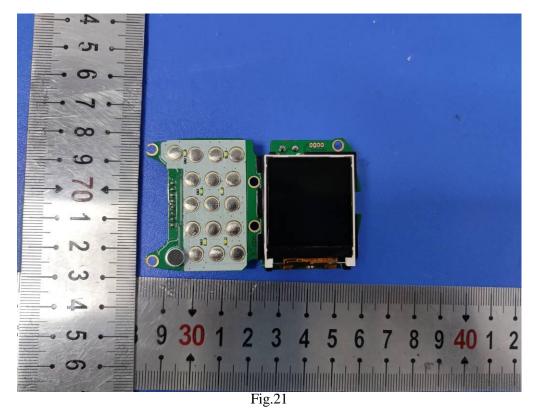
Fig.18



Fig.19







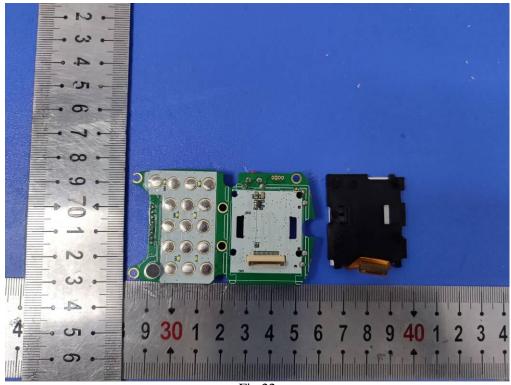
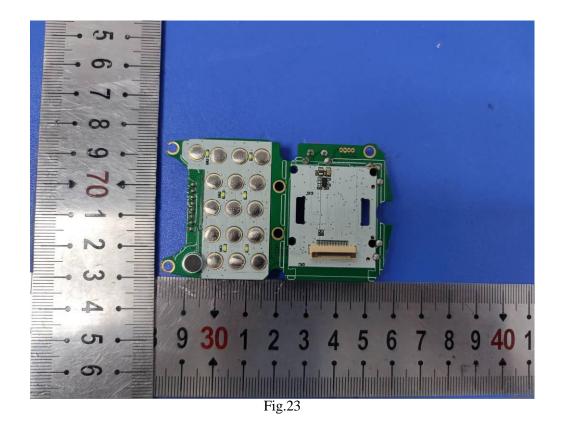


Fig.22



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