



# EMC TEST REPORT

Product Name: Smart phone

Model Name: Luna

FCC ID: 2AK6CLUNA

Issued For : Shanghai Unihertz E-Commerce Co., Ltd

Room 308, Building C, 508Chundong Rd, Minhang district  
Shanghai, China 201108

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial Park,  
No.177 Renmin West Road, Jinsha Community, Kengzi  
Street, Pingshan New District, Shenzhen, China

Report Number: LGT23B010EM03

Sample Received Date: Feb. 09, 2023

Date of Test: Feb. 09, 2023 – Mar. 13, 2023

Date of Issue: Mar. 13, 2023

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## TEST REPORT CERTIFICATION

**Applicant** Shanghai Unihertz E-Commerce Co., Ltd  
**Address** Room 308, Building C, 508Chundong Rd, Minhang district  
Shanghai, China 201108

**Manufacturer** Shenzhen OBLUE Communication Technology Co., Ltd.  
**Address** Room 702, Hepingdayou industrial and trade industrial park,  
No. 41, Yonghe Road, Heping Community, Fuhai Street, Baoan  
District, Shenzhen City, China

**Product Name** Smart phone

**Trademark** Unihertz, iHunt, 8849

**Model Name** Luna

**Sample Status:** Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	PASS

Prepared by:

Zane Shan

Zane Shan  
Engineer

Approved by:

Vita Li

Vita Li  
Technical Director





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**Revision History**

Rev.	Issue Date	Revisions
00	Mar. 13, 2023	Initial Issue



## 1. TEST SUMMARY

EMC Emission				
Standard	Test Item	Limit	Judgement	Remark
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	Conducted Emissions	Class B	PASS	
	Radiated Emissions Below 1GHz	Class B	PASS	
	Radiated Emissions Above 1GHz	Class B	PASS	Note 2

Note:

- 1 "N/A" denotes test is not applicable in this Test Report
- 2 If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.



## 1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China
Accreditation Certificate	FCC Registration No.: 746540
	A2LA Certificate No.: 6727.01

## 1.2 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** %.

Test Item	Measurement Frequency Range	Uncertainty
Conducted Emissions	0.009MHz ~ 0.15MHz	3.18
Conducted Emissions	0.15MHz ~ 30MHz	2.70
Radiated Emissions	9KHz ~ 30MHz	2.50
Radiated Emissions	30MHz ~ 1000MHz	4.40
Radiated Emissions	1GHz ~ 6 GHz	5.10
Radiated Emissions	6GHz ~ 18GHz	5.49

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smart phone
Trademark	Unihertz, iHunt, 8849
Model Name	Luna
Series Model	N/A
Model Difference	N/A
Adapter	Model: HJ-FC010K7-US Input: 100~240V, 50/60Hz, 0.6A Output: 5V, 2A OR 9V, 2A OR 12V, 1.5A
Battery	Capacity: 5000mAh Rated Voltage: 3.87V
Test Voltage	AC 230V/50Hz-120V/60Hz
Hardware Version	G68_V1.1
Software Version	Luna _2023013113

*Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.*



## 2.2 DESCRIPTION OF THE TEST MODES

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

Pretest Mode	Description
Mode 1	Charging +GSM link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone
Mode 2	Charging +WCDMA link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone
Mode 3	Charging +LTE link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone
Mode 4	USB Data Transmission

For Radiated Test	
Final Test Mode	Description
Mode 1	Charging +GSM link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone
Mode 2	Charging +WCDMA link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone
Mode 3	Charging +LTE link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone
Mode 4	USB Data Transmission

For CONDUCTED Test	
Final Test Mode	Description
Mode 1	Charging +GSM link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone
Mode 2	Charging +WCDMA link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone
Mode 3	Charging +LTE link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone
Mode 4	USB Data Transmission

### Note:

1. For conducted emission test, test mode 1 was the worst case and only this mode was presented in this report.
2. For radiated emission test, test mode 1 was the worst case and only this mode was presented in this report.





## 2.3 DESCRIPTION OF THE SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

### Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	ShenZhen HuaJin Electronjcs CO, LTD	HJ-FC010K7-US	N/A	Input: 100-240V ~ 50/60Hz 0.6A Output: 5V, 1A 9V, 2A 12V, 1.5A
USB-A to USB-C Cable	N/A	N/A	N/A	0.8m, shielded, without ferrite core

### Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Earphone	N/A	39630078	N/A	N/A
Laptop	HUAWEI	HKF-16	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



## 2.5 MEASUREMENT INSTRUMENTS LIST

<b>Conducted Emission</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Date</b>	<b>Cal. Until</b>
EMI Test Receiver	R&S	ESU8	100372	2022.04.12	2023.04.11
LISN	COM-POWER	LI-115	02032	2022.04.13	2023.04.12
LISN	SCHWARZBECK	NNLK 8121	00847	2022.08.19	2023.08.18
CE Cable	N.A	C01	N.A	2022.05.05	2023.05.04
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2022.08.19	2023.08.18
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EMC-I_V1.4.0.3_SKET				
<b>Radiated Emission</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Date</b>	<b>Cal. Until</b>
EMI Test Receiver	R&S	ESU8	100372	2022.04.12	2023.04.11
Active loop Antenna	R&S	HFH2-Z2	POS871398181	2022.06.02	2024.06.01
Spectrum Analyzer	Keysight	N9010B	MY60242508	2022.04.29	2023.04.28
Bilog Antenna	SCHWARZBECK	VULB 9168	01447	2022.12.12	2024.12.11
Horn Antenna	SCHWARZBECK	3115	10SL0060	2022.06.02	2024.06.01
Pre-amplifier(0.1M-3GHz)	HP	8447D	2727A05655	2022.04.11	2023.04.10
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2022.04.13	2023.04.12
RE Cable (9K-1G)	N.A	R01	N.A	2022.05.05	2023.05.04
RE Cable (1-26G)	N.A	R02	N.A	2022.05.05	2023.05.04
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EMC-I_V1.4.0.3_SKET				



### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 LIMITS

FREQUENCY (MHz)	Conducted Emission Limits (dBuV)			
	Class A		Class B	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.5 ~ 5	73.00	60.00	56.00	46.00
5 ~ 30	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor  
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

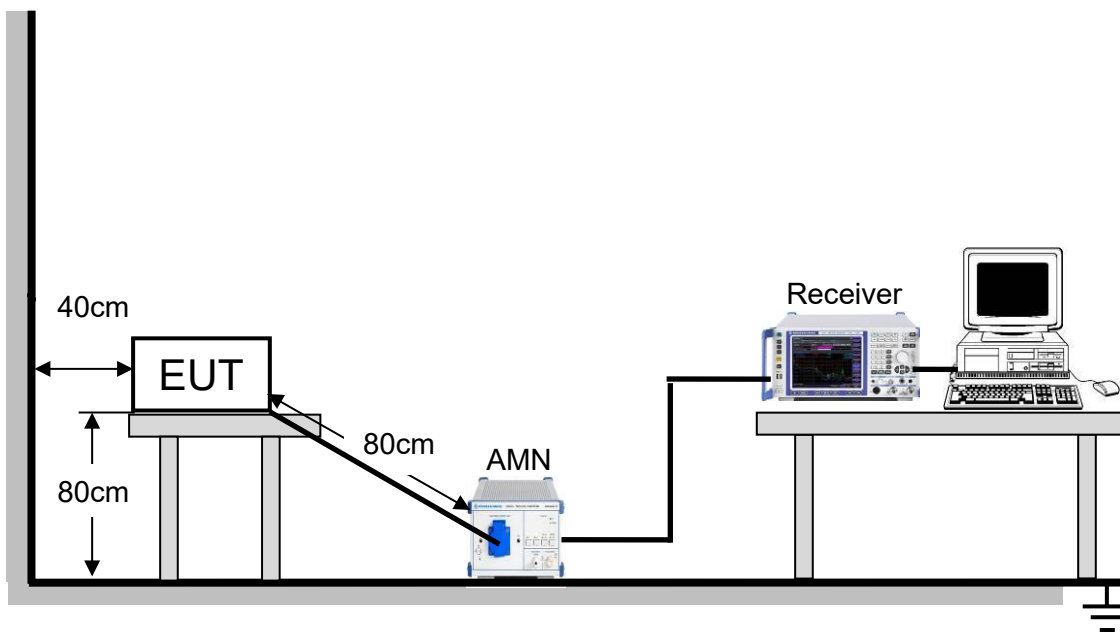
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

##### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT Test Photos.



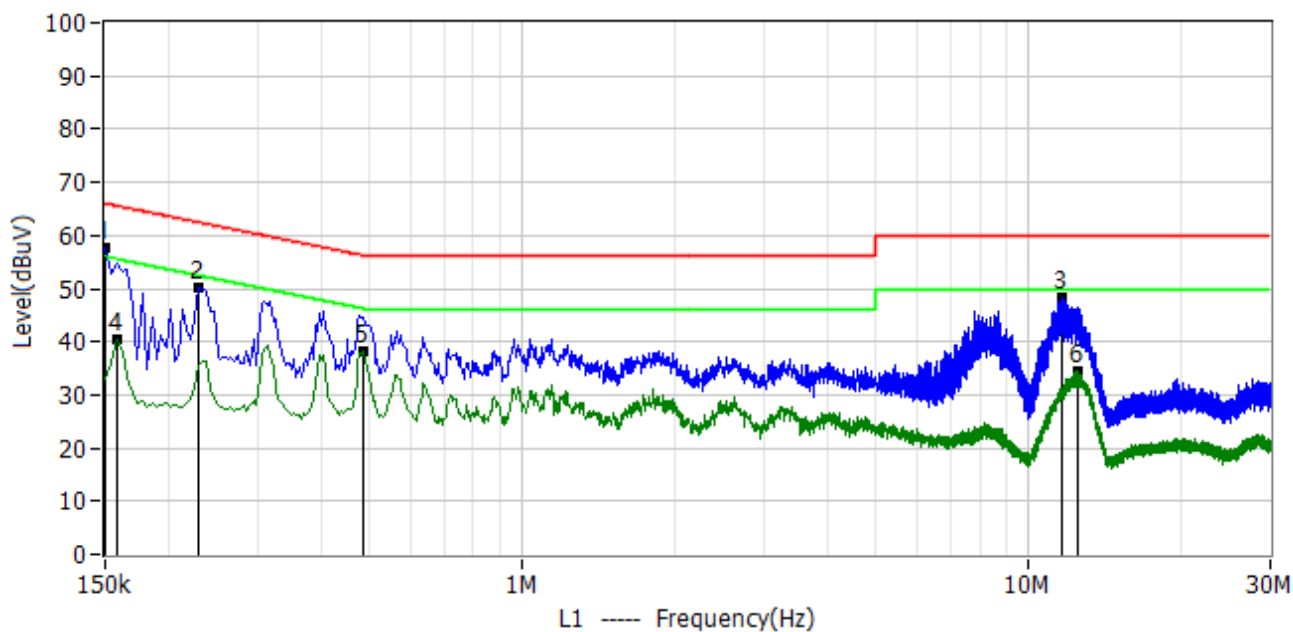
### 3.1.3 TEST SETUP





### 3.1.4 TEST RESULTS

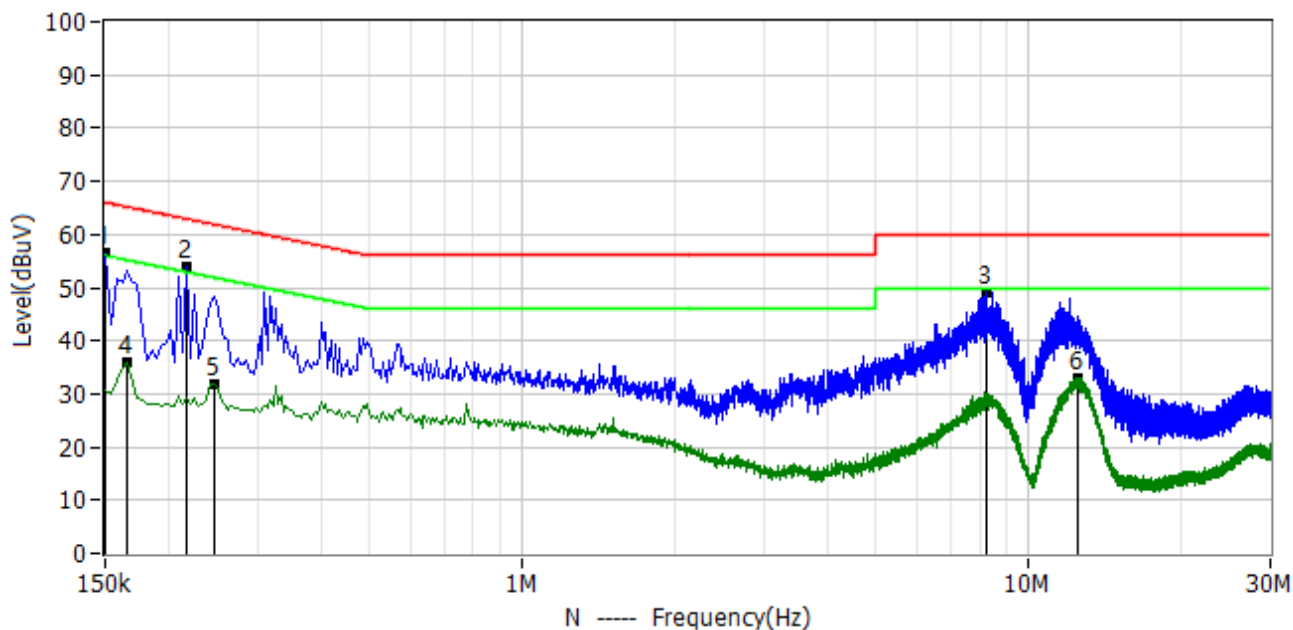
Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 26.2°C
M/N: Luna	Humidity: 60%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-13
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS+NFC+Camera recording	
Note:	



No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	150.000kHz	47.13	10.50	57.63	66.00	-8.37	PK	L1
2*	230.000kHz	39.59	10.50	50.09	62.45	-12.36	PK	L1
3*	11.662MHz	37.24	10.99	48.23	60.00	-11.77	PK	L1
4*	158.000kHz	30.10	10.50	40.60	55.57	-14.97	AV	L1
5*	486.000kHz	27.77	10.51	38.28	46.24	-7.95	AV	L1
6*	12.546MHz	23.45	11.00	34.45	50.00	-15.55	AV	L1



Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 26.2°C
M/N: Luna	Humidity: 60%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-13
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS+NFC+Camera recording	
Note:	



No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	150.000kHz	46.14	10.50	56.64	66.00	-9.36	PK	N
2*	218.000kHz	43.44	10.50	53.94	62.89	-8.96	PK	N
3*	8.282MHz	38.03	10.91	48.94	60.00	-11.06	PK	N
4*	166.000kHz	25.51	10.50	36.01	55.16	-19.15	AV	N
5*	246.000kHz	21.45	10.50	31.95	51.89	-19.95	AV	N
6*	12.450MHz	22.13	11.00	33.13	50.00	-16.87	AV	N



### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS

##### Below 1 GHz

Frequency (MHz)	Class A	Class B
	Field strength (dBuV/m) (at 3m)	Field strength (dBuV/m) (at 3m)
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

##### Above 1 GHz

Frequency (MHz)	Class A		Class B	
	Field strength (dBuV/m) (at 3m)		Field strength (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

#### Frequency Range of Radiated Disturbance Measurement

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

Note:

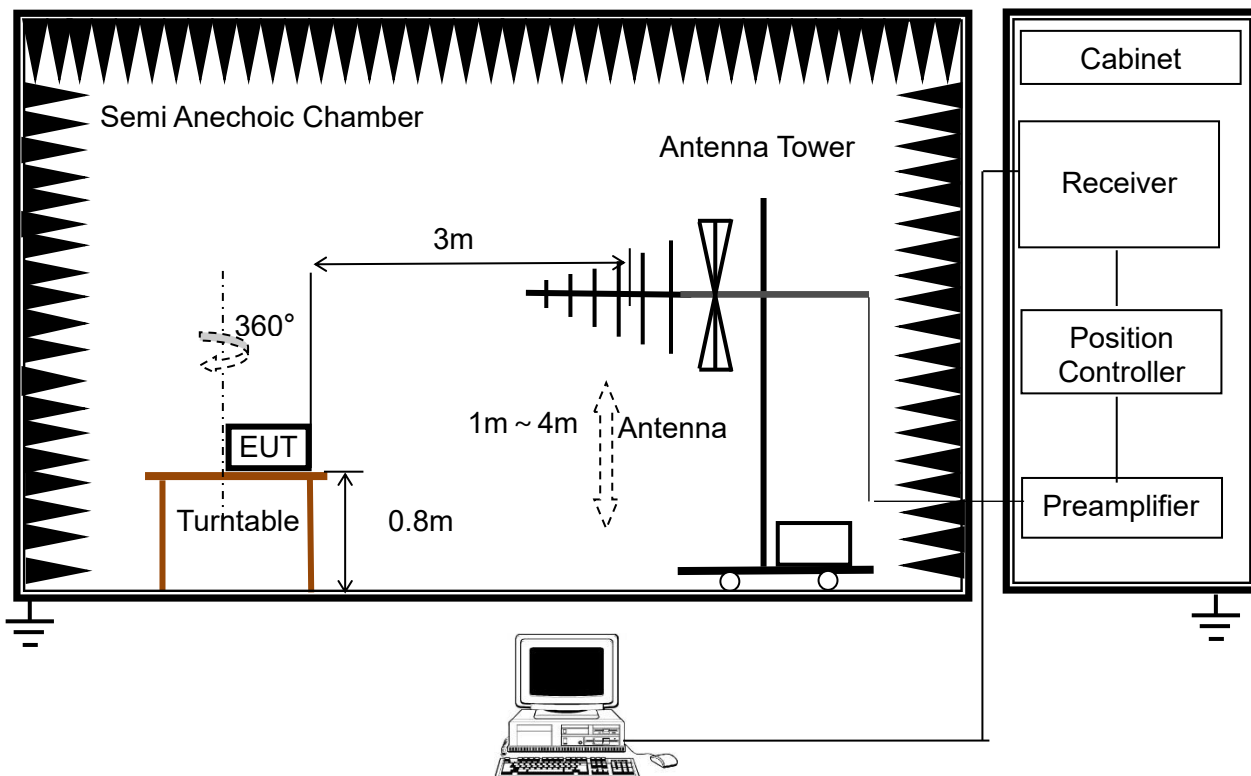
- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor,  
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use),  
 Margin Level = Measurement Value - Limit Value.

#### 3.2.2 TEST PROCEDURE

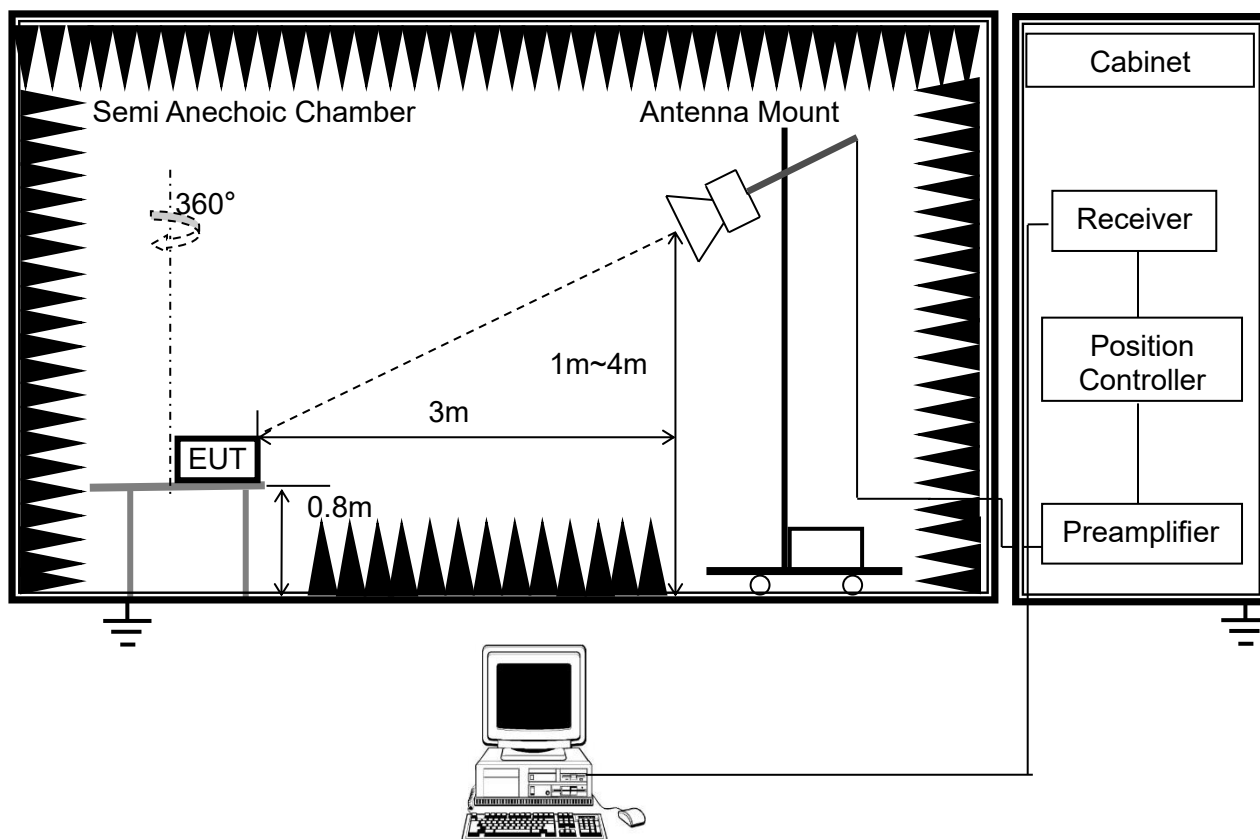
- a. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. EUT as the center to the edge of the auxiliary device, the distance from the maximum edge to the center of the antenna is 3 meter.
- c. The height of antenna is varied from 1 meter to 4 meter above the ground to determine the maximum value of the field strength. Both 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 meter and the rotatable table was turned from 0 degrees to 360 degree to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



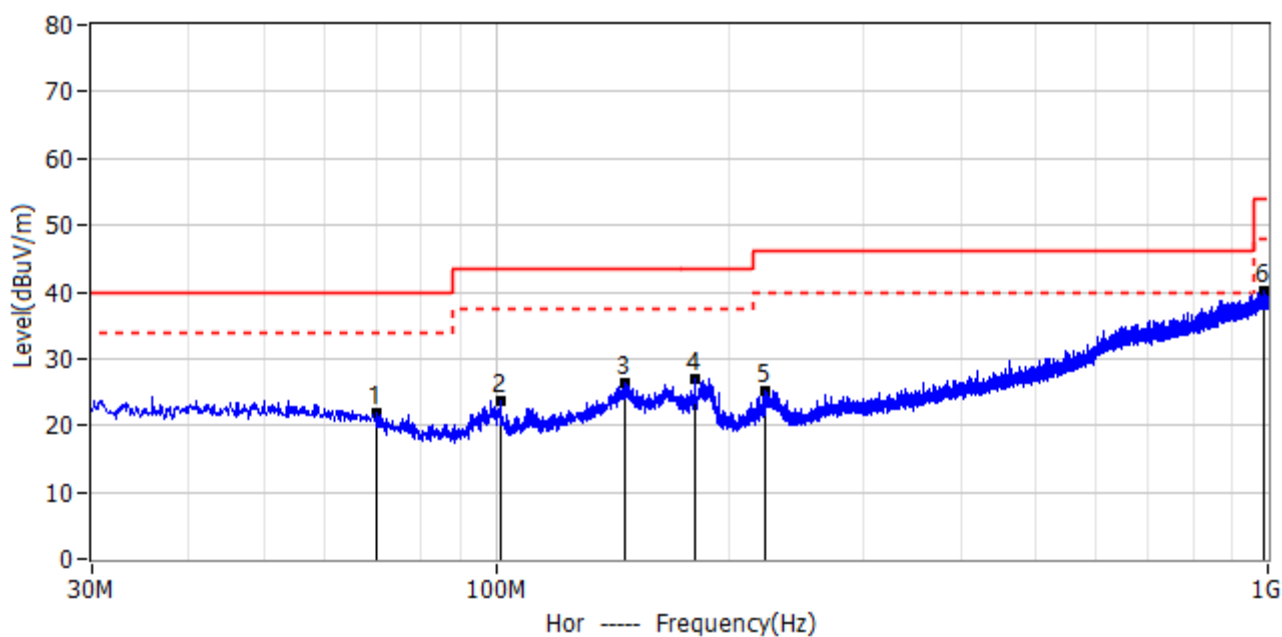
For the actual test configuration, please refer to Appendix I: Photographs of the Test Configuration





### 3.2.4 TEST RESULTS - BELOW 1GHZ

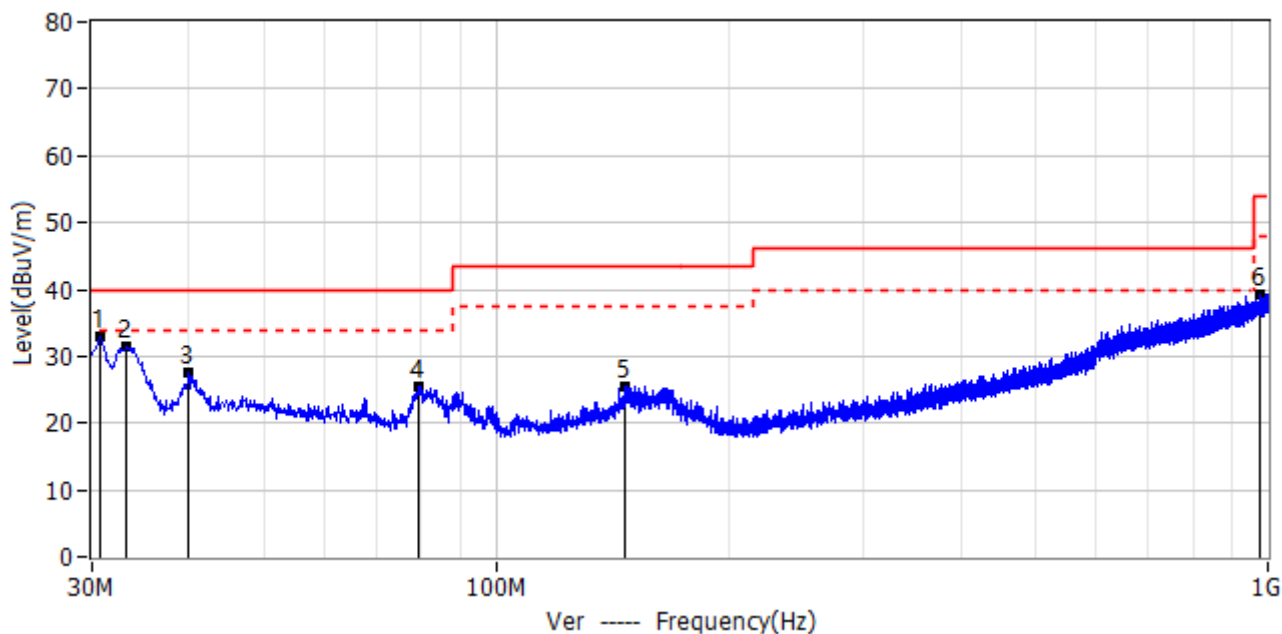
Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.4°C
M/N: Luna	Humidity: 44%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-15
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS+NFC+Camera recording	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	70.255MHz	3.86	17.95	21.81	40.00	-18.19	PK	Hor
2*	101.659MHz	7.87	15.81	23.68	43.50	-19.82	PK	Hor
3*	146.643MHz	6.65	19.67	26.32	43.50	-17.18	PK	Hor
4*	181.199MHz	8.21	18.69	26.90	43.50	-16.60	PK	Hor
5*	223.636MHz	8.35	16.85	25.20	46.00	-20.80	PK	Hor
6*	989.815MHz	5.54	34.52	40.06	54.00	-13.94	PK	Hor



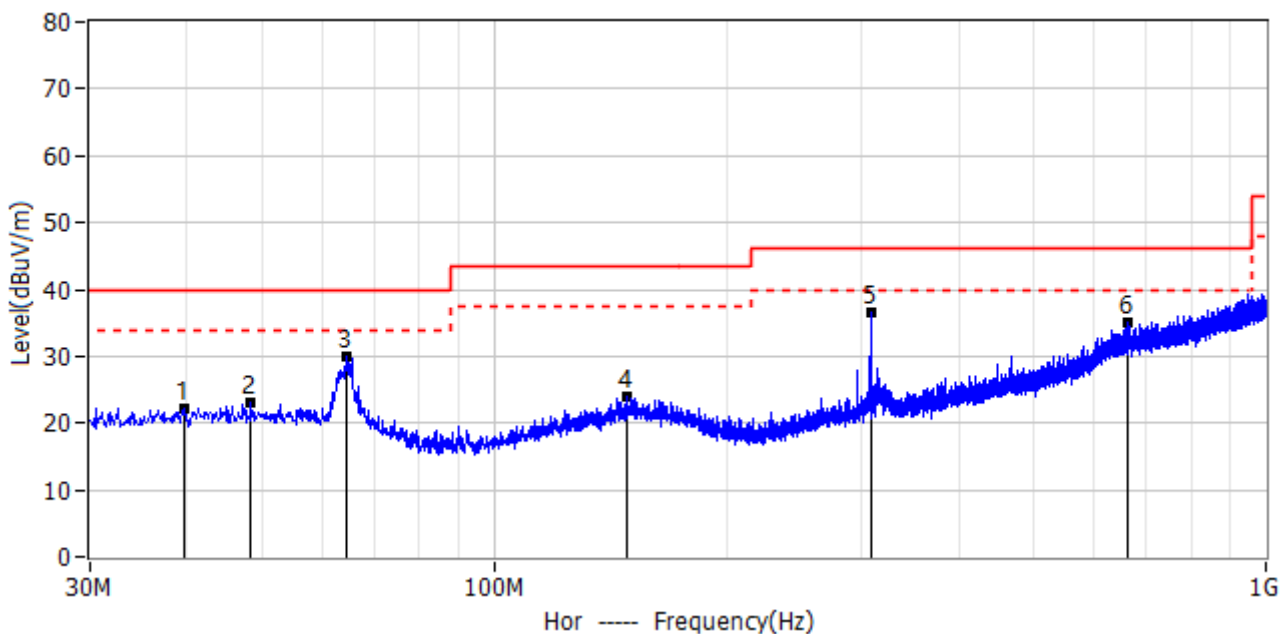
Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.4°C
M/N: Luna	Humidity: 44%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-15
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS+NFC+Camera recording	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	30.728MHz	14.67	18.25	32.92	40.00	-7.08	PK	Ver
2*	33.274MHz	13.00	18.42	31.42	40.00	-8.58	PK	Ver
3*	40.064MHz	8.10	19.38	27.48	40.00	-12.52	PK	Ver
4*	79.228MHz	10.02	15.42	25.44	40.00	-14.56	PK	Ver
5*	146.643MHz	5.79	19.67	25.46	43.50	-18.04	PK	Ver
6*	978.539MHz	4.92	34.47	39.39	54.00	-14.61	PK	Ver



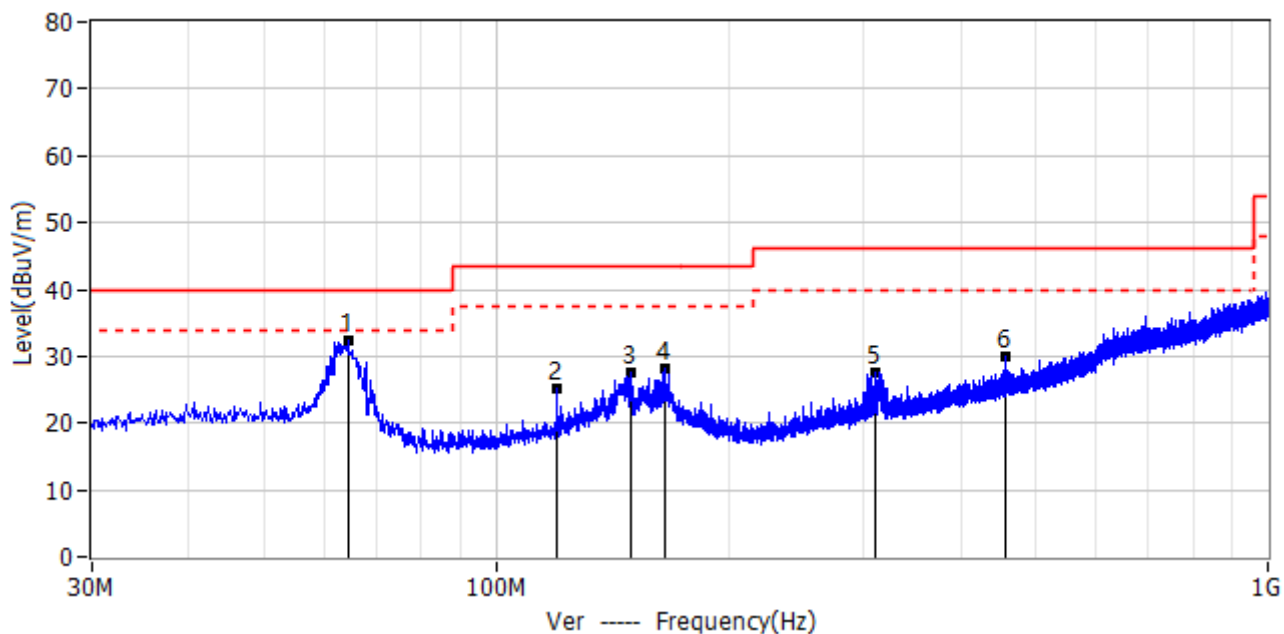
Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.4°C
M/N: Luna	Humidity: 44%RH
Test Voltage: Battery	Test Data: 2023-02-15
Test Mode: USB Data Transmission	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	39.821MHz	2.85	19.35	22.20	40.00	-17.80	PK	Hor
2*	48.430MHz	3.89	19.32	23.21	40.00	-16.79	PK	Hor
3*	64.556MHz	11.47	18.36	29.83	40.00	-10.17	PK	Hor
4*	148.946MHz	4.09	19.89	23.98	43.50	-19.52	PK	Hor
5*	307.420MHz	16.50	20.15	36.65	46.00	-9.35	PK	Hor
6*	664.138MHz	5.67	29.40	35.07	46.00	-10.93	PK	Hor



Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.4°C
M/N: Luna	Humidity: 44%RH
Test Voltage: Battery	Test Data: 2023-02-15
Test Mode: USB Data Transmission	
Note:	

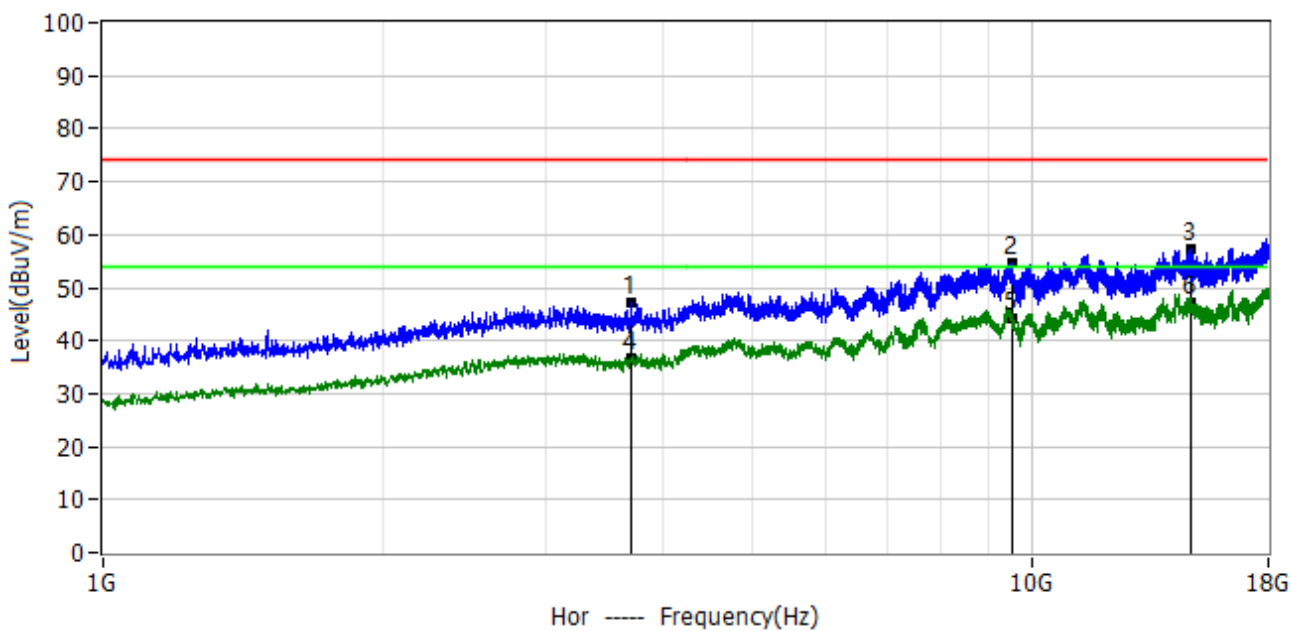


No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	64.435MHz	13.88	18.37	32.25	40.00	-7.75	PK	Ver
2*	119.968MHz	7.66	17.64	25.30	43.50	-18.20	PK	Ver
3*	149.916MHz	7.66	19.98	27.64	43.50	-15.86	PK	Ver
4*	165.315MHz	8.45	19.81	28.26	43.50	-15.24	PK	Ver
5*	309.603MHz	7.38	20.22	27.60	46.00	-18.40	PK	Ver
6*	456.558MHz	6.07	23.97	30.04	46.00	-15.96	PK	Ver



### 3.2.5 TEST RESULTS - ABOVE 1GHZ

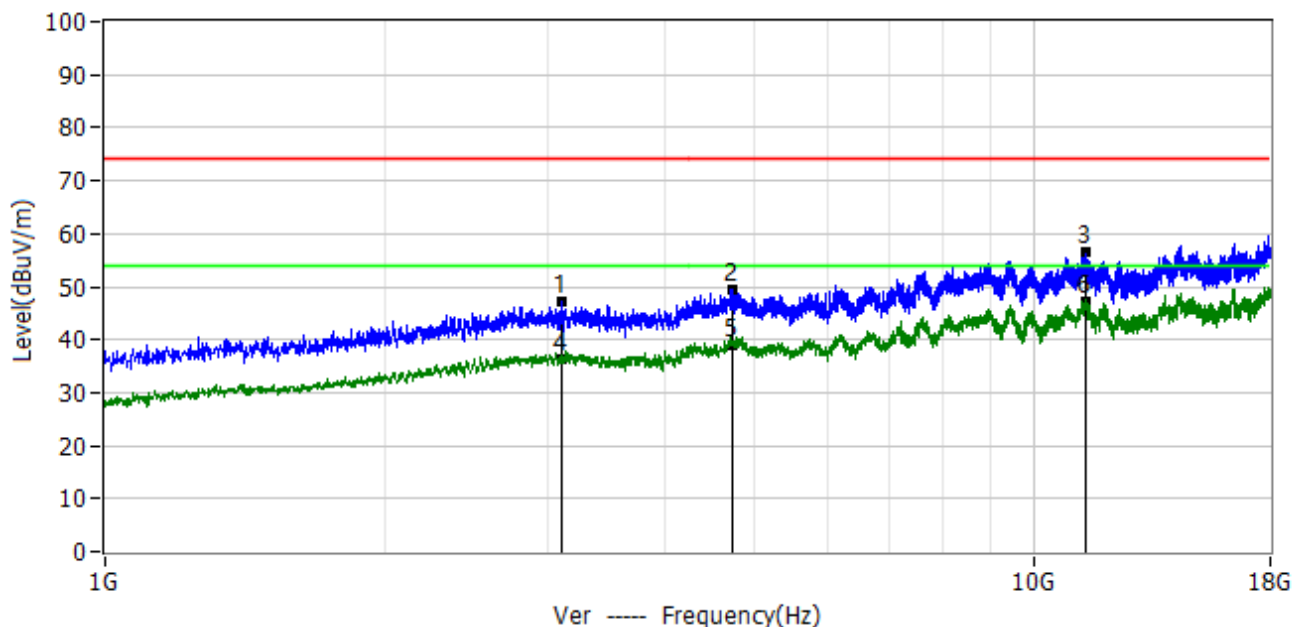
Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 22.6°C
M/N: Luna	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-14
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS+NFC+Camera recording	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	3.709GHz	55.38	-8.24	47.14	74.00	-26.86	PK	Hor
2*	9.545GHz	55.71	-1.18	54.53	74.00	-19.47	PK	Hor
3*	14.840GHz	51.49	5.95	57.44	74.00	-16.56	PK	Hor
4*	3.709GHz	45.04	-8.24	36.80	54.00	-17.20	AV	Hor
5*	9.545GHz	45.38	-1.18	44.20	54.00	-9.80	AV	Hor
6*	14.840GHz	41.15	5.95	47.10	54.00	-6.90	AV	Hor



Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 22.6°C
M/N: Luna	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-14
Test Mode: Charging +GSM link+BT+Wi-Fi+GPS+NFC+Camera recording	
Note:	

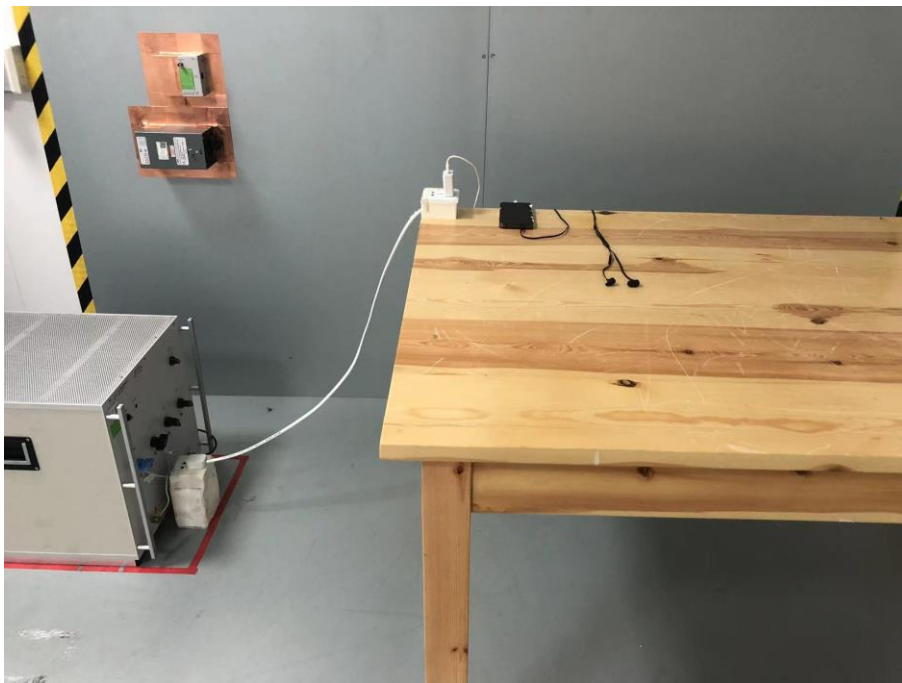


No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	3.100GHz	55.63	-8.37	47.26	74.00	-26.74	PK	Ver
2*	4.746GHz	55.56	-5.94	49.62	74.00	-24.38	PK	Ver
3*	11.389GHz	54.51	1.86	56.37	74.00	-17.63	PK	Ver
4*	3.100GHz	44.77	-8.37	36.40	54.00	-17.60	AV	Ver
5*	4.746GHz	45.04	-5.94	39.10	54.00	-14.90	AV	Ver
6*	11.389GHz	45.24	1.86	47.10	54.00	-6.90	AV	Ver

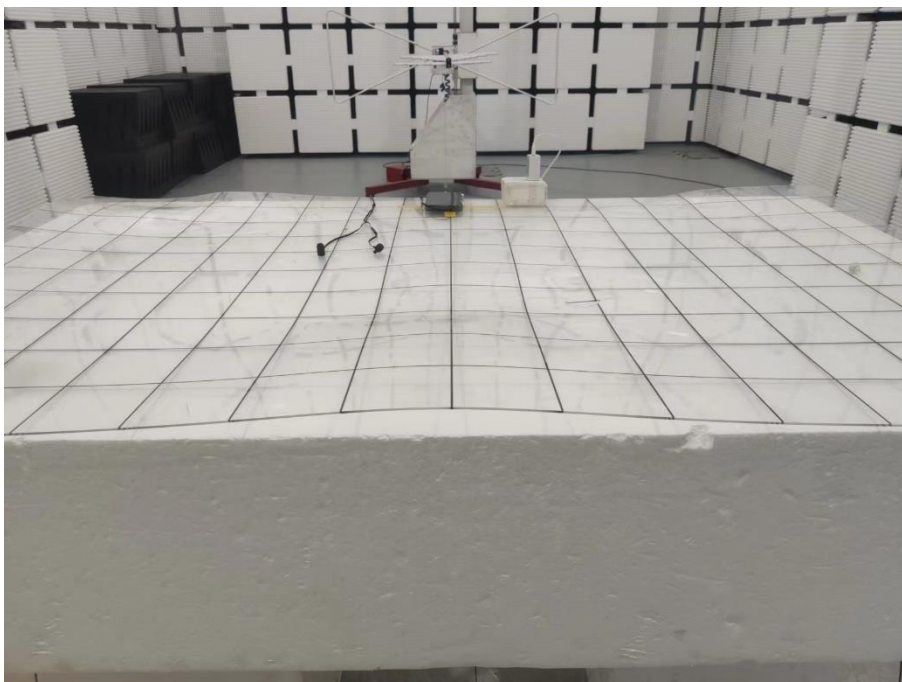


## APPENDIX I - TEST SETUP

### Conducted Emission Test Setup Photo

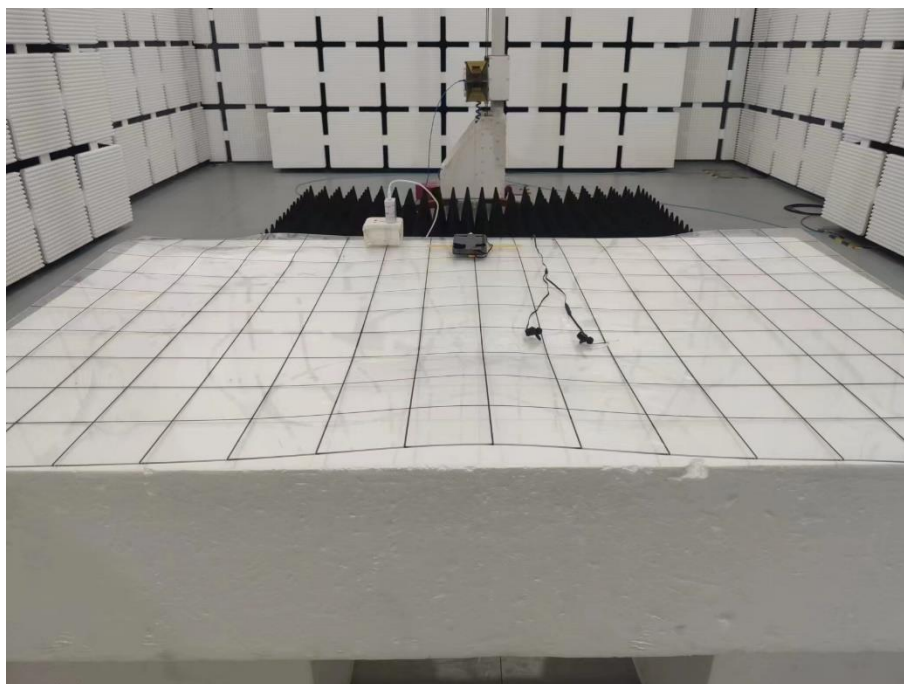


### Radiated Emission Test Setup Photo - Below 1GHz





### Radiated Emission Test Setup Photo - Above 1GHz







## APPENDIX II - PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Model Name: Luna

Photo 1



Photo 2

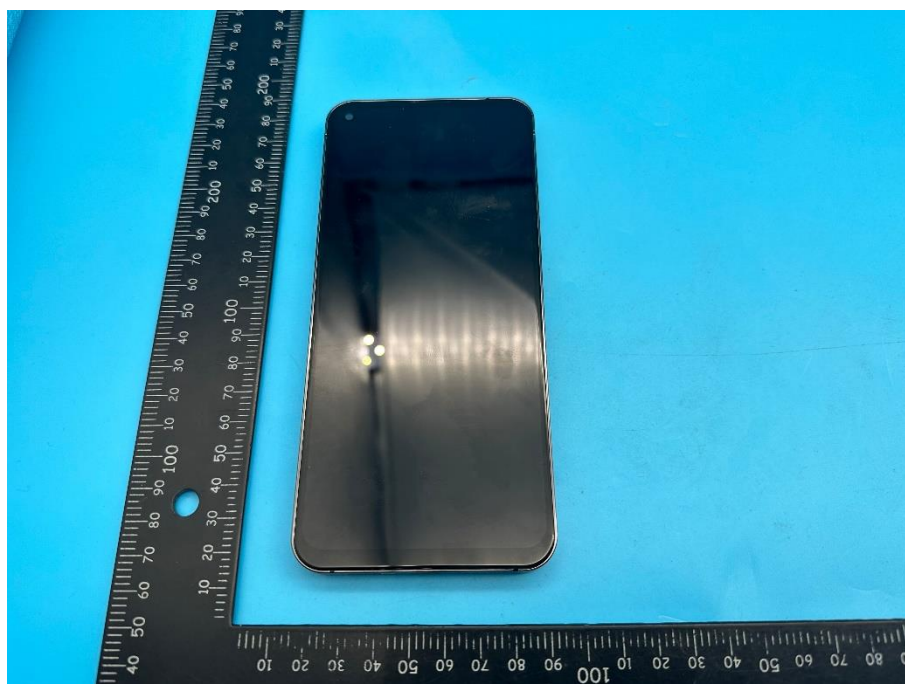




Photo 3

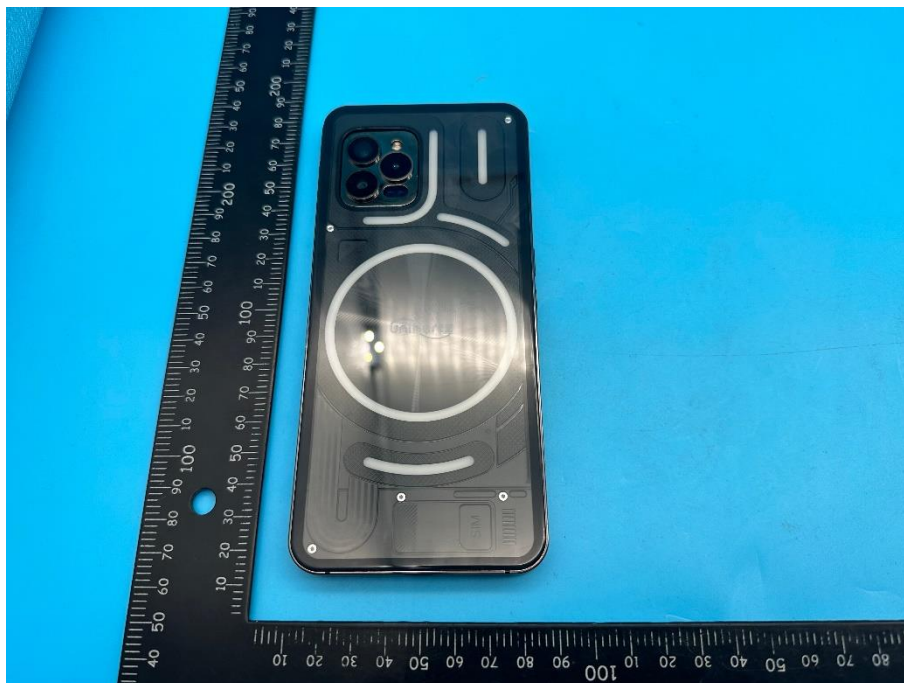


Photo 4





**Photo 5**



**Photo 6**



Photo 7



Photo 8





Photo 9



Photo 10

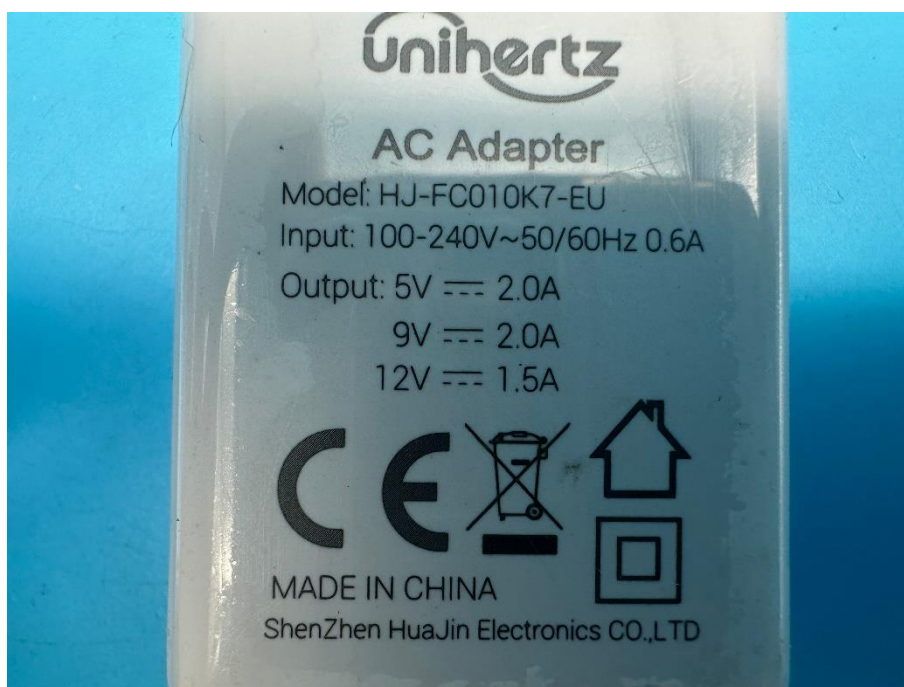


Photo 11



Photo 12

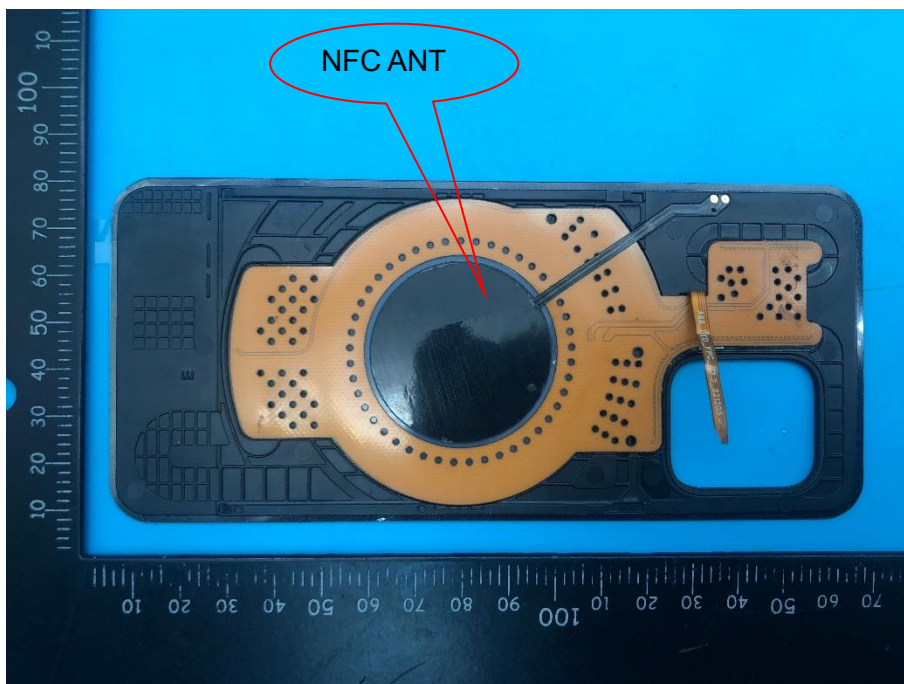


Photo 13

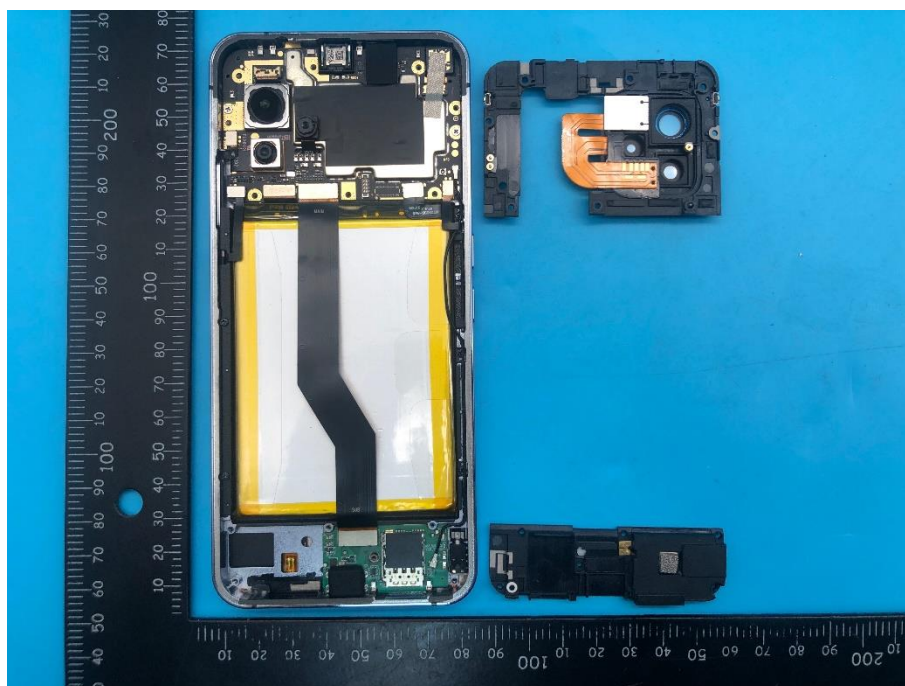


Photo 14



Photo 15

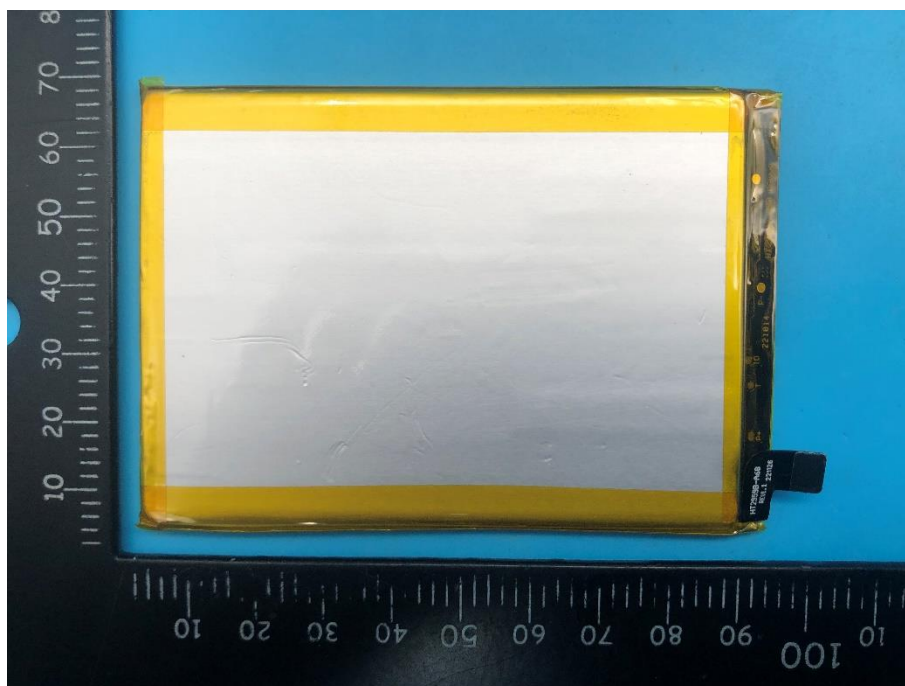


Photo 16





Photo 17

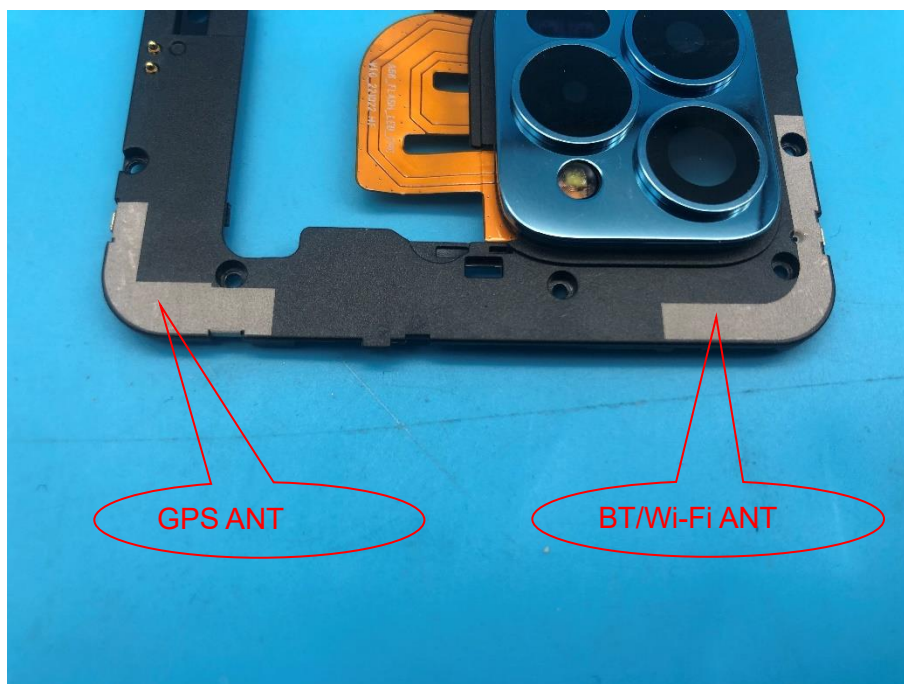


Photo 18



Photo 19

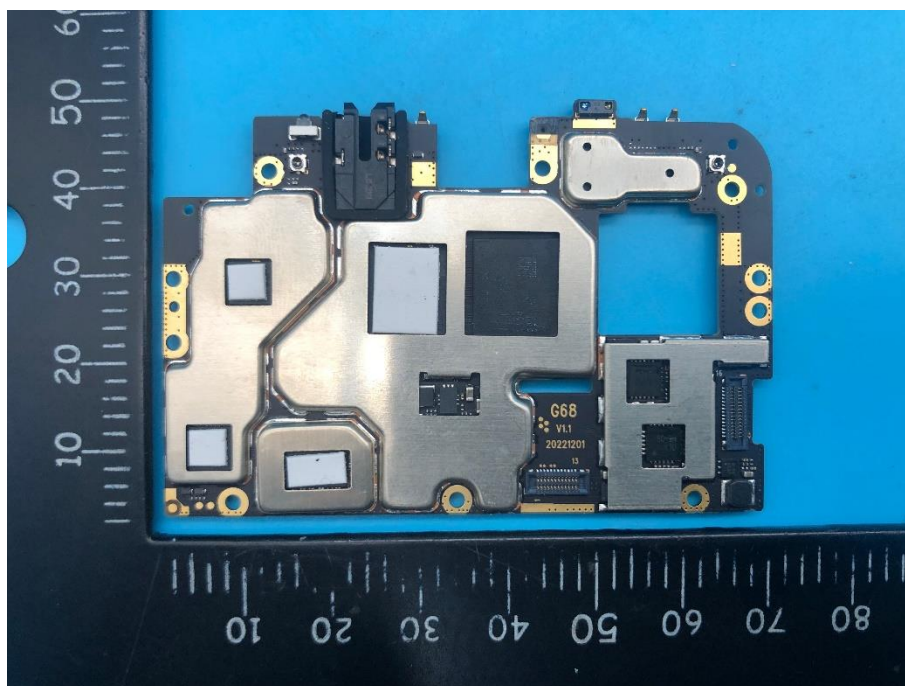


Photo 20

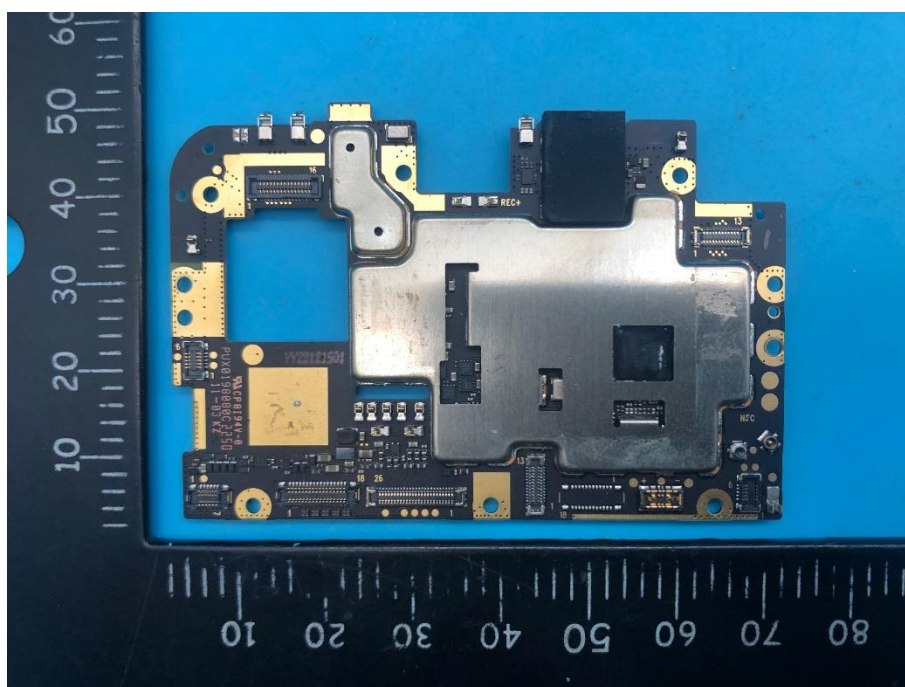


Photo 21

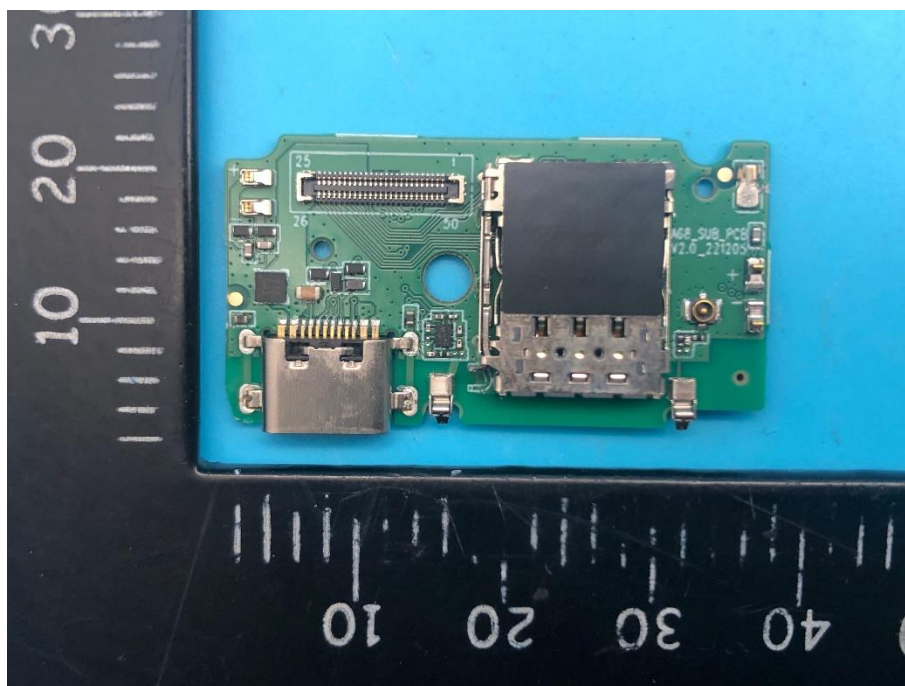


Photo 22

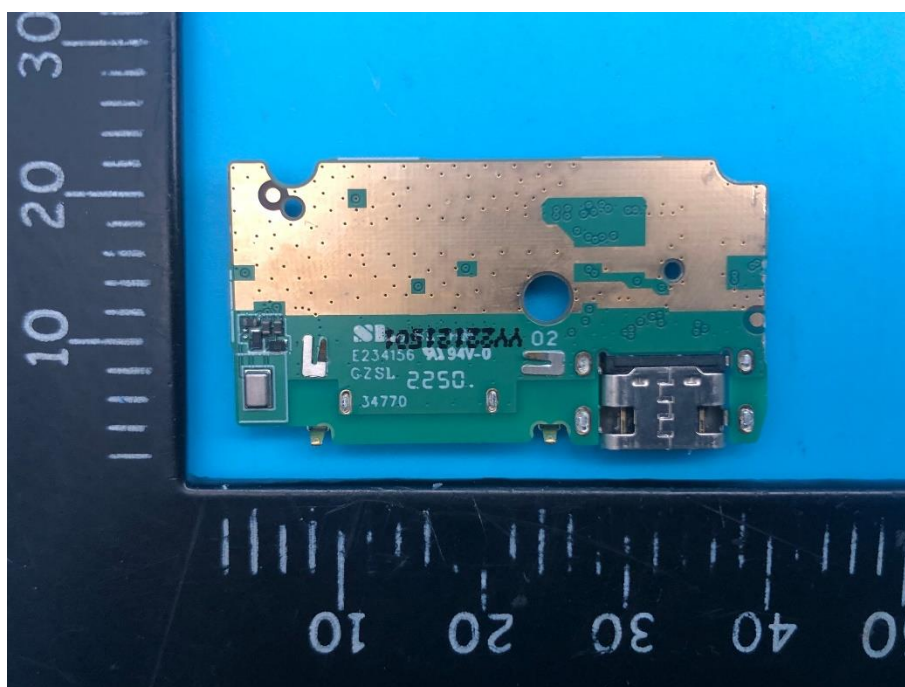


Photo 23

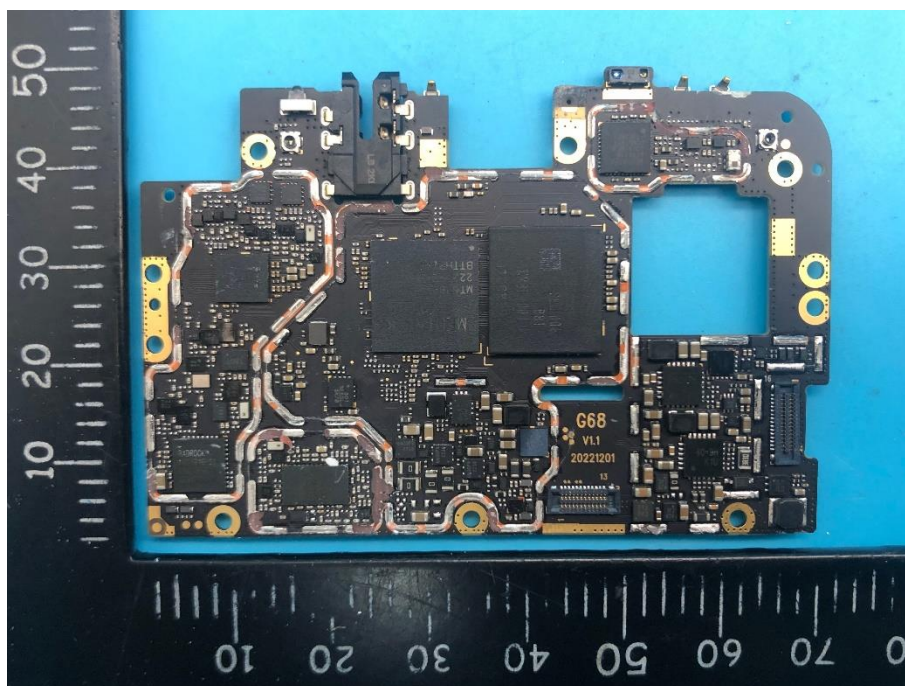


Photo 24

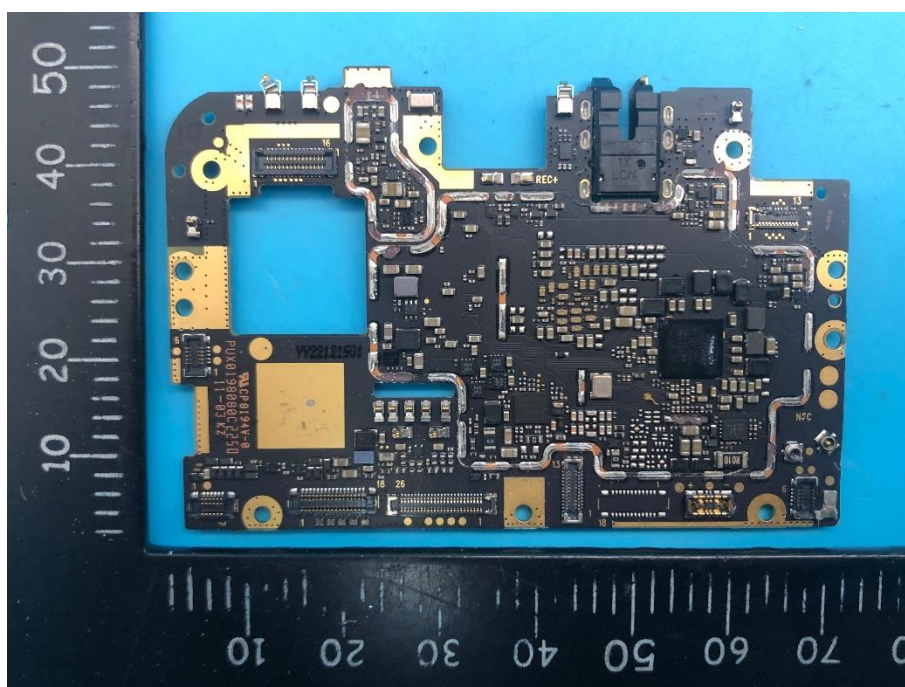


Photo 25

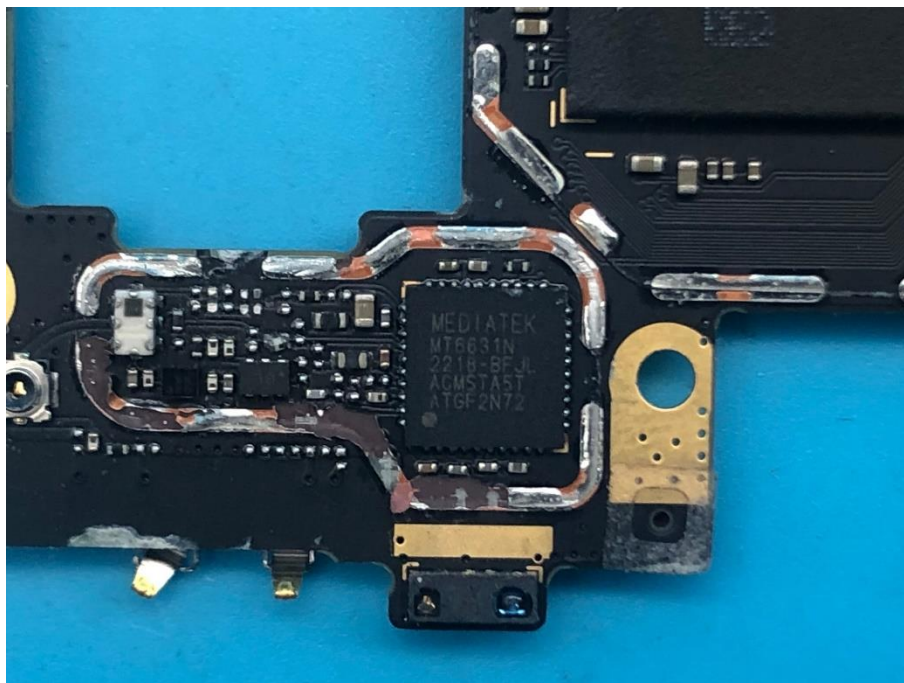


Photo 26

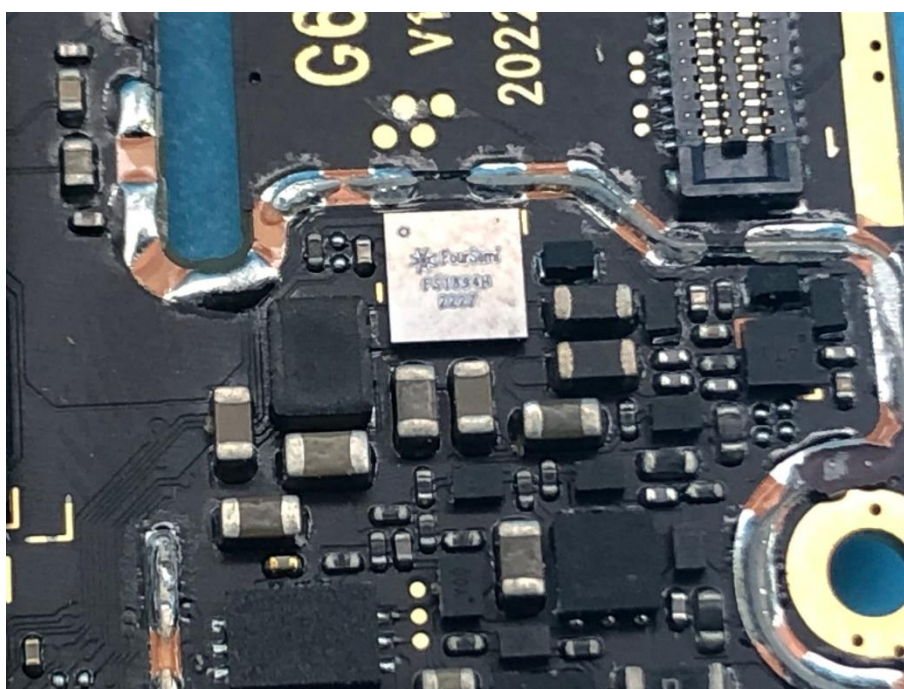


Photo 27

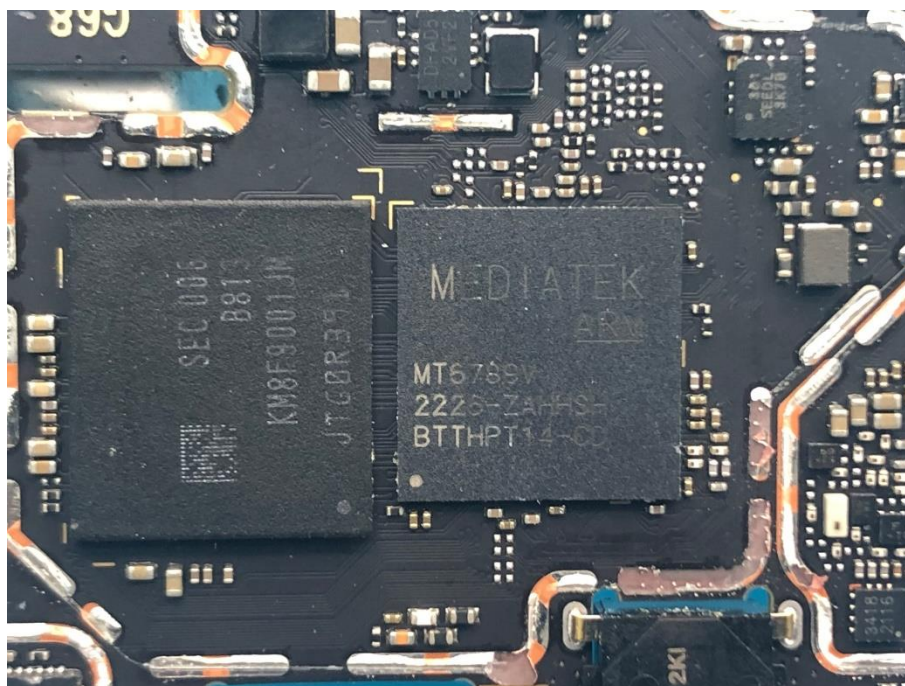


Photo 28

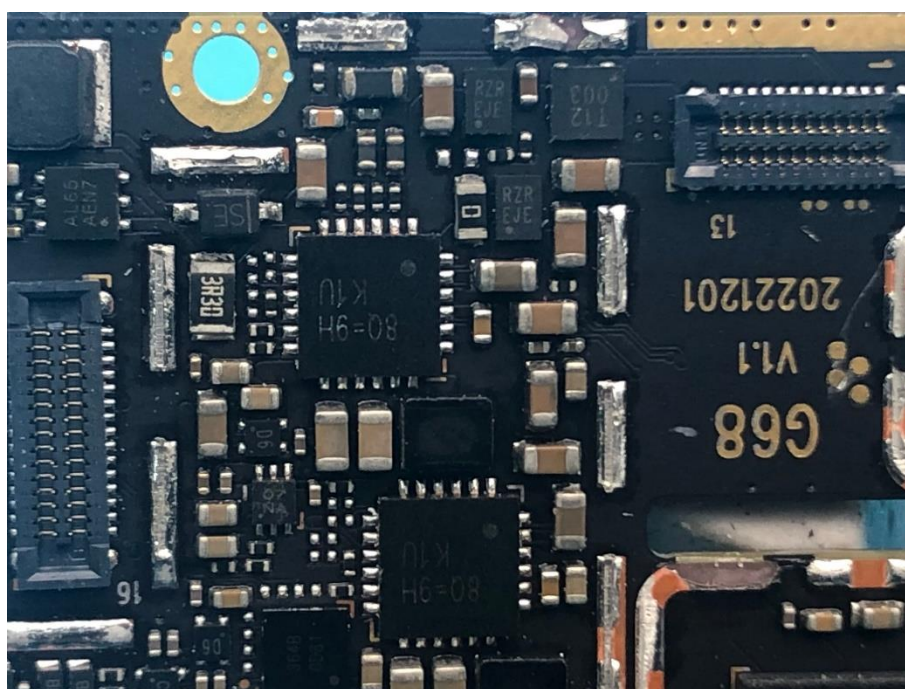


Photo 29

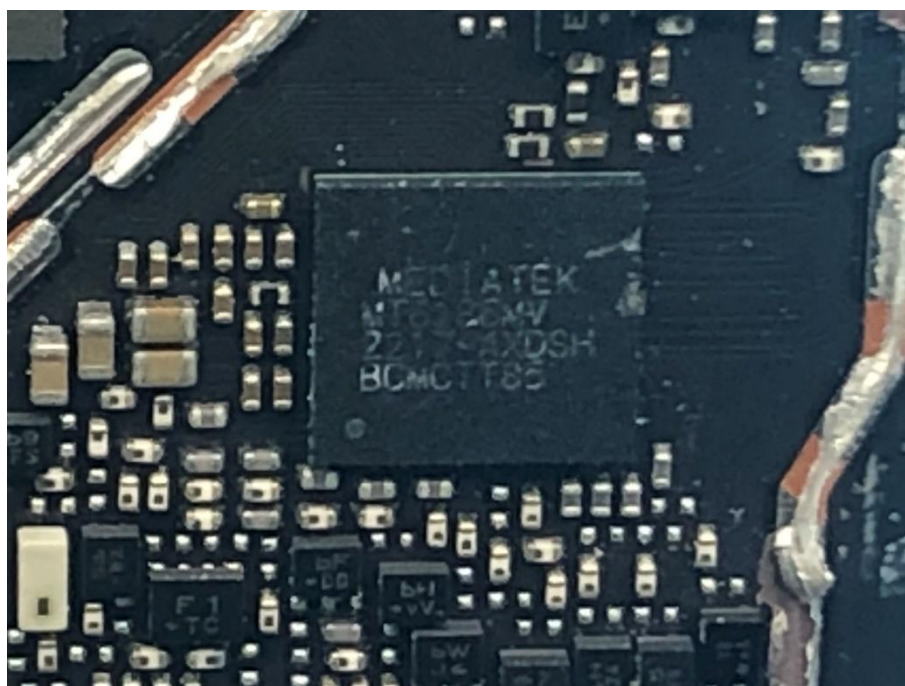


Photo 30

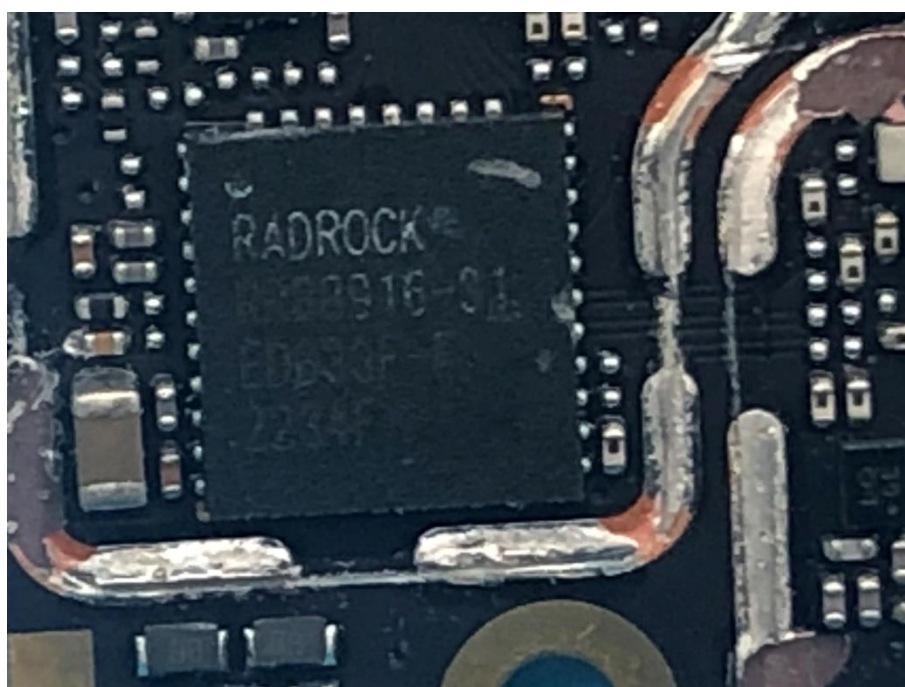


Photo 31

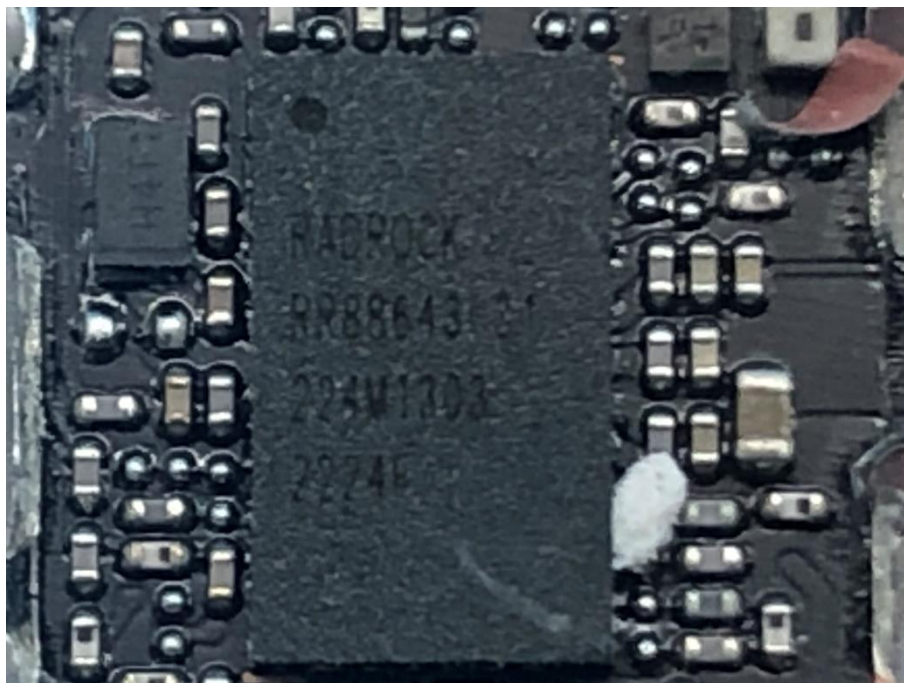
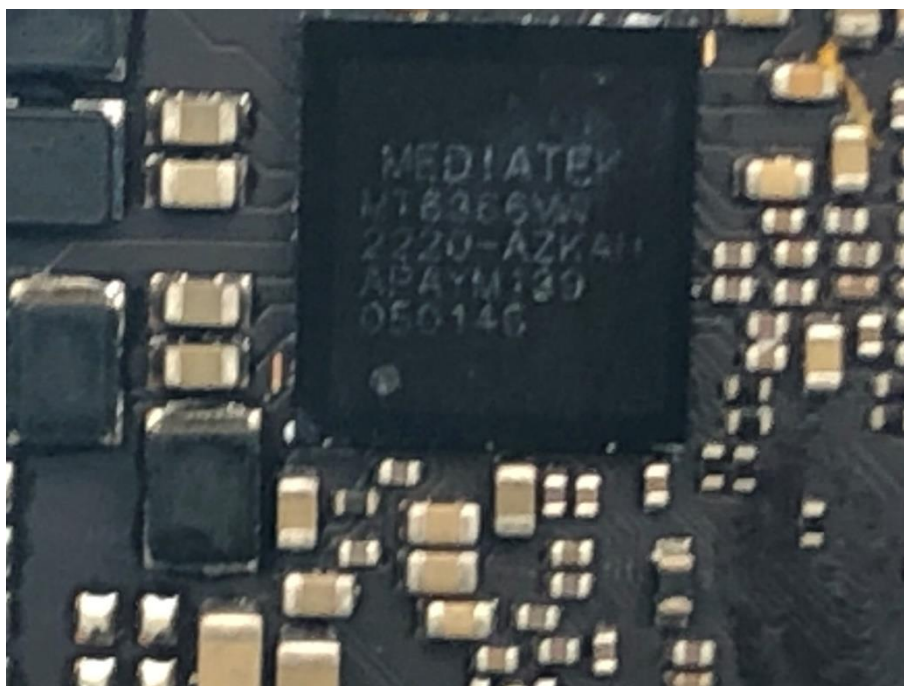


Photo 32



※※※※END OF THE REPORT※※※※