FCC EMC Test Report

Subject to
Supplier's Declaration of Conformity
Procedure

Product : Tablet
Trade Mark : ulefone
Model Number : UF1001, Tab W10, Tab W10 Pro, Tab W10 Ultra

Prepared for

Shenzhen Ulefone Technology Co., Ltd.
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's Name ..... :	Shenzhen Ulefone Technology Co., Ltd.
Address ..... :	7A01, 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 ..... :	Tablet
Model Number ..... :	UF1001, Tab W10, Tab W10 Pro, Tab W10 Ultra
Standards ..... :	47 CFR FCC part 15 subpart B, 10-1-2023 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 ..... :	S240711035005
Date of Test ..... :	
Date (s) of performance of tests ..... :	15 Jul. 2024 ~ 01 Aug. 2024
Date of Issue ..... :	01 Aug. 2024
Test Result ..... :	**Pass**

Testing Engineer	:	Allen Huang (Allen Huang)
Technical Manager	:	Sky Zhang (Sky Zhang)
Authorized Signatory	:	Alex (Alex)

NTEK Testing Technology Co., Ltd. Shenzhen 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, 10-1-2023 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, Hangcheng, Bao'an District Shenzhen, Guangdong, People's Republic of 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

ISED-Registration : The Company Number: 9270A.
CAB identifier: 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	0.009MHz ~ 0.15MHz	2	3.6
Conducted Emission	0.15MHz ~ 30MHz	2	3.1
Radiated Emission	30MHz ~ 1000MHz	2	5.2
Radiated Emission	1000MHz ~ 18000MHz	2	5.1

Revision History

Report No.	Version	Description	Issued Date
S24071103505001	Rev.01	Initial issue of report	Aug. 01, 2024

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet
Model Number	UF1001
Additional Model Number(s)	Tab W10, Tab W10 Pro, Tab W10 Ultra
Model Difference	All models are identical except model's name.
Product Description	The EUT is a Tablet. Operating frequency: 5 GHz by WIFI (Declaration by Manufacturer) 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 3.8V, 6600mAh, 25.08Wh

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.

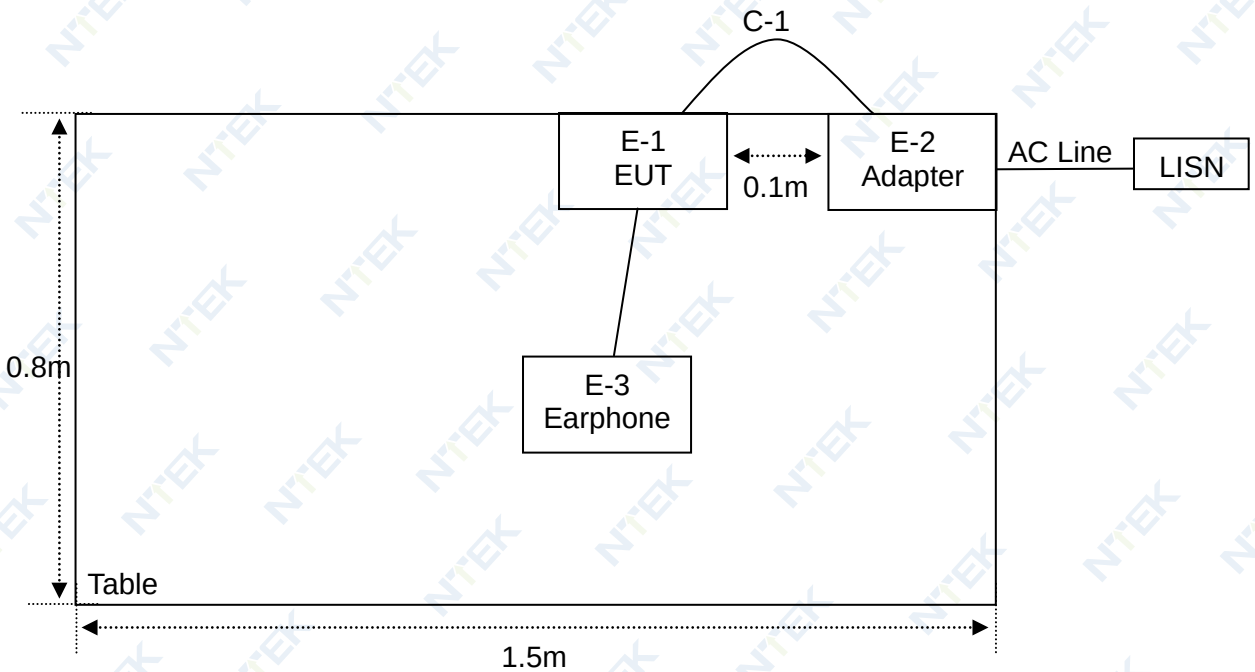
Pretest Mode	Description
Mode 1	Charging + TF Playing
Mode 2	Charging + REC(Front / Rear)
Mode 3	Data Transmission

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

For Radiated Test	
Final Test Mode	Description
Mode 1	Charging + TF Playing
Mode 2	Charging + REC(Front / Rear)
Mode 3	Data Transmission

2.3 DESCRIPTION OF TEST SETUP

Mode CE : Charging + TF Playing



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	Tablet	ulefone	UF1001	N/A	EUT
E-2	Adapter	Huajin	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	Name of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Single Phase LISN	R&S	ENV216	101490	Apr. 26, 2024	Apr. 25, 2025	1 year
2	Single Phase LISN	R&S	ENV216	101313	Mar. 12, 2024	Mar. 11, 2025	1 year
3	Three-Phase LISN	SCHWARZBECK	NNLK 8129	8129245	Mar. 12, 2024	Mar. 11, 2025	1 year
4	Low Frequency Cable	N/A	R-03	N/A	Jun. 17, 2022	Jun. 16, 2025	3 years
5	50Ω Coaxial Switch	Anritsu	MP59B	6200983704	May 06, 2023	May 05, 2026	3 years
6	EMI Test Receiver	R&S	ESCI	101160	Mar. 12, 2024	Mar. 11, 2025	1 year
7	EMI Test Receiver	R&S	ESPI3	101417	Apr. 26, 2024	Apr. 25, 2025	1 year
8	EMI Test Receiver	R&S	ESPI3	100145	Apr. 26, 2024	Apr. 25, 2025	1 year

2.5.2 RADIATED TEST

Item	Name of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	3m Anechoic Chamber	N/A	9*6*6	N/A	May 14, 2021	May 13, 2025	4 years
2	3m Anechoic Chamber	N/A	9*6*6	N/A	Jul. 28, 2022	Jul. 27, 2025	3 years
3	EMI Test Receiver	R&S	ESPI7	101318	Mar. 12, 2024	Mar. 11, 2025	1 year
4	Bilog Antenna	TESEQ	CBL6111D	31216	Mar. 11, 2024	Mar. 10, 2025	1 year
5	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	May 06, 2023	May 05, 2026	3 years
6	Cable	Talent Microwave	A81-NWMSMAM-12M	21120897	Apr. 26, 2024	Apr. 25, 2027	3 years
7	Cable	Talent Microwave	A81-NMNM-10M	24012011	Jan. 23, 2024	Jan. 22, 2027	3 years
8	Cable	Talent Microwave	A81-NMNM-10M	22084896	Feb. 01, 2024	Jan. 31, 2027	3 years
9	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	675	Mar. 30, 2024	Mar. 29, 2025	1 year
10	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	584	May 25, 2024	May 24, 2025	1 year
11	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	586	May 12, 2024	May 11, 2025	1 year
12	Cable	Talent Microwave	A81-NMNM-2M	22084895	Feb. 01, 2024	Jan. 31, 2027	3 years
13	Attenuator	Eastsheep	5W-N-JK-6G-6DB	N/A	Apr. 26, 2024	Apr. 25, 2025	1 year
14	Attenuator	Eastsheep	5W-N-JK-6G-6DB	N/A	Apr. 26, 2024	Apr. 25, 2025	1 year
15	Broadband Horn Antenna	EM	EM-AH-10180	2011071402	Mar. 31, 2022	Mar. 30, 2025	3 years
16	Broadband Horn Antenna	SCHWARZBECK	BBHA 9120D	2816	Jan. 12, 2023	Jan. 11, 2026	3 years
17	Broadband Horn Antenna	SCHWARZBECK	BBHA 9120D	2817	Jan. 12, 2023	Jan. 11, 2026	3 years
18	Spectrum Analyzer	Keysight	N9020A	MY53280244	Apr. 26, 2024	Apr. 25, 2025	1 year
19	Spectrum Analyzer	Agilent	E4440A	MY41000130	Mar. 12, 2024	Mar. 11, 2025	1 year
20	Pre-Amplifier	EMC	EMC051835SE	980246	Jan. 23, 2024	Jan. 22, 2025	1 year
21	Cable	Keysight	A40-2.92M2.92M-2M	1808041	Nov. 01, 2022	Oct. 31, 2025	3 years
22	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	Nov. 07, 2022	Nov. 06, 2025	3 years

2.6 MEASUREMENT SOFTWARE

CONDUCTED TEST		
Software name	Manufacturer	Version number
EZ-EMC_CE	Farad	AIT-03A
RADIATED TEST		
Software name	Manufacturer	Version number
EZ-EMC_RE	Farad	AIT-03A

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency Range (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.

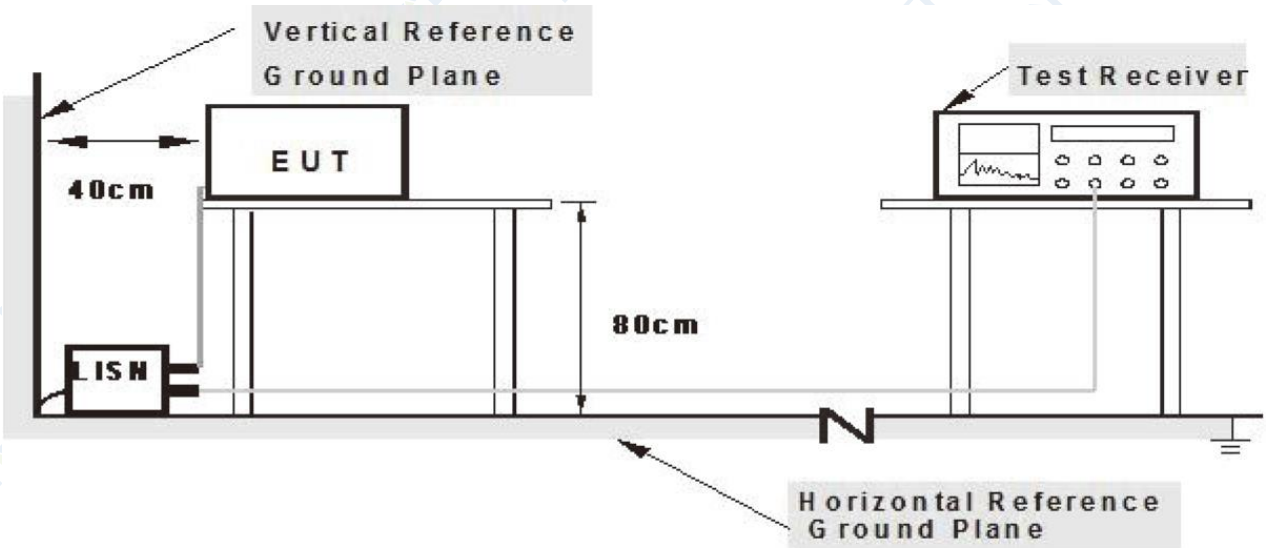
The following table is the setting of the receiver

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



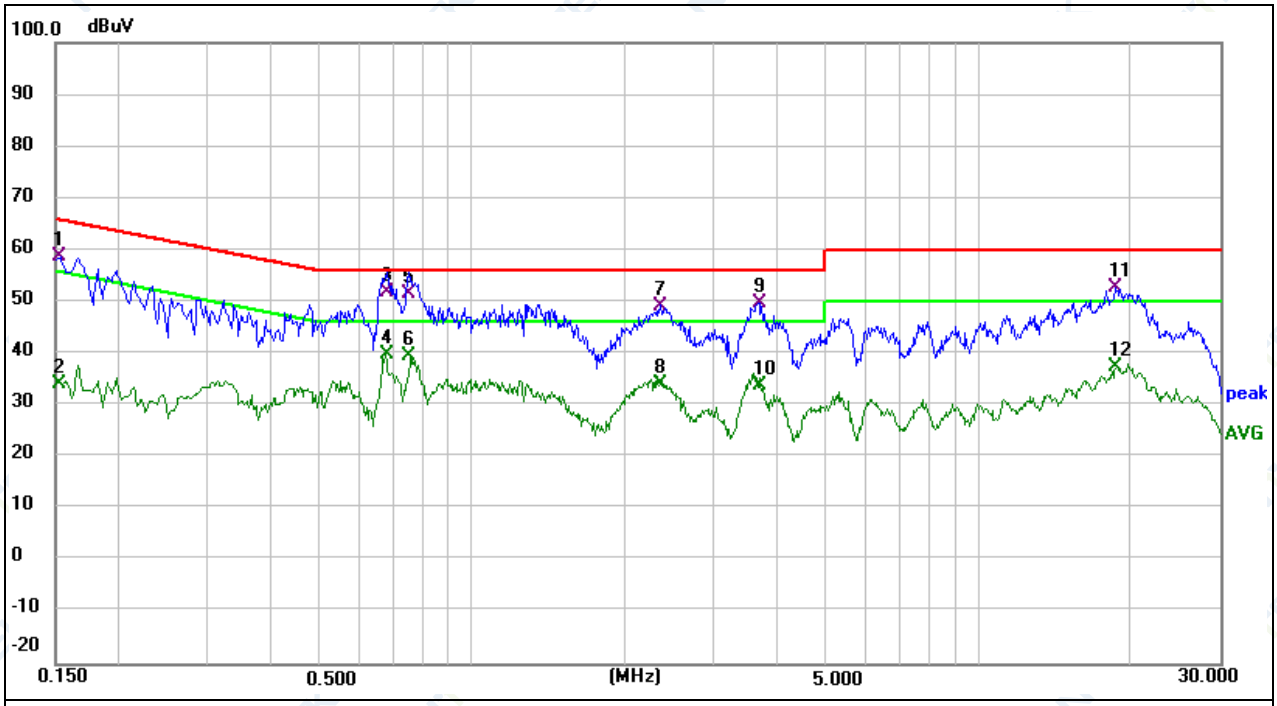
Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

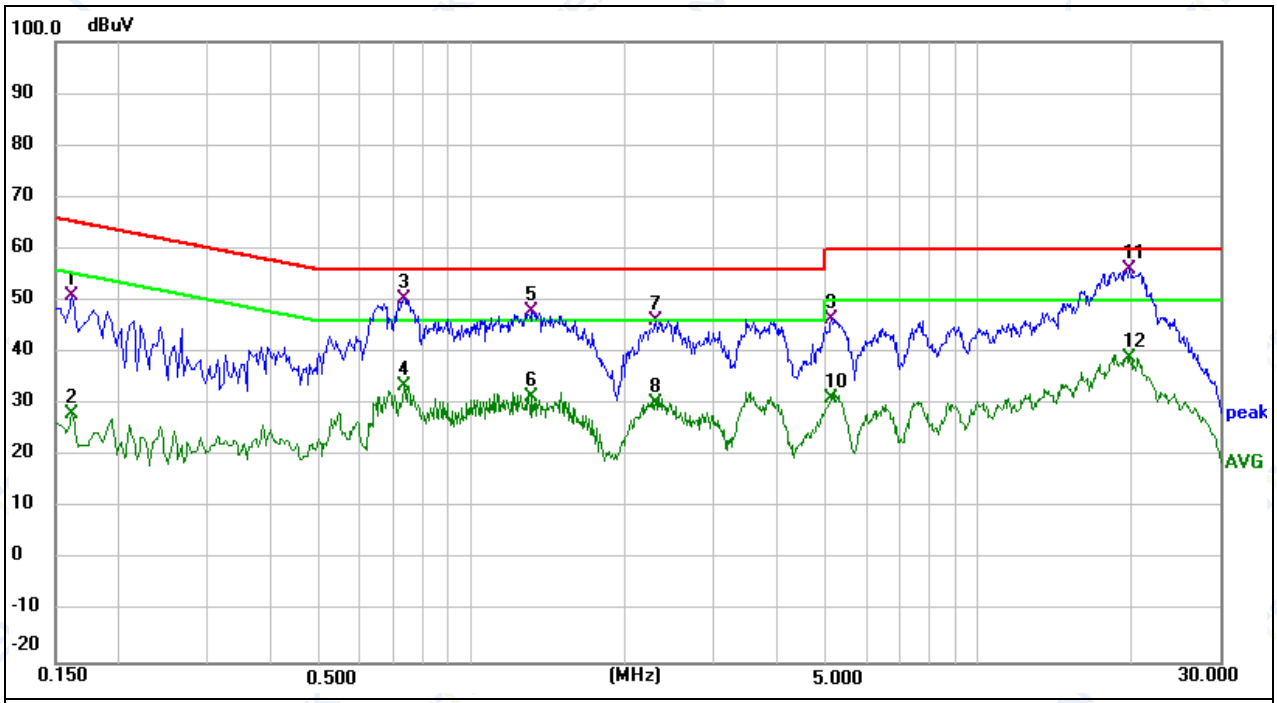
EUT:	Tablet	Model Name:	UF1001
Temperature:	25.3℃	Relative Humidity:	59%RH
Pressure:	1010hPa	Test Date:	2024-07-31
Test Mode:	Charging + TF Playing	Phase:	L
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1539	48.80	9.93	58.73	65.79	-7.06	QP	P	
2	0.1539	24.21	9.93	34.14	55.79	-21.65	AVG	P	
3 *	0.6820	40.69	11.01	51.70	56.00	-4.30	QP	P	
4	0.6820	28.70	11.01	39.71	46.00	-6.29	AVG	P	
5	0.7500	40.35	11.15	51.50	56.00	-4.50	QP	P	
6	0.7500	28.40	11.15	39.55	46.00	-6.45	AVG	P	
7	2.3580	39.64	9.66	49.30	56.00	-6.70	QP	P	
8	2.3580	24.46	9.66	34.12	46.00	-11.88	AVG	P	
9	3.6860	40.21	9.67	49.88	56.00	-6.12	QP	P	
10	3.6860	24.07	9.67	33.74	46.00	-12.26	AVG	P	
11	18.6900	43.06	9.72	52.78	60.00	-7.22	QP	P	
12	18.6900	27.68	9.72	37.40	50.00	-12.60	AVG	P	

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

EUT:	Tablet	Model Name:	UF1001
Temperature:	25.3℃	Relative Humidity:	59%RH
Pressure:	1010hPa	Test Date:	2024-07-31
Test Mode:	Charging + TF Playing	Phase:	N
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1620	41.10	9.95	51.05	65.36	-14.31	QP	P	
2	0.1620	18.21	9.95	28.16	55.36	-27.20	AVG	P	
3	0.7340	39.30	11.11	50.41	56.00	-5.59	QP	P	
4	0.7340	22.33	11.11	33.44	46.00	-12.56	AVG	P	
5	1.3099	35.72	12.28	48.00	56.00	-8.00	QP	P	
6	1.3099	19.08	12.28	31.36	46.00	-14.64	AVG	P	
7	2.2980	36.52	9.66	46.18	56.00	-9.82	QP	P	
8	2.2980	20.48	9.66	30.14	46.00	-15.86	AVG	P	
9	5.1260	36.74	9.67	46.41	60.00	-13.59	QP	P	
10	5.1260	21.60	9.67	31.27	50.00	-18.73	AVG	P	
11 *	19.8700	46.43	9.72	56.15	60.00	-3.85	QP	P	
12	19.8700	29.20	9.72	38.92	50.00	-11.08	AVG	P	

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 (Below 1000MHz)

FREQUENCY (MHz)	At 3m	
	☐Class A (dBμV/m)	☒Class B (dBμV/m)
30 ~ 88	49.5	40.0
88 ~ 216	53.9	43.5
216 ~ 960	56.9	46.0
960 ~ 1000	60.0	54.0

3.2.2 LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	At 3m			
	☐Class A (dBμV/m)		☒Class B (dBμV/m)	
	Average	Peak	Average	Peak
Above 1000	60	80	54	74

Note:

(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 (μV/m).

3.2.3 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.

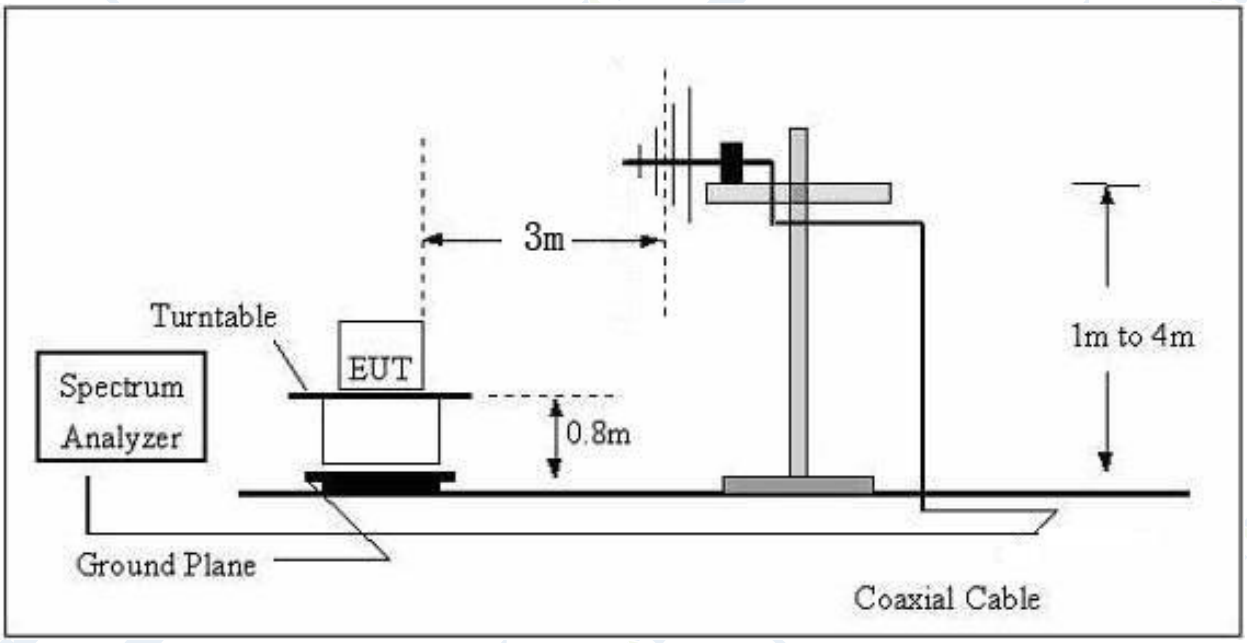
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.

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.

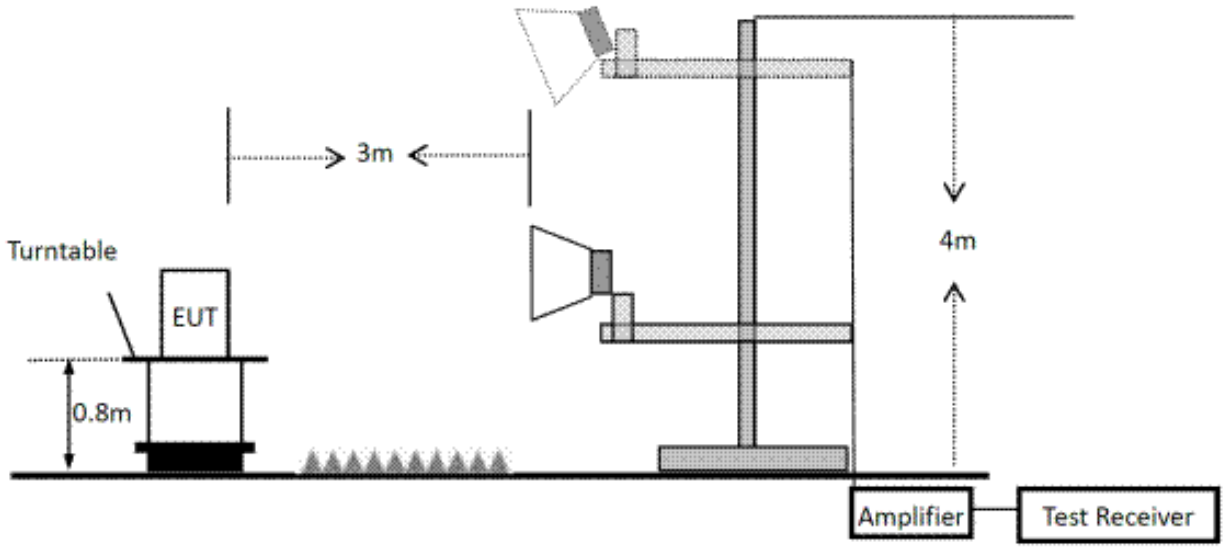
f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.2.4 TEST SETUP

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



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

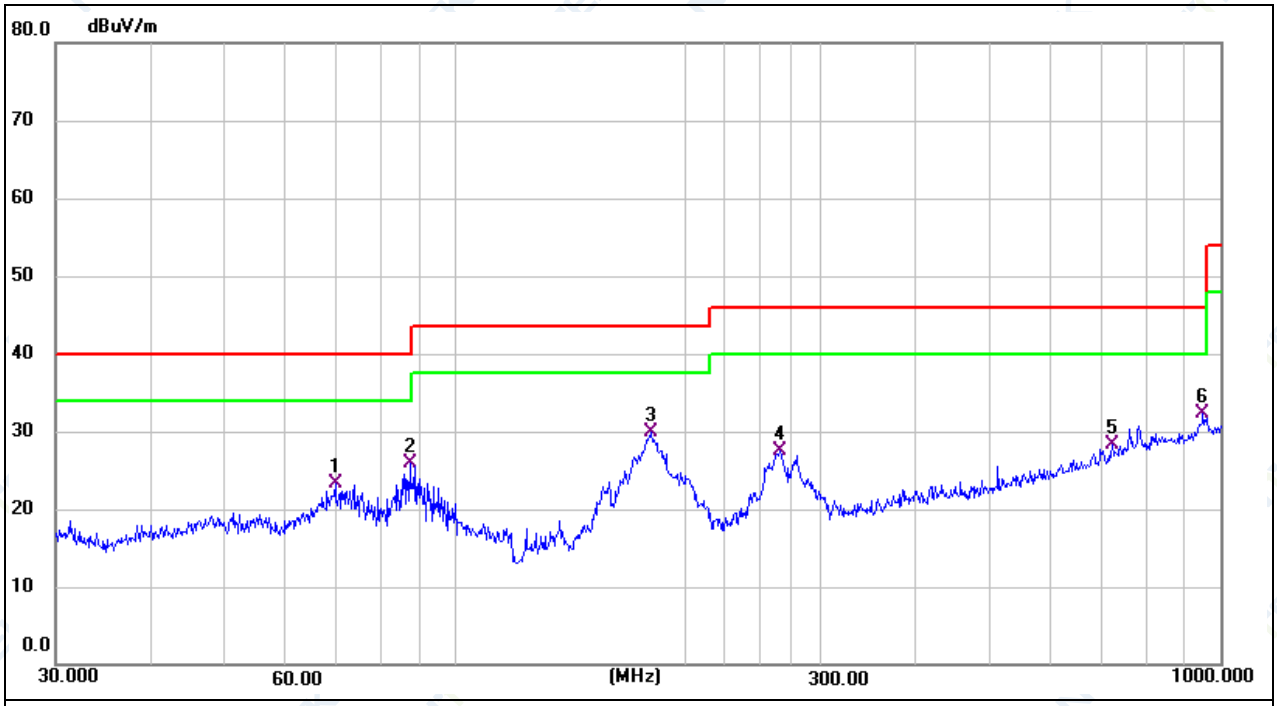


3.2.5 EUT OPERATING CONDITIONS

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.

3.2.6 TEST RESULTS (30-1000MHz)

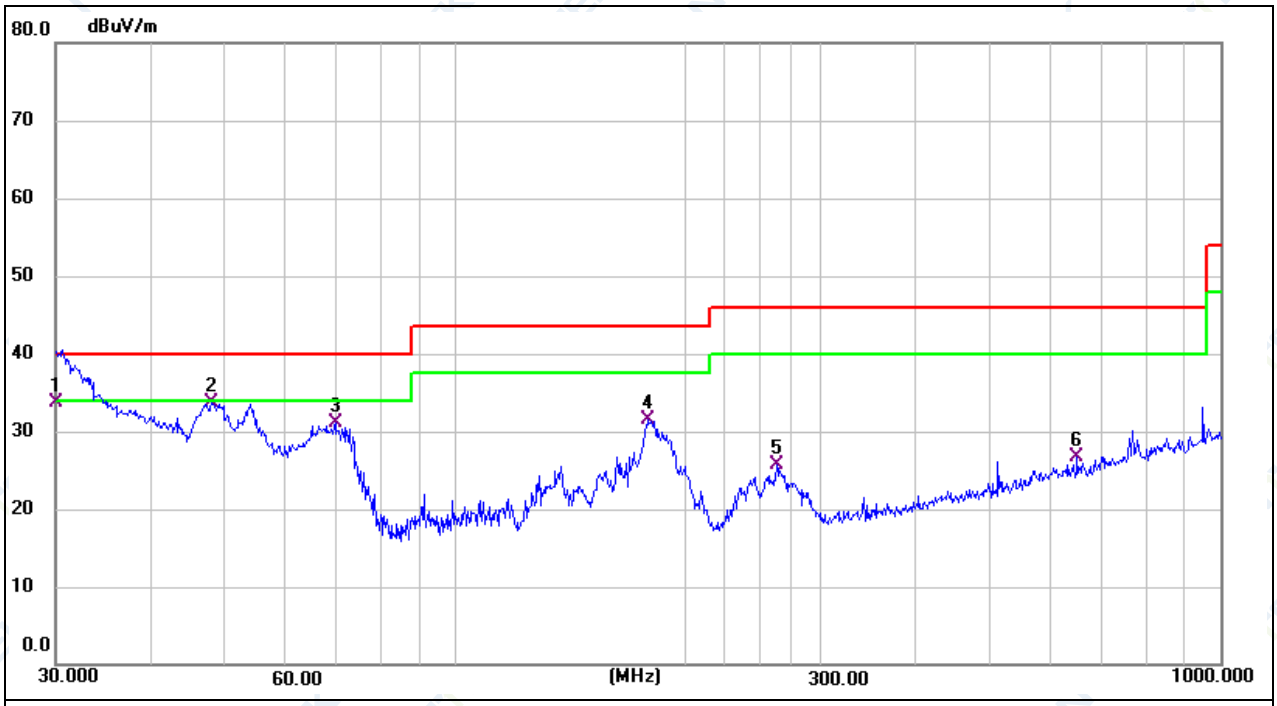
EUT:	Tablet	Model Name:	UF1001
Temperature:	23.6℃	Relative Humidity:	49%RH
Pressure:	1010hPa	Test Date:	2024-07-30
Test Mode:	Charging + TF Playing	Polarization:	Horizontal
Test Power:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Height (cm)	Azimuth (deg.)	Remark
1	69.6005	13.22	10.01	23.23	40.00	-16.77	QP	P			
2	87.1117	17.00	8.94	25.94	40.00	-14.06	QP	P			
3 *	180.0165	19.75	10.18	29.93	43.50	-13.57	QP	P			
4	265.6757	14.35	13.20	27.55	46.00	-18.45	QP	P			
5	721.7259	6.05	22.28	28.33	46.00	-17.67	QP	P			
6	948.7610	7.49	24.72	32.21	46.00	-13.79	QP	P			

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

EUT:	Tablet	Model Name:	UF1001
Temperature:	23.6℃	Relative Humidity:	49%RH
Pressure:	1010hPa	Test Date:	2024-07-30
Test Mode:	Charging + TF Playing	Polarization:	Vertical
Test Power:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Height (cm)	Azimuth (deg.)	Remark
1 *	30.1851	23.06	10.72	33.78	40.00	-6.22	QP	P			
2	47.9940	19.93	13.68	33.61	40.00	-6.39	QP	P			
3	69.6005	21.17	10.01	31.18	40.00	-8.82	QP	P			
4	178.7584	21.46	10.06	31.52	43.50	-11.98	QP	P			
5	262.8955	12.69	13.10	25.79	46.00	-20.21	QP	P			
6	649.6597	5.97	20.72	26.69	46.00	-19.31	QP	P			

Remark:

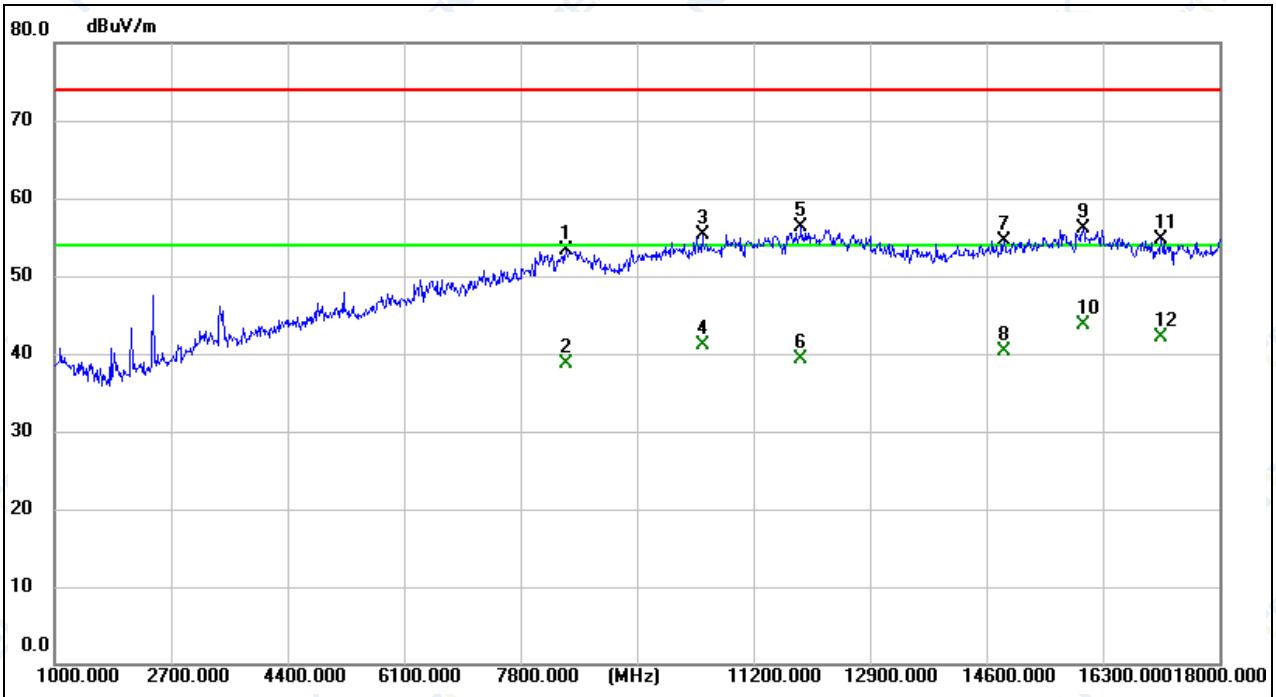
Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

3.2.7 TEST RESULTS (Above 1000MHz)

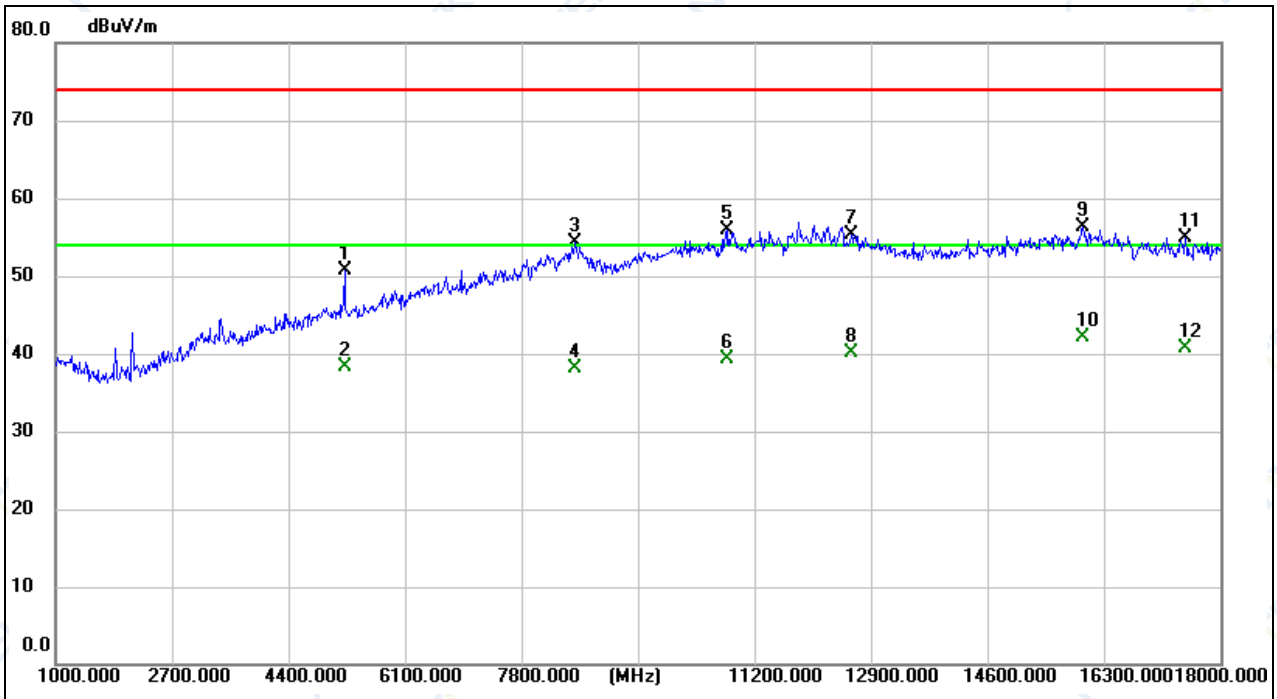
EUT:	Tablet	Model Name:	UF1001
Temperature:	24.7℃	Relative Humidity:	51%RH
Pressure:	1010hPa	Test Date:	2024-07-23
Test Mode:	Charging + TF Playing	Polarization:	Horizontal
Test Power:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Height (cm)	Azimuth (deg.)	Remark
1	8463.000	47.02	6.21	53.23	74.00	-20.77	peak	P			
2	8463.000	32.48	6.21	38.69	54.00	-15.31	AVG	P			
3	10452.000	47.24	8.05	55.29	74.00	-18.71	peak	P			
4	10452.000	33.15	8.05	41.20	54.00	-12.80	AVG	P			
5	11897.000	47.30	8.92	56.22	74.00	-17.78	peak	P			
6	11897.000	30.40	8.92	39.32	54.00	-14.68	AVG	P			
7	14855.000	42.93	11.59	54.52	74.00	-19.48	peak	P			
8	14855.000	28.69	11.59	40.28	54.00	-13.72	AVG	P			
9	16011.000	45.81	10.24	56.05	74.00	-17.95	peak	P			
10 *	16011.000	33.56	10.24	43.80	54.00	-10.20	AVG	P			
11	17150.000	43.53	11.09	54.62	74.00	-19.38	peak	P			
12	17150.000	31.08	11.09	42.17	54.00	-11.83	AVG	P			

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

EUT:	Tablet	Model Name:	UF1001
Temperature:	24.7℃	Relative Humidity:	51%RH
Pressure:	1010hPa	Test Date:	2024-07-23
Test Mode:	Charging + TF Playing	Polarization:	Vertical
Test Power:	AC 120V/60Hz		

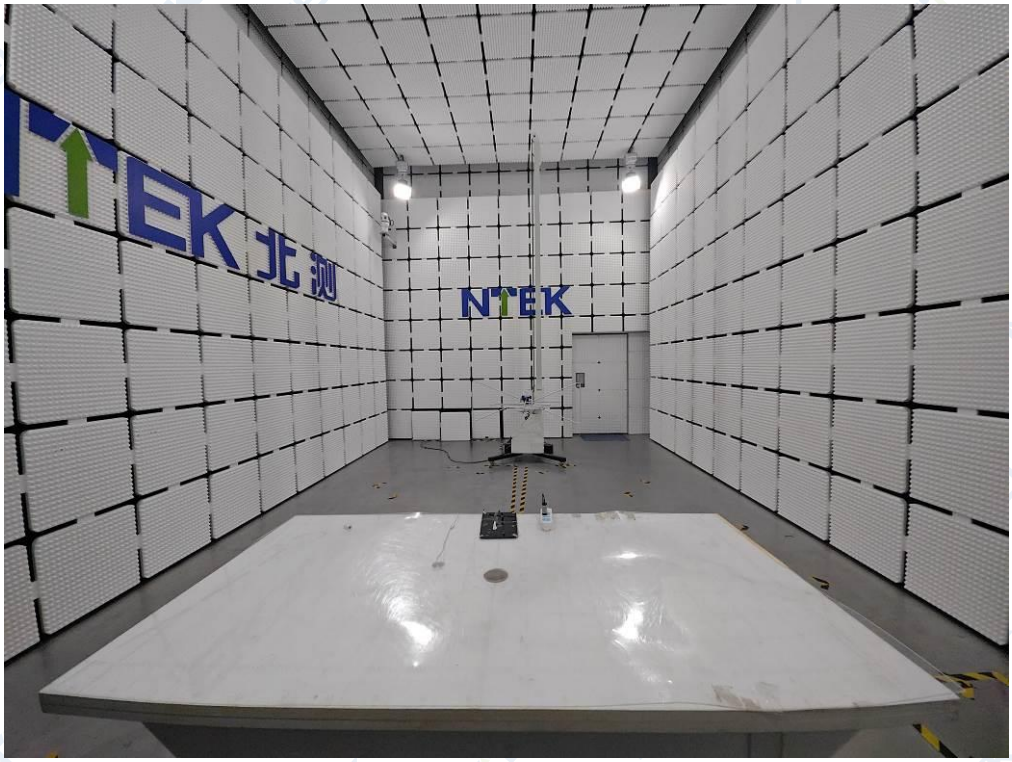


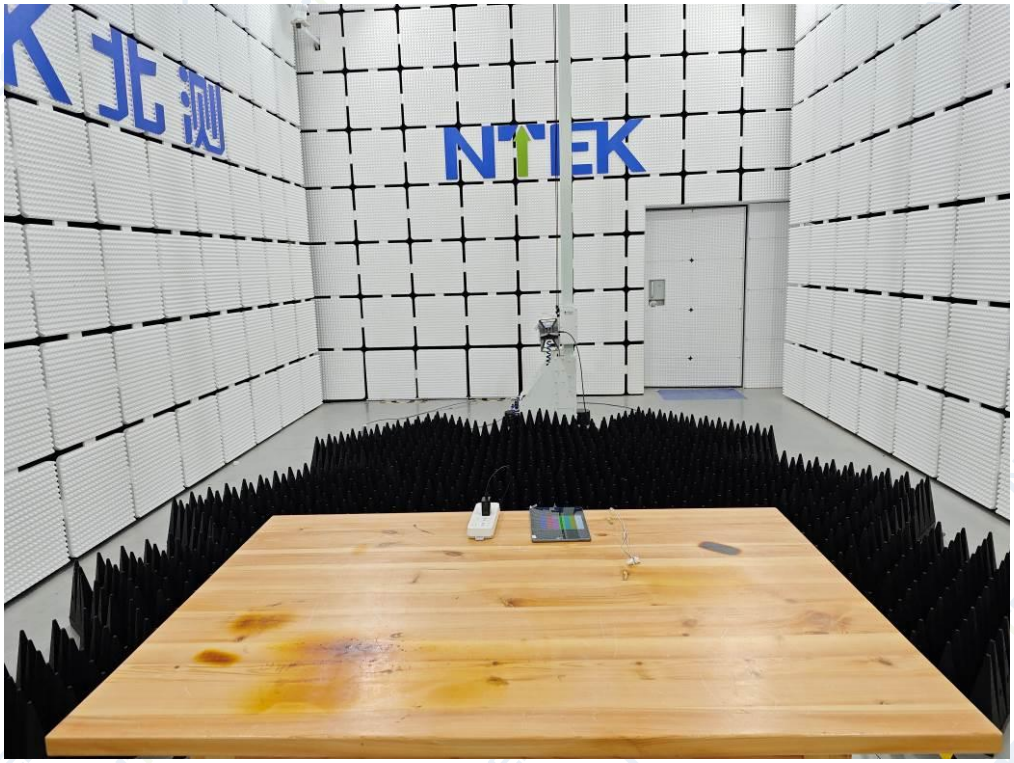
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Height (cm)	Azimuth (deg.)	Remark
1	5216.000	49.43	1.33	50.76	74.00	-23.24	peak	P			
2	5216.000	36.93	1.33	38.26	54.00	-15.74	AVG	P			
3	8582.000	47.85	6.48	54.33	74.00	-19.67	peak	P			
4	8582.000	31.71	6.48	38.19	54.00	-15.81	AVG	P			
5	10809.000	47.44	8.47	55.91	74.00	-18.09	peak	P			
6	10809.000	30.78	8.47	39.25	54.00	-14.75	AVG	P			
7	12611.000	45.24	10.15	55.39	74.00	-18.61	peak	P			
8	12611.000	30.04	10.15	40.19	54.00	-13.81	AVG	P			
9	15994.000	45.95	10.26	56.21	74.00	-17.79	peak	P			
10 *	15994.000	31.93	10.26	42.19	54.00	-11.81	AVG	P			
11	17490.000	43.12	11.77	54.89	74.00	-19.11	peak	P			
12	17490.000	28.93	11.77	40.70	54.00	-13.30	AVG	P			

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

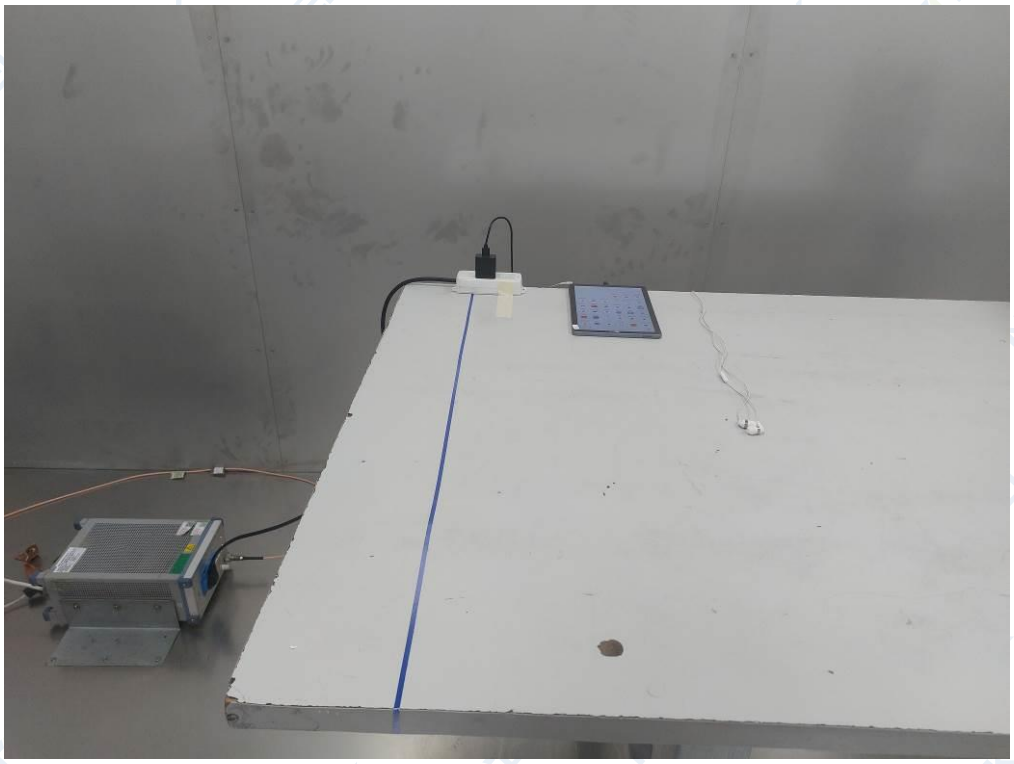
4. EUT TEST PHOTO

Radiated Measurement Photo





Conducted Measurement Photo



ATTACHMENT PHOTOGRAPHS OF EUT

Photo 1

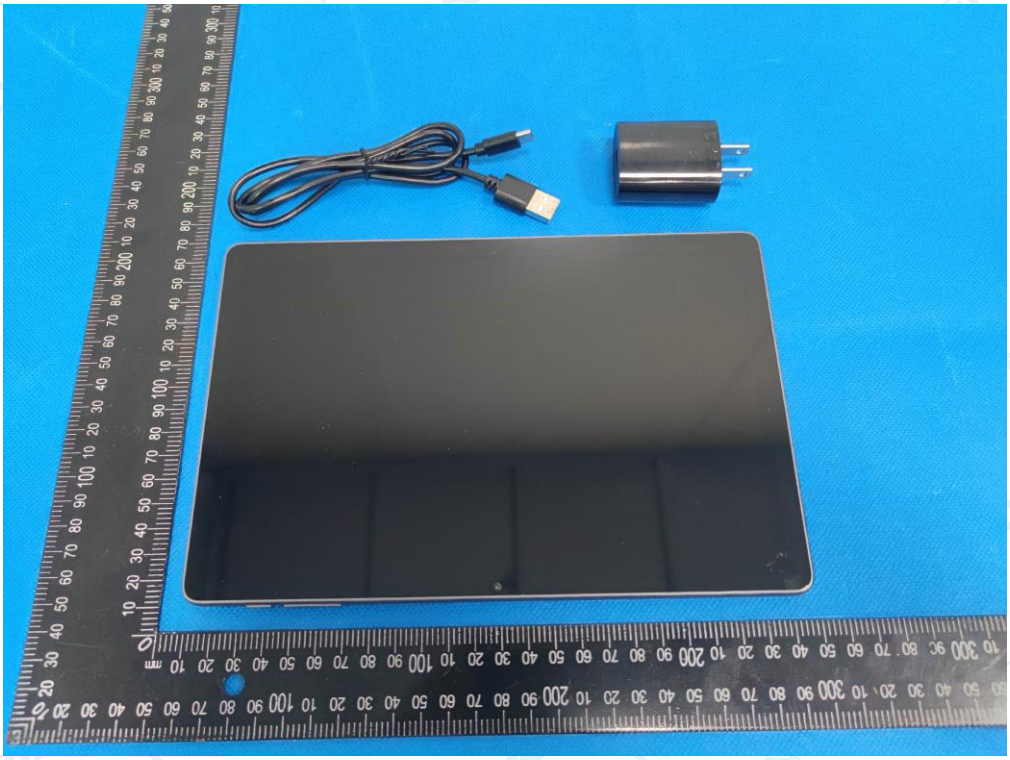


Photo 2

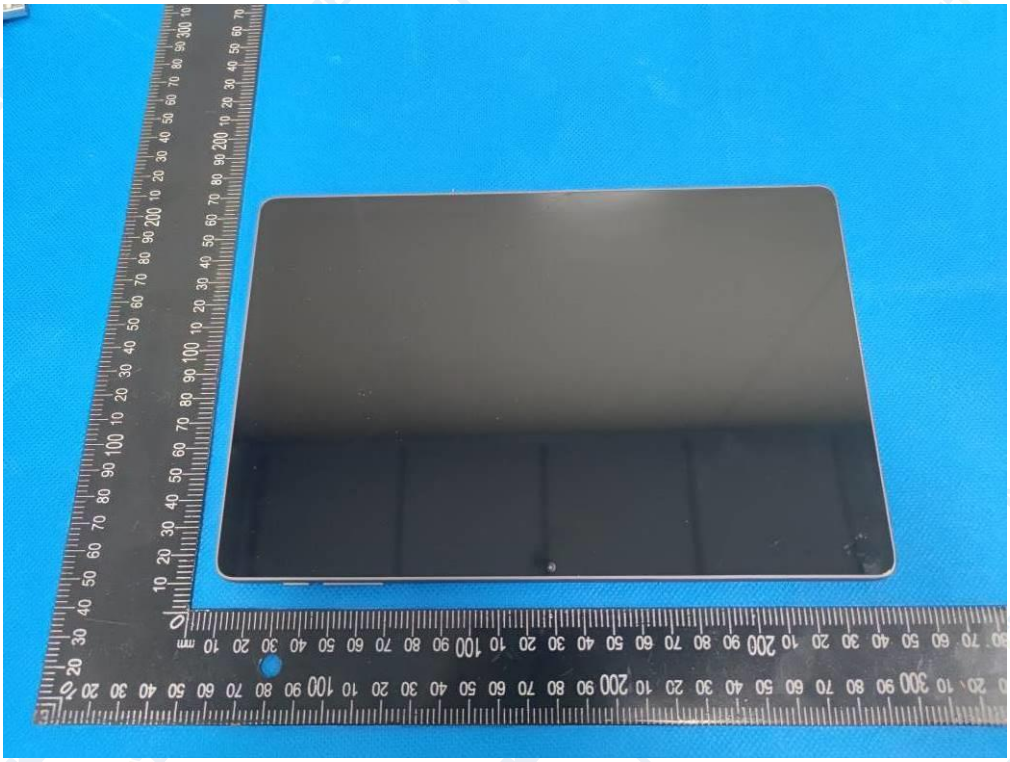


Photo 3

Photo 4

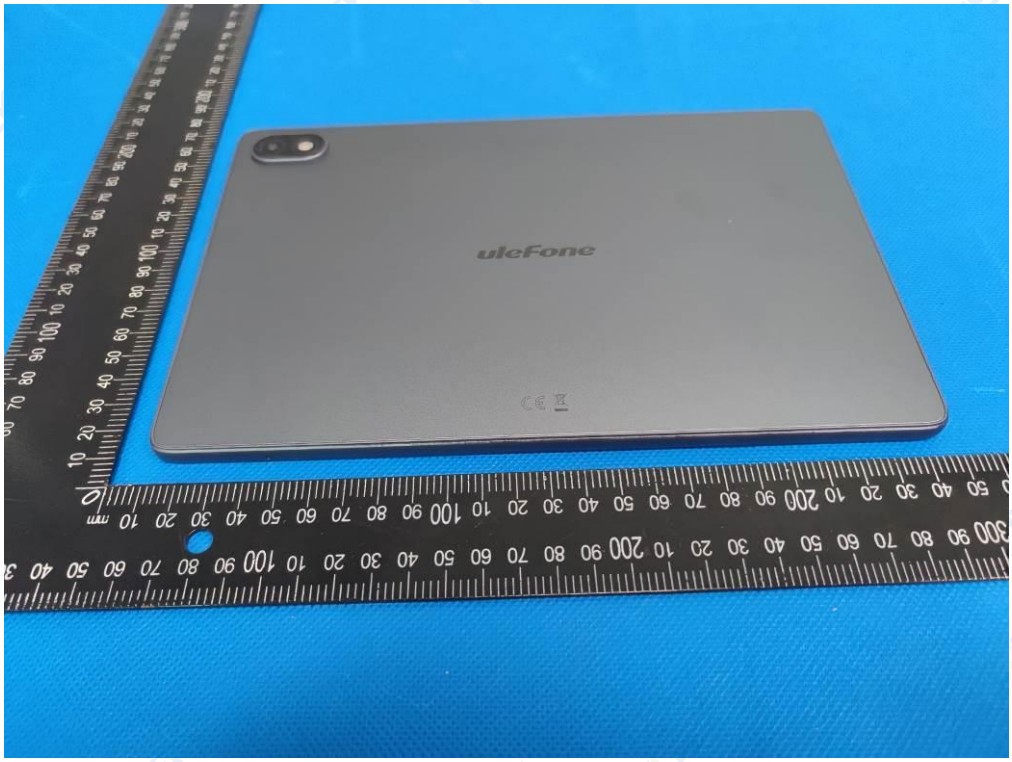


Photo 5

Photo 6

Photo 7

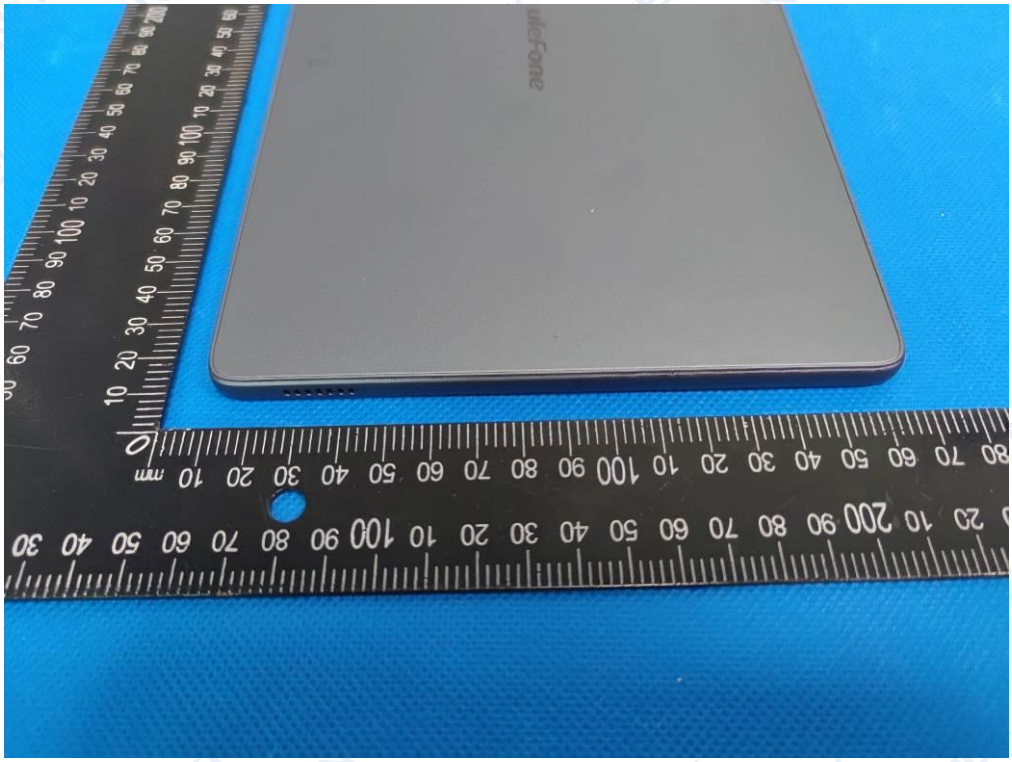


Photo 8

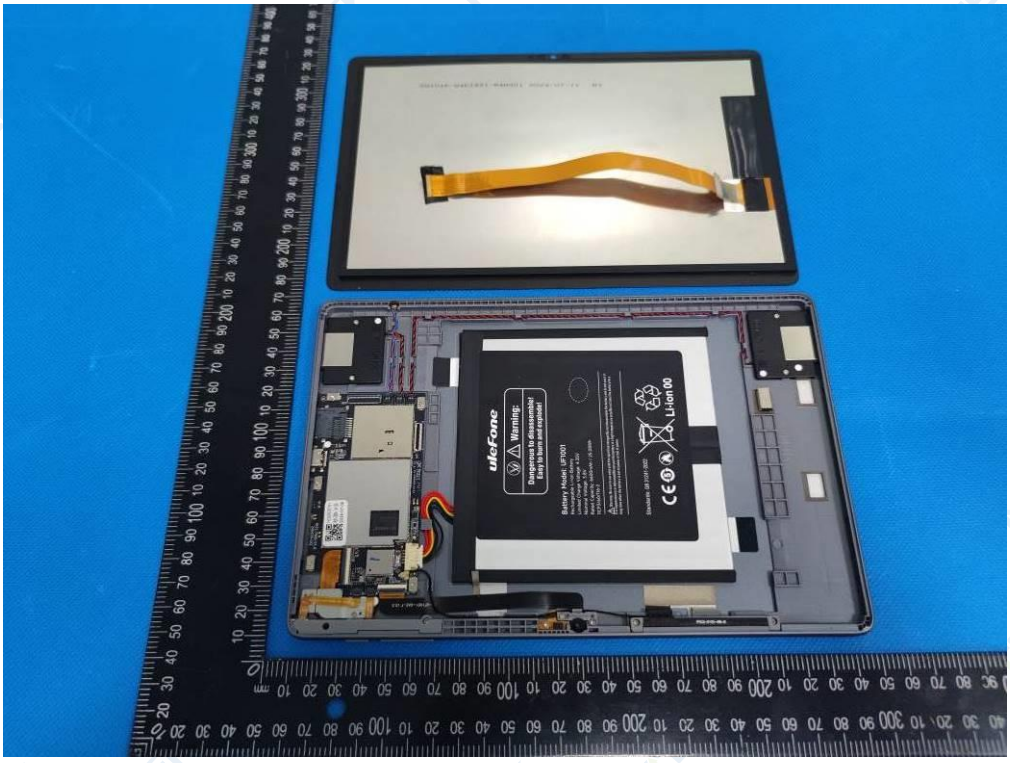


Photo 9

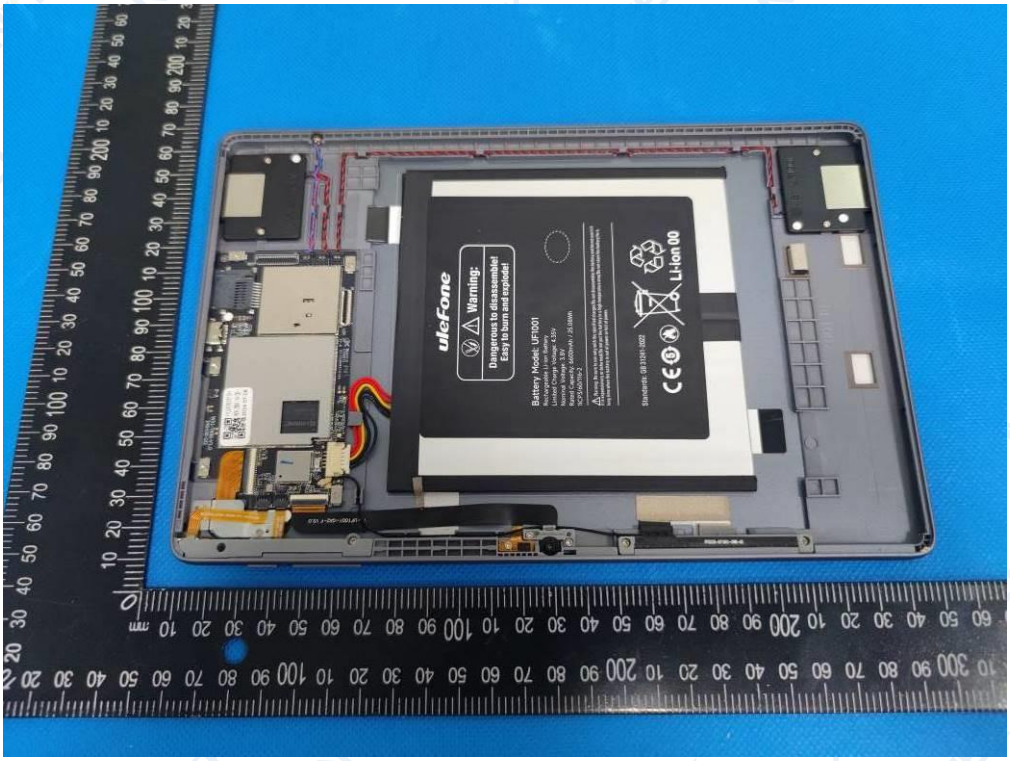


Photo 10

Photo 11

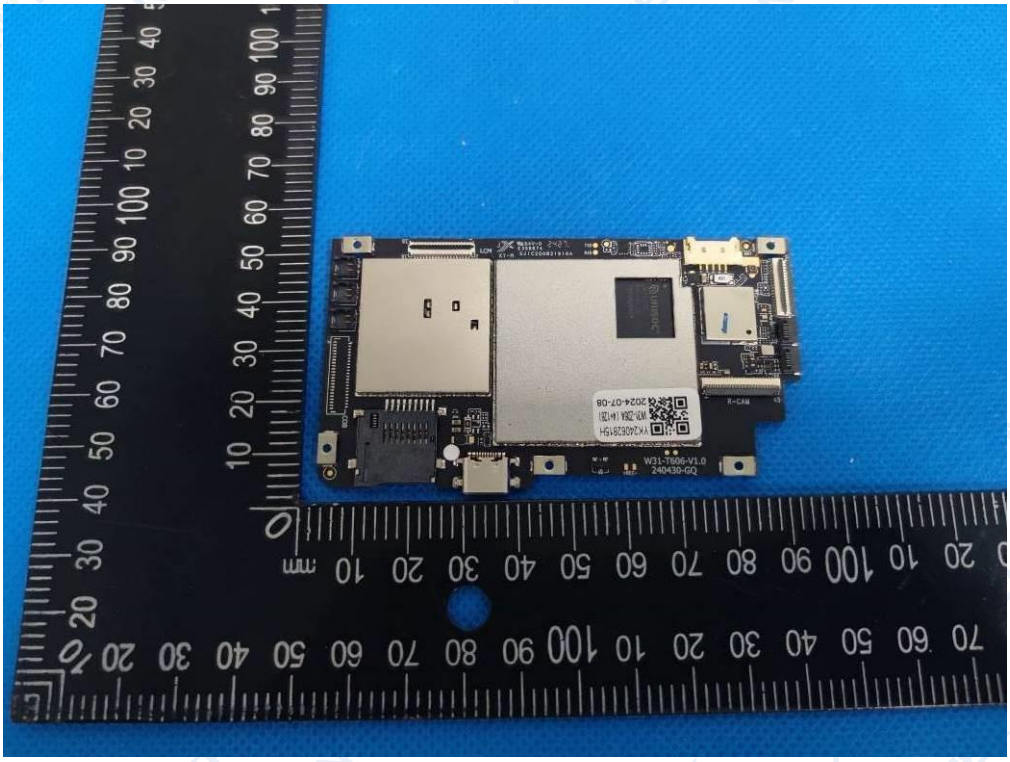


Photo 12

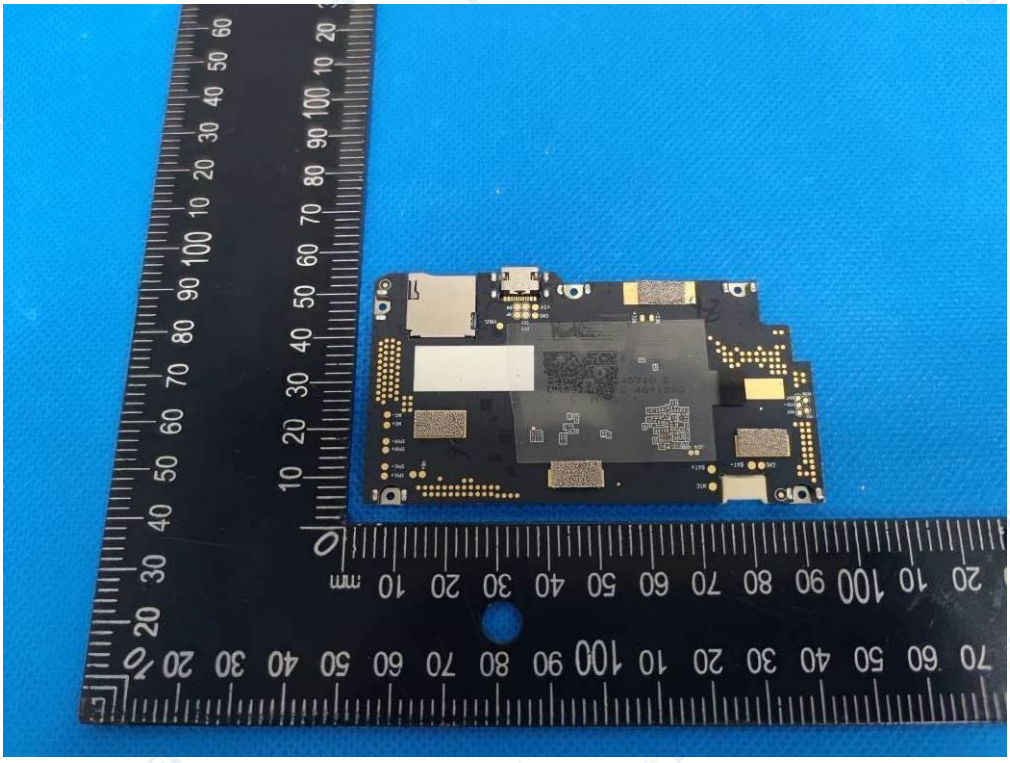


Photo 13

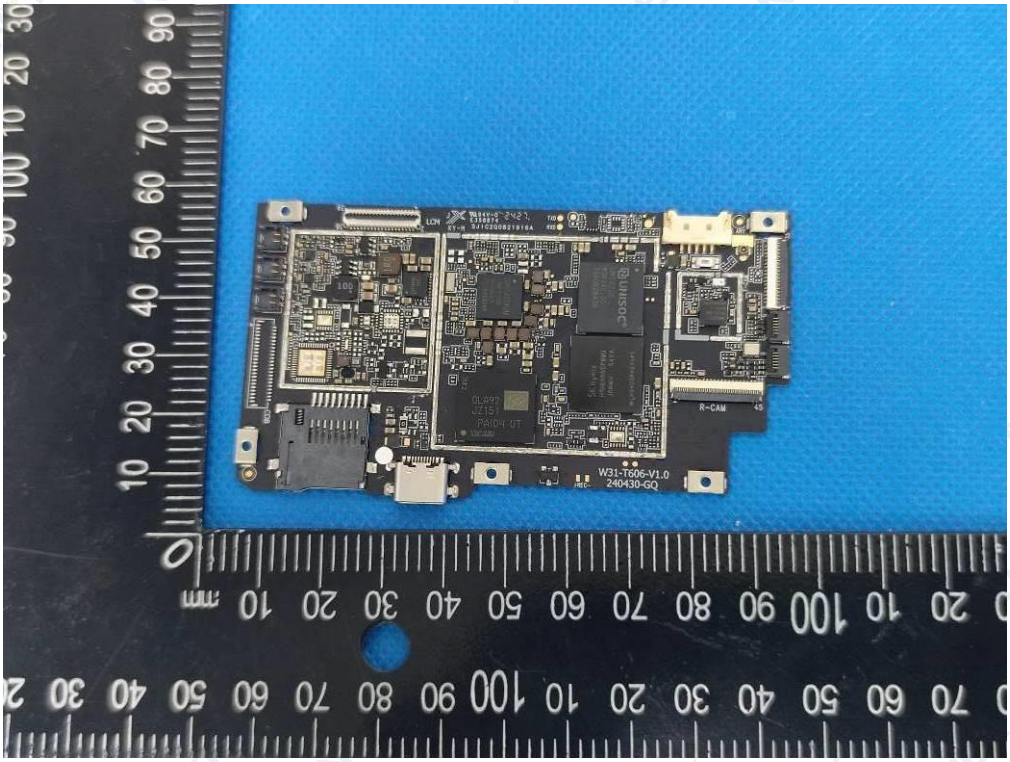


Photo 14

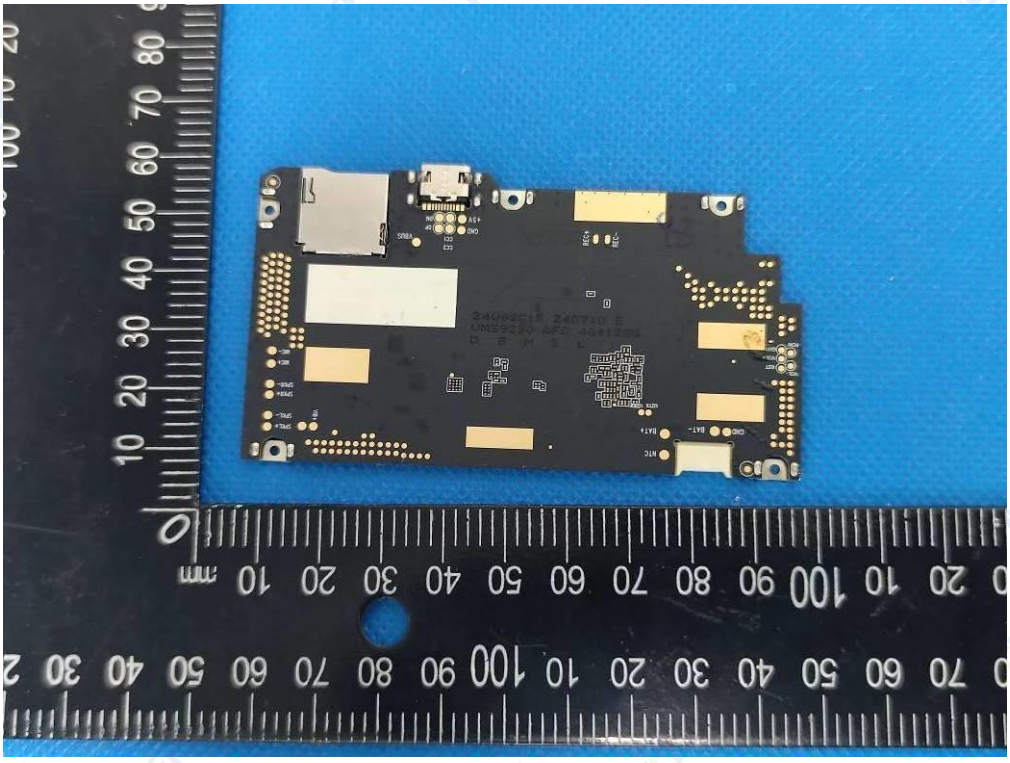


Photo 15

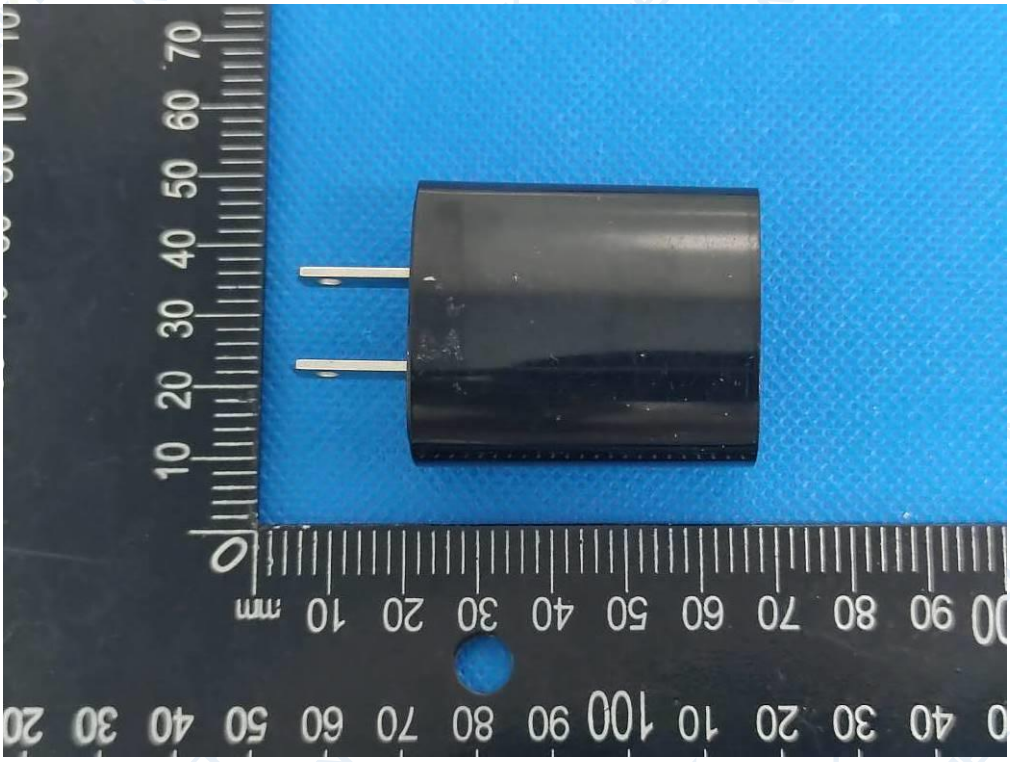


Photo 16

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