



IC TEST REPORT

IC: 10809A-SR800

Product Name	:	Rechargeable Li-Polymer Magnetic Power Bank
Model Name	:	SR800 Magnetic
Brand Name	:	ADATA
Report No.	:	PTC25051400902E-IC01
Prepared for		
ADATA Technology Co., Ltd.		
25F., No. 533, Tanmei St., Neihu Dist., Taipei City 114, Taiwan		
Prepared by		
Precise Testing & Certification (Guangdong) Co., Ltd.		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		



Report No.: PTC25051400902E-IC01

1 TEST RESULT CERTIFICATION

Applicant's name : ADATA Technology Co., Ltd.
Address : 25F., No. 533, Tanmei St., Neihu Dist., Taipei City 114, Taiwan
Manufacture's name : ADATA Technology Co., Ltd.
Address : 25F., No. 533, Tanmei St., Neihu Dist., Taipei City 114, Taiwan
Product name : Rechargeable Li-Polymer Magnetic Power Bank
Model name : SR800 Magnetic
Standards : RSS-216 Issue3; RSS-Gen Issue 5; ICES-001 Issue 5
Test procedure : RSS-216 Issue3; RSS-Gen Issue 5; ICES-001 Issue 5
Test Date : May. 16, 2025 to May. 28, 2025
Date of Issue : May. 28, 2025
Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the ISED requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Conduct Emission	RSS-216 Clause 5.3.2 ICES-001 Issue 5 section 3.3.3	PASS
Radiated Spurious Emissions	RSS-216 Clause 5.3.3.1&Clause 5.3.3.2 ICES-001 Issue 5 Section 3.3.4	PASS
Occupied bandwidth and 20dB Bandwidth	RSS-GEN Clause 6.7	PASS
Antenna requirement	RSS-GEN Clause 6.8	PASS



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3 TEST FACILITY

Precise Testing & Certification Co., Ltd

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

A2LA Certificate No.: 4408.01

FCC Registration Number: 790290

FCC Designation Number: CN1219

IC Registration Number: 12191A

CAB identifier: CN0080



4. General Information

4.1 General Description of E.U.T.

Product Name	:	Rechargeable Li-Polymer Magnetic Power Bank
Model name	:	SR800 Magnetic
Operating frequency	:	115kHz-205kHz
Number of Channel	:	1
Antenna installation	:	Inductive loop coil Antenna
Antenna Gain	:	0dBi
Type of Modulation	:	ASK
Power supply	:	Capacity Capacidad de la batería :3.87V / 5000mAh Input Entrada nominal: USB-C :5V/3A,9V/2A Output Salida nominal : USB-C 5V/3A,9V/2.22A, Max (máximo de) 20W Wireless Charge:5W/7.5W/10W/15W Max Output Salida máxima : USB-C + Wireless output:DC5V/3A,15W
Wireless Charging Power	:	5W/7.5W/10W/15W
Hardware Version	:	N/A
Software Version	:	Z4



4.2 Test Mode

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 operation mode or test configuration mode mentioned above was evaluated respectively.

This EUT is tested with a adapter, only worst case is in the report.

Pretest Mode	Description
Mode 1	Stand charging mode(5W,no load, half load, full load)
Mode 2	Stand charging mode(7.5W,no load, half load, full load)
Mode 3	Stand charging mode(10W,no load, half load, full load)
Mode 4	Stand charging mode(15W,no load, half load, full load)
Mode 5	Charging

Note: All listed pre-test modes are tested and, unless otherwise specified, only the data for the worst mode (mode 4) are recorded in the report.



5 Equipment During Test

5.1 Equipments List

RF Conducted Test

Name of Equipment	Manufacturer	Model	Serial No.	Last calibration	Calibration Due	Calibration period
MXA Signal Analyzer	Agilent	N9020A	MY56070279	Aug. 15, 2024	Aug. 14, 2025	1 year
Coaxial Cable	CDS	79254	46107086	Aug. 15, 2024	Aug. 14, 2025	1 year
Power Meter	Anritsu	ML2495A	0949003	Aug. 15, 2024	Aug. 14, 2025	1 year
Power Sensor	Anritsu	MA2411B	0917017	Aug. 15, 2024	Aug. 14, 2025	1 year
Spectrum Analyzer	Rohde&Schwarz	FSU26	1166.1660.26	Aug. 15, 2024	Aug. 14, 2025	1 year

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

Radiated Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Last calibration	Calibration Due	Calibration period
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Aug. 15, 2024	Aug. 14, 2025	1 year
Loop Antenna	Schwarzbeck	FMZB 1519	012	Aug. 15, 2024	Aug. 14, 2025	1 year
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3355	Aug. 15, 2024	Aug. 14, 2025	1 year
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	Aug. 15, 2024	Aug. 14, 2025	1 year
Cable	Schwarzbeck	PLF-100	549489	Aug. 15, 2024	Aug. 14, 2025	1 year
Spectrum Analyzer	Agilent	E4407B	MY45109572	Aug. 15, 2024	Aug. 14, 2025	1 year
Horn Antenna	SCHWARZBECK	9120D	9120D-1246	Aug. 15, 2024	Aug. 14, 2025	1 year
Power Amplifier	LUNAR EM	LNA1G18-40	J10100000081	Aug. 15, 2024	Aug. 14, 2025	1 year
Horn Antenna	SCHWARZBECK	BBHA 9170	9170-181	Aug. 15, 2024	Aug. 14, 2025	1 year
Amplifier	SCHWARZBECK	BBV 9721	9721-205	Aug. 15, 2024	Aug. 14, 2025	1 year



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Cable	H+S	CBL-26	N/A	Aug. 15, 2024	Aug. 14, 2025	1 year
RF Cable	R&S	R204	R21X	Aug. 15, 2024	Aug. 14, 2025	1 year

Conducted Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Last calibration	Calibration Due	Calibration period
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Aug. 15, 2024	Aug. 14, 2025	1 year
Artificial Mains Network	Rohde&Schwarz	L2-16B	000WX31025	Aug. 15, 2024	Aug. 14, 2025	1 year
Artificial Mains Network	Rohde&Schwarz	ENV216	101342	Aug. 15, 2024	Aug. 14, 2025	1 year



5.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	$\pm 1.0\text{dB}$
Power Spectral Density, conducted	$\pm 2.2\text{dB}$
Radio Frequency	$\pm 1 \times 10^{-6}$
Bandwidth	$\pm 1.5 \times 10^{-6}$
Time	$\pm 2\%$
Duty Cycle	$\pm 2\%$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$
Radiated Emission(9KHz~30MHz)	$\pm 2.54\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$
Radiated Emission(1GHz~25GHz)	$\pm 4.74\text{dB}$
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%	



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5.3 Description of Support Units

Equipment	Model No.	Series No.
Adapter	AY140AA-1C-CH	N/A
Mobile phone	Xiaomi 13	N/A

6 Conducted Emission

Test Requirement: : RSS-216

Test Method: : ICES-001

Test Result: : PASS

Frequency Range: : 150kHz to 30MHz

Class/Severity: : Class B

Detector: : Peak for pre-scan (9kHz Resolution Bandwidth)

6.1 E.U.T. Operation

Operating Environment :

Temperature: : 25.5 °C

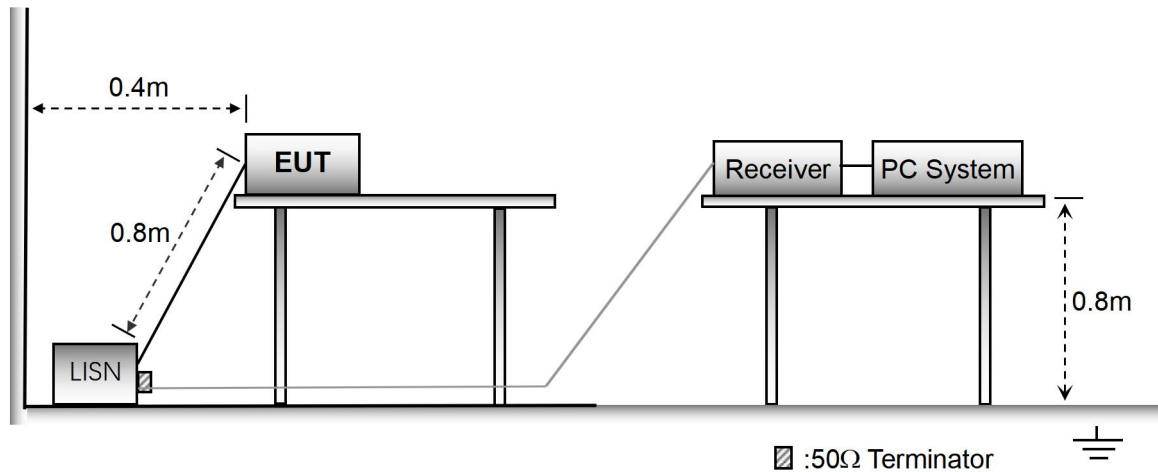
Humidity: : 51 % RH

Atmospheric Pressure: : 101.2kPa

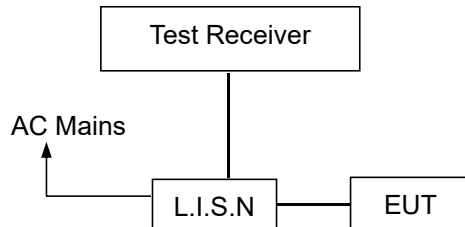
Test Voltage : AC 120V/60Hz

6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the RSS-GEN Issue 5.



6.3 Test SET-UP (Block Diagram of Configuration)



6.4 Measurement Procedure:

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

6.5 Conducted Emission Limit

ICES-001 Table 1: Conducted emission limits for induction cooking appliances (AC mains terminals)

Frequency range (MHz)	Appliances rated 120 V, without an earth connection Quasi-peak (dB μ V)	Appliances rated 120 V, without an earth connection Average (dB μ V)	All other appliances Q uasi-peak (dB μ V)	All other appliances Average (dB μ V)
0.009 – 0.05	122	—	110	—
0.05 – 0.15	102 to 92 *	—	90 to 80 *	—
0.15 – 0.5	72 to 62 *	62 to 52 *	66 to 56 *	56 to 46 *
0.5 – 5	56	46	56	46
5 – 30	60	50	60	50
Note: The more stringent limit applies at transition frequencies. * The limit level in dB μ V decreases linearly with the logarithm of frequency.				



6.6 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

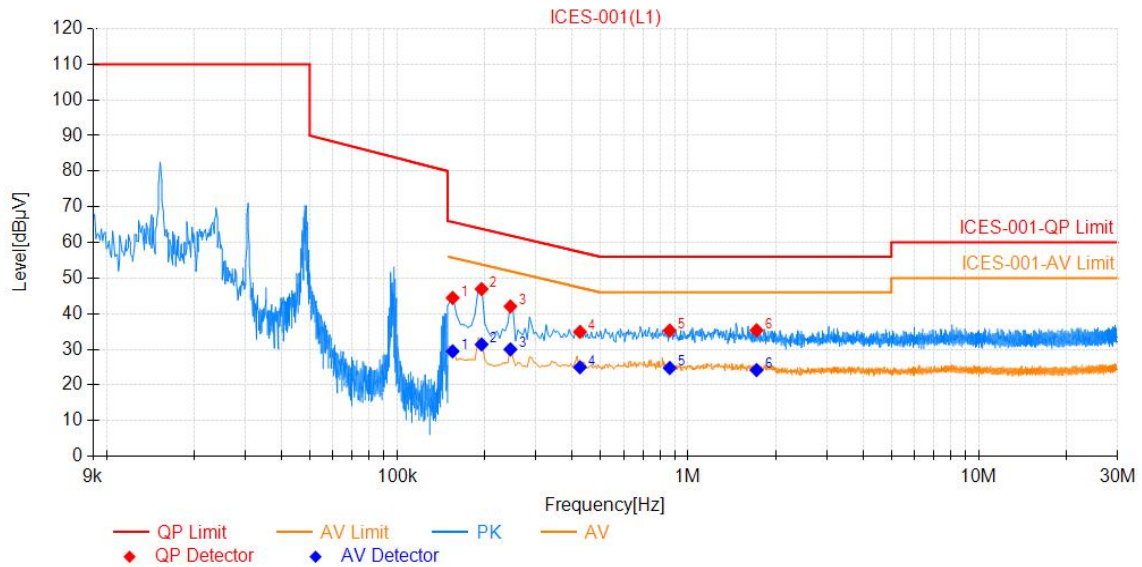
6.7 Conducted Emission Test Result

Pass.



Test mode(mode5)

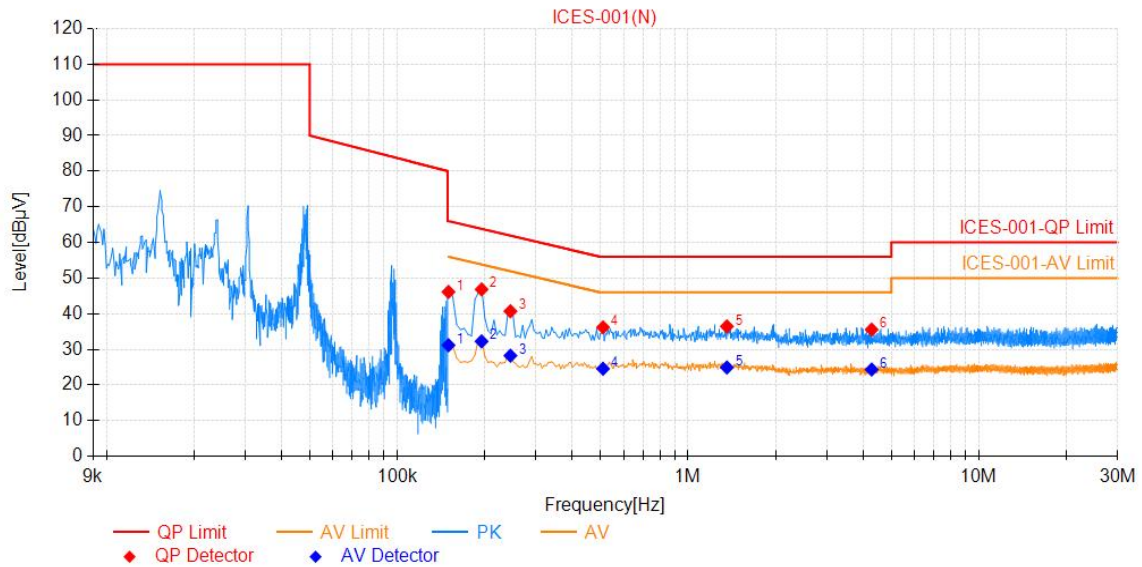
Line -120V/60Hz:



Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.155	24.87	19.57	44.44	65.73	21.29	9.89	29.46	55.73	26.27	PASS
2	0.195	27.44	19.47	46.91	63.82	16.91	11.91	31.38	53.82	22.44	PASS
3	0.245	22.54	19.50	42.04	61.92	19.88	10.50	30.00	51.92	21.92	PASS
4	0.425	15.19	19.71	34.90	57.35	22.45	5.27	24.98	47.35	22.37	PASS
5	0.865	15.72	19.56	35.28	56.00	20.72	5.21	24.77	46.00	21.23	PASS
6	1.720	15.87	19.49	35.36	56.00	20.64	4.69	24.18	46.00	21.82	PASS

Neutral -120V/60Hz:



Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.150	26.59	19.54	46.13	66.00	19.87	11.63	31.17	56.00	24.83	PASS
2	0.195	27.36	19.46	46.82	63.82	17.00	12.78	32.24	53.82	21.58	PASS
3	0.245	21.22	19.47	40.69	61.92	21.23	8.75	28.22	51.92	23.70	PASS
4	0.510	16.63	19.55	36.18	56.00	19.82	5.02	24.57	46.00	21.43	PASS
5	1.360	16.81	19.62	36.43	56.00	19.57	5.30	24.92	46.00	21.08	PASS
6	4.280	16.00	19.56	35.56	56.00	20.44	4.78	24.34	46.00	21.66	PASS

Note: QP Margin[dB]= QP Limit[dBμV]- QP Value[dBμV], AV Margin[dB]= AV Limit[dBμV]- AV Value[dBμV].



7 Radiated Spurious Emissions

Test Requirement : RSS-216
 Test Method : ICES-001
 Test Result : PASS
 Measurement Distance : 3m
 Limit : See the follow table

Table 2: Magnetic field strength radiated emission limits for induction cooking appliances

Frequency range (MHz)	Quasi-peak, at 3 m distance (dB μ A/m)
0.009 – 0.07	69
0.07 – 0.15	69 to 39 *
0.15 – 30	39 to 7 *
* The limit level in dB μ A/m decreases linearly with the logarithm of frequency.	

Table 4: Electric field strength radiated emission limits for induction cooking appliances

Frequency range (MHz)	O ATS or SAC * 10 m measurement distance Q uasi-peak (dB μ V/m)	O ATS or SAC * 3 m measurement distance Q uasi-peak (dB μ V/m)	FAR * 3 m measurement distance Q uasi-peak (dB μ V/m)
30 – 230	30	40	42 to 35**
230 – 1000	37	47	42
Note: The more stringent limit applies at the transition frequency. * OATS = open-area test site, SAC = semi-anechoic chamber, FAR = fully-anechoic room (see CSA CISPR 11:19). ** The limit level in dB μ V/m decreases linearly with the logarithm of frequency.			

7.1 EUT Operation

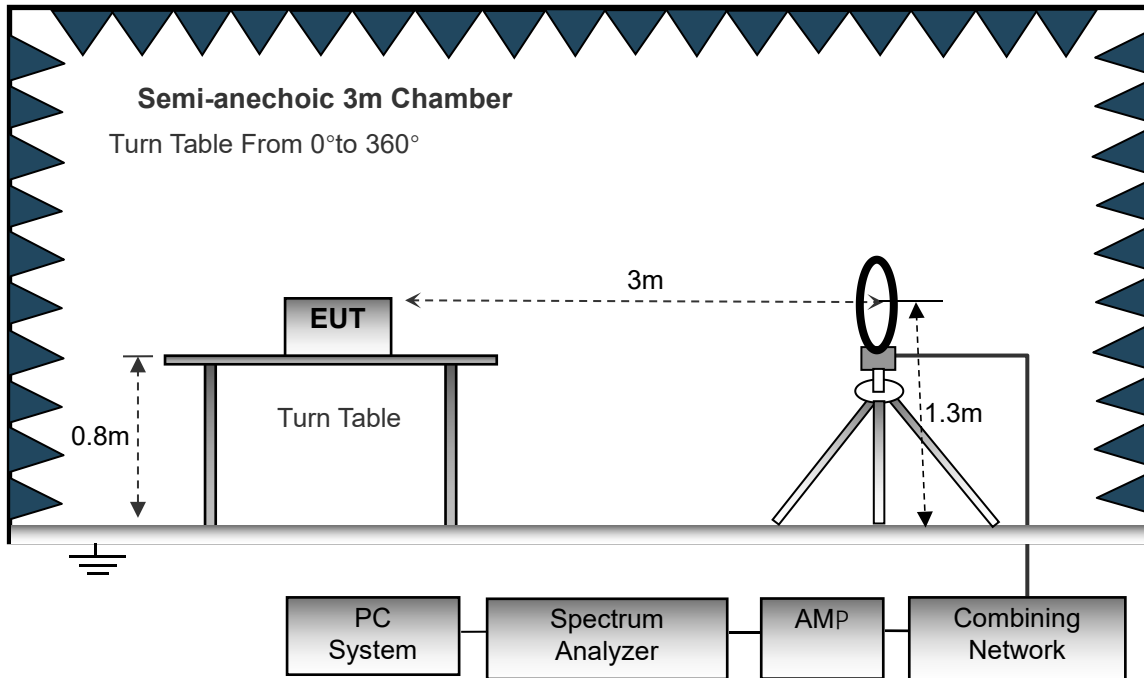
Operating Environment :

Temperature : 23.5 °C
 Humidity : 51.1 % RH
 Atmospheric Pressure : 101.2kPa

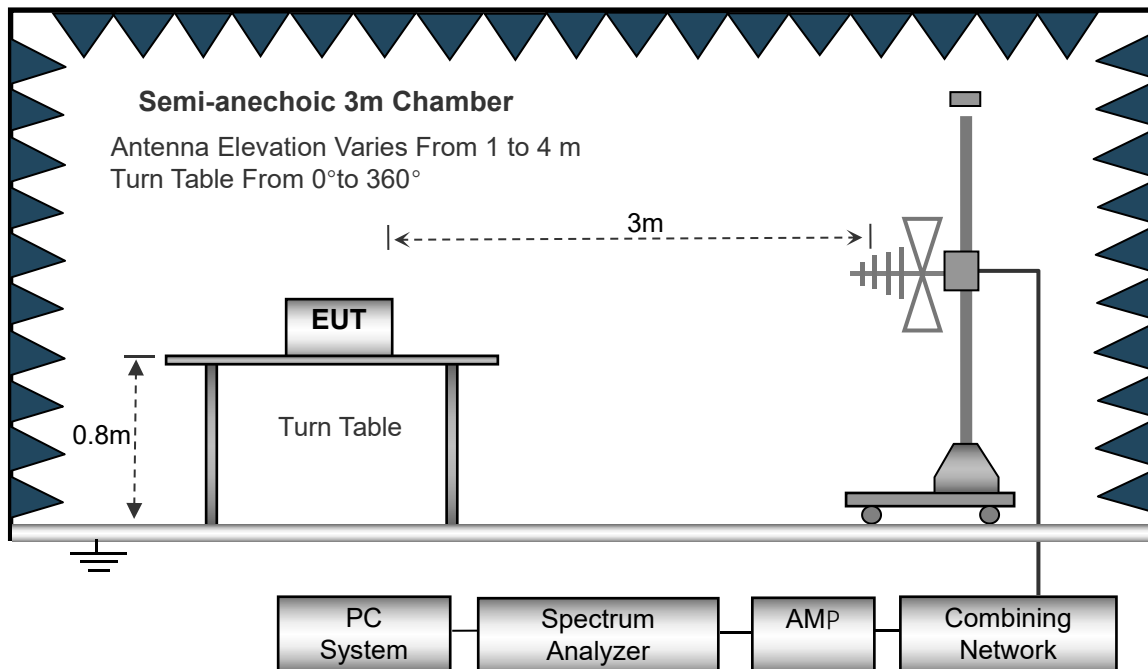
7.3 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

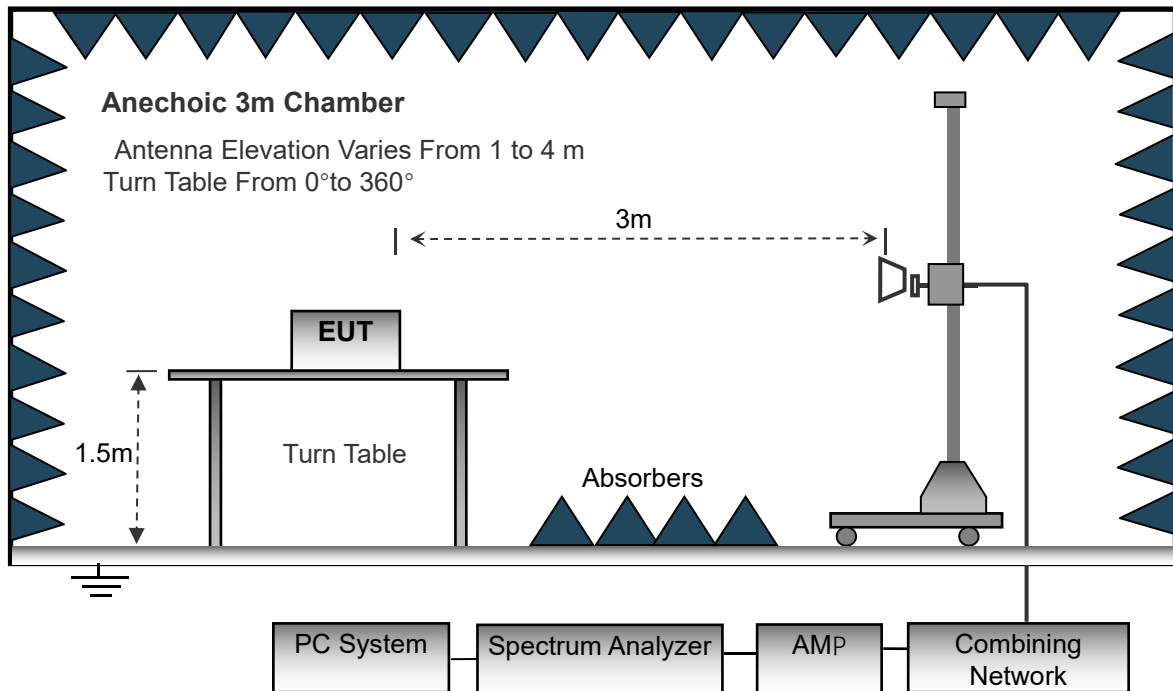
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



7.4 Spectrum Analyzer Setup

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

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



7.5 Test Procedure

Special requirements for 9 KHz to 30 MHz:

All radiated emission measurements in terms of magnetic field strength shall be performed with a shielded loop antenna.

For all radiated emission measurements in terms of magnetic field strength, the loop antenna shall be placed such that:

- i. its centre shall be at 1.3 m height above the ground plane;
- ii. the projection of its centre onto the ground plane shall be at the specified measurement distance from the projection on the ground plane of the closest point on the boundary of the equipment under test (EUT); and
- iii. measurements shall be performed with the loop antenna placed vertically, in turn, in two polarizations (the measurement axis specified below is the line segment connecting the projections on the ground plane of the centre of the loop antenna and the centre of the EUT arrangement):
 - coaxial (loop plane perpendicular to the ground plane and to the measurement axis); and
 - coplanar (loop plane perpendicular to the ground plane and coplanar with the measurement axis).

The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10-2013.

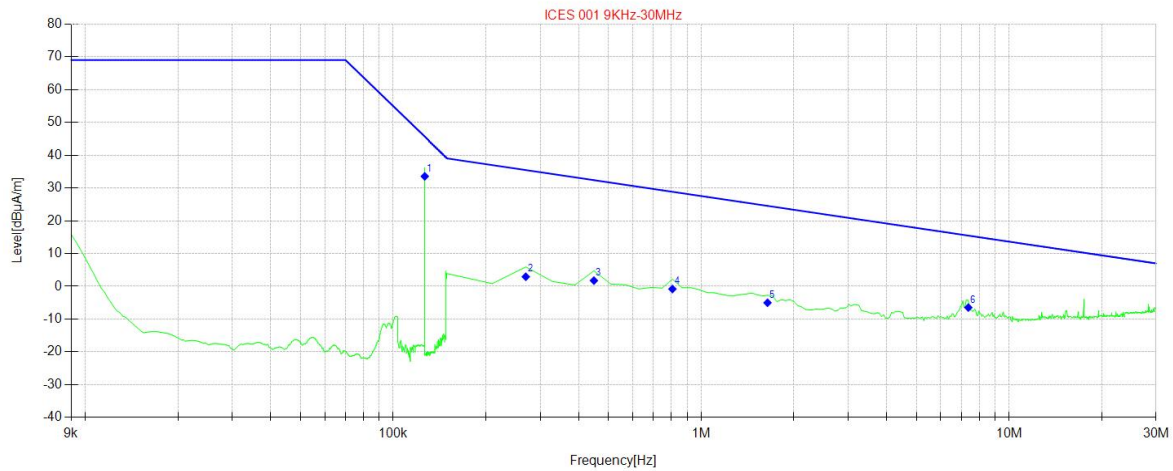
1. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. Set to the maximum power setting and enable the EUT transmit continuously.
5. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.

7.6 Summary of Test Results

Worst Case(Mode 4):

Test Frequency: 9KHz-30MHz

Frequency(126.36KHz):



Final List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBuA/m]	QP Limit [dBuA/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.13	-30.65	33.54	45.68	12.14	100	0-360	Coaxial
2	0.27	-29.99	2.93	35.46	32.53	100	0-360	Coaxial
3	0.45	-30.12	1.75	32.38	30.63	100	0-360	Coaxial
4	0.81	-30.37	-0.82	28.84	29.66	100	0-360	Coaxial
5	1.64	-30.40	-5.01	24.55	29.56	100	0-360	Coaxial
6	7.37	-30.40	-6.48	15.48	21.96	100	0-360	Coaxial

Remark:

1. Corrected Reading(dBuA/m)= Reading(dBuV)+ Factor(dB(S/m)),Margin(dB)= Limit (dBuA/m)- Corrected Reading (dBuA/m), Factor[dB(S/m)] = L_c [dB]- G_{PA} [dB]+ AF^H [dB(S/m)], L_c is the cable loss; G_{PA} [dB] is the gain of the preamplifier; AF^H is the magnetic antenna factor.

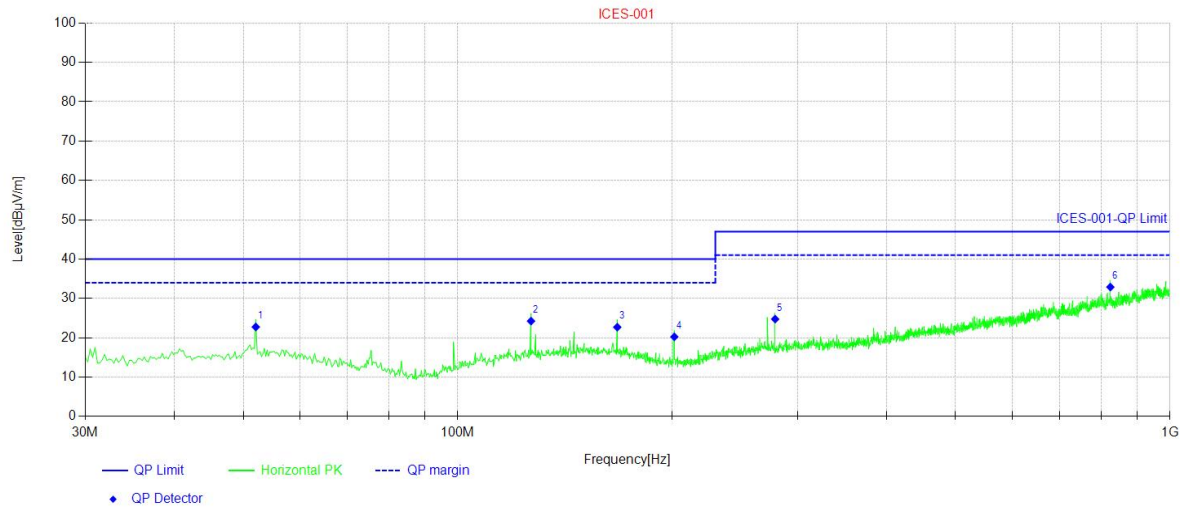
2. Margin= Limit- Corrected Reading;

3. Measured at antenna position coaxial and coplanar, only record the Coaxial



Test Frequency: 30MHz ~ 1GHz

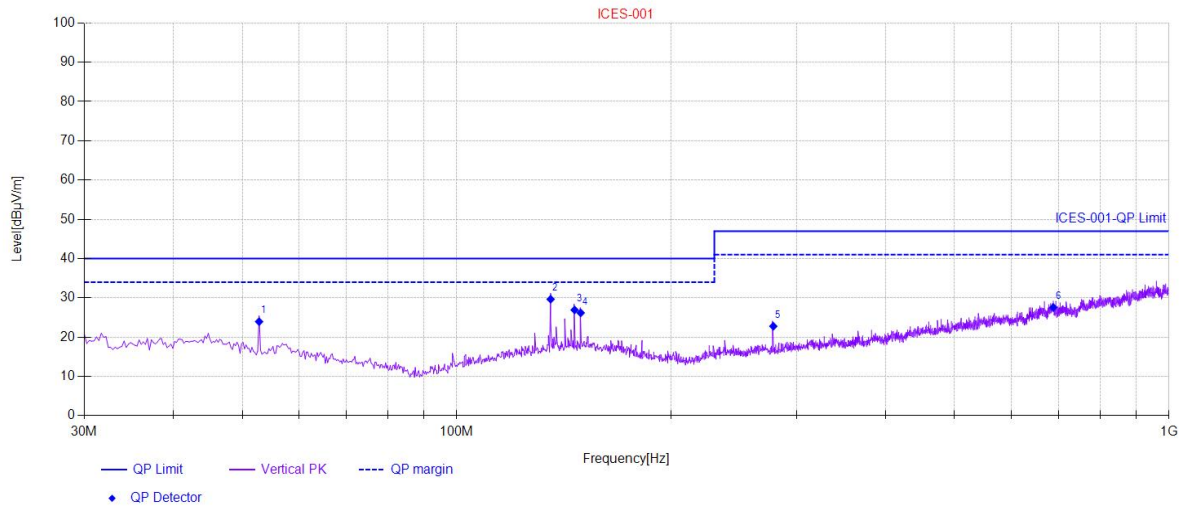
Horizontal:



Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	52.07	33.59	-10.84	22.75	40.00	17.25	Horizontal	PASS
2	126.76	34.52	-10.28	24.24	40.00	15.76	Horizontal	PASS
3	167.50	32.29	-9.59	22.70	40.00	17.30	Horizontal	PASS
4	201.45	32.63	-12.39	20.24	40.00	19.76	Horizontal	PASS
5	279.05	34.21	-9.46	24.75	47.00	22.25	Horizontal	PASS
6	824.67	29.88	3.02	32.90	47.00	14.10	Horizontal	PASS

Remark: QP Value(dBμV/m)= QP Reading(dBμV/m)+ Factor(dB(dB/m)),

QP Margin(dB)= QP Limit(dBμV/m)- QP Value(dBμV/m)

Vertical:


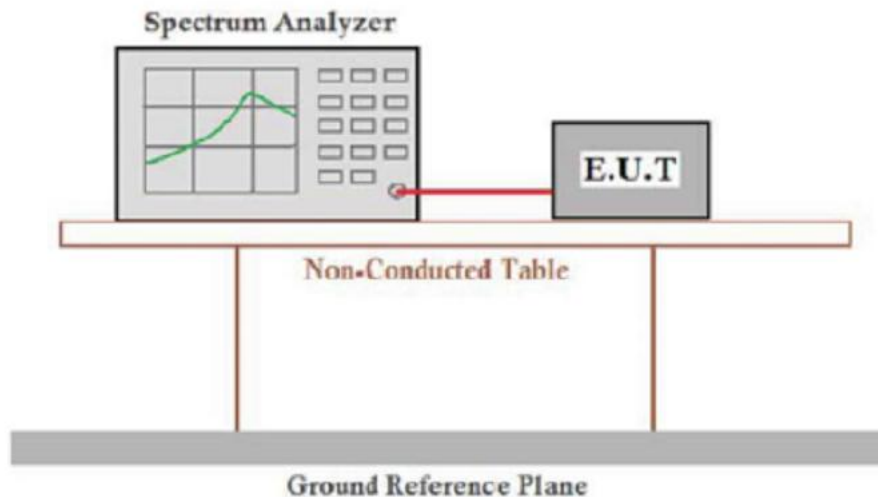
Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	52.80	34.78	-10.83	23.95	40.00	16.05	Vertical	PASS
2	135.49	39.56	-9.90	29.66	40.00	10.34	Vertical	PASS
3	146.40	36.7	-9.77	26.93	40.00	13.07	Vertical	PASS
4	149.31	35.66	-9.48	26.18	40.00	13.82	Vertical	PASS
5	278.32	32.23	-9.46	22.77	47.00	24.23	Vertical	PASS
6	688.15	26.9	0.66	27.56	47.00	19.44	Vertical	PASS

Remark: QP Value(dBμV/m)= QP Reading(dBμV/m)+ Factor(dB(dB/m)),

QP Margin(dB)= QP Limit(dBμV/m)- QP Value(dBμV/m)

8 Occupied bandwidth and 20dB Bandwidth

8.1 Block Diagram of Test Setup



8.2 Rules and specifications

RSS-GEN Clause 6.7

8.3 Test Procedure

Intentional radiator operating under the alternative provisions to the general emission limits, as contained in RSS-GEN Clause 6.7 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be demonstrated by measuring the radiated emissions.

8.4 Result

Pass.



Report No.: PTC25051400902E-IC01

Test Frequency (kHz)	Occupied bandwidth (kHz)	20dB Bandwidth (kHz)	Limit (kHz)	Result
126.36	0.508	0.513	-	pass

Charging Mobile phone:



9 Antenna Application

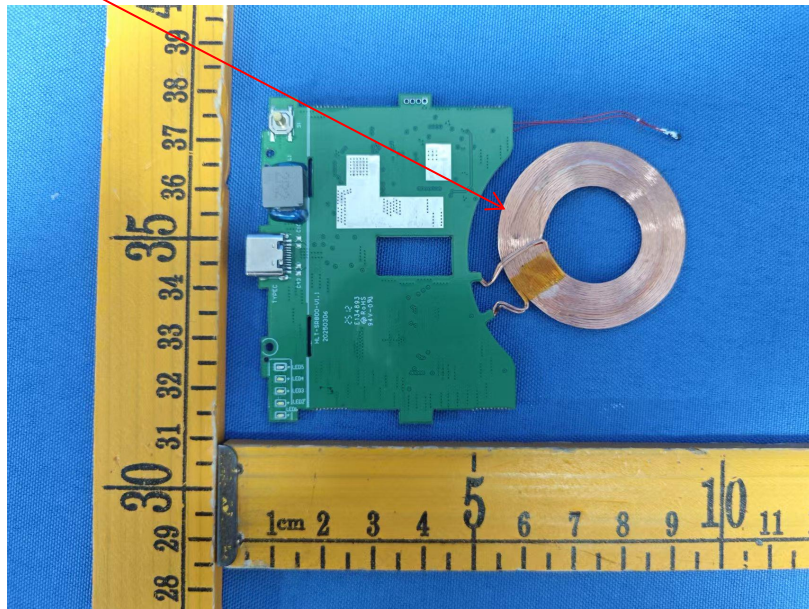
9.1 Antenna Requirement

For intentional device, according to RSS-GEN Clause 6.8, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to RSS-GEN Clause 6.8, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2 Result

The EUT'S antenna, permanent attached antenna, is coil Antenna. The antenna's gain is 0 dBi and meets the requirement.

ANT

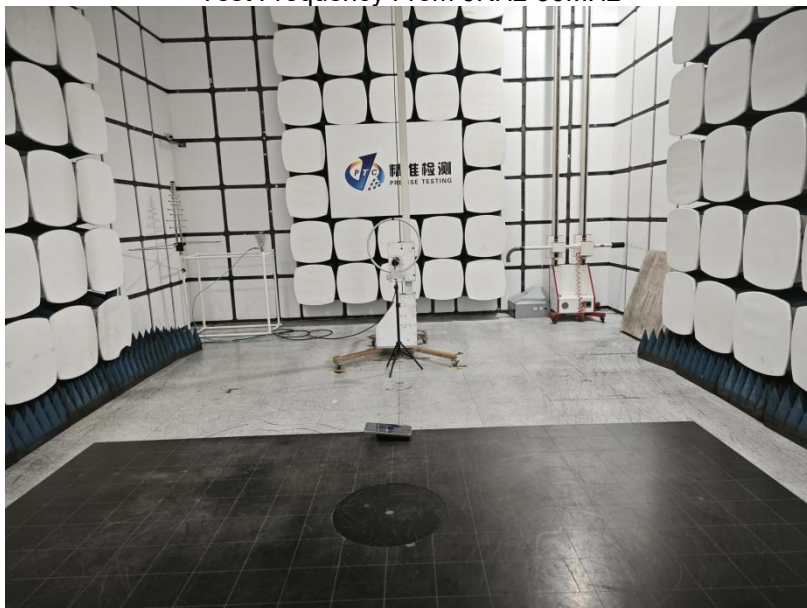


9 TEST PHOTOS

Conducted Emissions

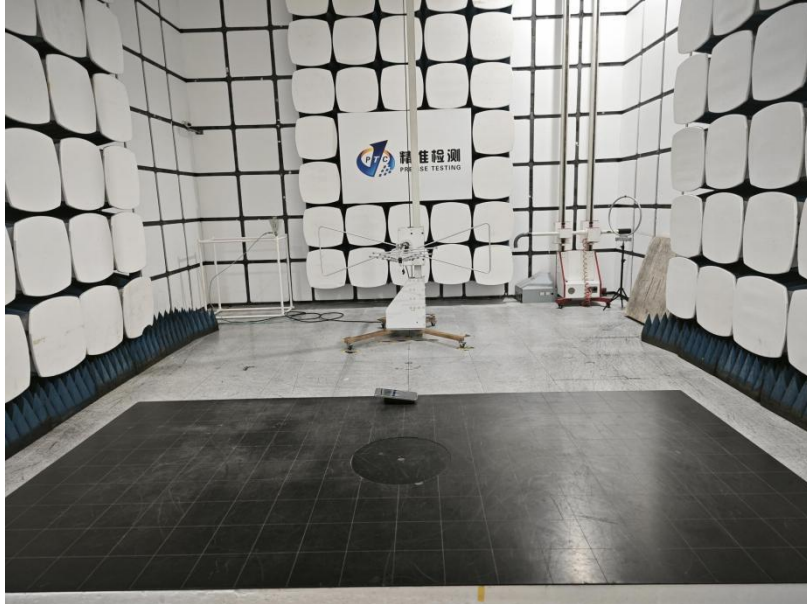


Radiated Spurious Emissions
Test Frequency From 9KHz-30MHz



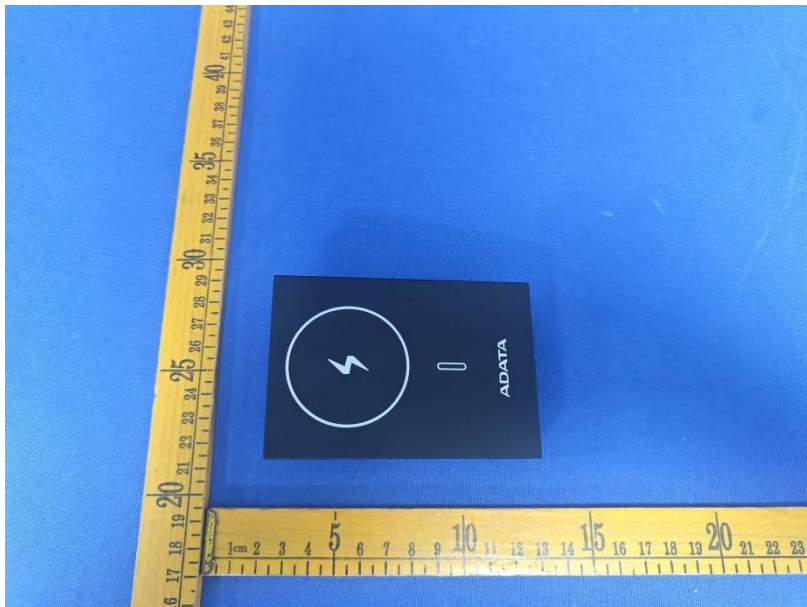


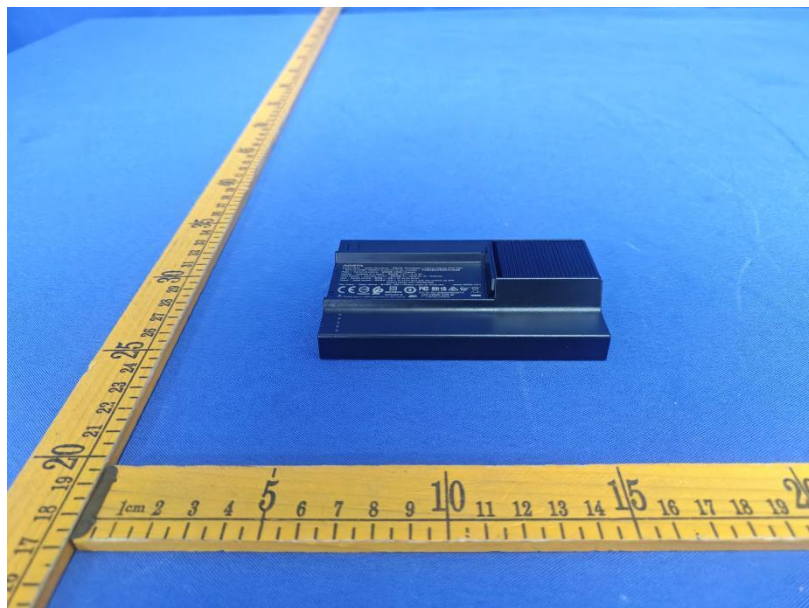
Test frequency from 30MHz-1000MHz

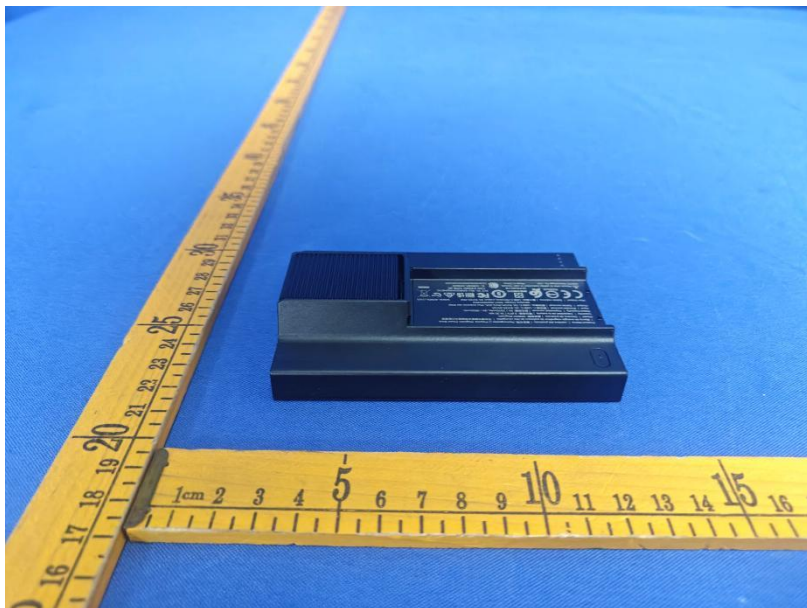
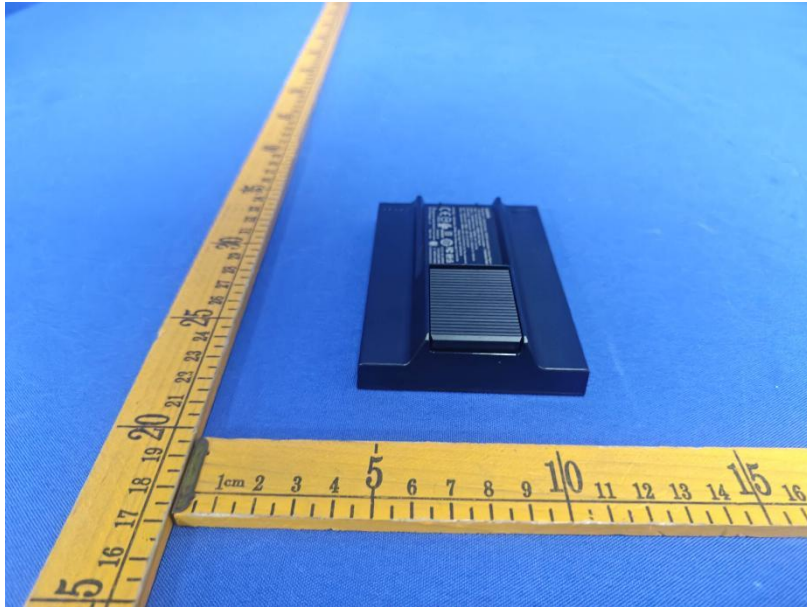


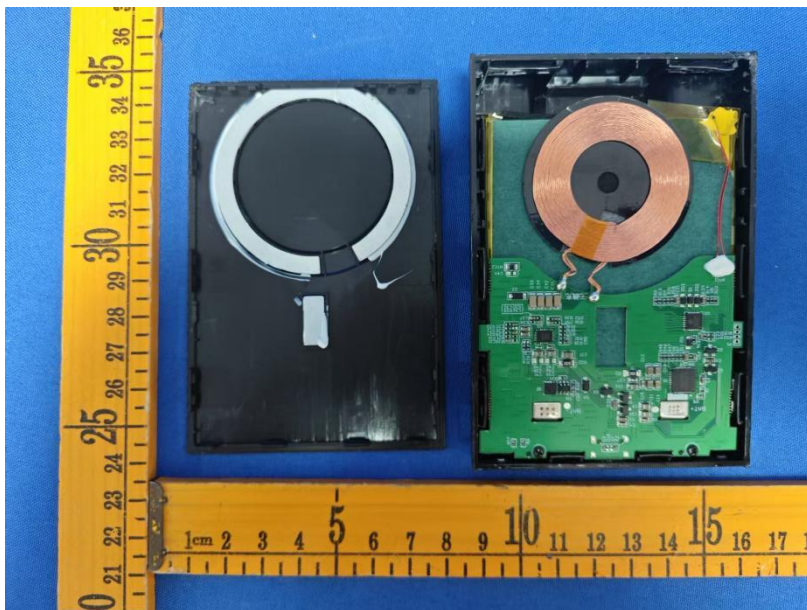
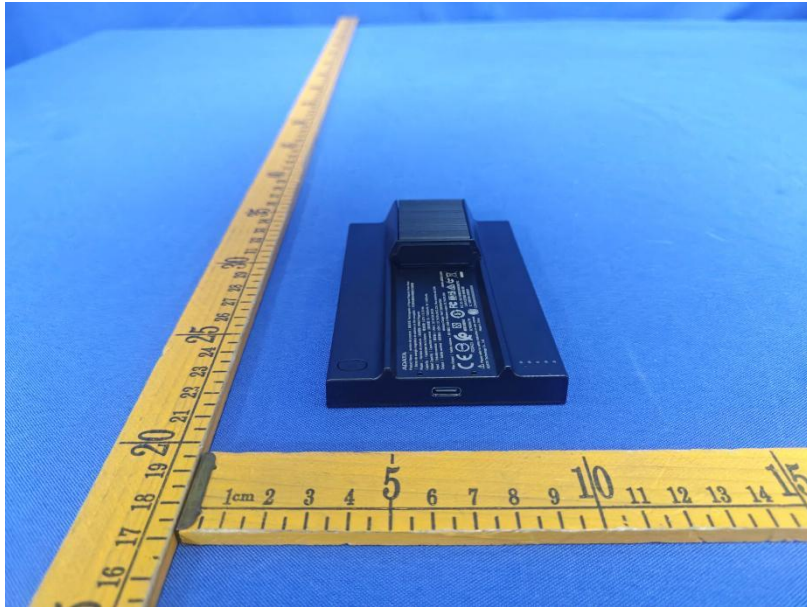


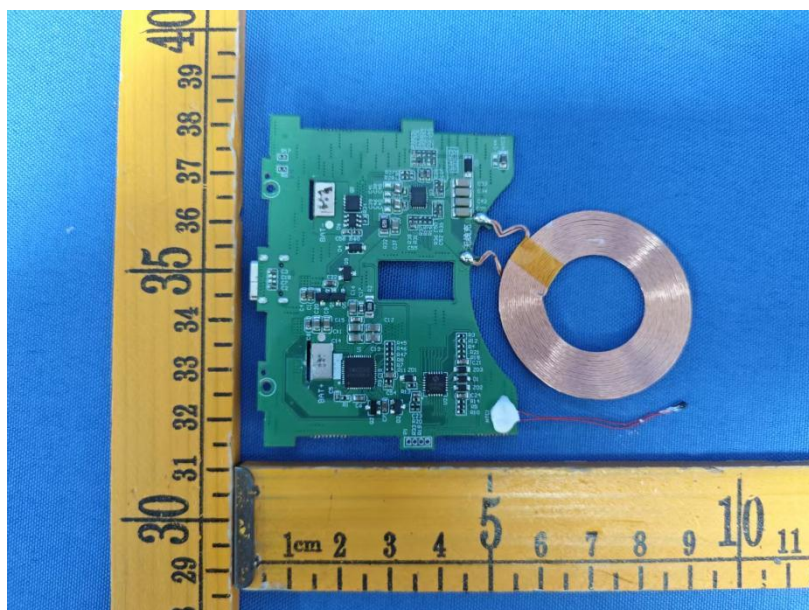
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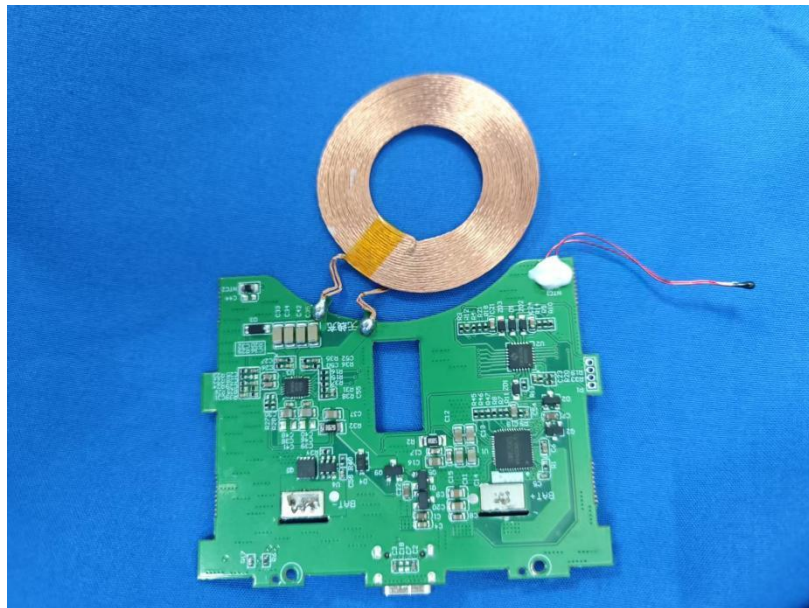
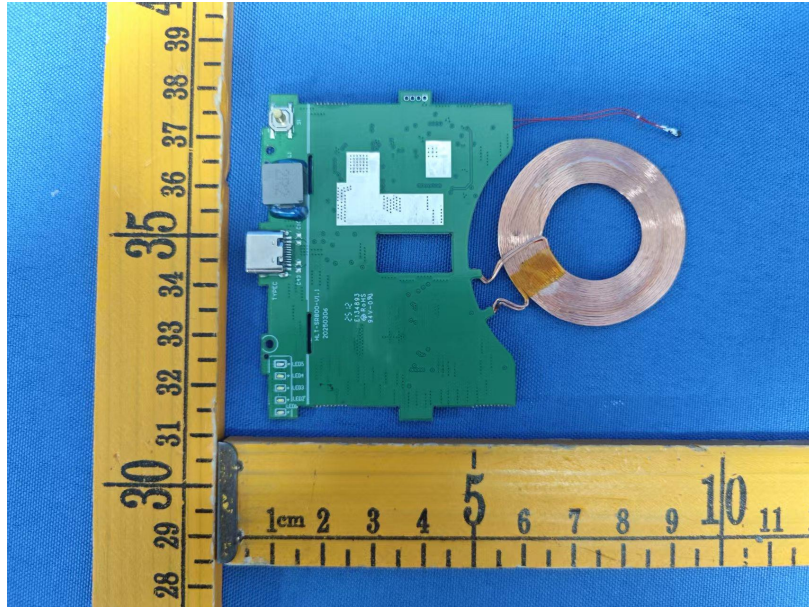


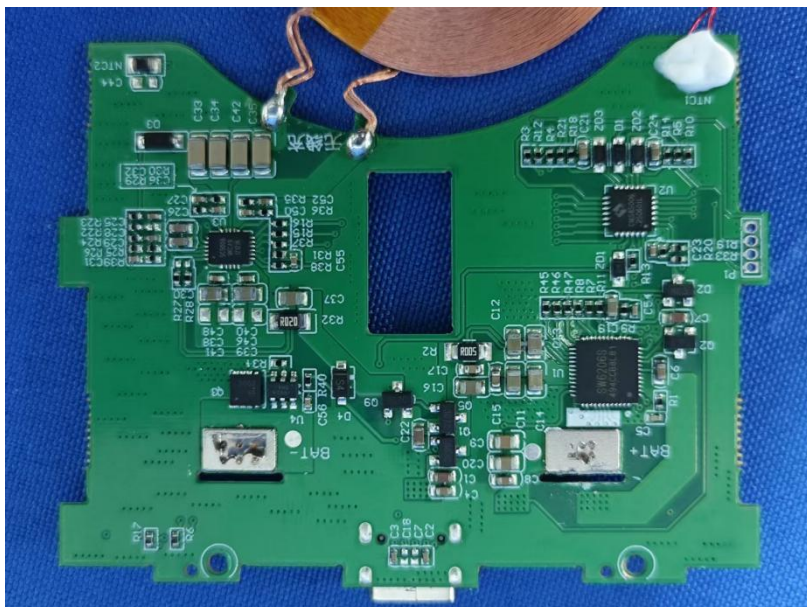
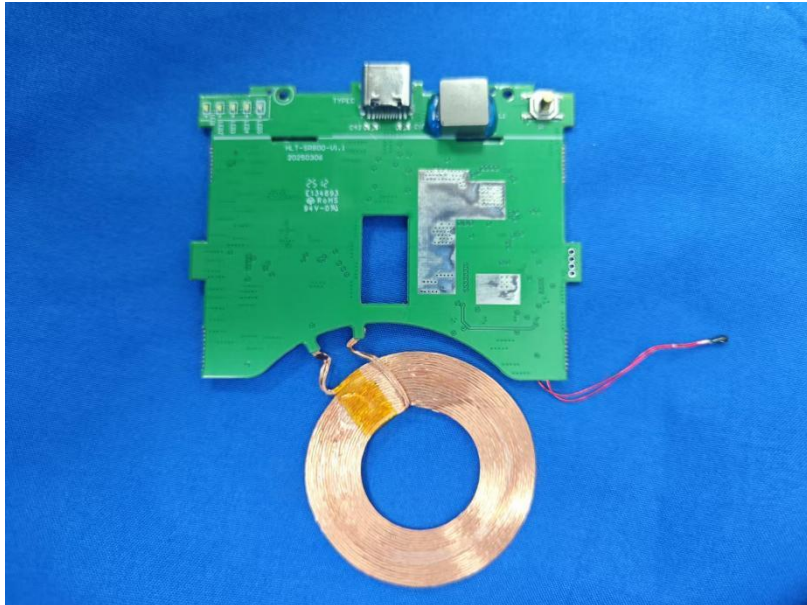


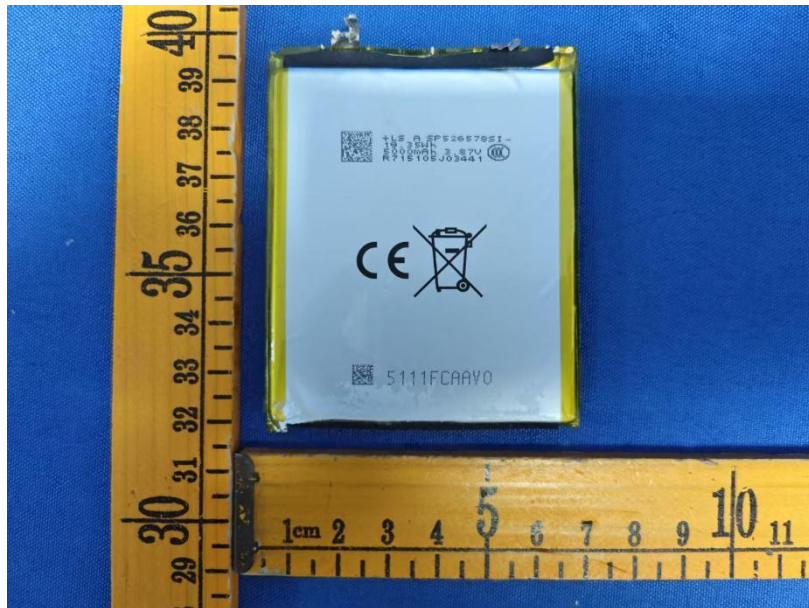












*****THE END REPORT*****