Test Report

Product: PADFOLIO

Trade Mark: STARLINE

Model Number: PF88

FCC ID: 2BQNL-PF88-PF90

Prepared for

DONGGUAN COHESION LEATHER GOODS CO.LTD

ROOM 301, BUILDING 1, NO. 30 WEIXING ROAD, CHASHAN TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

Prepared by

Shenzhen HongBiao Certification& Testing Co., Ltd

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TEST RESULT CERTIFICATION

Applicant's Name..... :	DONGGUAN COHESION LEATHER GOODS CO.LTD
Address ..... :	ROOM 301, BUILDING 1, NO. 30 WEIXING ROAD, CHASHAN TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA
Manufacturer's Name ..... :	DONGGUAN COHESION LEATHER GOODS CO.LTD
Address ..... :	ROOM 301, BUILDING 1, NO. 30 WEIXING ROAD, CHASHAN TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA
Product description	
Product name ..... :	PADFOLIO
Model Number ..... :	PF88
Standards ..... :	FCC Part 15C
Test procedure ..... :	IEEE/ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test ..... :	
Date (s) of performance of tests ..... :	Sept. 15, 2026~Oct. 13, 2026
Test Result..... :	**Pass**

Testing Engineer : Zoe Su

(Zoe Su)

Technical Manager : Hans Mou

(Hans Mou)

Authorized Signatory : Leo Su

(Leo Su)

Revision History

Revised No.	Date of Issue	Description
01	Oct. 13, 2026	Original

1 General Description

1.1 Description of EUT

Product name:	PADFOLIO
Model name:	PF88
Series Model:	PF90
Different of series model:	All the models are the same circuit and module, except the colour, appearance and model No..
Operation frequency:	115-205kHz, 300-350kHz
Operational mode:	Wireless charging
Modulation type:	ASK
Antenna type:	Coil Antenna
Hardware version:	V1.0
Software version:	V1.0
Battery:	DC 3.7V, 5000mAh, 18.5Wh
Ratings:	Battery Capacity: 5,000mAh/18.5Wh Type-C Input: 5V⎓3A/9V⎓2.22A/12V⎓1.67A Type-C Output: 5V⎓3A/9V⎓2.22A/12V⎓1.67A Wireless Output for Mobile Phone: Max.15W Wireless Output for Apple Earbuds: Max.5W Wireless Output for Apple Watches: Max.2.5W
Adapter information:	N/A

1.2 Test Mode

Pretest Test Mode	Description of Mode
1	Wireless Output: 5W
2	Wireless Output: 7.5W
3	Wireless Output: 10W
4	Wireless Output: 15W
5	Wireless Output: 2.5W
6	Adapter charging + Wireless Output: 5W
7	Adapter charging + Wireless Output: 2.5W

Note: All modes have been tested, and the report only reflects the test results of the worst mode (Final Test Mode), When the prototype is powered by the adapter, it can only perform 5W/2.5W wireless charging output.

Test Item	Final Test Mode
Conducted Emissions	7
Radiated Emissions	4/7
20dB bandwidth	4/5

Note: All modes have been tested, and the report only reflects the test results of the worst mode.

1.3 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.4 Power setting configuration parameters

Test Software Version	N/A		
Frequency	115-205kHz, 300-350kHz		
Parameters	Default		
RF cable			
Description	Connector	Length	Supplied by
Antenna Cable	SMA	10cm	Applicant

Note: Disclaimer: the loss of RF cable is too small and can be ignored.

1.5 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Adapter	CD289	35810	Ugreen Group Limited
Load	YBZ	/	Shenzhen Leaper Technology Co., Ltd.
Apple Watches	A2859	M69PQQ7J2T	Apple Inc.

2 Summary of Test Result

Test procedures according to the technical standards:

FCC Part 15C				
No.	Standard Section	Test Item	Result	Remark
1	FCC Part 15.203	Antenna Requirement	Pass	
2	FCC Part 15.207	Conducted Emission	Pass	
3	FCC Part 15.209	Radiated Emission	Pass	
4	FCC Part 15.215	20dB Bandwidth	Pass	

3 Test Facilities and Accreditations

3.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
Designation Number:	848916
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

3.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15ºC~35ºC
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

3.3 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 %.
The data and results quoted in this document are true and accurate values, and uncertainties are not involved in the calculations.
In addition, components and mass production processes that are similar to testing equipment may introduce additional deviations, and the manufacturer is solely responsible for the continued compliance of the equipment.

Measurement Frequency Range	U, (dB)	Note
RF frequency	$2x\ 10^{-5}$	
RF power, conducted	± 0.57 dB	
Conducted emission(150kHz~30MHz)	± 2.5 dB	
Radiated emission(9kHz-30MHz)	± 2.5 dB	
Radiated emission(30MHz~1GHz)	± 4.2 dB	
Occupied Bandwidth	±3%	
Temperature	±1 degree	
Humidity	± 5 %	

3.4 Test Software

Software name	Manufacturer	Model	Version
Conducted Emission test Software	Farad	EZ-EMC	EMC-CON 3A1.1+
Radiated Emission test Software	Farad	EZ-EMC	FA-03A2
RF Test System	MWRF	MTS 8310	2.0.0.0

4 List of Test Equipment

Radiation emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E001	Horn Antenna	Schwarzbeck	BBHA 9120D	02592	2026-04-25	2028-04-24
2	HB-E002	Biconical log-periodic composite antenna	Schwarzbeck	VULB 9168	01340	2026-04-25	2028-04-24
3	HB-E003	SHF-EHF Horn	Schwarzbeck	BBHA 9170	01193	2026-04-25	2028-04-24
4	HB-E005	Preamplifier	Noyetec	LAN-0118	NYCM1420102	2026-04-27	2027-04-26
5	HB-E006	Preamplifier	Noyetec	LAN-1840	NYCM1420103	2026-04-30	2027-04-29
6	HB-E007	EMI TEST RECEIVER	R&S	ESR7	102520	2026-04-28	2027-04-27
7	HB-E009	POSITINAL COTROLLER	Noyetec	N/A	N/A	/	/
8	HB-E013	RF switch	Noyetec	NY-RF4	NY0CM1420204	/	/
9	HB-E066	Illuminance Tester	TASI	TA8121	N/A	2026-04-30	2027-04-29
10	HB-E075	Active loop antenna	Schwarzbeck	FMZB 1519B	1519B-00245	2026-04-25	2028-04-24
11	HB-E076	Preamplifier	Hewlett Packard	8447D	1937A02278	2026-04-28	2027-04-27
Conduction emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E014	4 Path V-LISN	Schwarzbeck	NNLK 8121	00770	2026-04-27	2027-04-26
2	HB-E015	Pulse Limiter	Schwarzbeck	VTSD 9561-F	00949	2026-04-27	2027-04-26
3	HB-E016	Absorb clamp	ZHINAN	ZN23201	*21066*	2026-04-29	2027-04-28
4	HB-E059	Attenuator	Xianghua	TS2-6-1	220215166	2026-04-27	2027-04-26
5	HB-E069	EMI TEST RECEIVER	R&S	ESCI	100610	2026-04-27	2027-04-26

RF							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E041	MXG Anaiog Signal Generator	Agilent	N5181A	MY47070421	2026-04-27	2027-04-26
2	HB-E042	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW500	132108	2026-04-27	2027-04-26

3	HB-E043	MXG Anaiog Signal Generator	Agilent	N5182A	US46240335	2026-04-28	2027-04-27
4	HB-E044	Signal& spectrum Analyzer	R&S	FSV3044	101264	2026-04-28	2027-04-27
5	HB-E045	RF Control Box	Noyetec	NY100-R FCB	N/A	2026-04-28	2027-04-27
6	HB-E058	Thermometer Clock Humidity Monitor	N/A	HTC-1S	N/A	2026-04-30	2027-04-29

Note: the calibration interval of the above test instruments is 12&24 months and the calibrations are traceable to international system unit (SI).

5 Test Item And Results

5.1 Antenna Requirement

5.1.1 Standard Requirement

15.203 requirement: For intentional device, according to 15.203: 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

5.1.2 Test Result

The EUT antenna is Coil Antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

5.2 Conducted Emission

5.2.1 Limits

Limits – Class A		
Frequency (MHz)	Limit (dBμV)	
	Quasi-Peak	Average
0.15 to 0.5	79	66
0.5 to 30	73	60
Limits – Class B		
Frequency (MHz)	Limit (dBμV)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

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.

5.2.2 Test Procedures

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 equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

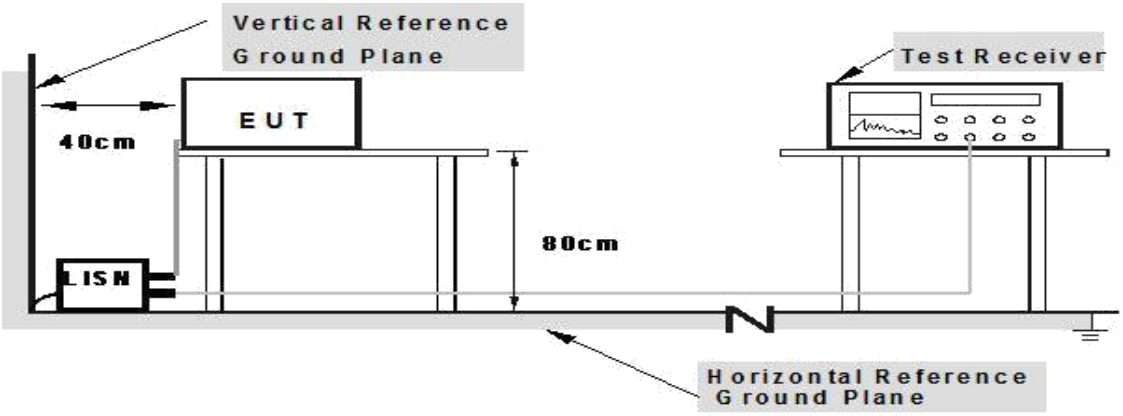
b) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

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 is at least 80 cm from nearest part of EUT chassis.

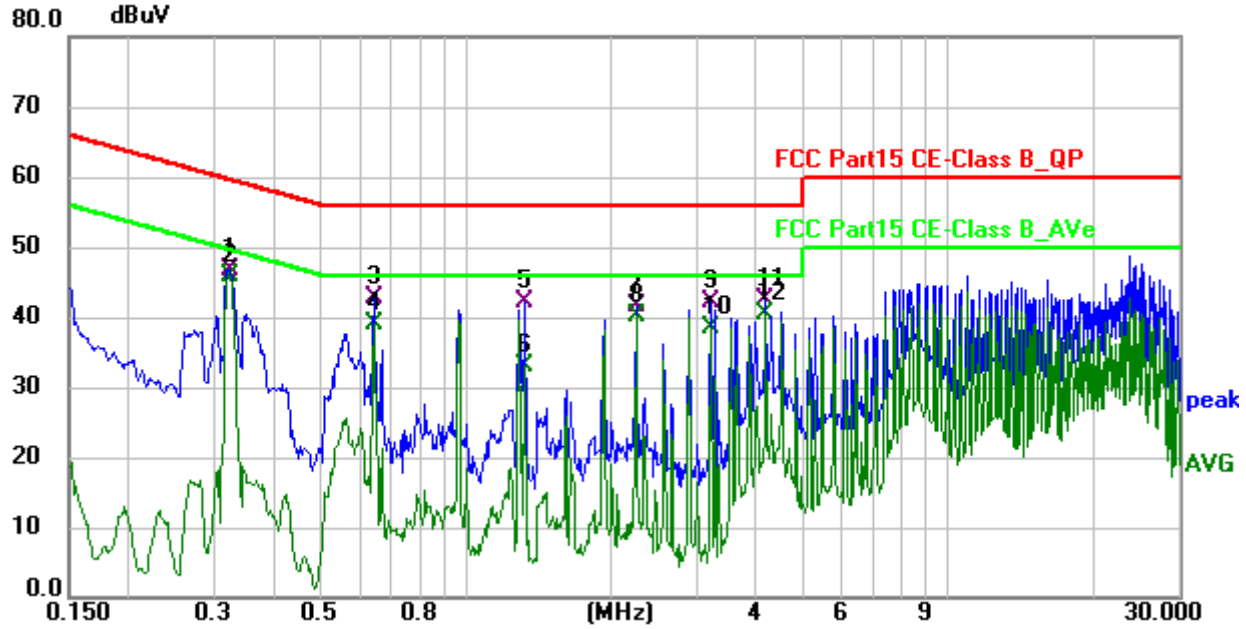
e) For the actual test configuration, please refer to the related Item – photographs of the test setup.

5.2.3 Test setup



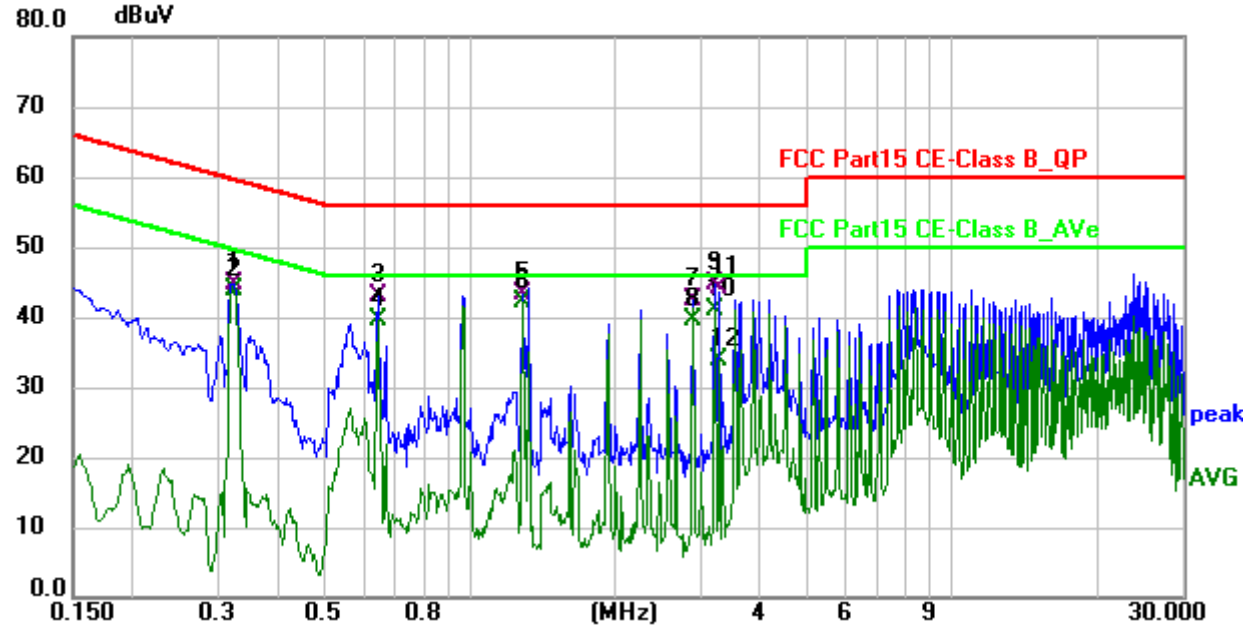
5.2.4 Test Result

EUT:	PADFOLIO	Model Name:	PF88
Test Mode:	Mode 7	Phase:	L
Test Voltage:	DC 12V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.323	36.14	10.60	46.74	59.63	-12.89	QP
2 *	0.323	35.25	10.60	45.85	49.63	-3.78	AVG
3	0.645	32.02	10.59	42.61	56.00	-13.39	QP
4	0.645	28.49	10.59	39.08	46.00	-6.92	AVG
5	1.325	31.42	10.68	42.10	56.00	-13.90	QP
6	1.325	22.42	10.68	33.10	46.00	-12.90	AVG
7	2.256	30.84	10.79	41.63	56.00	-14.37	QP
8	2.256	29.33	10.79	40.12	46.00	-5.88	AVG
9	3.224	31.21	10.89	42.10	56.00	-13.90	QP
10	3.224	27.64	10.89	38.53	46.00	-7.47	AVG
11	4.186	31.32	10.99	42.31	56.00	-13.69	QP
12	4.186	29.47	10.99	40.46	46.00	-5.54	AVG

EUT:	PADFOLIO	Model Name:	PF88
Test Mode:	Mode 7	Phase:	N
Test Voltage:	DC 12V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.323	34.14	10.60	44.74	59.63	-14.89	QP
2	0.323	33.25	10.60	43.85	49.63	-5.78	AVG
3	0.645	32.52	10.59	43.11	56.00	-12.89	QP
4	0.645	28.99	10.59	39.58	46.00	-6.42	AVG
5	1.288	32.74	10.67	43.41	56.00	-12.59	QP
6 *	1.288	31.49	10.67	42.16	46.00	-3.84	AVG
7	2.904	31.70	10.86	42.56	56.00	-13.44	QP
8	2.904	28.73	10.86	39.59	46.00	-6.41	AVG
9	3.224	33.71	10.89	44.60	56.00	-11.40	QP
10	3.224	30.14	10.89	41.03	46.00	-4.97	AVG
11	3.309	33.12	10.90	44.02	56.00	-11.98	QP
12	3.309	22.85	10.90	33.75	46.00	-12.25	AVG

5.3 Radiated Emission

5.3.1 Limits

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

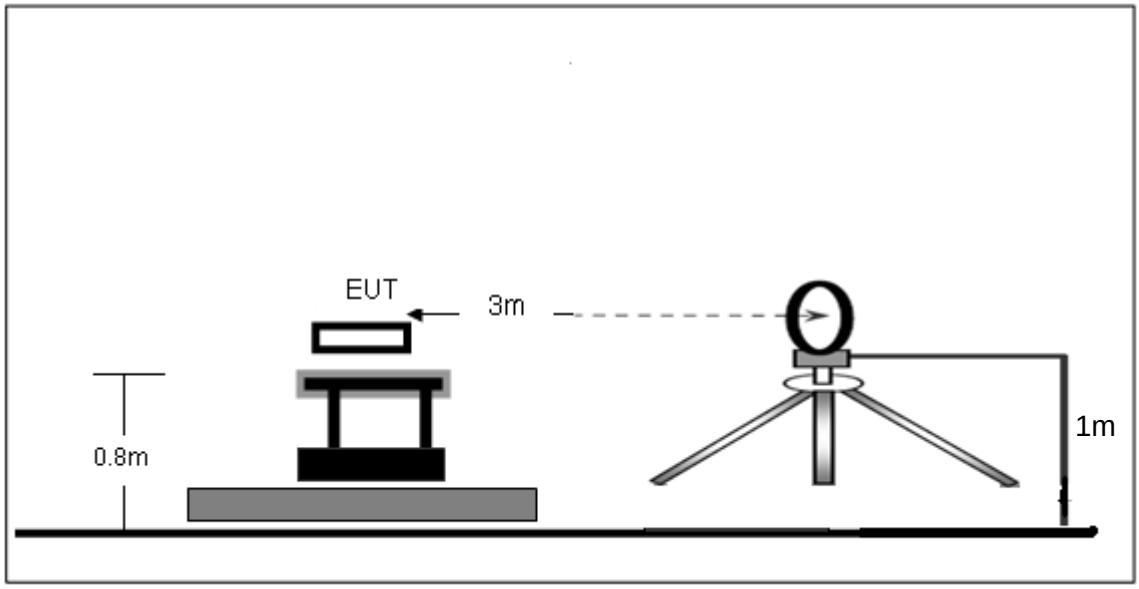
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.3.2 Test Procedures

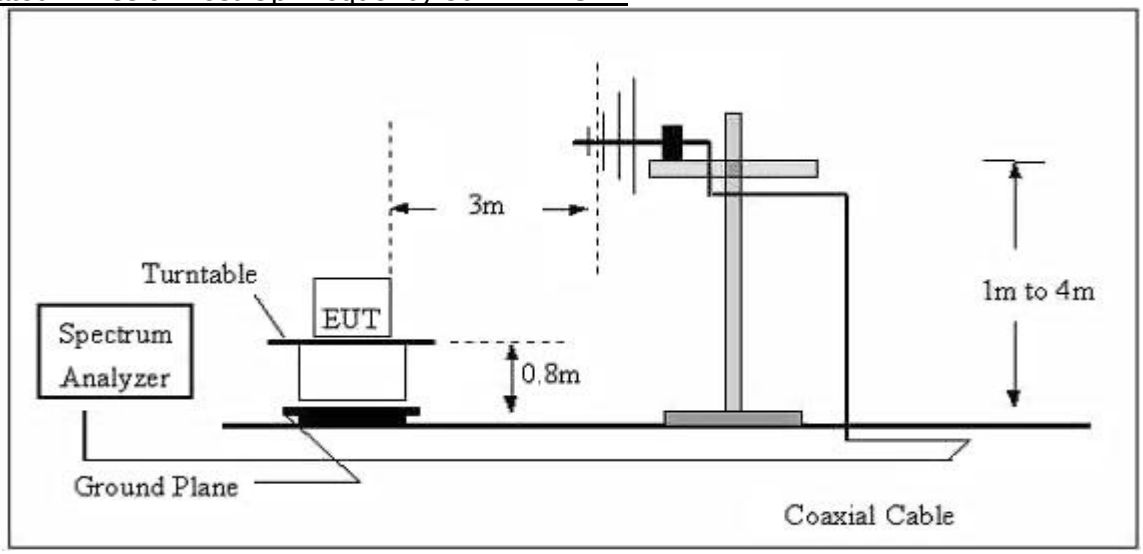
a) The radiated emission tests were performed in the 3 meters.
b) The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
c) The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d) If the peak mode measured value compliance with and lower than quasi peak mode limit, the EUT shall be deemed to meet QP limits and then no additional QP mode measurement performed.
e) If the peak mode measured value compliance with and lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.
f) For the actual test configuration, please refer to the related item – EUT test photos.

5.3.3 Test Setup

Radiated Emission Test-Up Frequency Below 30MHz



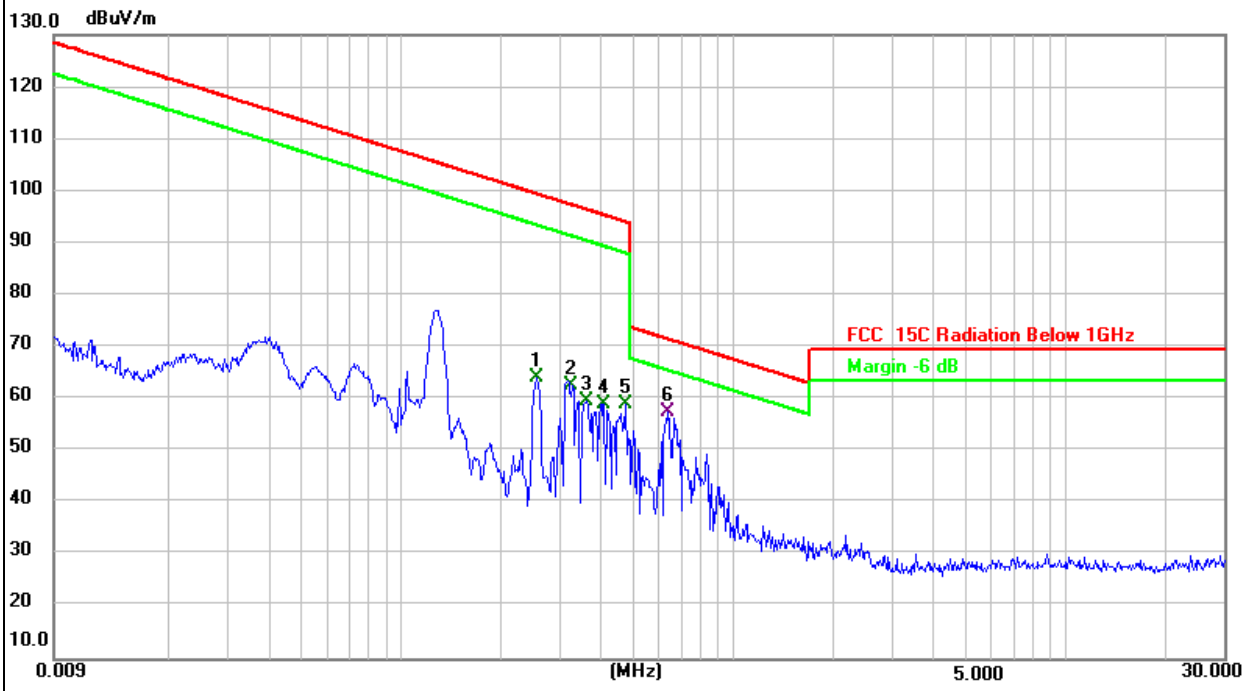
Radiated Emission Test-Up Frequency 30MHz~1GHz



5.3.4 Test Result

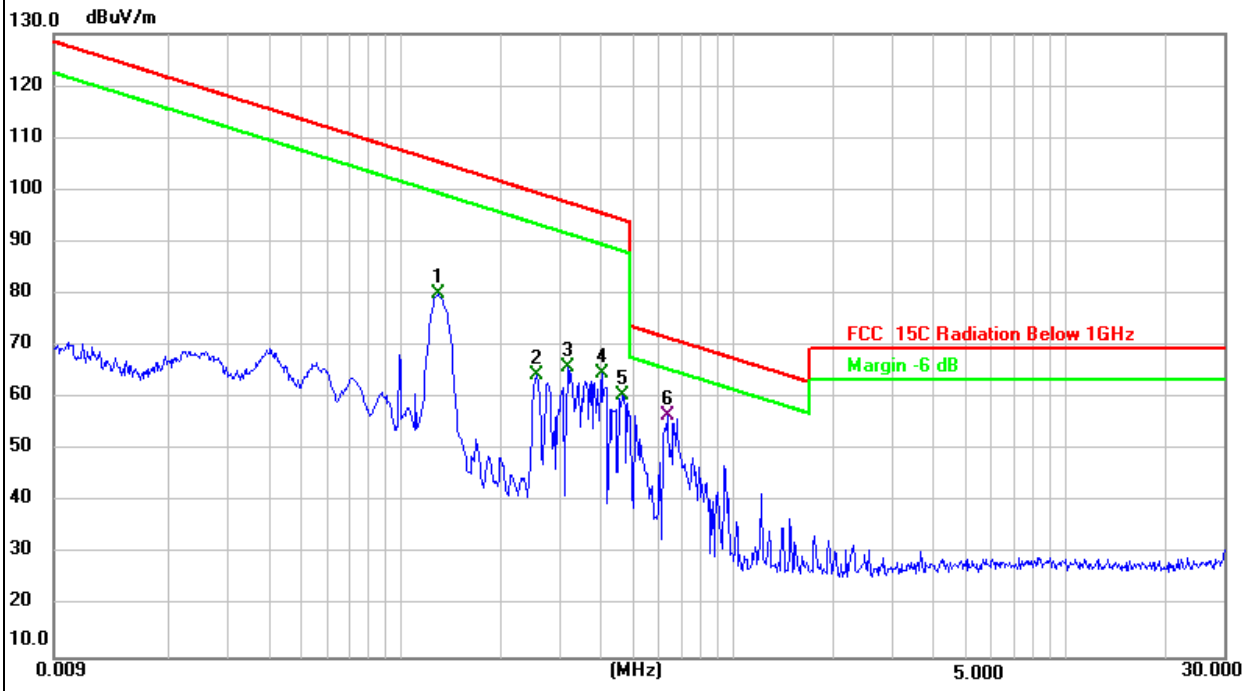
Frequency range (9kHz – 30MHz)

EUT:	PADFOLIO	Model Name:	PF88
Test Mode:	Mode 7	Phase:	Coaxial
Test Voltage:	DC 12V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.2545	43.63	20.51	64.14	99.50	-35.36	AVG
2	0.3265	42.28	20.49	62.77	97.33	-34.56	AVG
3	0.3607	39.31	20.47	59.78	96.47	-36.69	AVG
4	0.4074	38.56	20.46	59.02	95.41	-36.39	AVG
5	0.4753	38.61	20.45	59.06	94.07	-35.01	AVG
6 *	0.6363	36.95	20.48	57.43	71.54	-14.11	QP

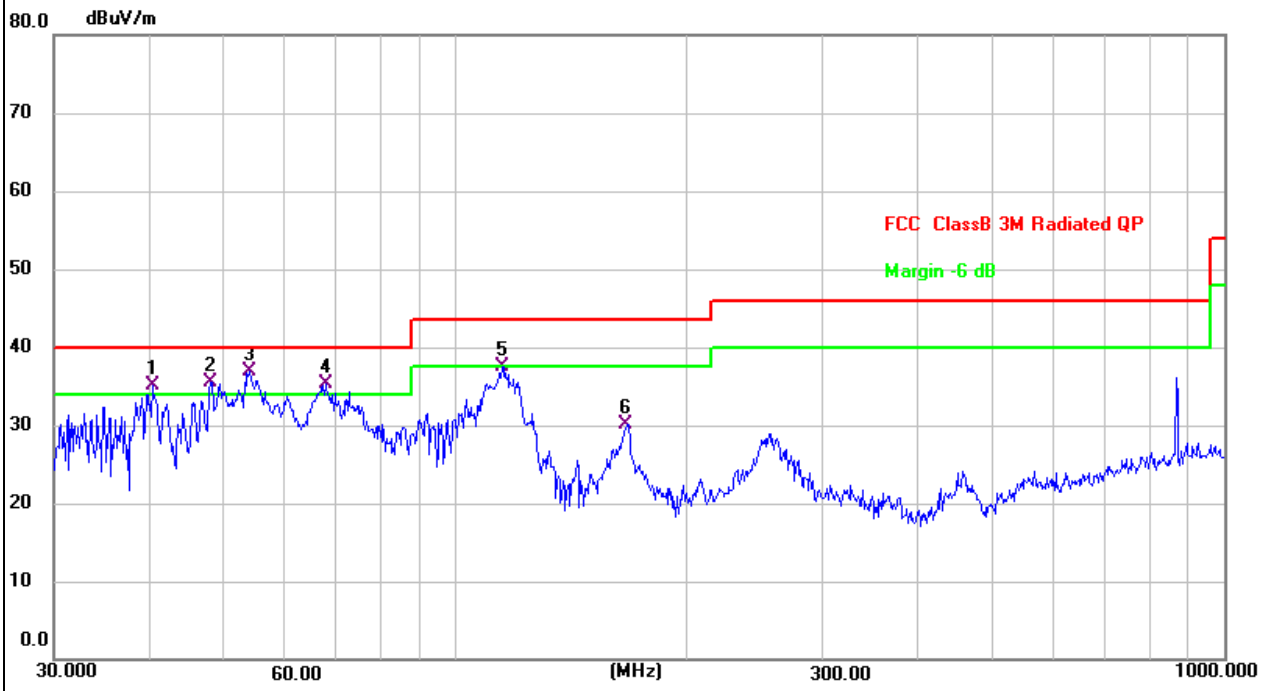
EUT:	PADFOLIO	Model Name:	PF88
Test Mode:	Mode 4	Phase:	Coaxial
Test Voltage:	DC 3.7V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1298	59.61	20.34	79.95	105.36	-25.41	AVG
2	0.2545	43.84	20.51	64.35	99.50	-35.15	AVG
3	0.3168	45.43	20.49	65.92	97.60	-31.68	AVG
4	0.4008	44.17	20.46	64.63	95.55	-30.92	AVG
5	0.4638	40.04	20.45	60.49	94.28	-33.79	AVG
6 *	0.6313	36.18	20.48	56.66	71.61	-14.95	QP

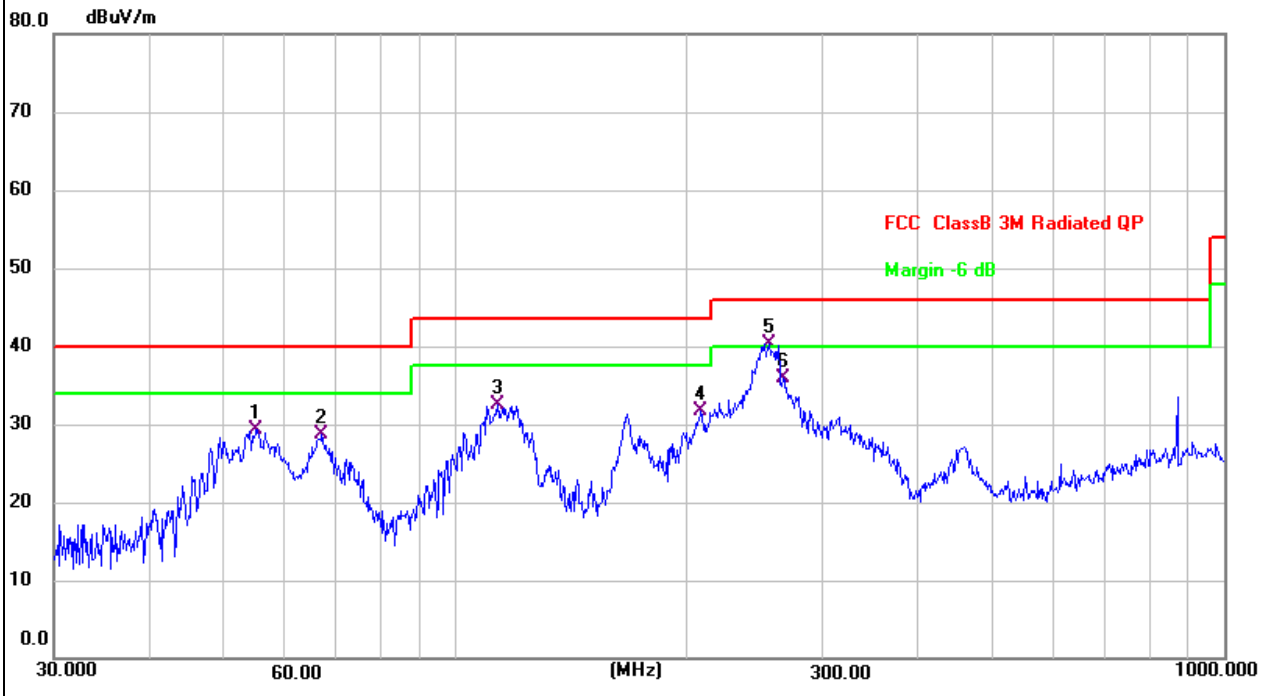
Frequency range (30MHz – 1GHz)

EUT:	PADFOLIO	Model Name:	PF88
Test Mode:	Mode 7	Phase:	Vertical
Test Voltage:	DC 12V from adapter AC 120V/60Hz		



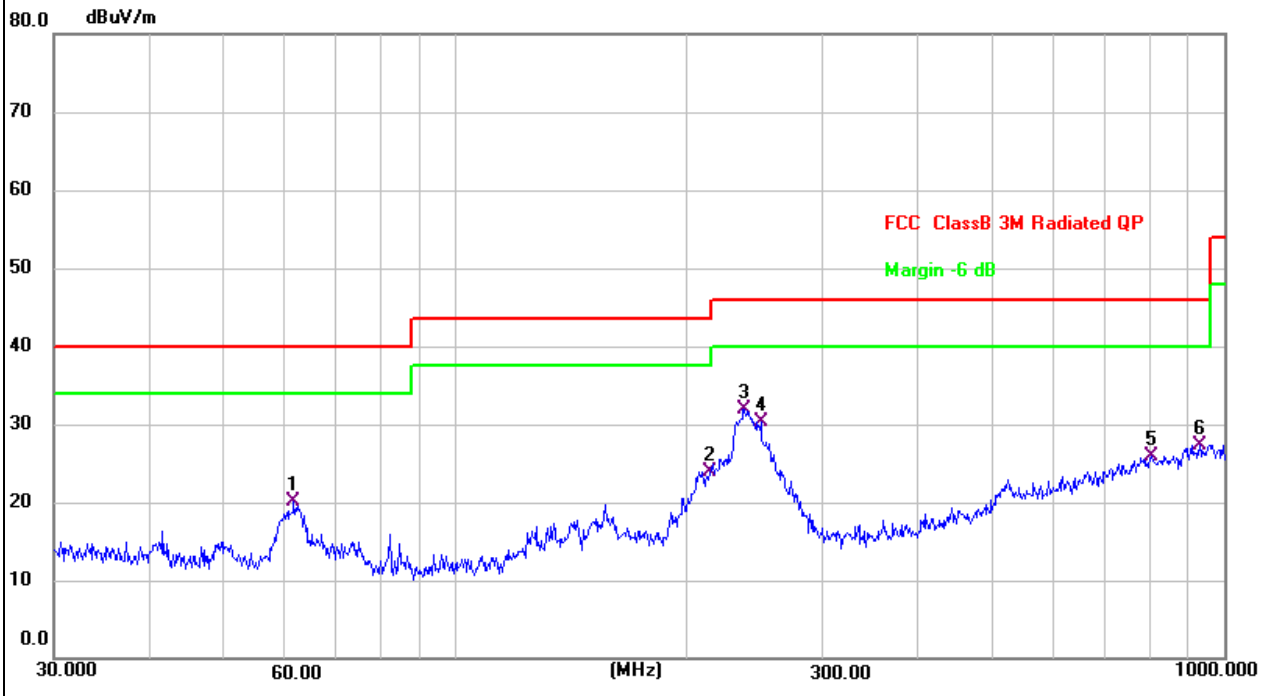
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	40.2756	50.02	-14.91	35.11	40.00	-4.89	QP
2 !	47.9940	50.90	-15.31	35.59	40.00	-4.41	QP
3 *	53.8817	51.96	-15.08	36.88	40.00	-3.12	QP
4 !	67.6751	52.15	-16.77	35.38	40.00	-4.62	QP
5	114.9168	54.48	-17.01	37.47	43.50	-6.03	QP
6	167.2366	44.83	-14.79	30.04	43.50	-13.46	QP

EUT:	PADFOLIO	Model Name:	PF88
Test Mode:	Mode 7	Phase:	Horizontal
Test Voltage:	DC 12V from adapter AC 120V/60Hz		



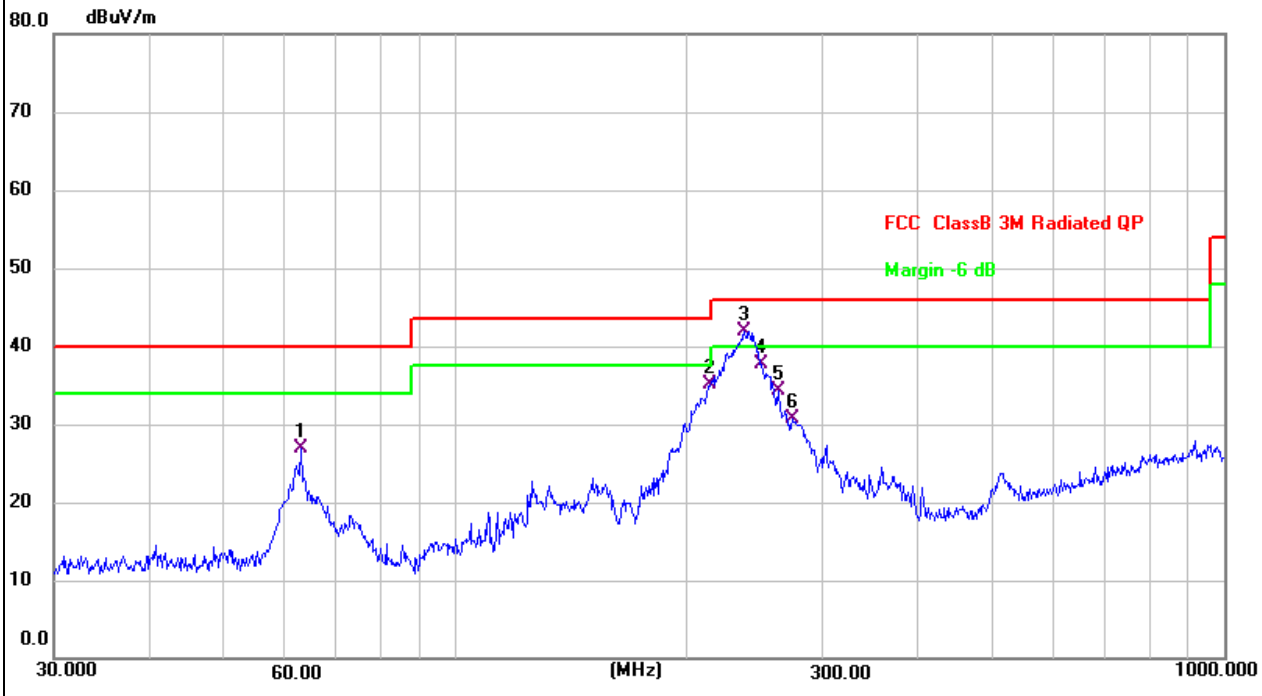
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	55.0274	44.81	-15.45	29.36	40.00	-10.64	QP
2	66.9669	45.54	-16.78	28.76	40.00	-11.24	QP
3	113.3163	49.58	-17.00	32.58	43.50	-10.92	QP
4	208.5803	49.47	-17.74	31.73	43.50	-11.77	QP
5 *	255.6231	55.94	-15.68	40.26	46.00	-5.74	QP
6	266.6089	51.33	-15.48	35.85	46.00	-10.15	QP

EUT:	PADFOLIO	Model Name:	PF88
Test Mode:	Mode 4	Phase:	Vertical
Test Voltage:	DC 3.7V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	61.5618	36.35	-16.34	20.01	40.00	-19.99	QP
2	213.7634	41.18	-17.33	23.85	43.50	-19.65	QP
3 *	237.4760	47.96	-16.07	31.89	46.00	-14.11	QP
4	249.4250	46.32	-16.04	30.28	46.00	-15.72	QP
5	804.6028	26.83	-0.88	25.95	46.00	-20.05	QP
6	929.0082	28.02	-0.63	27.39	46.00	-18.61	QP

EUT:	PADFOLIO	Model Name:	PF88
Test Mode:	Mode 4	Phase:	Horizontal
Test Voltage:	DC 3.7V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	62.8708	43.27	-16.45	26.82	40.00	-13.18	QP
2	213.7634	52.34	-17.33	35.01	43.50	-8.49	QP
3 *	237.4760	58.05	-16.07	41.98	46.00	-4.02	QP
4	250.3012	53.83	-16.03	37.80	46.00	-8.20	QP
5	262.8955	49.92	-15.60	34.32	46.00	-11.68	QP
6	274.1939	45.86	-15.24	30.62	46.00	-15.38	QP

5.4 Occupied Bandwidth

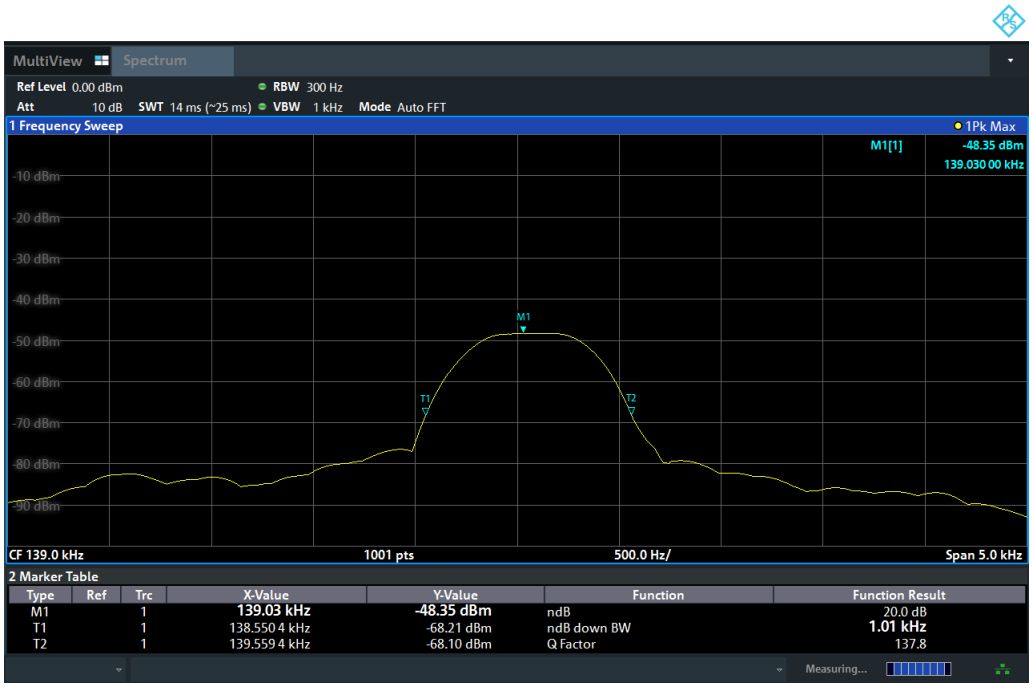
5.4.1 Test method

Use the following spectrum analyzer settings:
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW ≥1% to 5% of the OBW
VBW ≥3*RBW
Sweep = auto
Detector function = peak
Trace = max hold
The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth and 99% occupied bandwidth of the emission.
Because the measured signal is CW-like, adjusting the RBW per ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

5.4.2 Test result

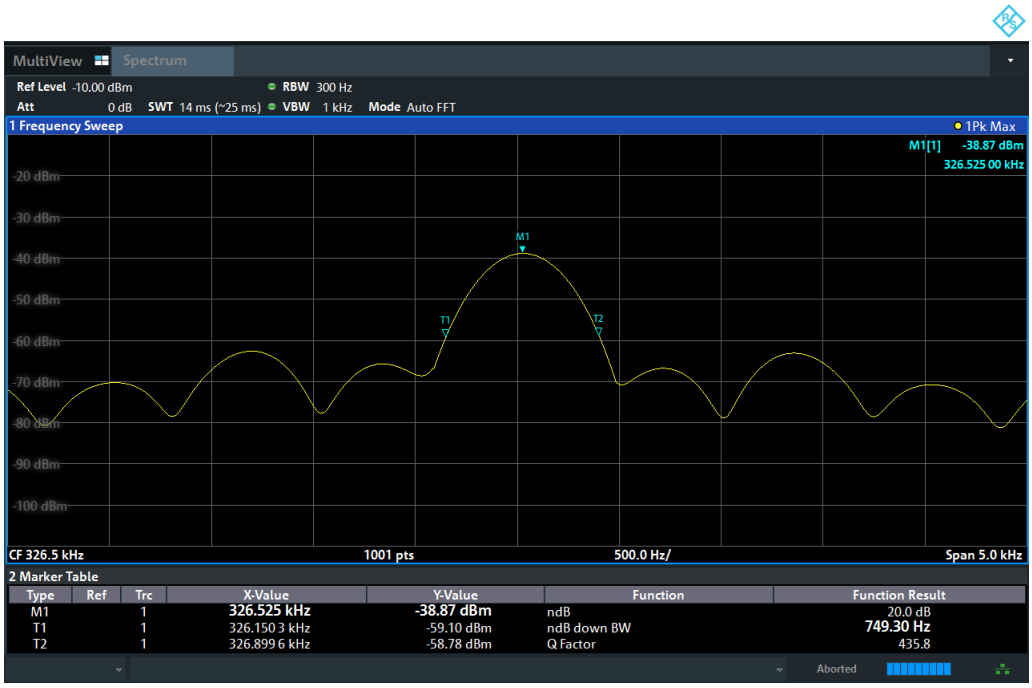
Frequency (kHz)	20dB emission bandwidth (Hz)
139	1010

Test plots as below:

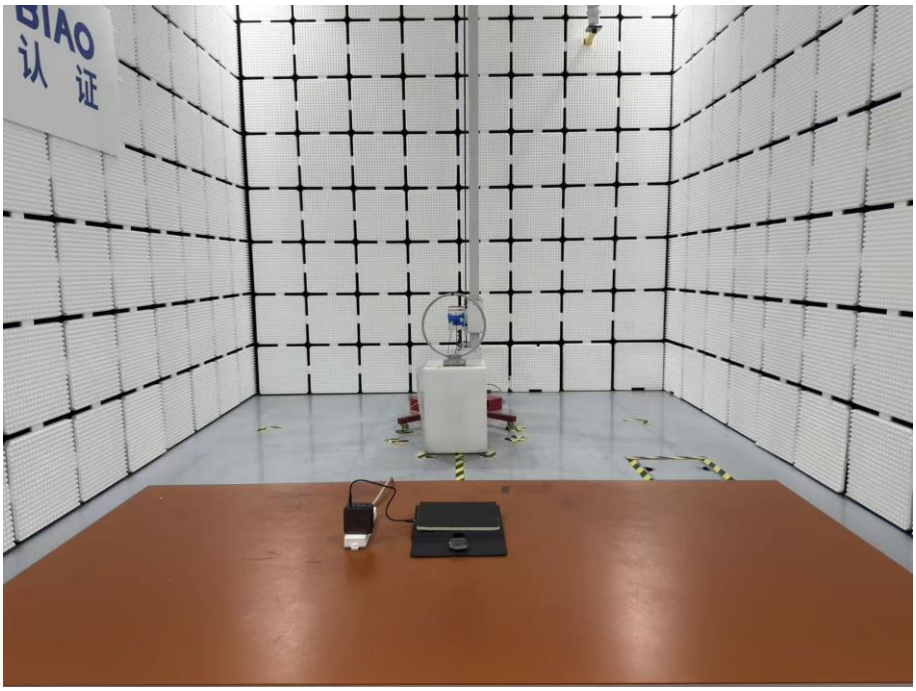
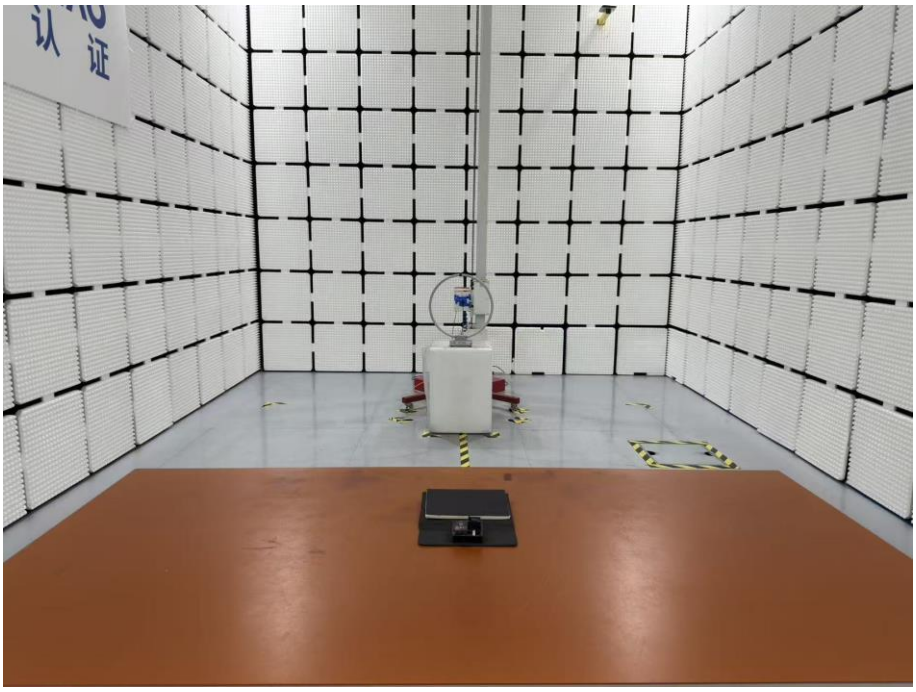


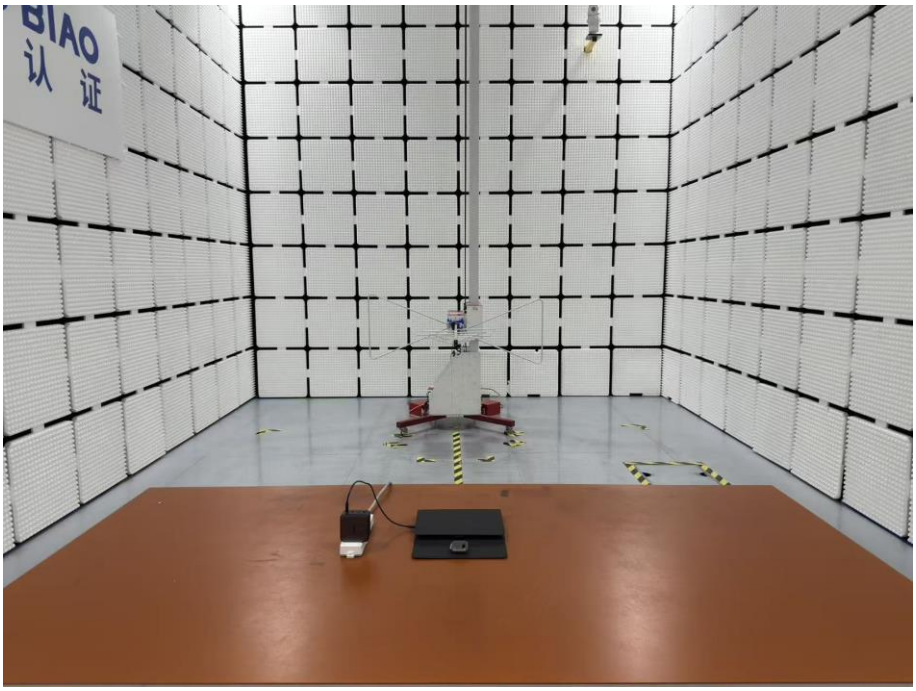
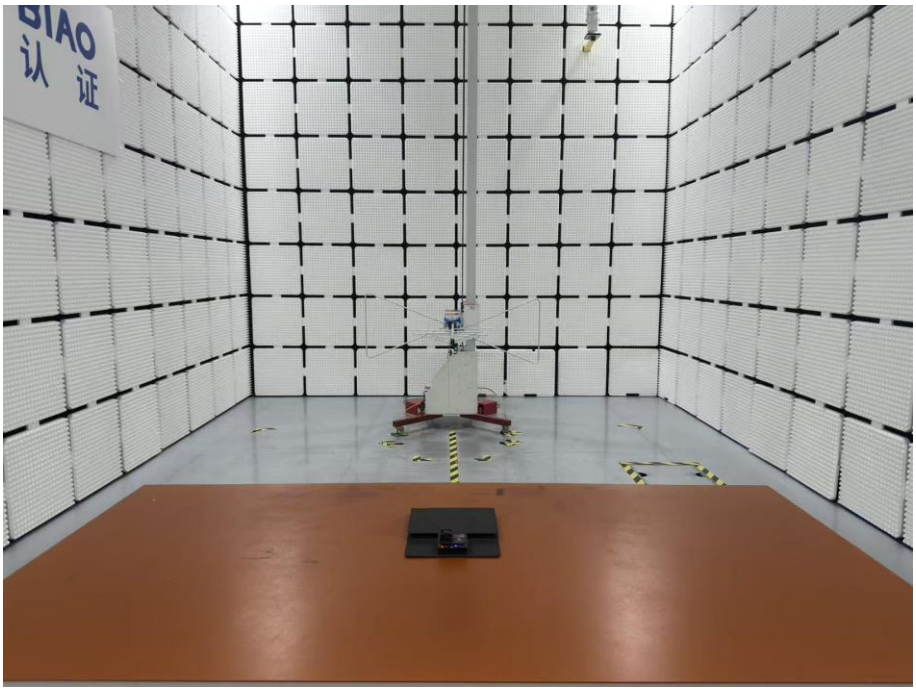
Frequency (kHz)	20dB emission bandwidth (Hz)
326.5	749.30

Test plots as below:



6 Photographs of the Test Setup

Radiated Emission Below 30MHz



Radiated Emission Above 30MHz



Conducted emission

7 Photographs of the EUT

Photo 1

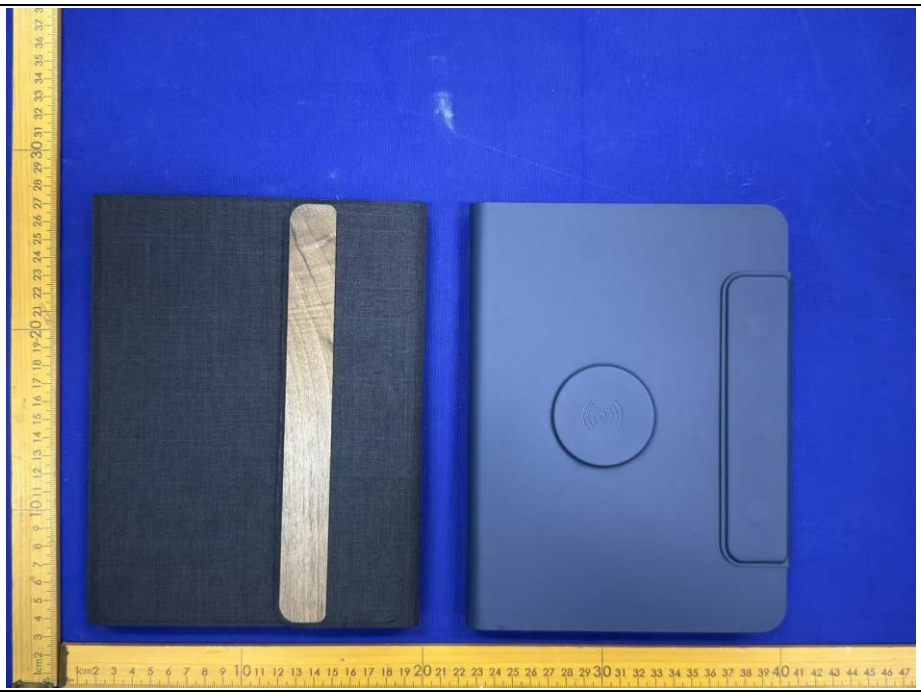



Photo 2

Photo 3

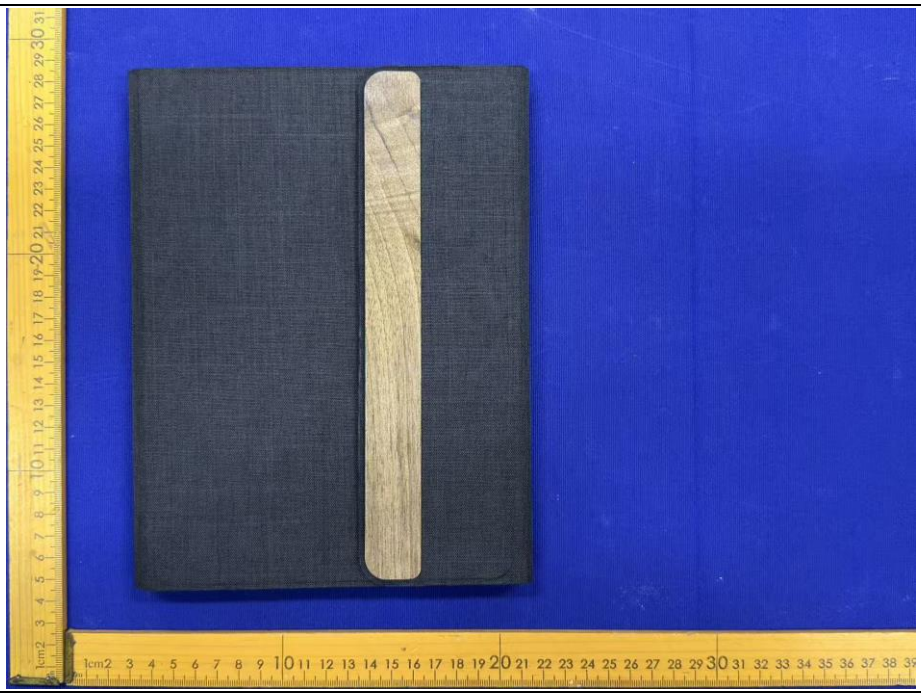


Photo 4

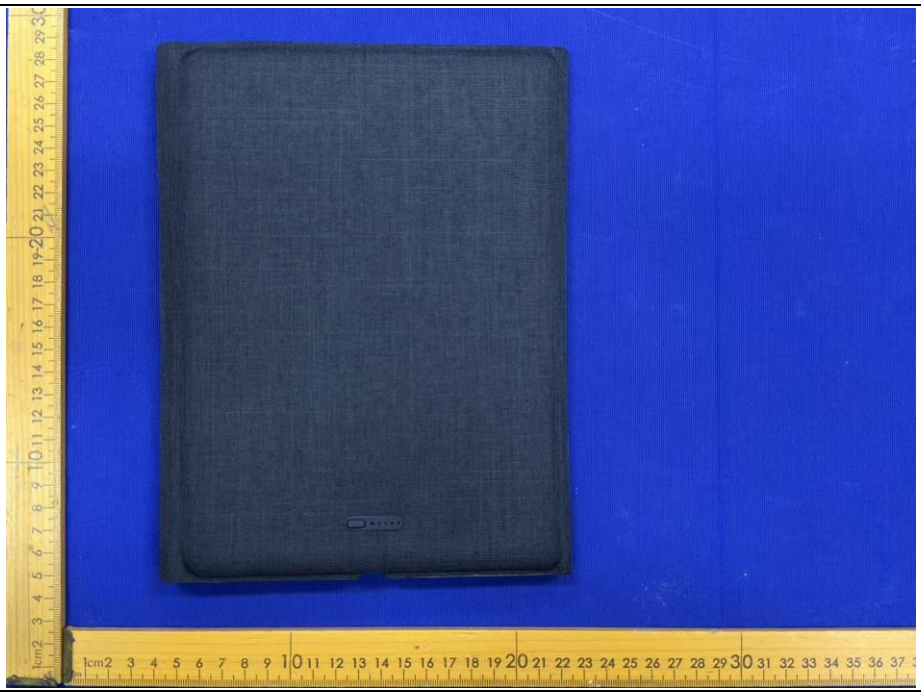


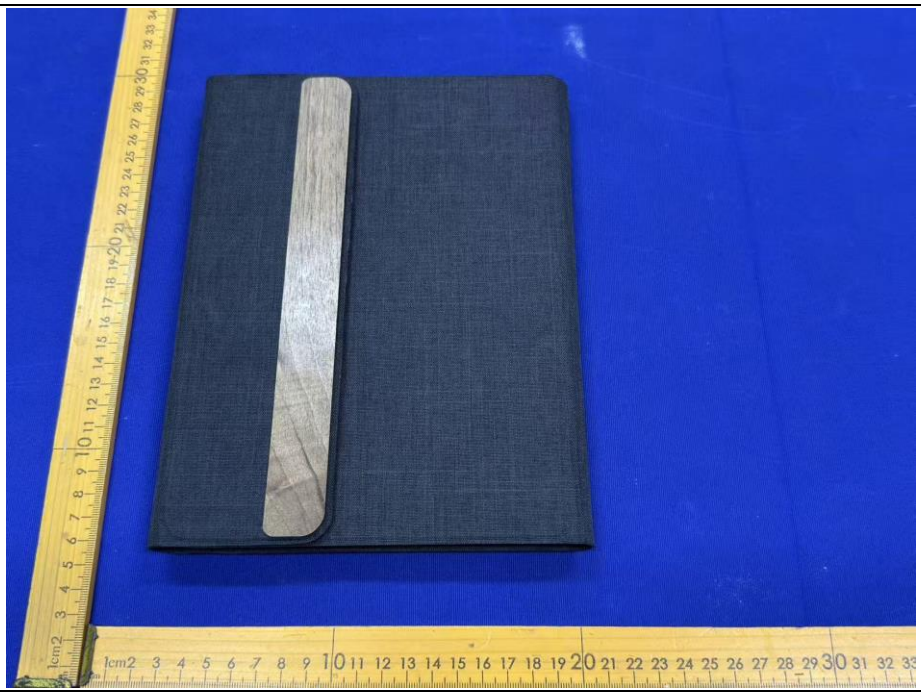
Photo 5
Photo 6


Photo 7

Photo 8

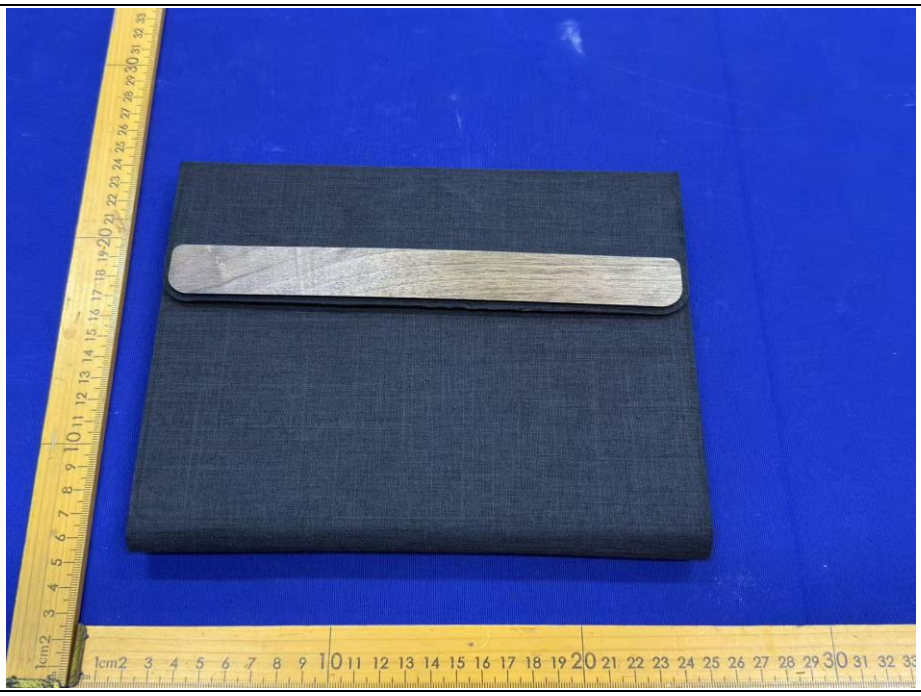


Photo 9

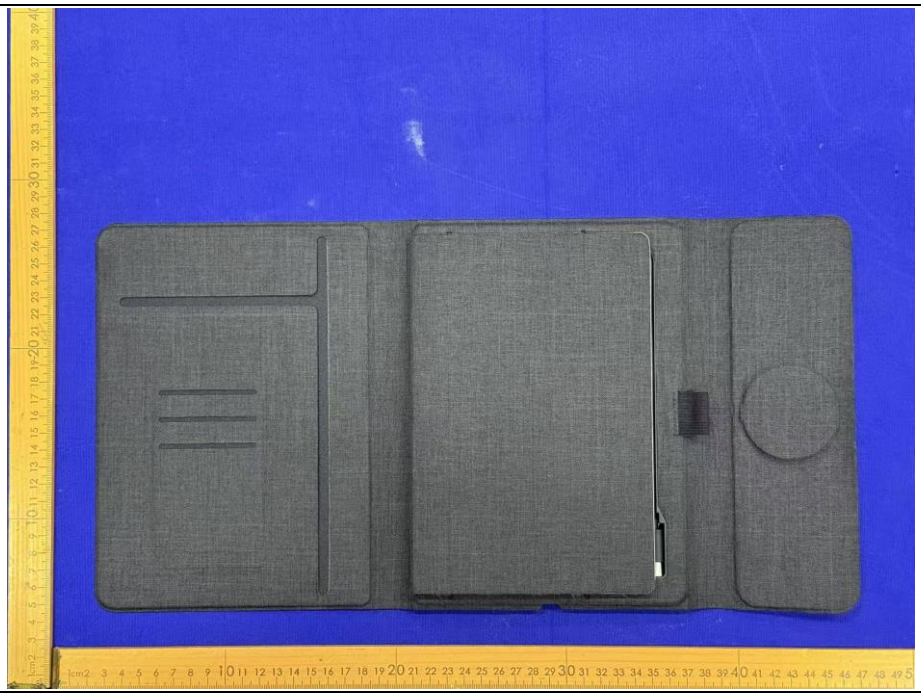


Photo 10

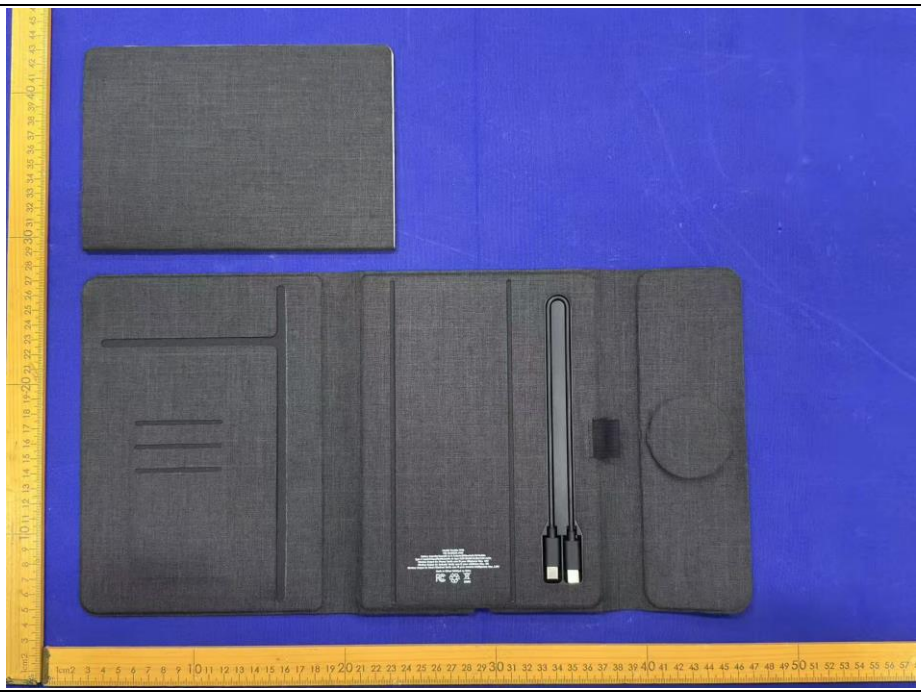


Photo 11

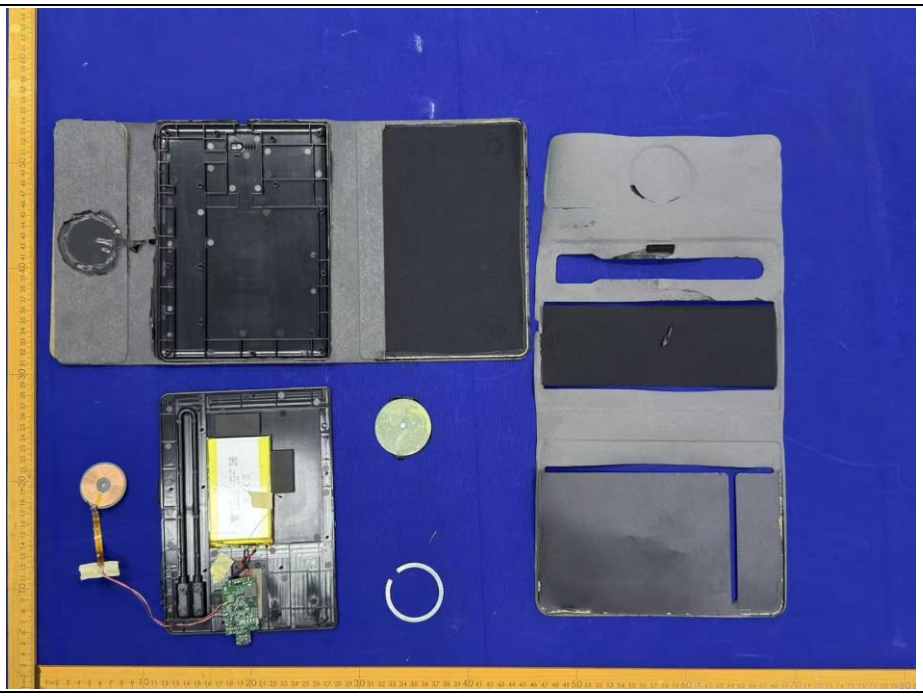


Photo 12

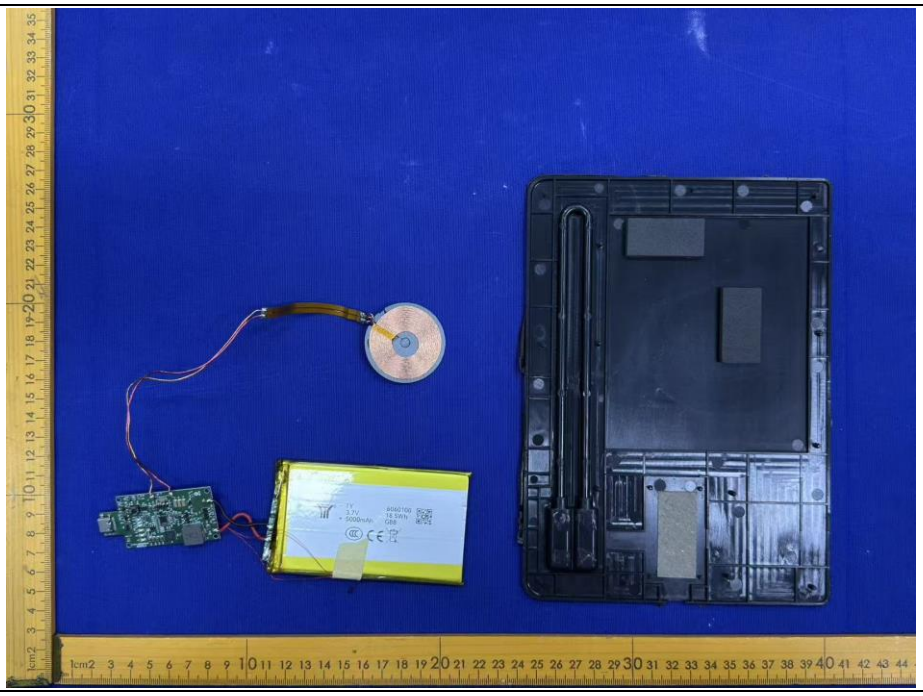


Photo 13

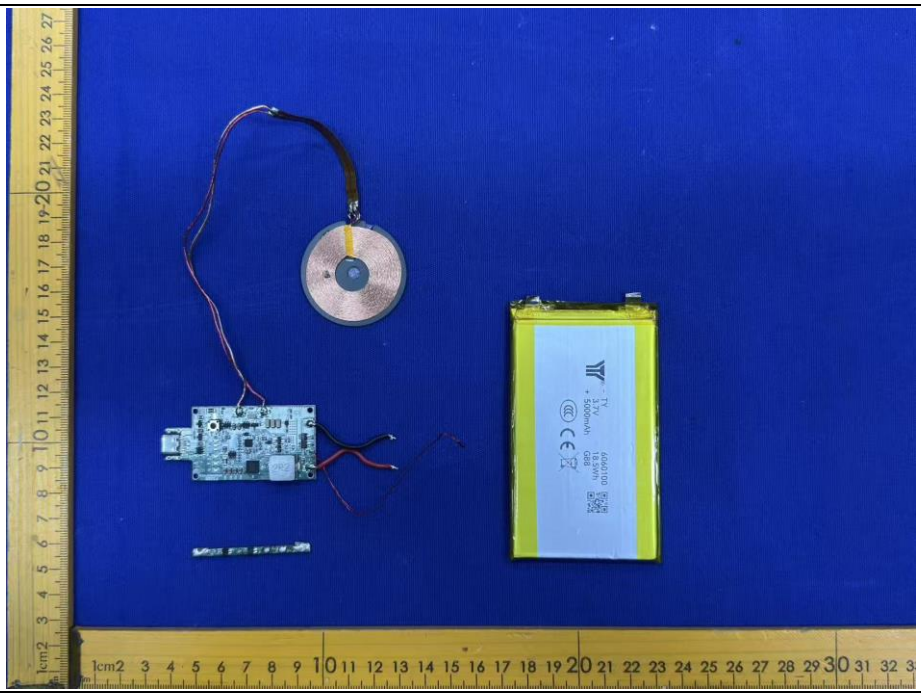


Photo 14

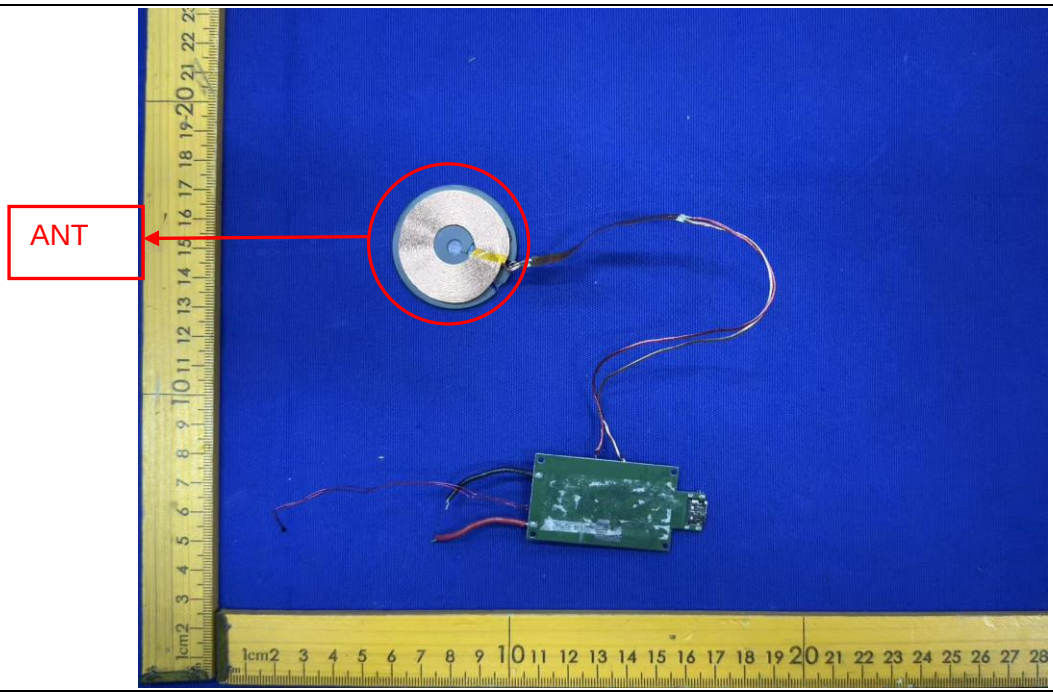


Photo 15

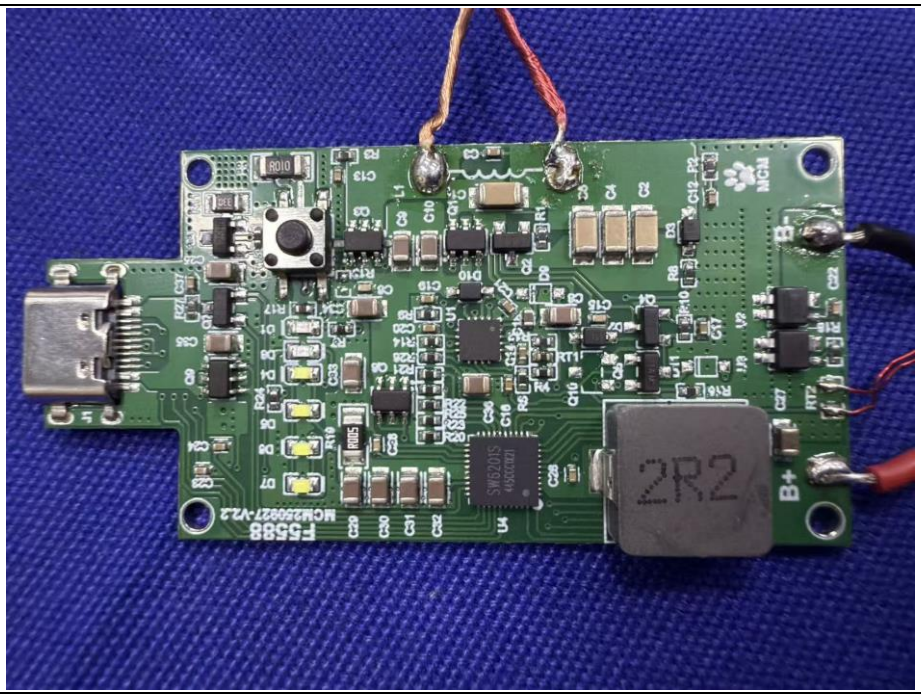



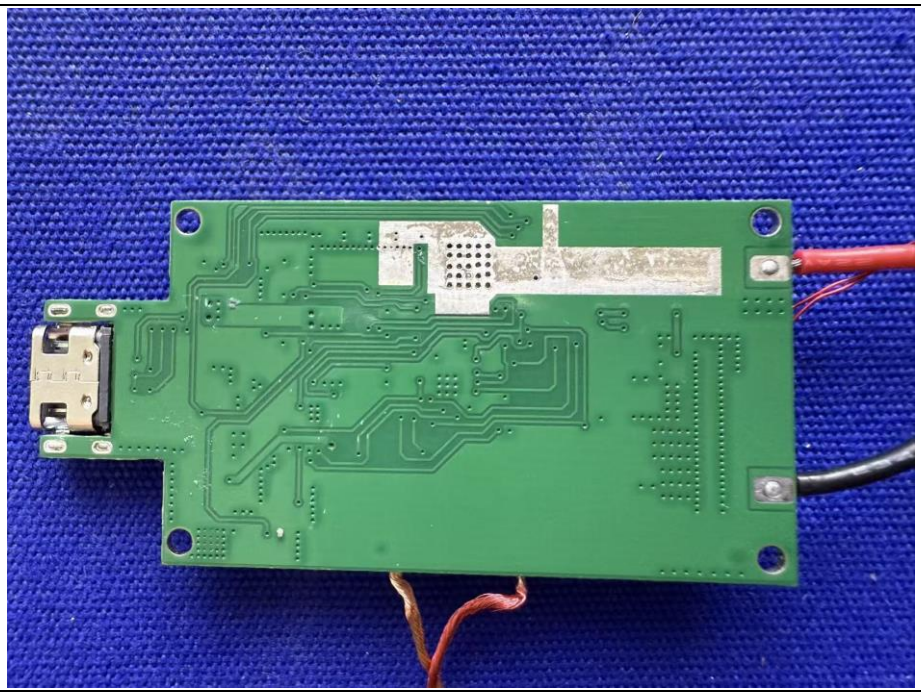
Photo 16


Photo 17

Photo 18

Photo 19

******** END OF REPORT ********