FCC EMC Test Report

Subject to

Supplier's Declaration of Conformity

Procedure

Product :	Mobile Phone
Trade Mark :	ulefone
Model Number :	GQ3106, Note 16 Pro, Note 16, Note 16P, Note 16T, Note 16 Plus, Note 16 Lite

Prepared for

Shenzhen Gotron Electronic CO.,LTD.

7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province, China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's Name.....:	Shenzhen Gotron Electronic CO.,LTD.
Address.....:	7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province, China
Manufacturer's Name .....:	Shenzhen Gotron Electronic CO.,LTD.
Address.....:	7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province, China

Product description

Product Name.....:	Mobile Phone
Model Number .....:	GQ3106, Note 16 Pro, Note 16, Note 16P, Note 16T, Note 16 Plus, Note 16 Lite
Standards .....:	47 CFR FCC part 15 subpart B, 10-1-2022 ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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Test Sample Number.....:	T230221005R001
Date of Test .....:	
Date (s) of performance of tests .....:	22 Feb. 2023 ~ 10 Mar. 2023
Date of Issue.....:	10 Mar. 2023
Test Result.....:	**Pass**

Testing Engineer : Allen. Huang
(Allen Huang)

Technical Manager : Sky Zhang
(Sky Zhang)

Authorized Signatory : Alex
(Alex)

Shenzhen NTEK Testing Technology Co., Ltd. NTEK Report Seal

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
47 CFR FCC part 15 subpart B, 10-1-2022 ANSI C63.4: 2014	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

(2) For client's request and manual description, the test will not be executed.

1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd.

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)
The Certificate Registration Number is L5516

IC-Registration : The Certificate Registration Number is CN0074

FCC- Accredited : Test Firm Registration Number: 463705
Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± U**, where expended 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	K	U(dB)
Conducted Emission	0.009kHz ~ 0.15MHz	2	2.66
Conducted Emission	0.15MHz ~ 30MHz	2	2.80
Telecom Conducted Emission (Cat 3)	0.15MHz ~ 30MHz	2	3.08
Telecom Conducted Emission (Cat 5)	0.15MHz ~ 30MHz	2	3.60
Telecom Conducted Emission (Cat 6)	0.15MHz ~ 30MHz	2	4.14
Radiated Emission	30MHz ~ 1000MHz	2	2.64
Radiated Emission	1000MHz ~ 18000MHz	2	5.10
Power Clamp	30MHz ~ 300MHz	2	2.20

Revision History

Report No.	Version	Description	Issued Date
STR230221007001E	Rev.01	Initial issue of report	Mar. 10, 2023

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone
Model Number	GQ3106
Additional Model Number(s)	Note 16 Pro, Note 16, Note 16P, Note 16T, Note 16 Plus, Note 16 Lite
Model Difference	All models are identical except model's name.
Product Description	The EUT is a Mobile Phone. Operating frequency: 5 GHz by WiFi (Declaration by factory) Connecting I/O port: N/A Based on the application, features, or specification exhibited in User's Manual. More details of EUT technical specification, please refer to the User's Manual.
Power Source	AC Voltage
Power Rating	Adapter Model: HJ-0502000W2-US Adapter Rating: Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5V, 2000mA Battery Rating: DC 3.85V, 4400mAh

2.2 DESCRIPTION OF TEST MODES

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

All test modes in the table below are tested, the worst case is listed on this report.

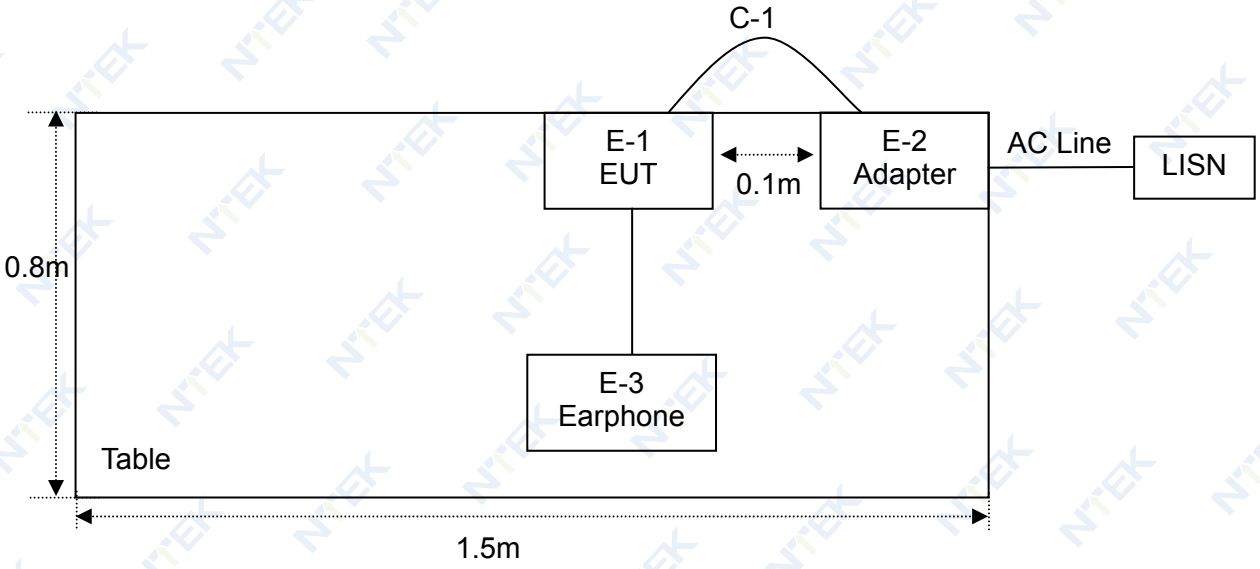
Pretest Mode	Description
Mode 1	Charging + REC(Front / Rear)
Mode 2	Charging + TF Playing
Mode 3	Data Transmission
Mode 4	Charging + FM(87.6MHz / 98MHz / 107.9MHz)

For Conducted Test	
Final Test Mode	Description
Mode 1	Charging + REC(Front / Rear)
Mode 2	Charging + TF Playing
Mode 3	Data Transmission
Mode 4	Charging + FM(98MHz)

For Radiated Test	
Final Test Mode	Description
Mode 1	Charging + REC(Front / Rear)
Mode 2	Charging + TF Playing
Mode 3	Data Transmission
Mode 4	Charging + FM(87.6MHz / 98MHz / 107.9MHz)

2.3 DESCRIPTION OF TEST SETUP

Mode CE: Charging + REC(Rear)



2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Mobile Phone	ulefone	GQ3106	N/A	EUT
E-2	Adapter	N/A	HJ-0502000W2-US	N/A	EUT
E-3	Earphone	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	100cm	

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

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

(3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

2.5 MEASUREMENT INSTRUMENTS LIST

2.5.1 CONDUCTED TEST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Single Phase LISN	R&S	ENV216	101490	Jun. 28, 2022	Jun. 27, 2023	1 year
2	Single Phase LISN	R&S	ENV216	101313	Apr. 06, 2022	Apr. 05, 2023	1 year
3	Three-Phase LISN	SCHWARZBECK	NNLK 8129	8129245	Apr. 06, 2022	Apr. 05, 2023	1 year
4	Low Frequency Cable	N/A	C-01	N/A	May 11, 2020	May 10, 2023	3 years
5	50Ω Coaxial Switch	Anritsu	MP59B	6200983704	May 11, 2020	May 10, 2023	3 years
6	EMI Test Receiver	R&S	ESCI	101160	Apr. 06, 2022	Apr. 05, 2023	1 year

2.5.2 RADIATED TEST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	EMI Test Receiver	R&S	ESPI7	101318	Apr. 06, 2022	Apr. 05, 2023	1 year
2	Bilog Antenna	TESEQ	CBL6111D	31216	Mar. 30, 2022	Mar. 29, 2023	1 year
3	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	May 11, 2020	May 10, 2023	3 years
4	Cable	Talent Microwave	A81-NWMSMAM-12M	21120897	Dec. 16, 2021	Dec. 15, 2024	3 years
5	Cable	Talent Microwave	A81-NMNM-10M	22084896	Sep. 09, 2022	Sep. 08, 2025	3 years
6	Cable	Talent Microwave	A81-NMNM-2M	22084895	Sep. 09, 2022	Sep. 08, 2025	3 years
7	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	584	Jan. 11, 2023	Jan. 10, 2024	1 year
8	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	586	Jan. 11, 2023	Jan. 10, 2024	1 year
9	Attenuator	Eastsheep	5W-N-JK-6G-6DB	N/A	Aug. 14, 2022	Aug. 13, 2023	1 year
10	Broadband Horn Antenna	EM	EM-AH-10180	2011071402	Mar. 31, 2022	Mar. 30, 2023	1 year
11	Broadband Horn Antenna	SCHWARZBECK	BBHA 9120 D	2816	Jan. 12, 2023	Jan. 11, 2024	1 year
12	Broadband Horn Antenna	SCHWARZBECK	BBHA 9120 D	2817	Jan. 12, 2023	Jan. 11, 2024	1 year
13	Spectrum Analyzer	Agilent	E4407B	MY45108040	Apr. 01, 2022	Mar. 31, 2023	1 year
14	Pre-Amplifier	EMC	EMC051835SE	980246	Jun. 17, 2022	Jun. 16, 2023	1 year
15	Cable	Keysight	A40-2.92M2.92M-2M	1808041	Nov. 01, 2022	Oct. 31, 2023	3 years
16	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	Nov. 07, 2022	Nov. 06, 2023	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150kHz-30MHz)

FREQUENCY (MHz)	☐Class A (dBμV)		☒Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 - 5.0	73.00	60.00	56.00	46.00
5.0 - 30.0	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.

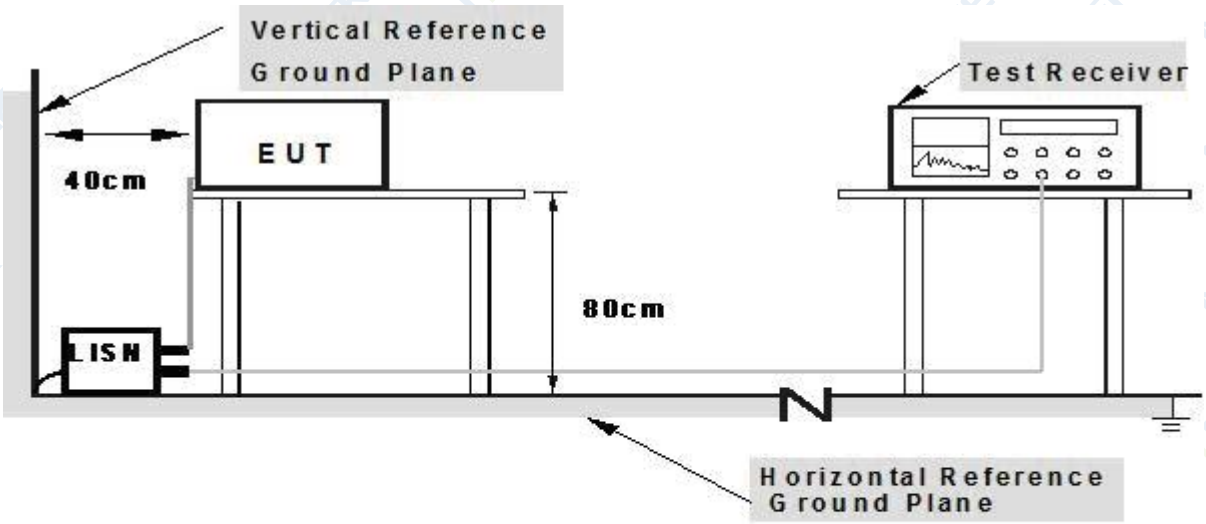
The following table is the setting of the receiver

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 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN 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



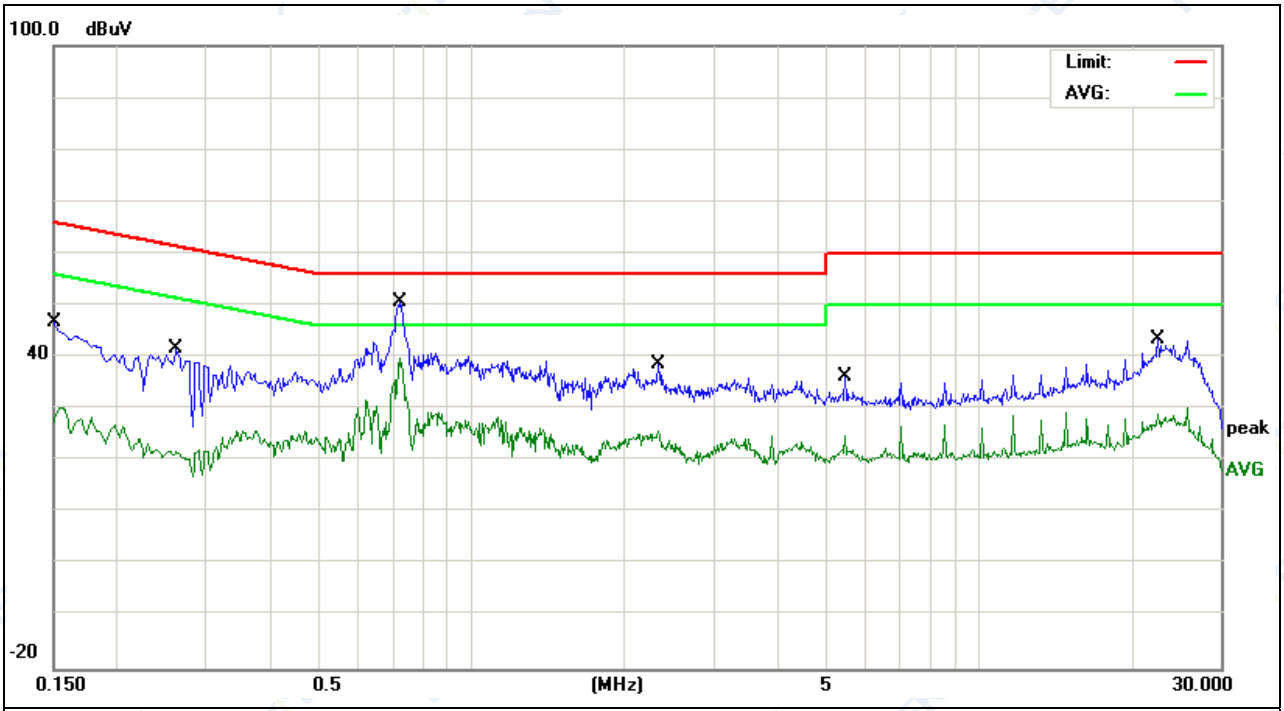
Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.1.5 TEST RESULTS

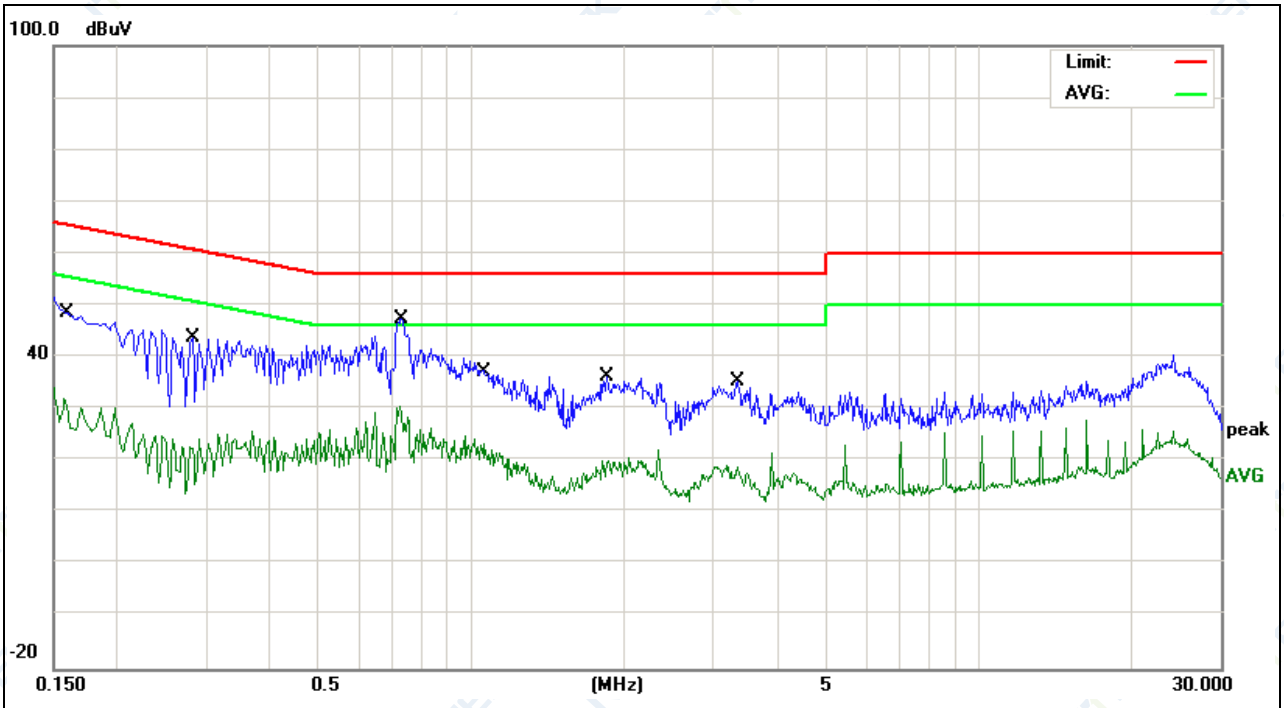
EUT:	Mobile Phone	Model Name:	GQ3106
Temperature:	22.9℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2023-02-24
Test Mode:	Charging + REC(Rear)	Phase:	L
Test Voltage:	AC 120V/60Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	37.19	9.60	46.79	65.99	-19.20	QP	
2		0.1500	18.10	9.60	27.70	55.99	-28.29	AVG	
3		0.2620	31.93	9.63	41.56	61.36	-19.80	QP	
4		0.2620	12.19	9.63	21.82	51.36	-29.54	AVG	
5	*	0.7220	40.91	9.67	50.58	56.00	-5.42	QP	
6		0.7220	28.76	9.67	38.43	46.00	-7.57	AVG	
7		2.3420	28.93	9.70	38.63	56.00	-17.37	QP	
8		2.3420	16.00	9.70	25.70	46.00	-20.30	AVG	
9		5.4660	26.42	9.78	36.20	60.00	-23.80	QP	
10		5.4660	14.98	9.78	24.76	50.00	-25.24	AVG	
11		22.6420	33.09	10.23	43.32	60.00	-16.68	QP	
12		22.6420	18.71	10.23	28.94	50.00	-21.06	AVG	

Remark:
Correct Factor = Insertion Loss + Cable Loss
Measurement Level = Reading Level + Correct Factor
Over Level = Measurement Level - Limit

EUT:	Mobile Phone	Model Name:	GQ3106
Temperature:	22.9℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2023-02-24
Test Mode:	Charging + REC(Rear)	Phase:	N
Test Voltage:	AC 120V/60Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1607	38.65	9.65	48.30	65.42	-17.12	QP	
2		0.1607	18.66	9.65	28.31	55.42	-27.11	AVG	
3		0.2819	34.19	9.63	43.82	60.76	-16.94	QP	
4		0.2819	12.81	9.63	22.44	50.76	-28.32	AVG	
5	*	0.7300	37.79	9.67	47.46	56.00	-8.54	QP	
6		0.7300	19.61	9.67	29.28	46.00	-16.72	AVG	
7		1.0740	27.06	9.68	36.74	56.00	-19.26	QP	
8		1.0740	10.62	9.68	20.30	46.00	-25.70	AVG	
9		1.8500	26.48	9.67	36.15	56.00	-19.85	QP	
10		1.8500	10.12	9.67	19.79	46.00	-26.21	AVG	
11		3.3620	25.65	9.70	35.35	56.00	-20.65	QP	
12		3.3620	9.09	9.70	18.79	46.00	-27.21	AVG	

Remark:
Correct Factor = Insertion Loss + Cable Loss
Measurement Level = Reading Level + Correct Factor
Over Level = Measurement Level - Limit

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	☐Class A (at 3m)	☒Class B (at 3m)
	dBμV/m	dBμV/m
30 ~ 88	49.5	40.0
88 ~ 216	53.9	43.5
216 ~ 960	56.9	46.0
Above 960	60.0	54.0

Notes:

(1) The limit for radiated test was performed according to as following: FCC PART 15B.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBμV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

a. The measuring distance of at 3m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

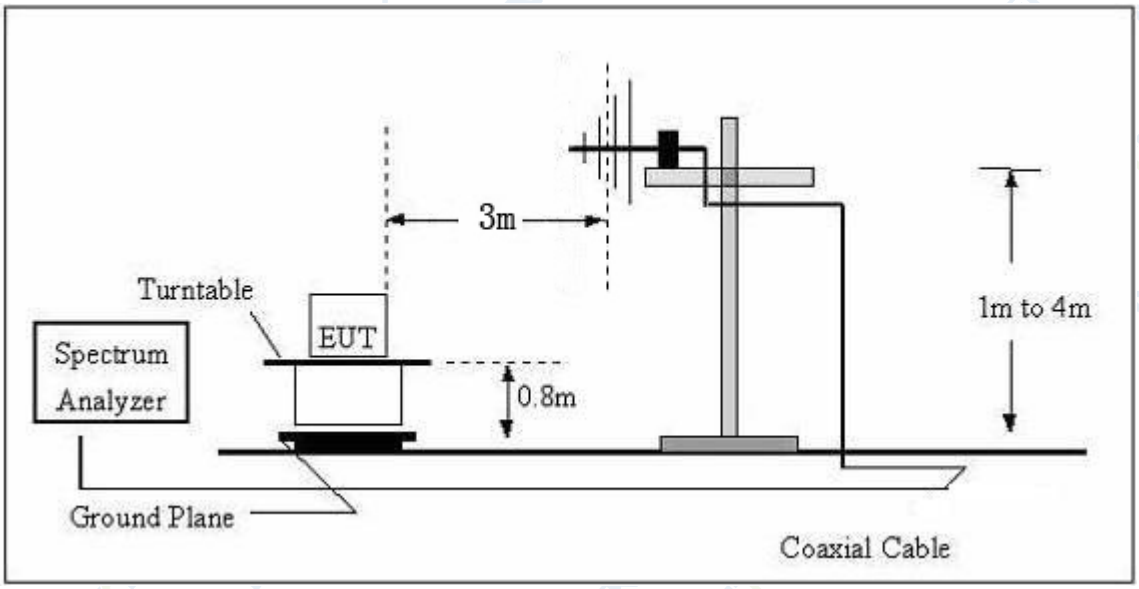
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked And then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.

e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.

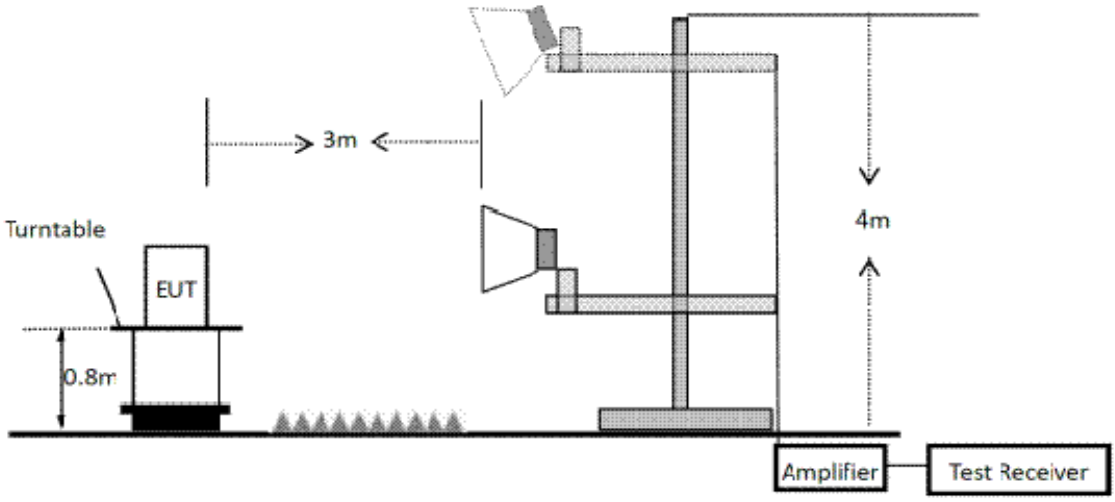
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.2.3 TEST SETUP

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



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

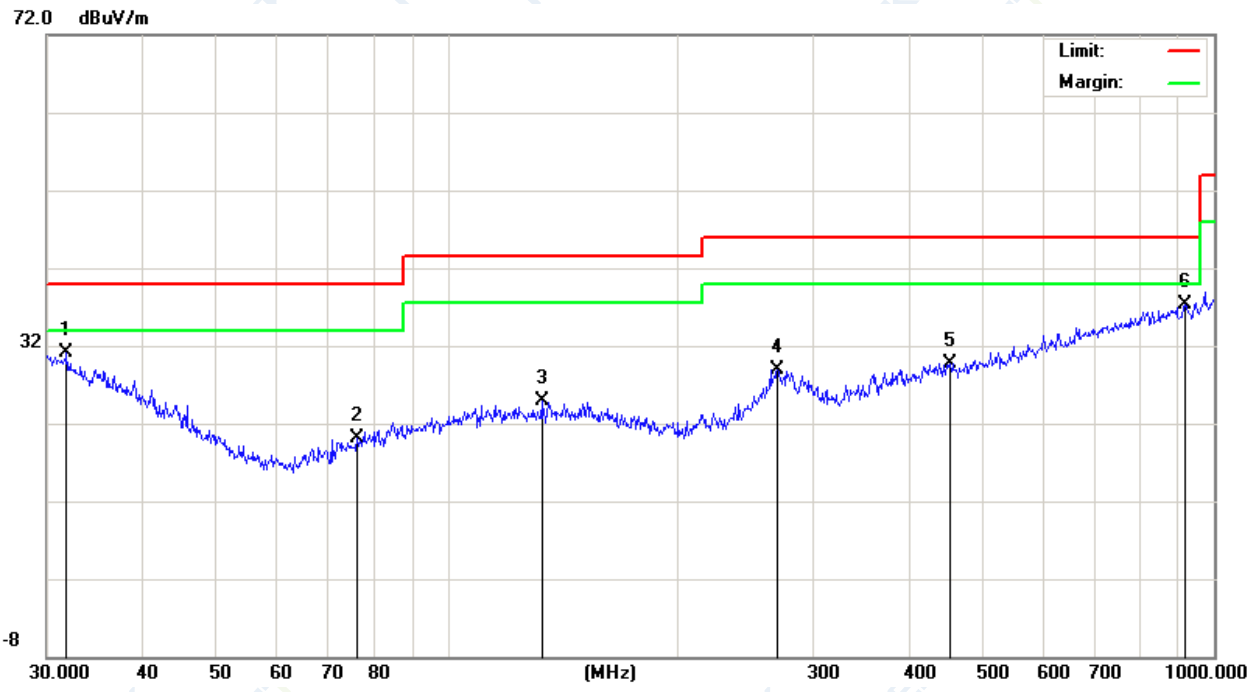


3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.5 TEST RESULTS(30-1000MHz)

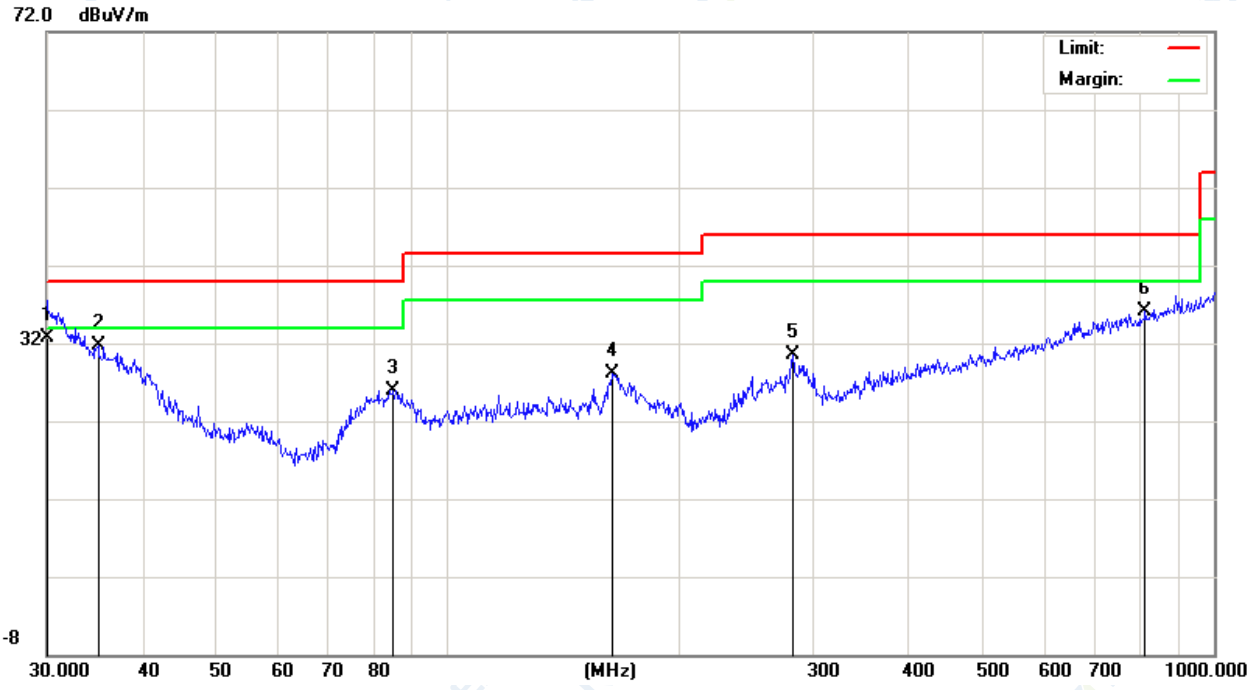
EUT:	Mobile Phone	Model Name:	GQ3106
Temperature:	25.5℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Date:	2023-03-04
Test Mode:	Charging + REC(Rear)	Polarization:	Horizontal
Test Power:	AC 120V/60Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		31.8427	6.22	24.87	31.09	40.00	-8.91	QP			
2		76.2442	5.31	14.74	20.05	40.00	-19.95	QP			
3		132.6850	6.40	18.48	24.88	43.50	-18.62	QP			
4		269.4284	9.56	19.40	28.96	46.00	-17.04	QP			
5		452.7197	5.68	23.98	29.66	46.00	-16.34	QP			
6	*	916.0687	6.70	30.69	37.39	46.00	-8.61	QP			

Remark:
Correct Factor = Antenna Factor + Cable Loss – Pre-Amplifier gain
Measurement Level = Reading Level + Correct Factor
Over Level = Measurement Level - Limit

EUT:	Mobile Phone	Model Name:	GQ3106
Temperature:	25.5℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Date:	2023-03-04
Test Mode:	Charging + REC(Rear)	Polarization:	Vertical
Test Power:	AC 120V/60Hz		

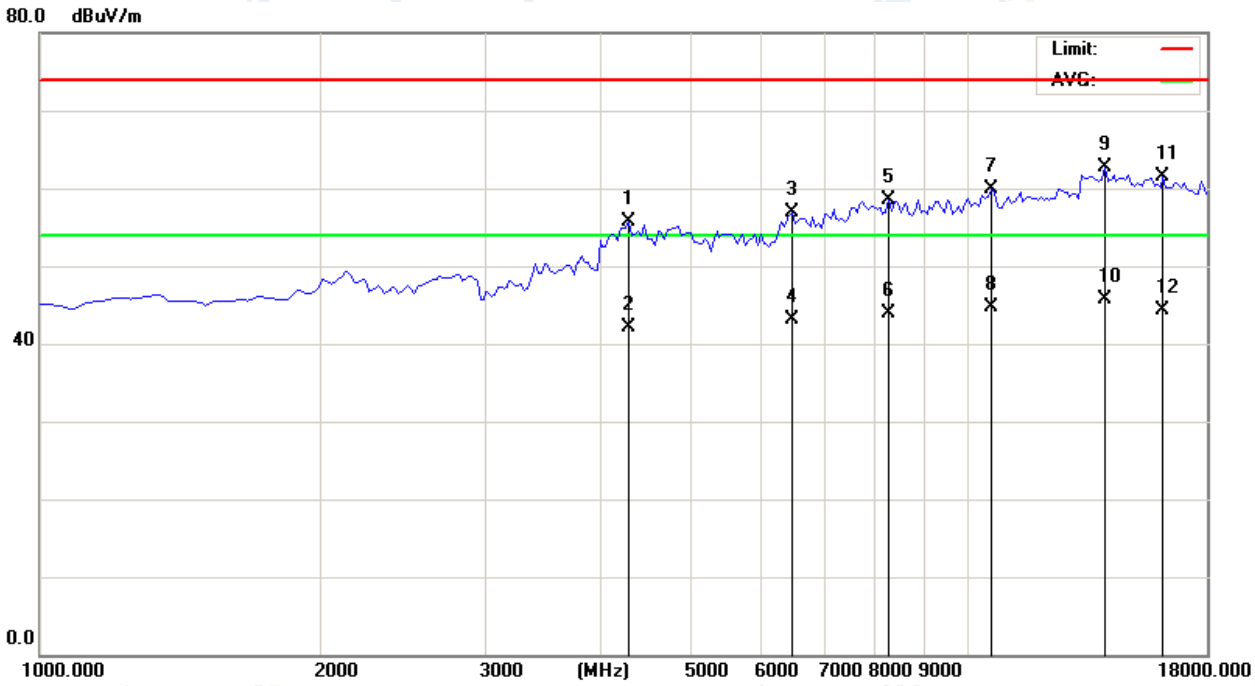


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	30.0000	6.82	25.87	32.69	40.00	-7.31	QP			
2		35.0048	8.30	23.49	31.79	40.00	-8.21	QP			
3		84.9995	9.51	16.41	25.92	40.00	-14.08	QP			
4		164.3301	10.14	17.90	28.04	43.50	-15.46	QP			
5		281.9946	10.37	20.08	30.45	46.00	-15.55	QP			
6		813.1115	6.54	29.60	36.14	46.00	-9.86	QP			

Remark:
Correct Factor = Antenna Factor + Cable Loss – Pre-Amplifier gain
Measurement Level = Reading Level + Correct Factor
Over Level = Measurement Level - Limit

3.2.6 TEST RESULTS(Above 1000MHz)

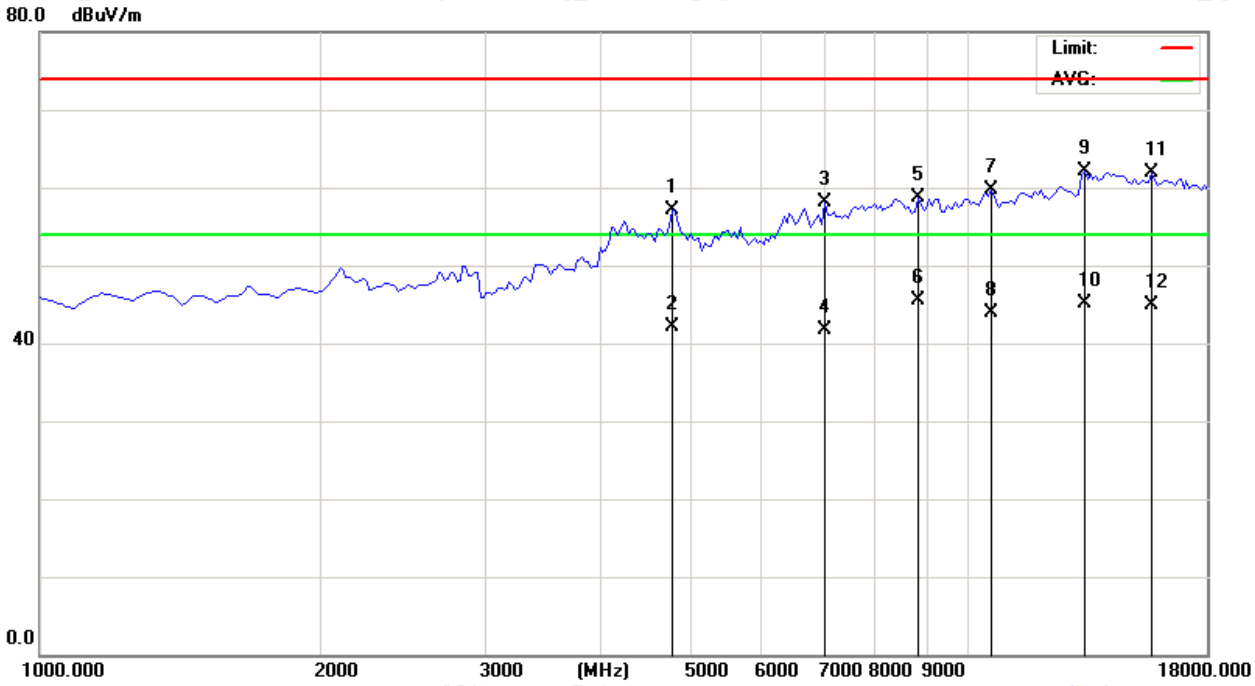
EUT:	Mobile Phone	Model Name:	GQ3106
Temperature:	25.5℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Date:	2023-03-04
Test Mode:	Charging + REC(Rear)	Polarization:	Horizontal
Test Power:	AC 120V/60Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4315.000	37.86	17.82	55.68	74.00	-18.32	peak			
2		4315.000	24.32	17.82	42.14	54.00	-11.86	AVG			
3		6482.500	35.45	21.42	56.87	74.00	-17.13	peak			
4		6482.500	21.78	21.42	43.20	54.00	-10.80	AVG			
5		8225.000	34.86	23.72	58.58	74.00	-15.42	peak			
6		8225.000	20.18	23.72	43.90	54.00	-10.10	AVG			
7		10605.00	33.81	26.14	59.95	74.00	-14.05	peak			
8		10605.00	18.54	26.14	44.68	54.00	-9.32	AVG			
9		14005.00	33.75	28.97	62.72	74.00	-11.28	peak			
10	*	14005.00	16.70	28.97	45.67	54.00	-8.33	AVG			
11		16172.50	33.81	27.62	61.43	74.00	-12.57	peak			
12		16172.50	16.68	27.62	44.30	54.00	-9.70	AVG			

Remark:
Correct Factor = Antenna Factor + Cable Loss – Pre-Amplifier gain
Measurement Level = Reading Level + Correct Factor
Over Level = Measurement Level - Limit

EUT:	Mobile Phone	Model Name:	GQ3106
Temperature:	25.5℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Date:	2023-03-04
Test Mode:	Charging + REC(Rear)	Polarization:	Vertical
Test Power:	AC 120V/60Hz		

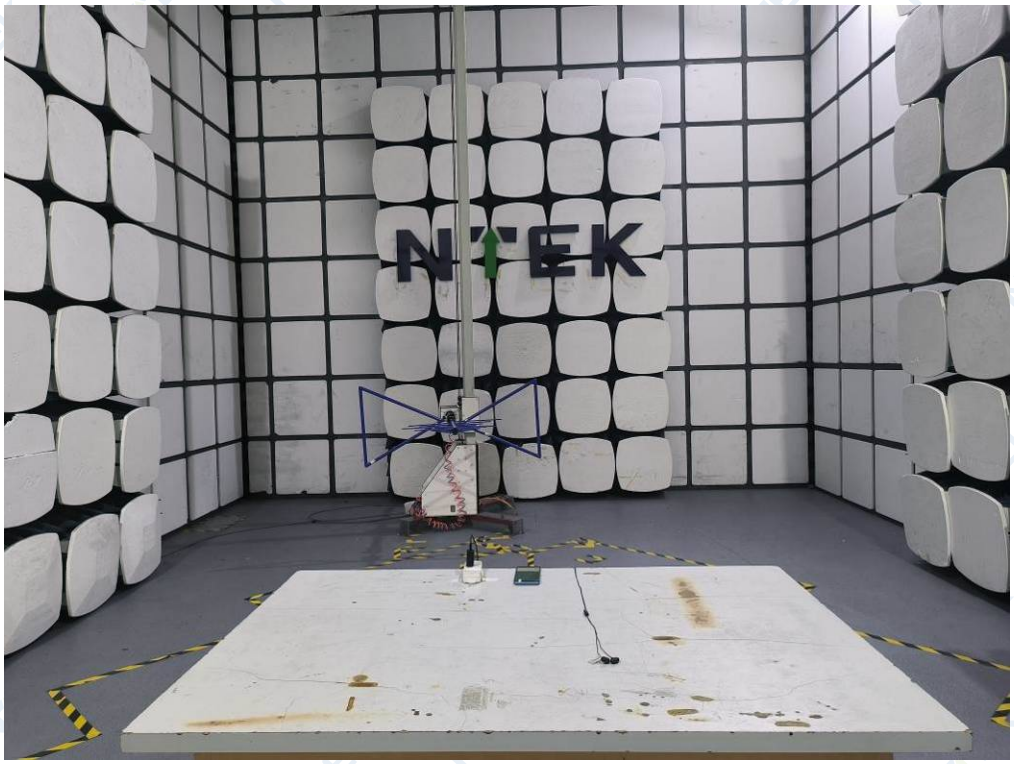


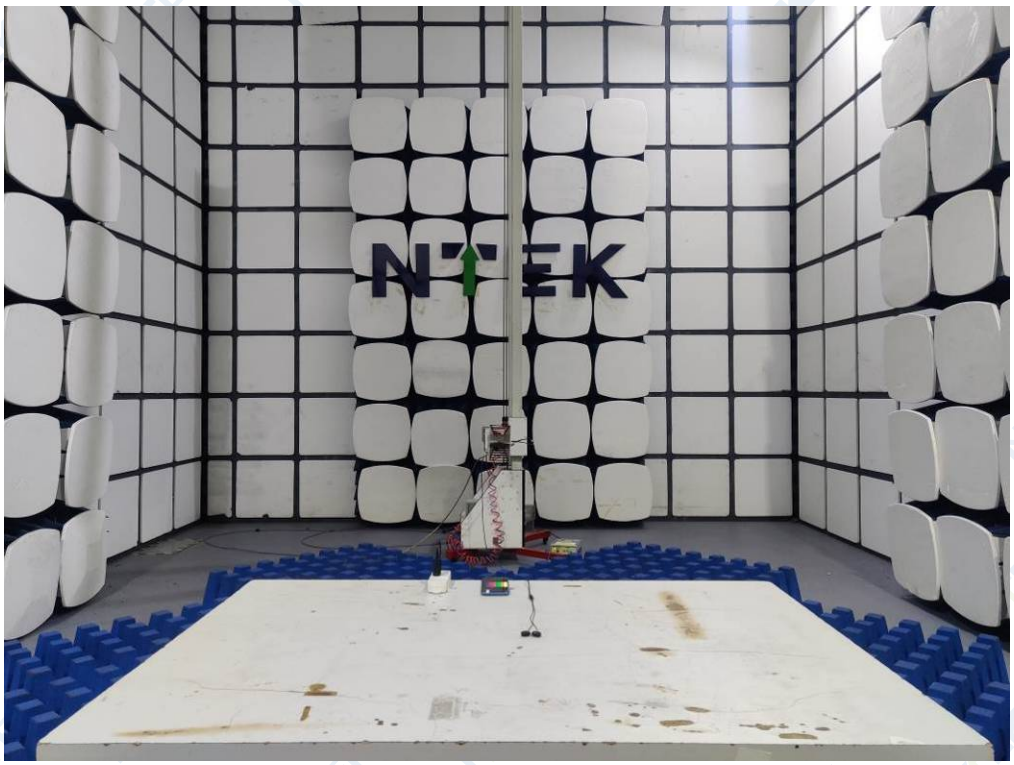
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4825.000	37.31	19.83	57.14	74.00	-16.86	peak			
2		4825.000	22.31	19.83	42.14	54.00	-11.86	AVG			
3		7035.000	35.66	22.40	58.06	74.00	-15.94	peak			
4		7035.000	19.40	22.40	41.80	54.00	-12.20	AVG			
5		8820.000	34.99	23.64	58.63	74.00	-15.37	peak			
6	*	8820.000	21.78	23.64	45.42	54.00	-8.58	AVG			
7		10605.00	33.60	26.14	59.74	74.00	-14.26	peak			
8		10605.00	17.76	26.14	43.90	54.00	-10.10	AVG			
9		13367.50	32.96	29.19	62.15	74.00	-11.85	peak			
10		13367.50	16.01	29.19	45.20	54.00	-8.80	AVG			
11		15705.00	34.19	27.73	61.92	74.00	-12.08	peak			
12		15705.00	17.17	27.73	44.90	54.00	-9.10	AVG			

Remark:
Correct Factor = Antenna Factor + Cable Loss – Pre-Amplifier gain
Measurement Level = Reading Level + Correct Factor
Over Level = Measurement Level - Limit

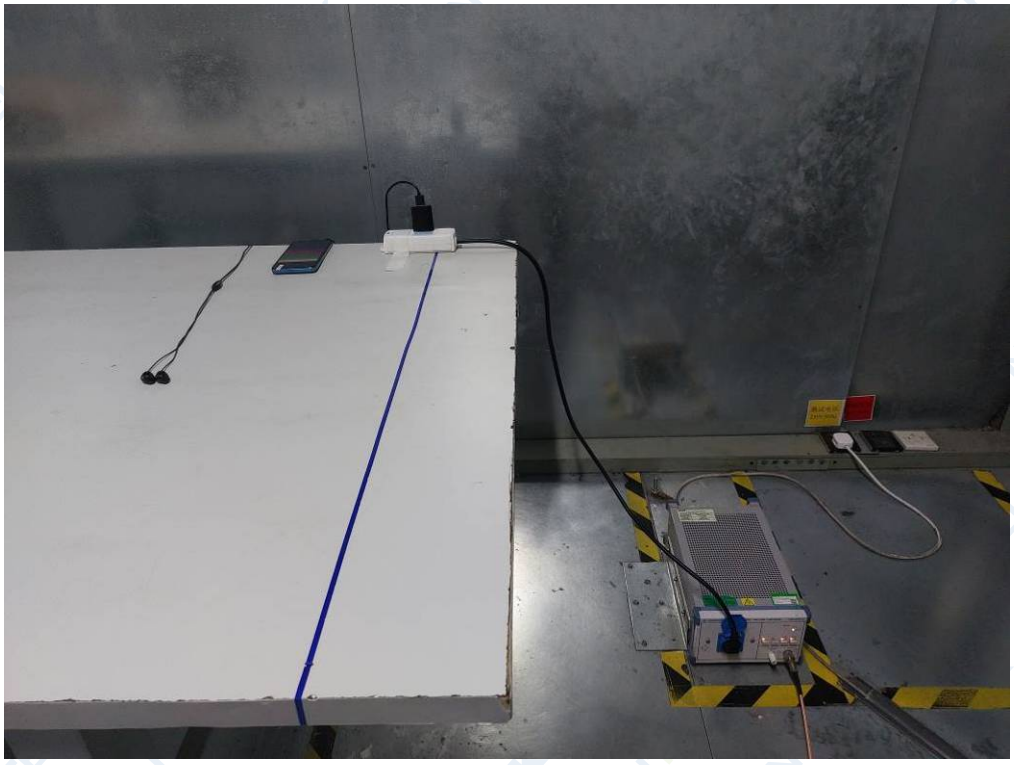
4. EUT TEST PHOTO

Radiated Measurement Photo





Conducted Measurement Photo



ATTACHMENT PHOTOGRAPHS OF EUT

Photo 1

Photo 2

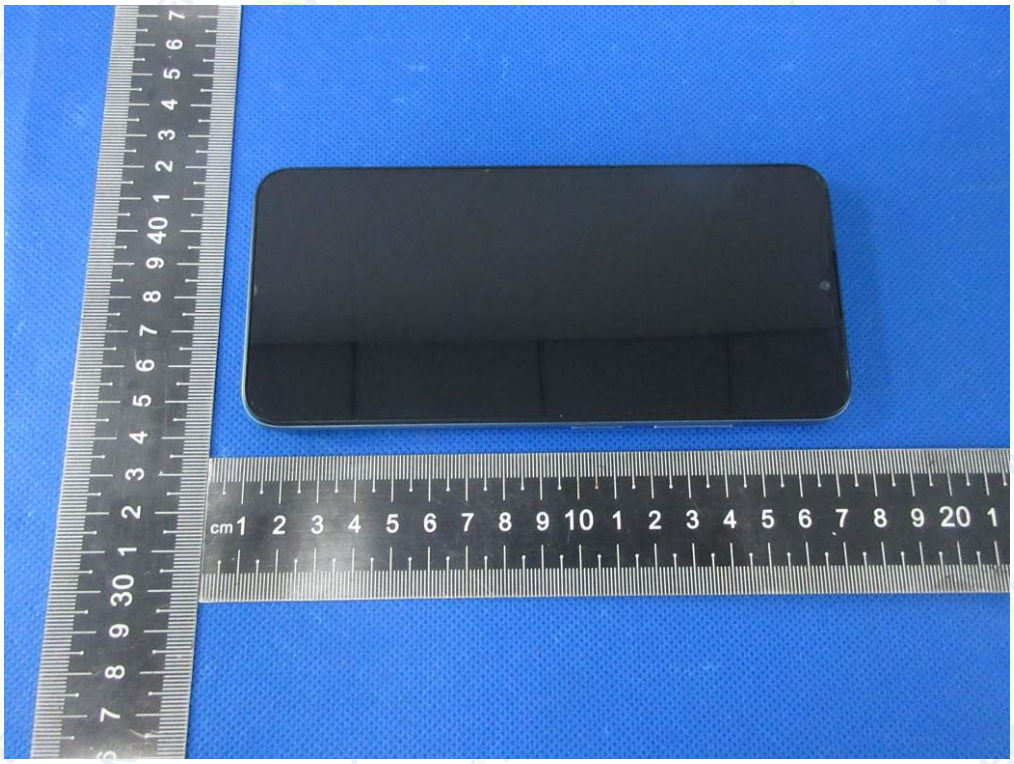


Photo 3

Photo 4

Photo 5

Photo 6

Photo 7

Photo 8

Photo 9

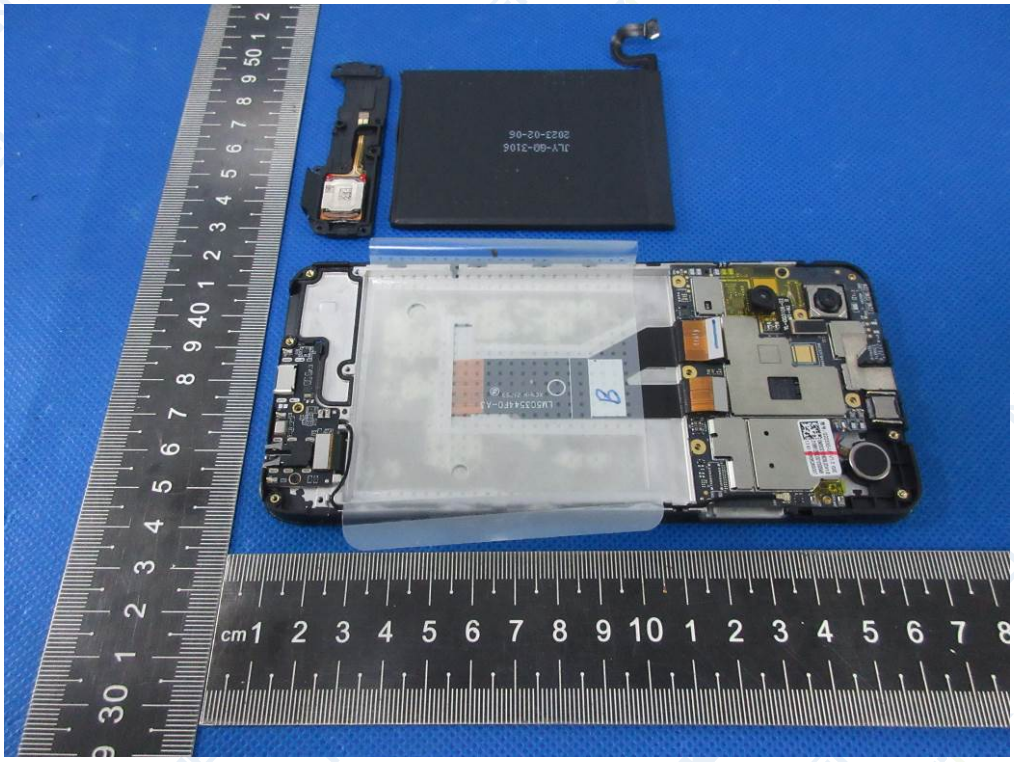


Photo 10

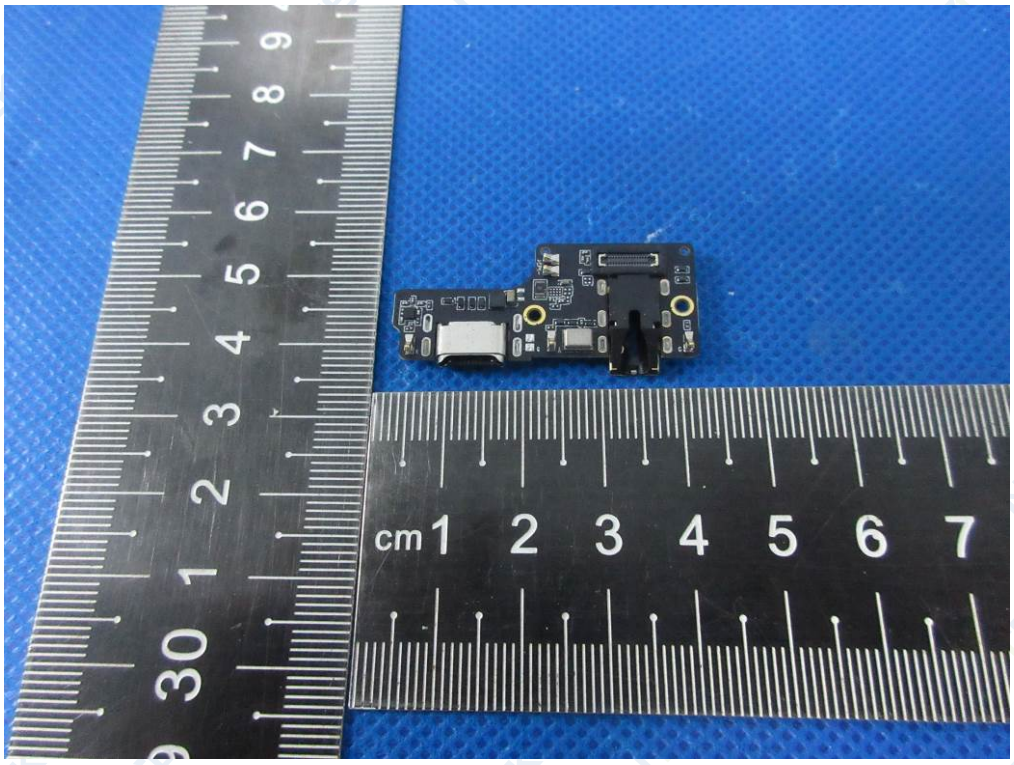


Photo 11

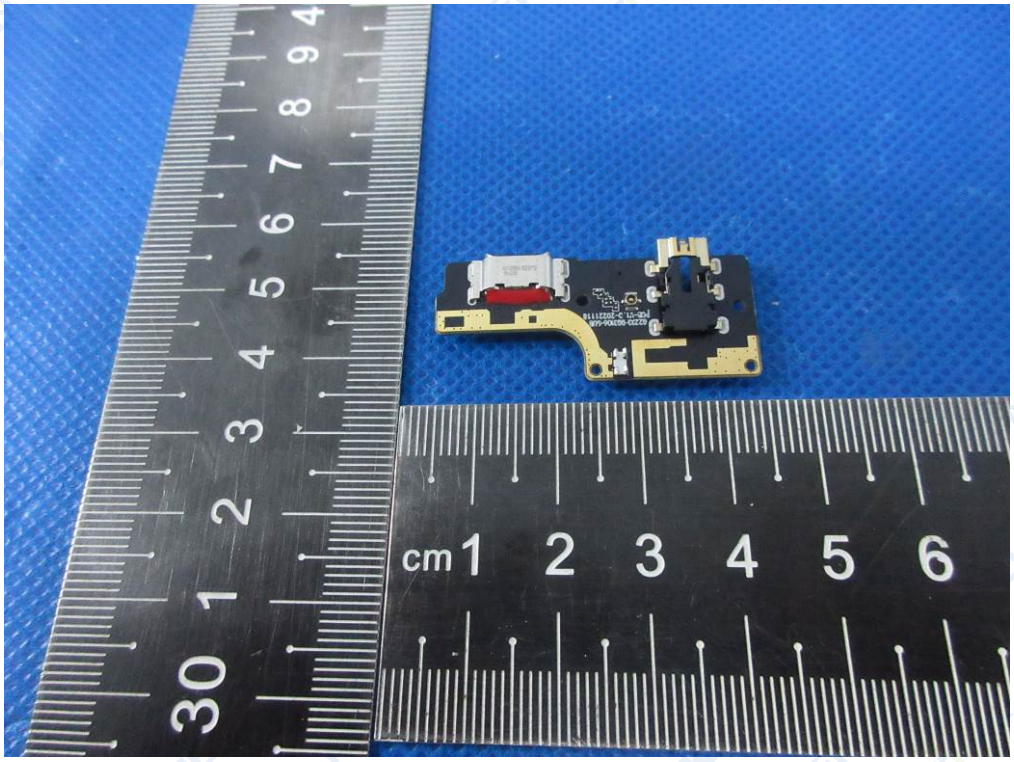


Photo 12

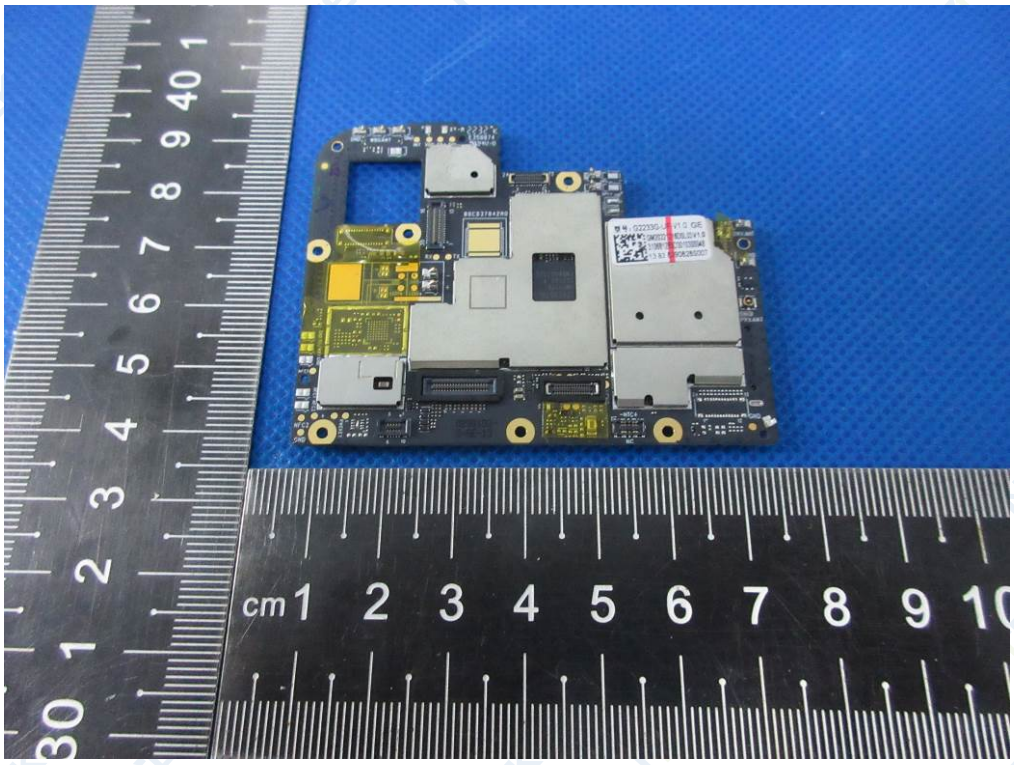


Photo 13

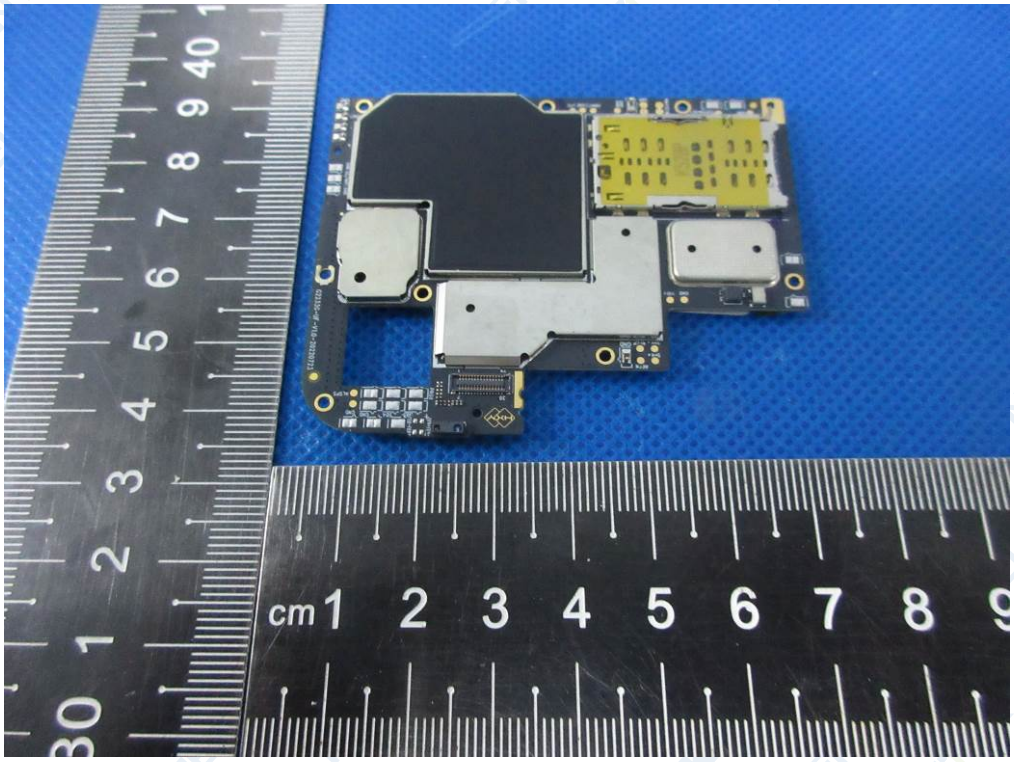


Photo 14

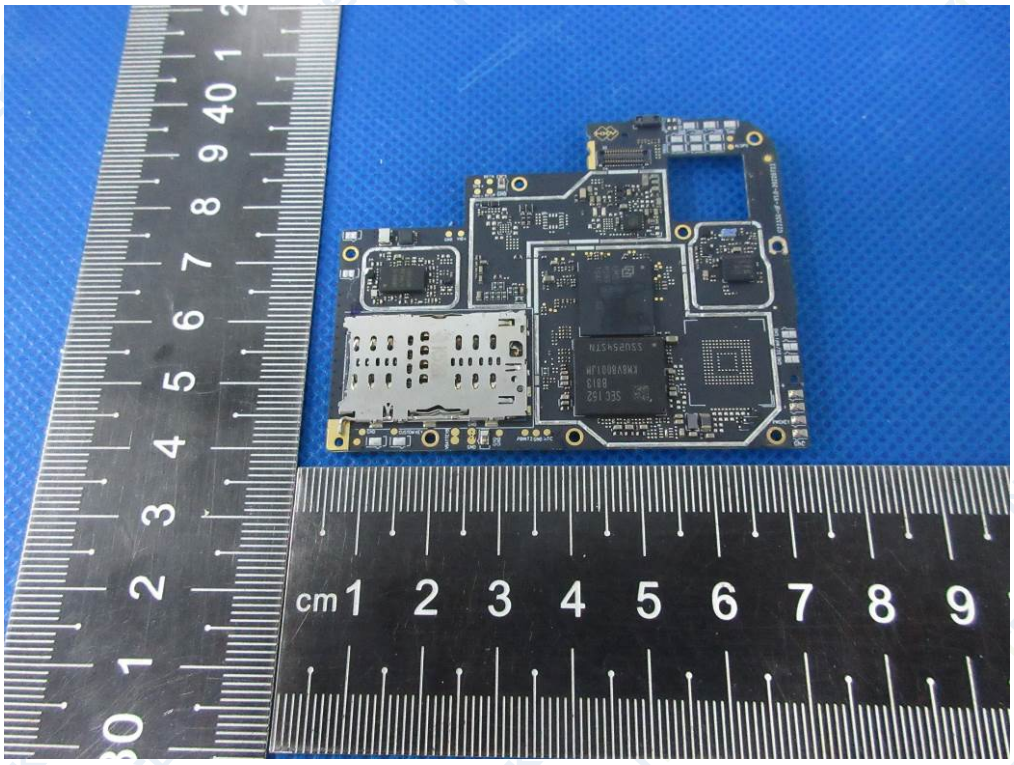


Photo 15

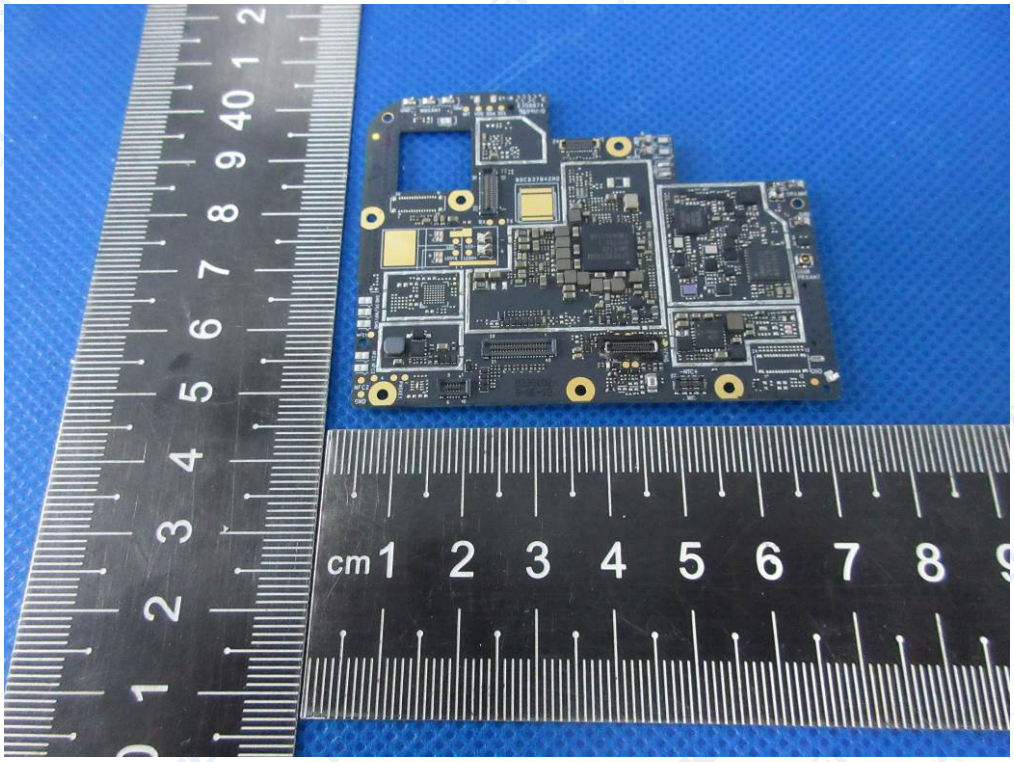


Photo 16

Photo 17

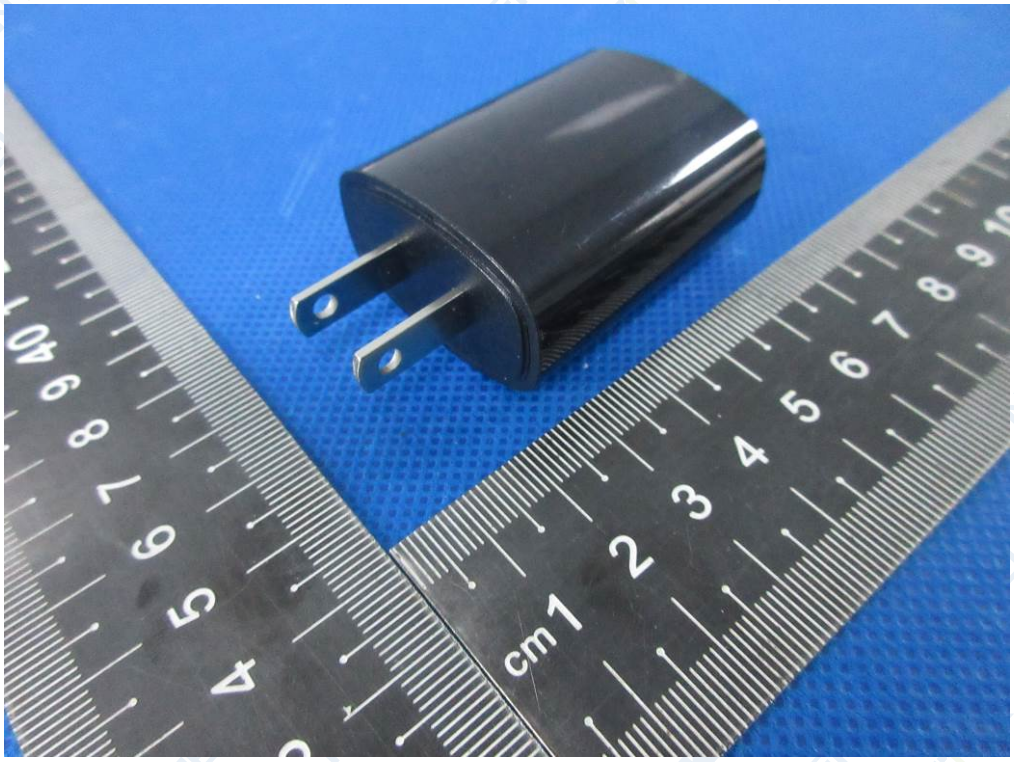


Photo 18

------ End of Report ------