TCT 通测检测 TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. ..... :	2BELW-VT106	
Test Report No..... :	TCT240108E059	
Date of issue..... :	Feb. 01, 2024	
Testing laboratory ..... :	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	Shenzhen Baihang Technology Co., Ltd	
Address..... :	Rentian community, Fuhai Street, 8#2303 zhongliangfenghuangli Huayuan, Shenzhen, Guangdong, 518103 China	
Manufacturer's name ... :	Dong guan Utopia-Originality Technology co., Ltd	
Address..... :	NO.2, moushan Road, Chan'an Town, Dongguan City, Guangdong Province, China	
Standard(s) ..... :	FCC CFR Title 47 Part 15 Subpart C	
Product Name..... :	Power Bank	
Trade Mark ..... :	veektomx	
Model/Type reference..... :	VT106C, VT106L	
Rating(s)..... :	Rechargeable Li-ion Battery DC 3.7V	
Date of receipt of test item ..... :	Jan. 08, 2024	
Date (s) of performance of test..... :	Jan. 08, 2024 ~ Feb. 01, 2024	
Tested by (+signature) ... :	Brews XU	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

General disclaimer:

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Table of Contents

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

1. General Product Information

1.1. EUT description

Product Name.....:	Power Bank
Model/Type reference.....:	VT106C
Sample Number.....:	TCT240108E059-0101
Operation Frequency.....:	321.8KHz
Output power.....:	2.5W
Modulation Technology.....:	Load modulation
Antenna Type.....:	Inductive loop coil Antenna
Rating(s).....:	Rechargeable Li-ion Battery DC 3.7V

1.2. Model(s) list

No.	Model No.	Tested with
1	VT106C	☒
Other models	VT106L	☐
Note: VT106C is tested model, VT106C and VT106L are identical in circuit and PCB layout, only the output port and output power of the cable are different. So the test data of VT106C can represent the remaining models.		

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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Spurious Emission	§15.209(a)(f)	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

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3. General Information

3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	23.5 °C	24.2 °C
Humidity:	52 % RH	51 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Mode:		
AC mode	Type-C Input + wireless discharging (battery status>95%)	
	Type-C Input + wireless discharging (battery status<50%)	
	Type-C Input + wireless discharging (battery status<1%)	
Internal Battery Mode	Wireless charging (battery status>95%)	
	Wireless charging (battery status<50%)	
	Wireless charging (battery status<1%)	
The sample was placed 0.8m for the measurement below 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages.		

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3.2. Description of Support Units

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

Equipment	Model No.	Serial No.	Trade Name
Adapter	WC065A11JH	J121083BA1003016	jinhu
Apple Watch	Apple Watch A1757	/	Apple

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

  SHENZHEN TONGCE TESTING LAB

  Designation Number: CN1205

  The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

  SHENZHEN TONGCE TESTING LAB

  CAB identifier: CN0031

  The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

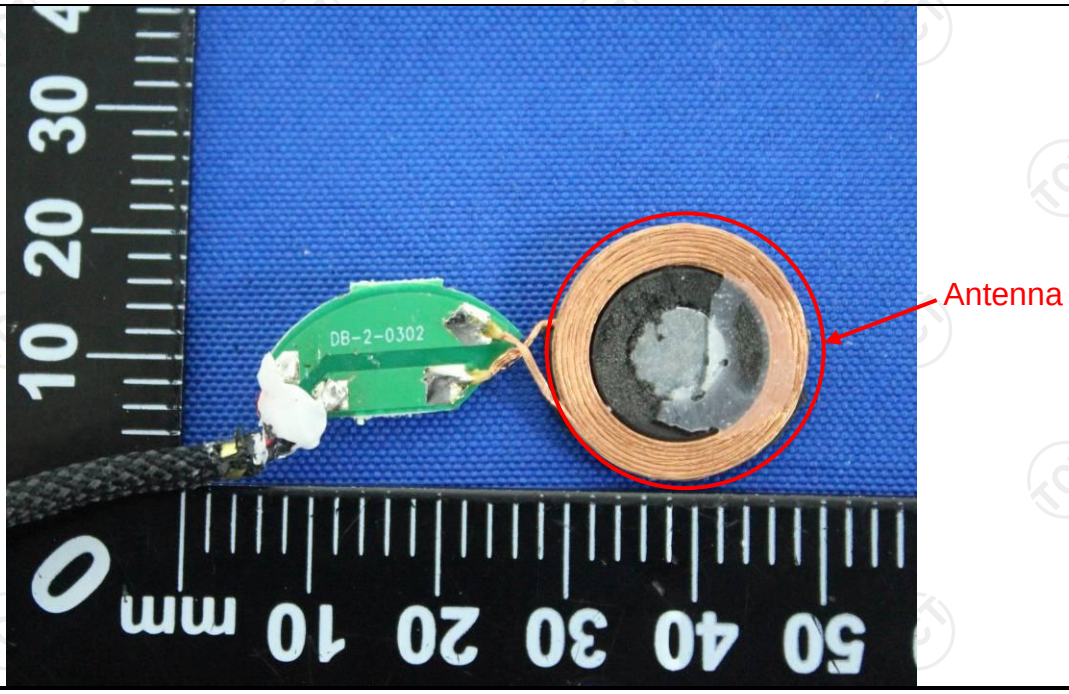
The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

5. Test Results and Measurement Data

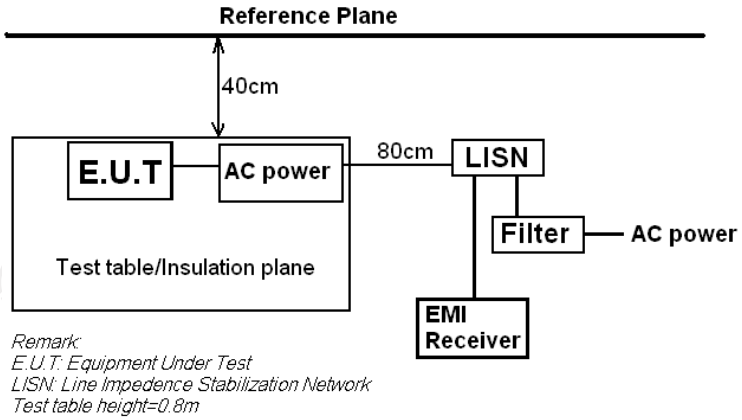
5.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna:	
The antenna is inductive loop coil antenna which permanently attached.	



5.2. Conducted Emission

5.2.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Frequency Range:</td><td>150 kHz to 30 MHz</td></tr>
<tr><td>Receiver setup:</td><td>RBW=9 kHz, VBW=30 kHz, Sweep time=auto</td></tr>
<tr><td>Limits:</td><td>
<table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
</table>
</td></tr>
<tr><td>Test Setup:</td><td> 

Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m</td></tr>
<tr><td>Test Mode:</td><td>AC Mode (The battery of the Apple watch is less than 1%)</td></tr>
<tr><td>Test Procedure:</td><td>1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to on conducted measurement.</td></tr>
<tr><td>Test Result:</td><td>PASS</td></tr>
</table>

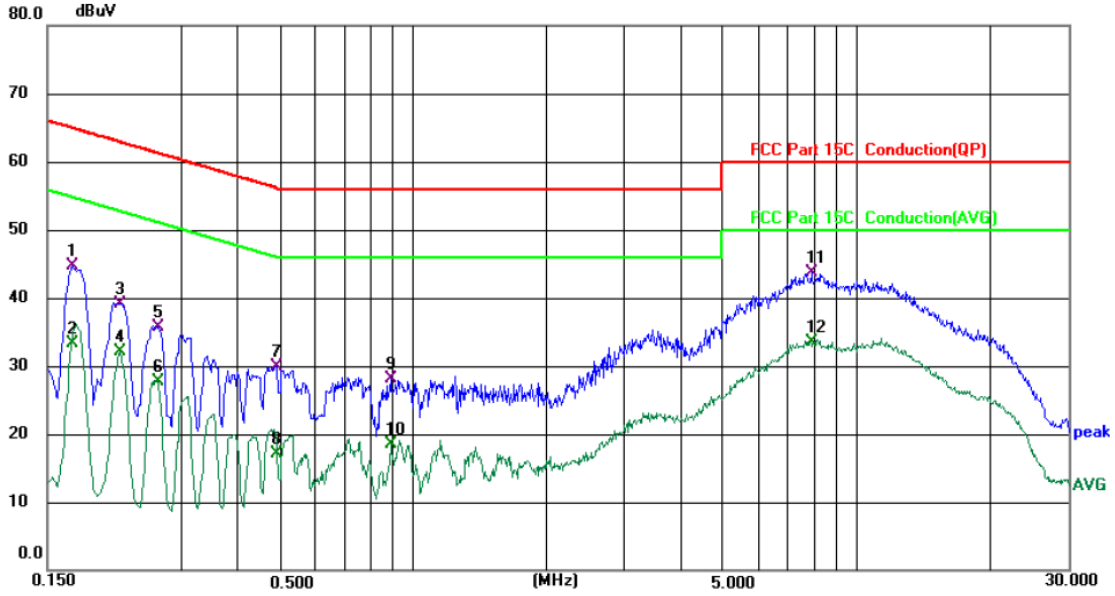
5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
EMI Test Receiver	R&S	ESCI3	100898	Jun. 29, 2024
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 20, 2024
Line-5	TCT	CE-05	/	Jul. 03, 2024
EMI Test Software	Shurple Technology	EZ-EMC	/	/

5.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (9 kHz to 30MHz)



Site 844 Shielding Room
Phase: *L1*
Temperature: 23.5 (℃)
Humidity: 52 %

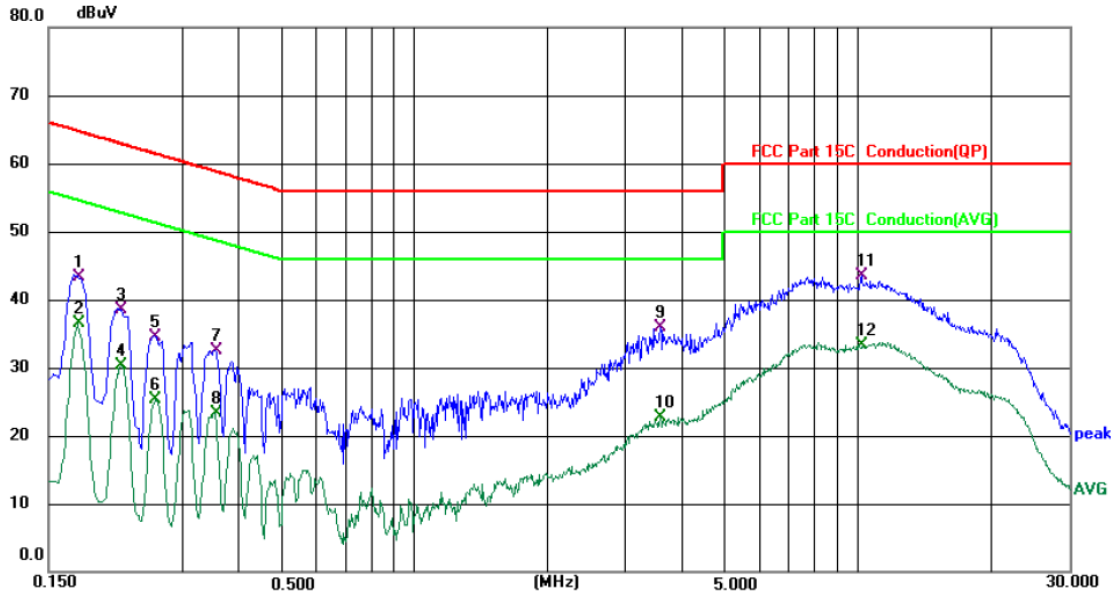
Limit: FCC Part 15C Conduction(QP)
Power: DC 5 V(Adapter Input AC 230 V/50 Hz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1700	34.56	10.11	44.67	64.96	-20.29	QP	
2		0.1700	23.15	10.11	33.26	54.96	-21.70	AVG	
3		0.2179	29.21	9.95	39.16	62.90	-23.74	QP	
4		0.2179	22.21	9.95	32.16	52.90	-20.74	AVG	
5		0.2660	25.76	9.94	35.70	61.24	-25.54	QP	
6		0.2660	17.71	9.94	27.65	51.24	-23.59	AVG	
7		0.4939	20.51	9.47	29.98	56.10	-26.12	QP	
8		0.4939	7.62	9.47	17.09	46.10	-29.01	AVG	
9		0.8940	19.07	9.10	28.17	56.00	-27.83	QP	
10		0.8940	9.32	9.10	18.42	46.00	-27.58	AVG	
11	*	7.9300	33.50	10.16	43.66	60.00	-16.34	QP	
12		7.9300	23.35	10.16	33.51	50.00	-16.49	AVG	

Note:

Freq. = Emission frequency in MHz
Reading level (dBμV) = Receiver reading
Corr. Factor (dB) = LISN factor + Cable loss
Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)
Limit (dBμV) = Limit stated in standard
Margin (dB) = Measurement (dBμV) – Limits (dBμV)
Q.P. =Quasi-Peak
AVG =average
** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz*

Conducted Emission on Neutral Terminal of the power line (9 kHz to 30MHz)



Site 844 Shielding Room Phase: *N* Temperature: 23.5 (℃) Humidity: 52 %

Limit: FCC Part 15C Conduction(QP) Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1739	33.29	10.11	43.40	64.77	-21.37	QP	
2		0.1739	26.30	10.11	36.41	54.77	-18.36	AVG	
3		0.2179	28.47	9.95	38.42	62.90	-24.48	QP	
4		0.2179	20.33	9.95	30.28	52.90	-22.62	AVG	
5		0.2615	24.55	9.94	34.49	61.38	-26.89	QP	
6		0.2615	15.40	9.94	25.34	51.38	-26.04	AVG	
7		0.3539	22.88	9.59	32.47	58.87	-26.40	QP	
8		0.3539	13.63	9.59	23.22	48.87	-25.65	AVG	
9		3.5900	25.82	10.08	35.90	56.00	-20.10	QP	
10		3.5900	12.56	10.08	22.64	46.00	-23.36	AVG	
11	*	10.2059	33.28	10.20	43.48	60.00	-16.52	QP	
12		10.2059	23.01	10.20	33.21	50.00	-16.79	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

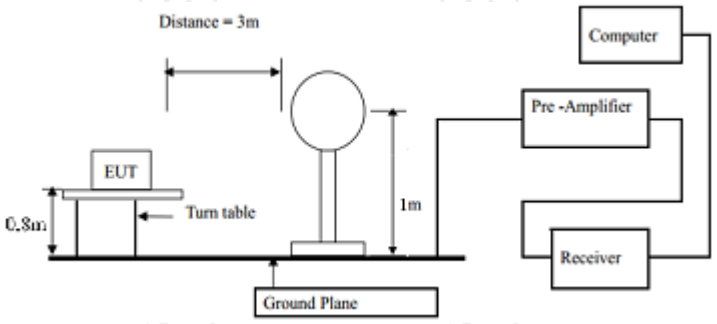
Q.P. =Quasi-Peak

AVG =average

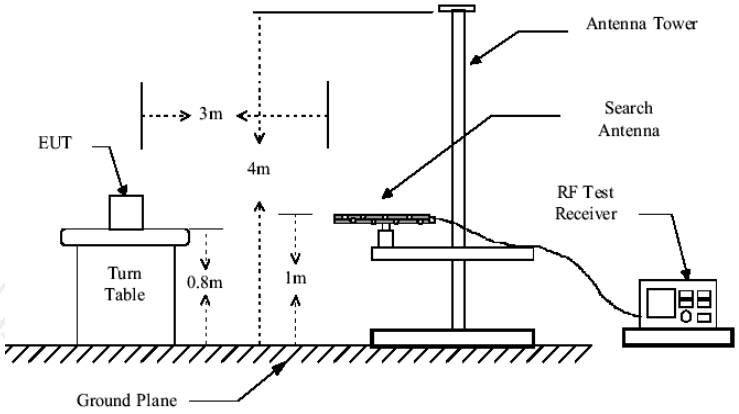
** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.*

5.3. Radiated Spurious Emission Measurement

5.3.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10: 2013</td></tr>
<tr><td>Frequency Range:</td><td>9 kHz to 25 GHz</td></tr>
<tr><td>Measurement Distance:</td><td>3 m</td></tr>
<tr><td>Antenna Polarization:</td><td>Horizontal & Vertical</td></tr>
<tr><td>Operation mode:</td><td>Refer to item 3.1</td></tr>
<tr><td>Receiver Setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr>
<tr><td>9kHz- 150kHz</td><td>Quasi-peak</td><td>200Hz</td><td>1kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>150kHz-30MHz</td><td>Quasi-peak</td><td>9kHz</td><td>30kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td>Frequency</td><td>Field Strength (microvolts/meter)</td><td>Measurement Distance (meters)</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(KHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(KHz)</td><td>30</td></tr>
<tr><td>1.705-30</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100</td><td>3</td></tr>
<tr><td>88-216</td><td>150</td><td>3</td></tr>
<tr><td>216-960</td><td>200</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
</td></tr>
<tr><td>Test setup:</td><td>For radiated emissions below 30MHz
 

30MHz to 1GHz</td></tr>
</table>

	
Test Procedure:	1. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold; For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 3.1 for details
Test results:	PASS

5.3.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
EMI Test Receiver	R&S	ESIB7	100197	Jun. 29, 2024
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 29, 2024
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Feb. 20, 2024
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Feb. 20, 2024
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jul. 02, 2024
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 01, 2024
Antenna Mast	Keleto	RE-AM	/	/
Coaxial cable	SKET	RC-18G-N-M	/	Feb. 24, 2024
Coaxial cable	SKET	RC_40G-K-M	/	Feb. 24, 2024
EMI Test Software	Shurple Technology	EZ-EMC	/	/

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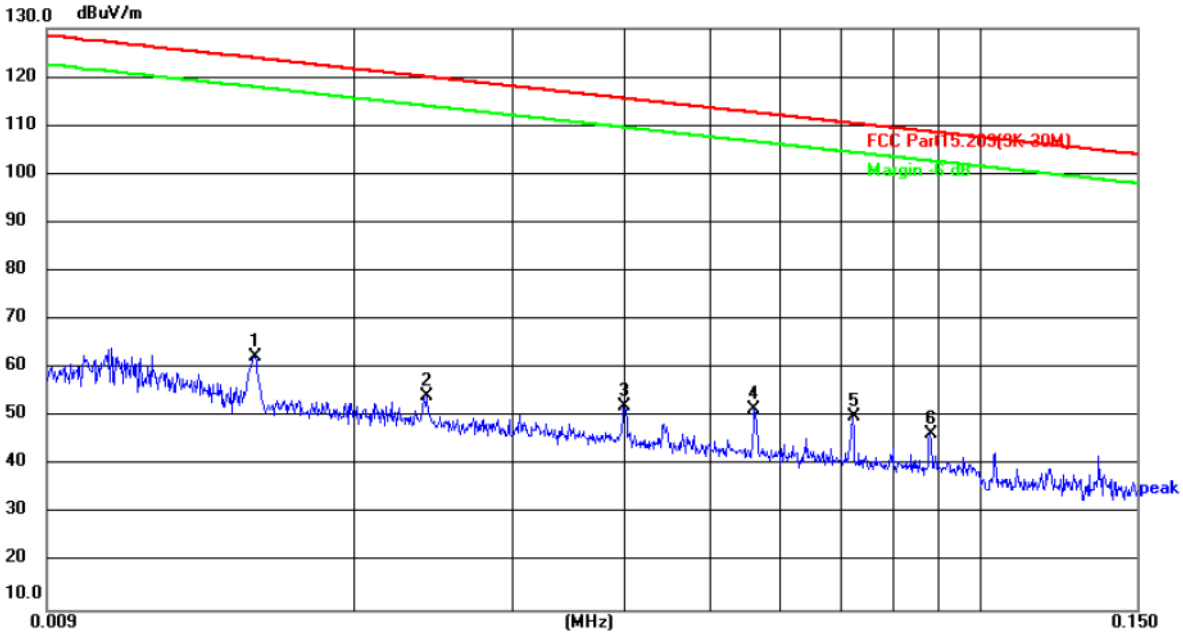
5.3.3. Test Data

Please refer to following diagram for individual

9KHz-30MHz

9KHz-150KHz:

coaxial

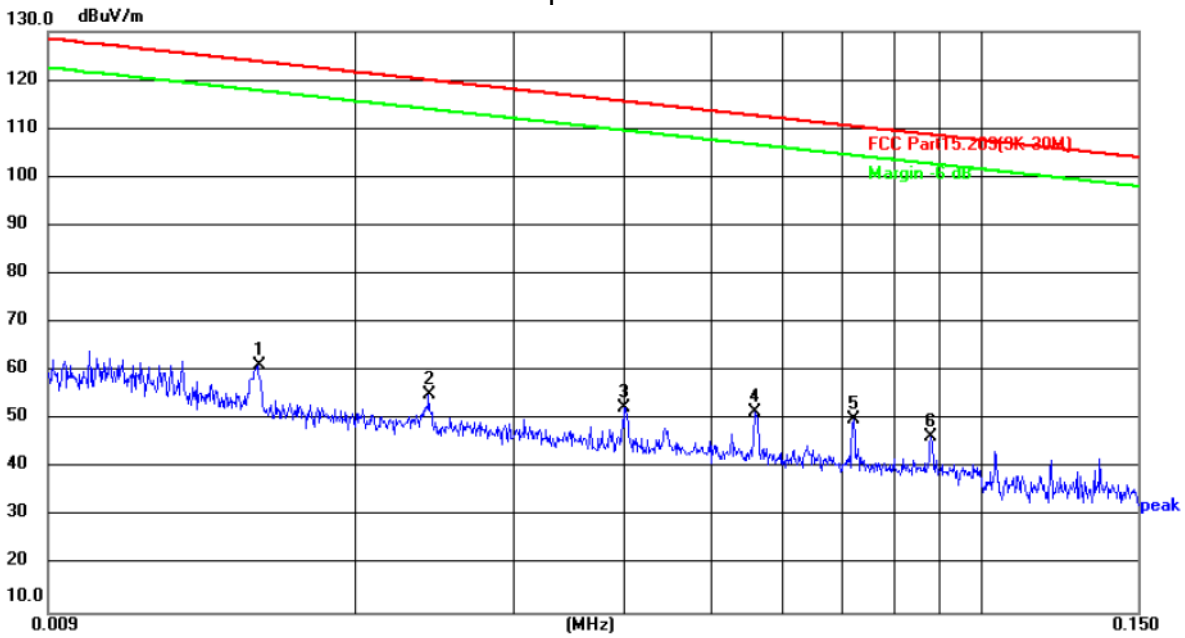


Site: #3 3m Anechoic Chamber Polarization: *Horizontal* Temperature: 24(℃) Humidity: 52 %

Limit: FCC Part15.209(9K-30M) Power:DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.0154	41.72	20.67	62.39	123.85	-61.46	peak	P	
2	0.0240	33.84	20.54	54.38	120.00	-65.62	peak	P	
3	0.0399	31.54	20.54	52.08	115.59	-63.51	peak	P	
4	0.0560	30.66	20.76	51.42	112.64	-61.22	peak	P	
5 *	0.0720	28.91	21.05	49.96	110.46	-60.50	peak	P	
6	0.0880	25.47	21.01	46.48	108.71	-62.23	peak	P	

coplanar



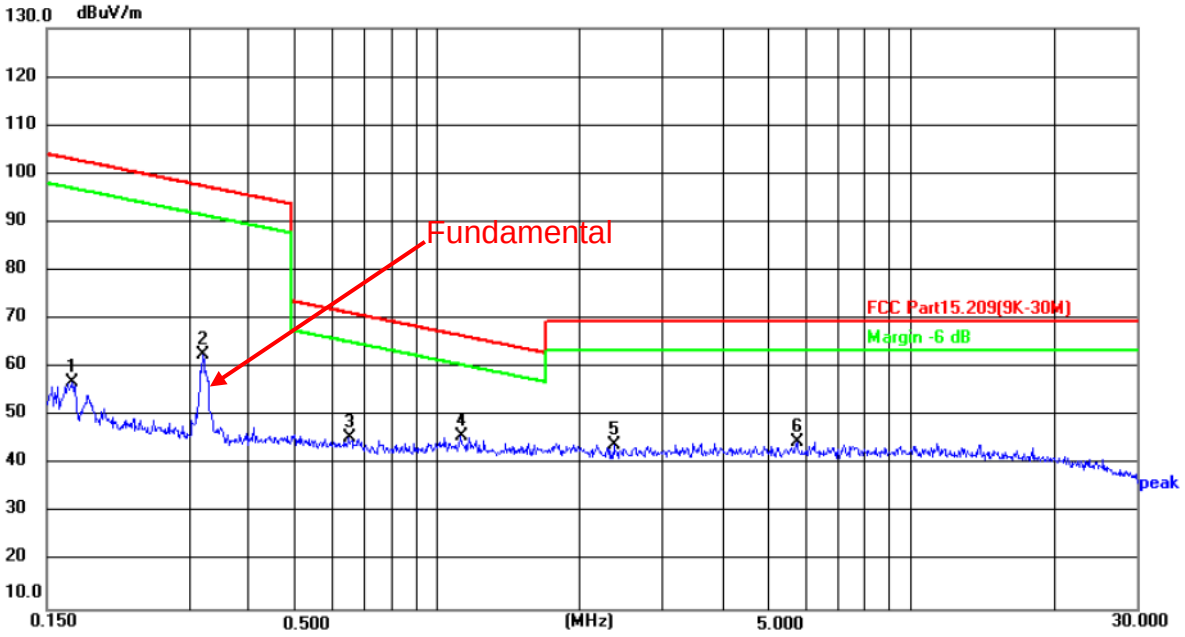
Site: #3 3m Anechoic Chamber Polarization: *Vertical* Temperature: 24(℃) Humidity: 52 %

Limit: FCC Part15.209(9K-30M) Power:DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.0155	40.37	20.67	61.04	123.80	-62.76	peak	P	
2	0.0241	34.59	20.54	55.13	119.96	-64.83	peak	P	
3	0.0399	32.03	20.54	52.57	115.59	-63.02	peak	P	
4	0.0558	30.77	20.76	51.53	112.67	-61.14	peak	P	
5 *	0.0720	29.04	21.05	50.09	110.46	-60.37	peak	P	
6	0.0879	25.47	21.01	46.48	108.72	-62.24	peak	P	

150KHz-30MHz:

coaxial

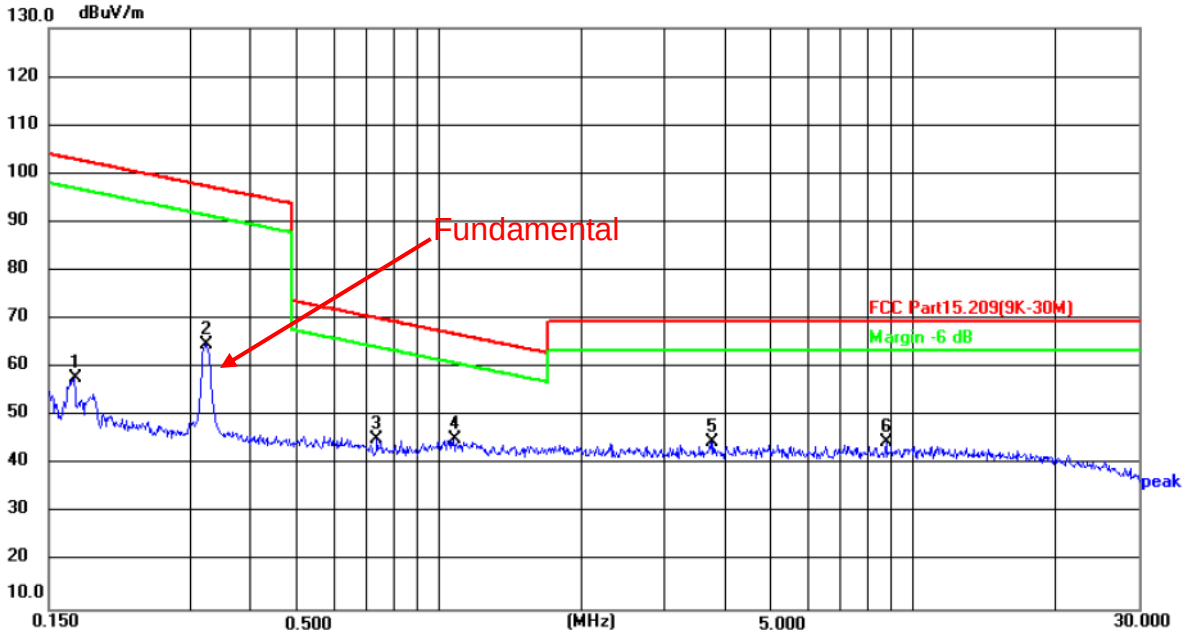


Site: #3 3m Anechoic Chamber Polarization: *Horizontal* Temperature: 24(℃) Humidity: 52 %

Limit: FCC Part15.209(9K-30M) Power:DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.1700	36.29	20.77	57.06	103.00	-45.94	peak	P	
2	0.3215	41.47	21.12	62.59	97.46	-34.87	peak	P	
3	0.6515	23.60	21.88	45.48	71.33	-25.85	peak	P	
4 *	1.1203	22.84	22.91	45.75	66.64	-20.89	peak	P	
5	2.3660	18.70	25.49	44.19	69.50	-25.31	peak	P	
6	5.7437	12.51	32.05	44.56	69.50	-24.94	peak	P	

coplanar



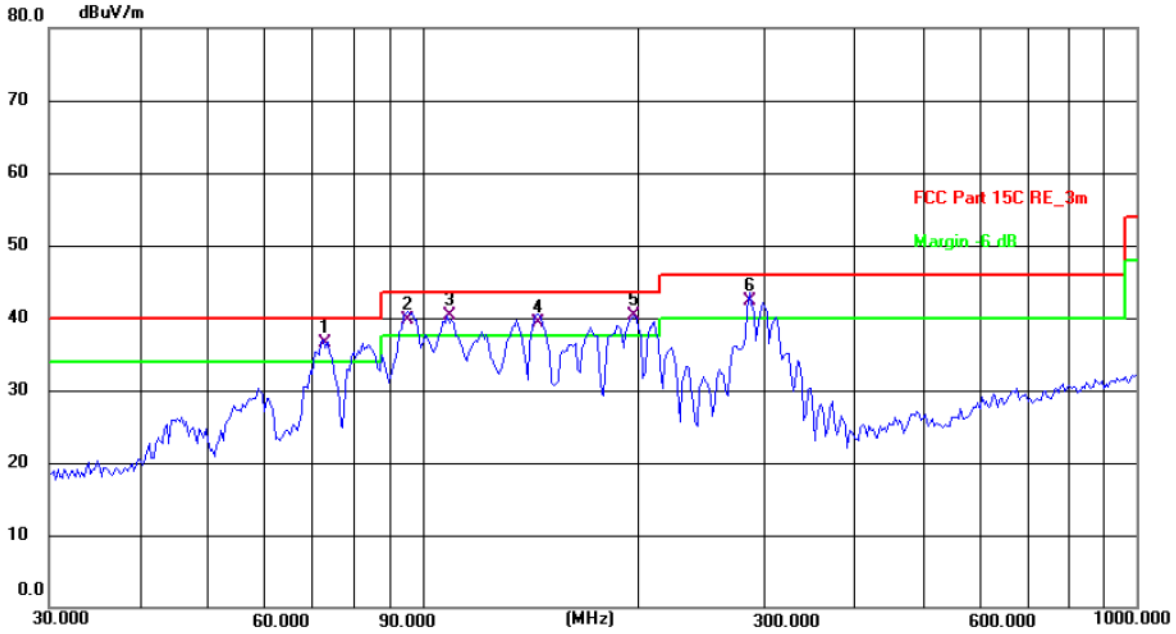
Site: #3 3m Anechoic Chamber Polarization: *Vertical* Temperature: 24(℃) Humidity: 52 %

Limit: FCC Part15.209(9K-30M) Power:DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.1698	37.07	20.77	57.84	103.01	-45.17	peak	P	
2	0.3226	43.70	21.12	64.82	97.43	-32.61	peak	P	
3	0.7426	23.30	22.08	45.38	70.20	-24.82	peak	P	
4 *	1.0721	22.40	22.80	45.20	67.02	-21.82	peak	P	
5	3.7455	16.40	28.24	44.64	69.50	-24.86	peak	P	
6	8.8223	6.51	38.21	44.72	69.50	-24.78	peak	P	

30MHz-1GHz

Horizontal:

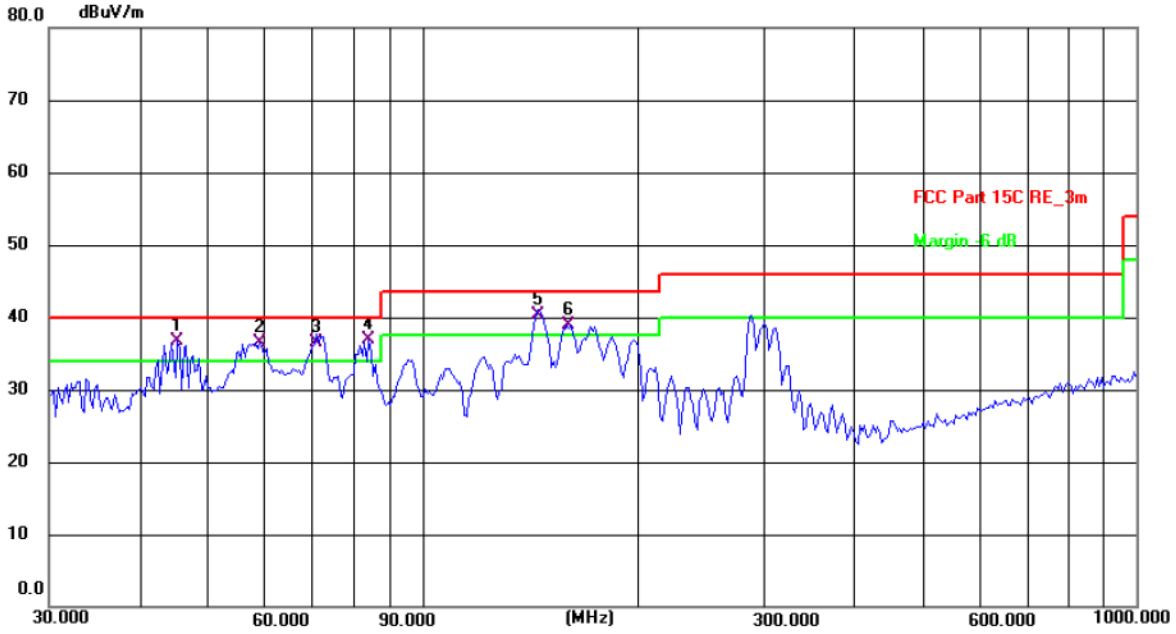


Site: #1 3m Anechoic Chamber Polarization: *Horizontal* Temperature: 24.2(C) Humidity: 51 %

Limit: FCC Part 15C RE_3m Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 !	72.5915	26.07	10.51	36.58	40.00	-3.42	QP	P	
2 !	95.4269	29.36	10.26	39.62	43.50	-3.88	QP	P	
3 !	108.2665	28.94	11.32	40.26	43.50	-3.24	QP	P	
4 !	144.3346	25.16	14.08	39.24	43.50	-4.26	QP	P	
5 *	197.8926	30.10	10.27	40.37	43.50	-3.13	QP	P	
6 !	286.9823	28.78	13.57	42.35	46.00	-3.65	QP	P	

Vertical:



Site: #1 3m Anechoic Chamber Polarization: *Vertical* Temperature: 24.2(C) Humidity: 51 %

Limit: FCC Part 15C RE_3m Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 !	45.3753	22.89	13.79	36.68	40.00	-3.32	QP	P	
2 !	59.2323	23.57	12.98	36.55	40.00	-3.45	QP	P	
3 !	71.0802	25.66	10.79	36.45	40.00	-3.55	QP	P	
4 !	84.1100	27.17	9.64	36.81	40.00	-3.19	QP	P	
5 *	145.3505	26.13	14.19	40.32	43.50	-3.18	QP	P	
6 !	159.2250	24.35	14.50	38.85	43.50	-4.65	QP	P	

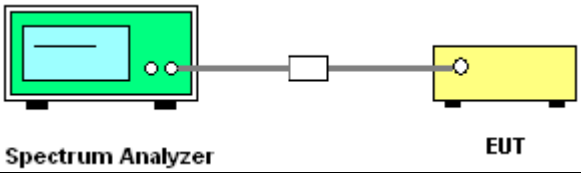
Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

2. Both AC mode and Internal Battery Mode have been tested, only the worse mode (AC mode which is the battery of the Apple watch is less than 1%) reported.

5.4. 20dB Occupy Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	N/A
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤RBW≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
Test Result:	PASS

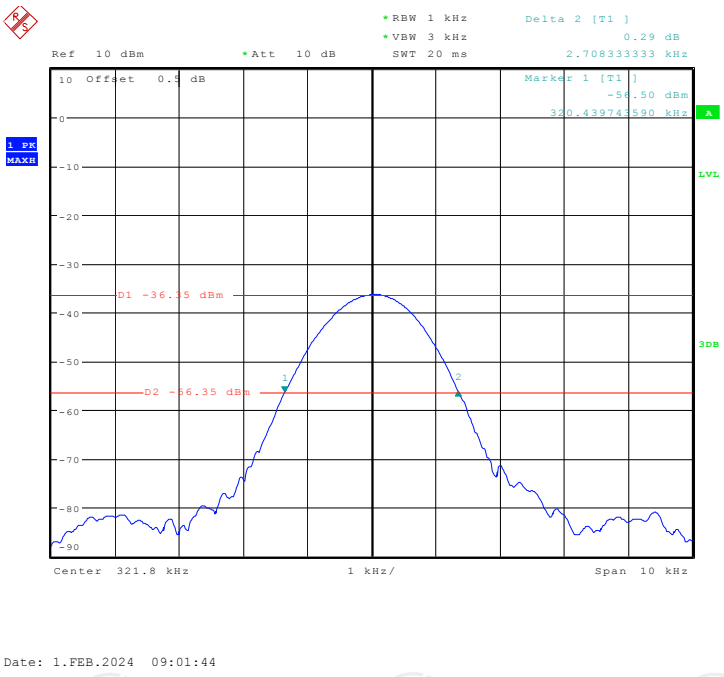
5.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Jun. 27, 2024

5.4.3. Test data

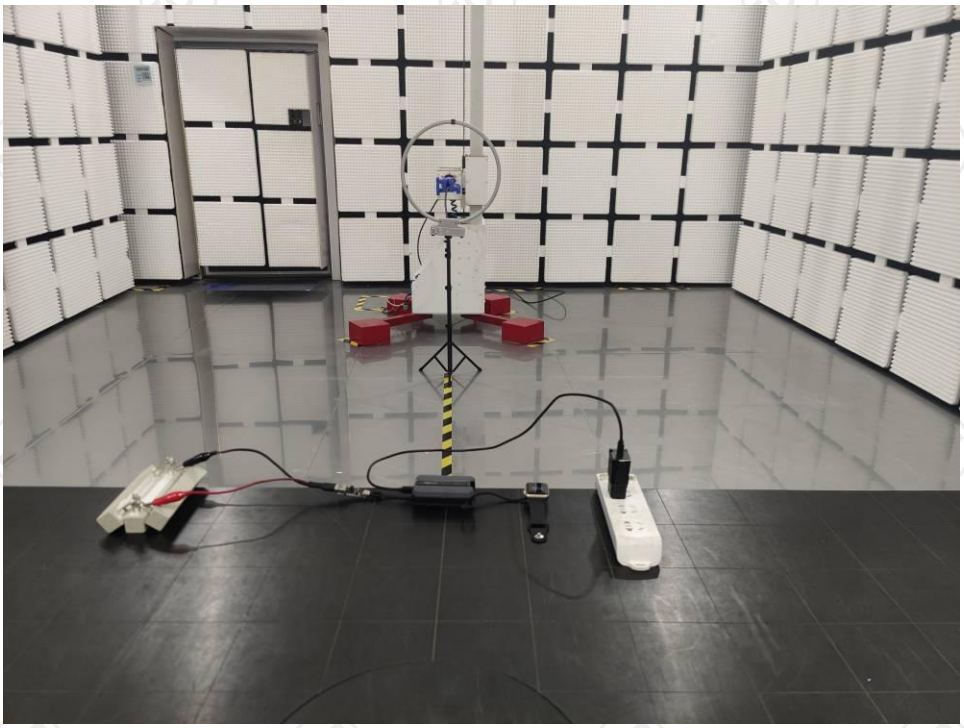
Frequency (KHz)	20dB Occupy Bandwidth (kHz)	Conclusion
321.80KHz	2.71	PASS

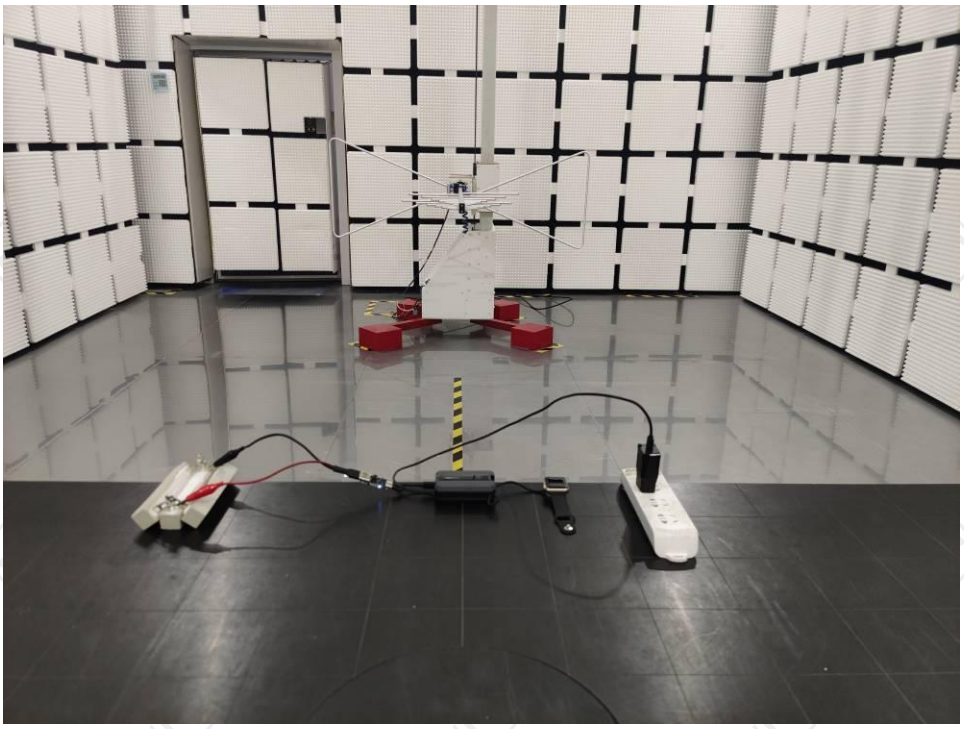
Test plots as follows:



Appendix A: Photographs of Test Setup

Product: Power Bank
Model: VT106C
Radiated Emission





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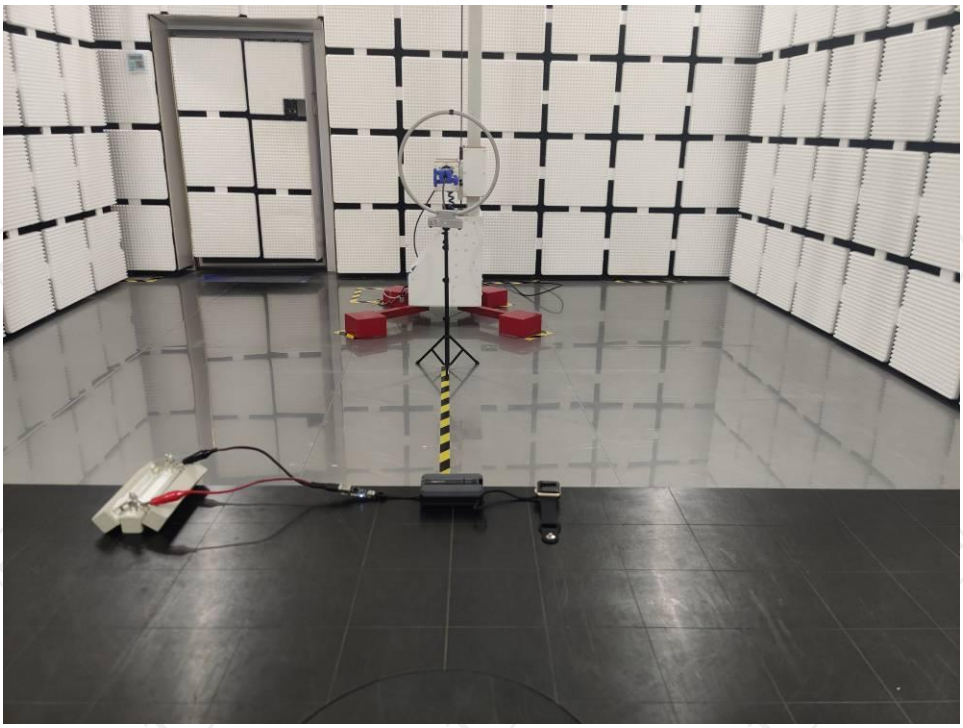
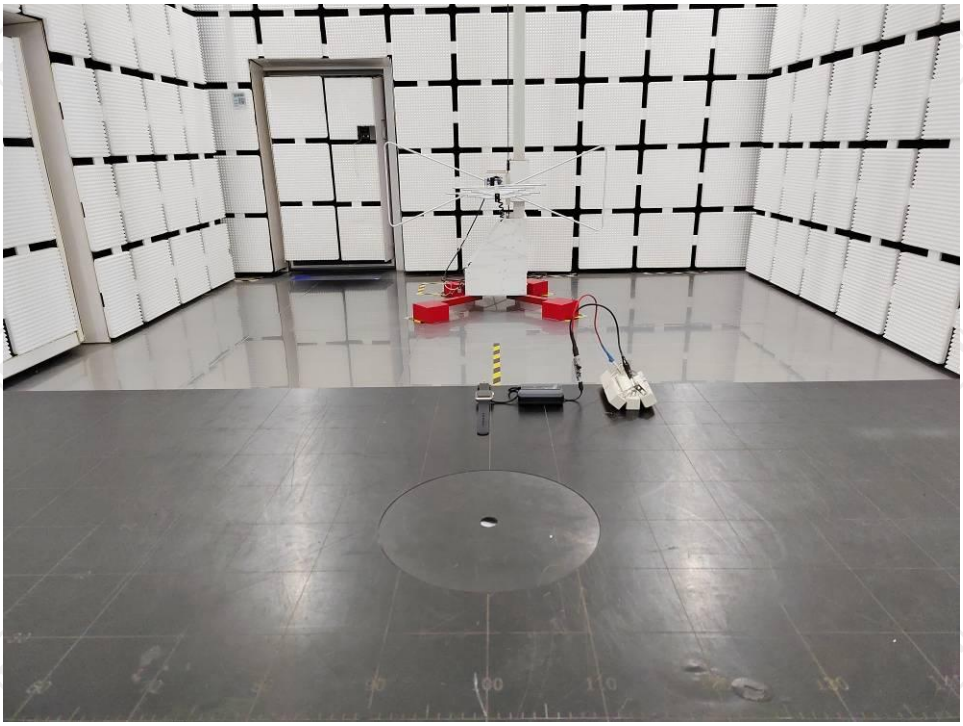
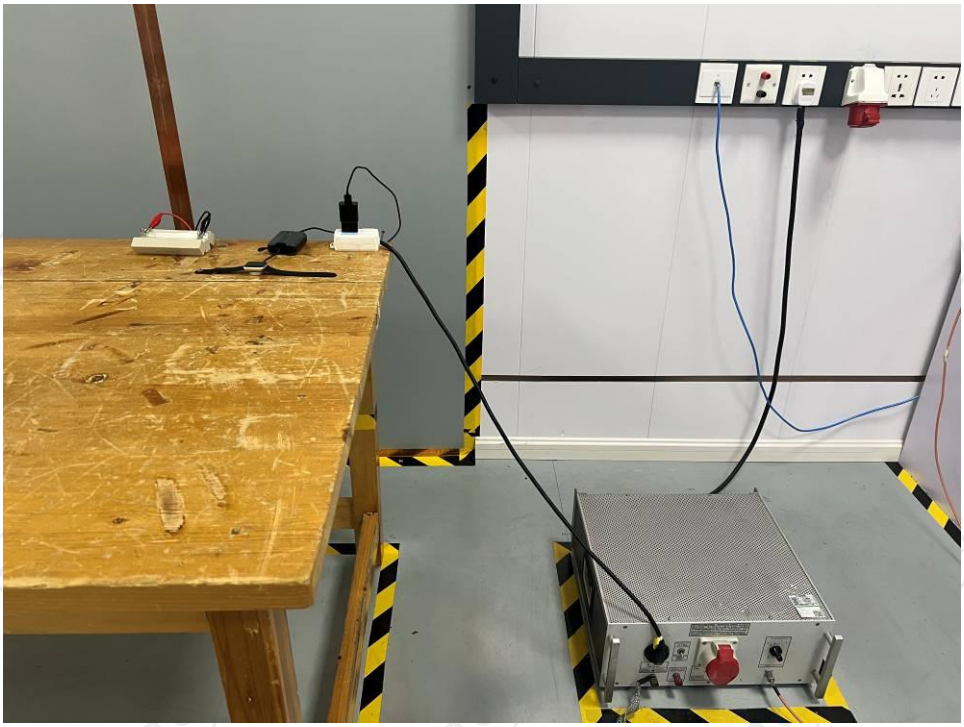




Conducted Emission



Appendix B: Photographs of EUT

Product: Power Bank

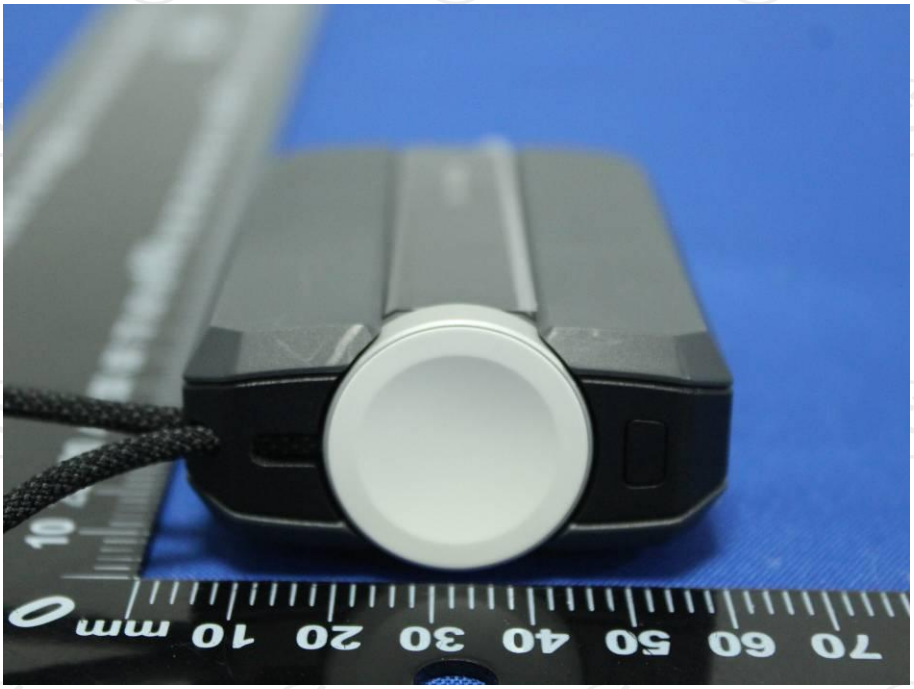
Model: VT106C

External Photos

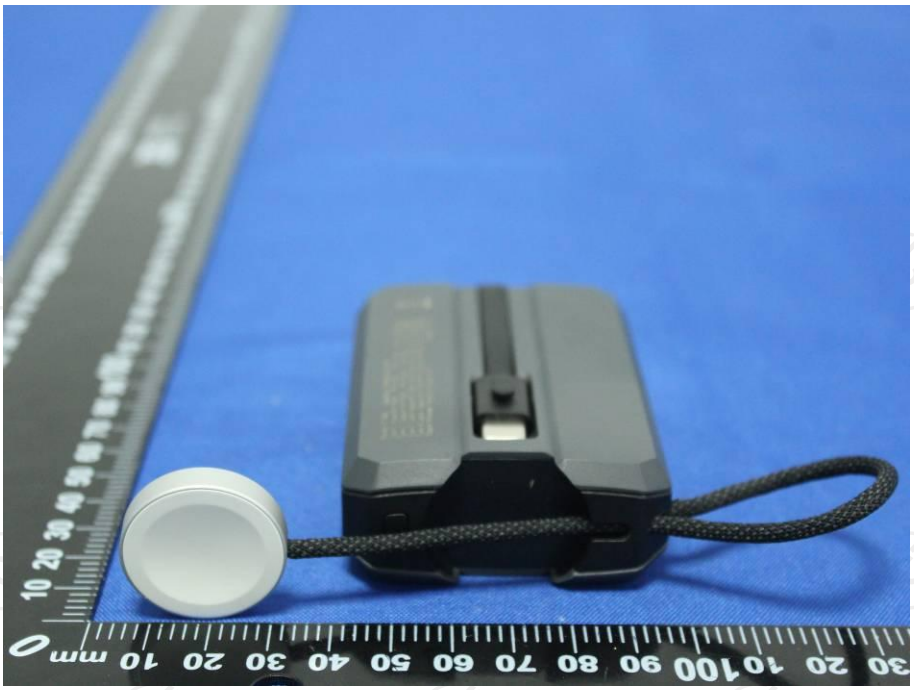

Model: VT106C Capacity: 10000mAh 37Wh
Type-C Input: 5V⎓3.0A 9V⎓2.5A 12V⎓1.8A 15V⎓1.5A(22.5W)
Type-C Output: 5V⎓3.0A 9V⎓3.0A 12V⎓2.5A 15V⎓2.0A(30W)
Type-C Cable Input: 5V⎓3.0A 9V⎓2.5A 12V⎓1.8A 15V⎓1.5A(22.5W)
Type-C Cable Output: 5V⎓3.0A 9V⎓3.0A/12V⎓2.5A 15V⎓2.0A(30W)
iWatch Wireless Charging Output: 2.5W
Made in China


veektomx

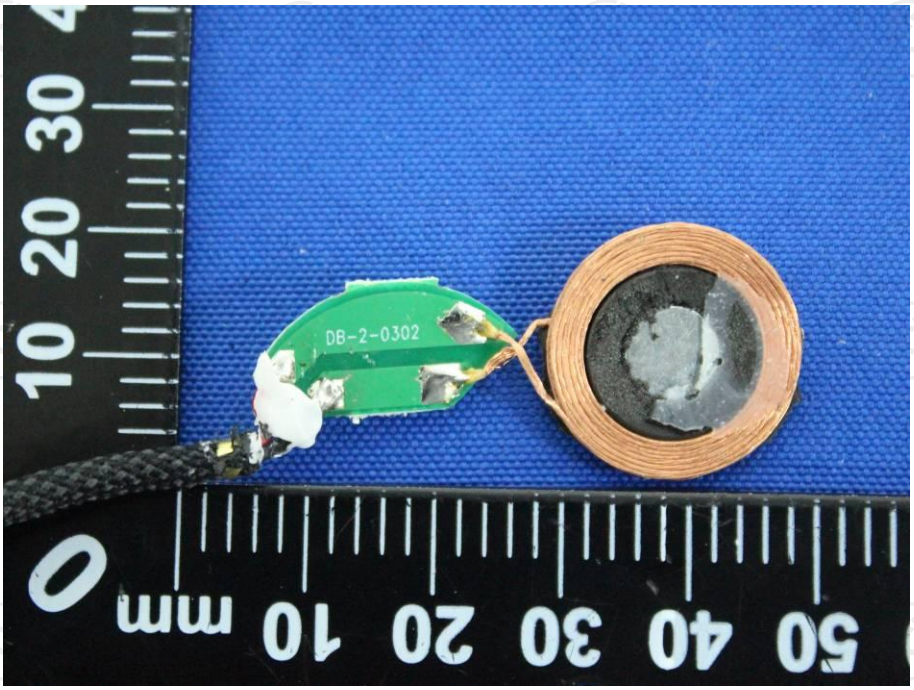

veektomx




Safety in, Power out



Product: Power Bank
Model: VT106C
Internal Photos



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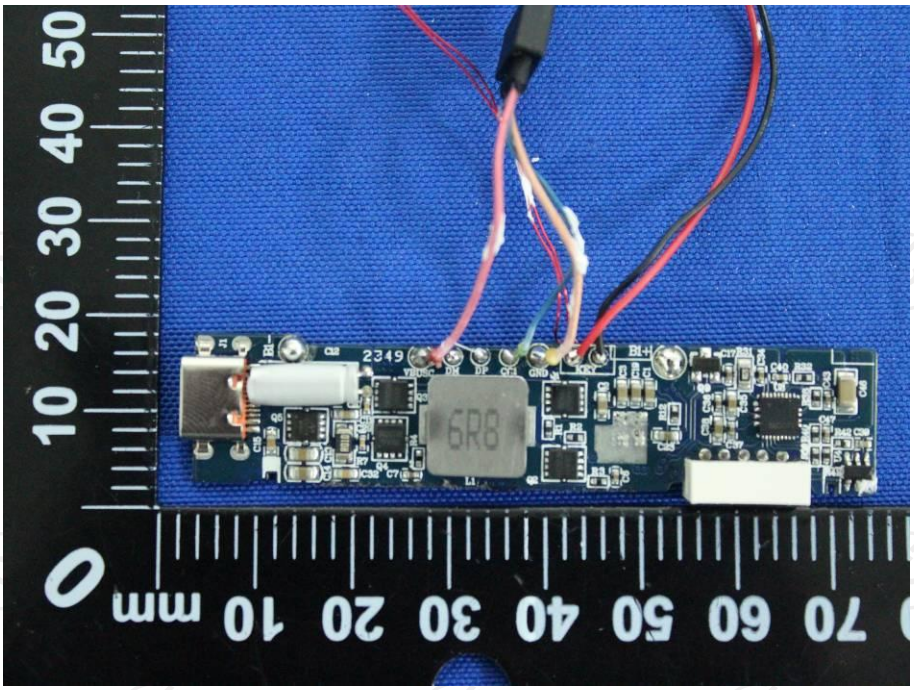
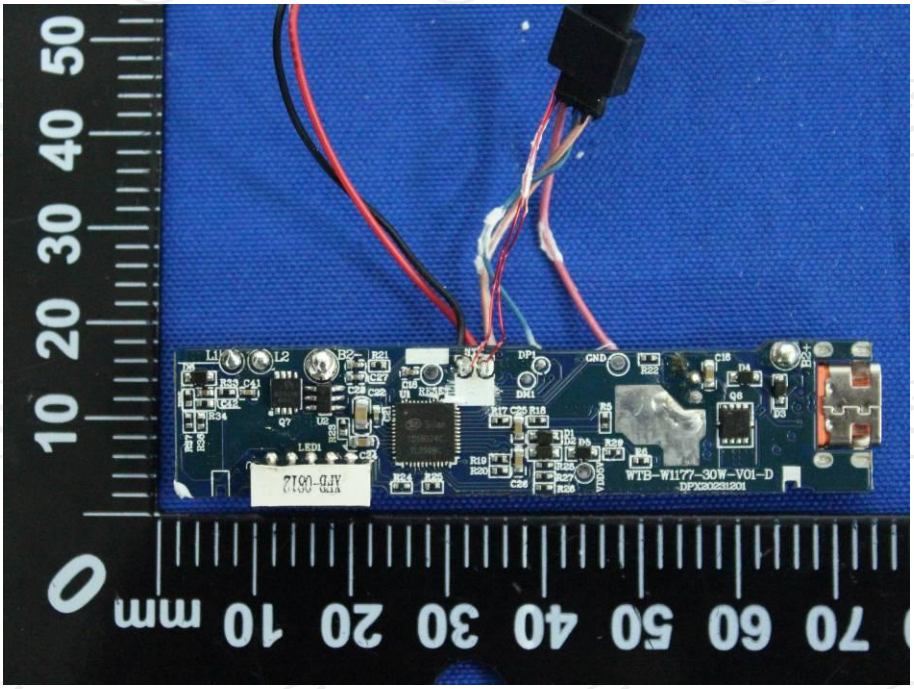
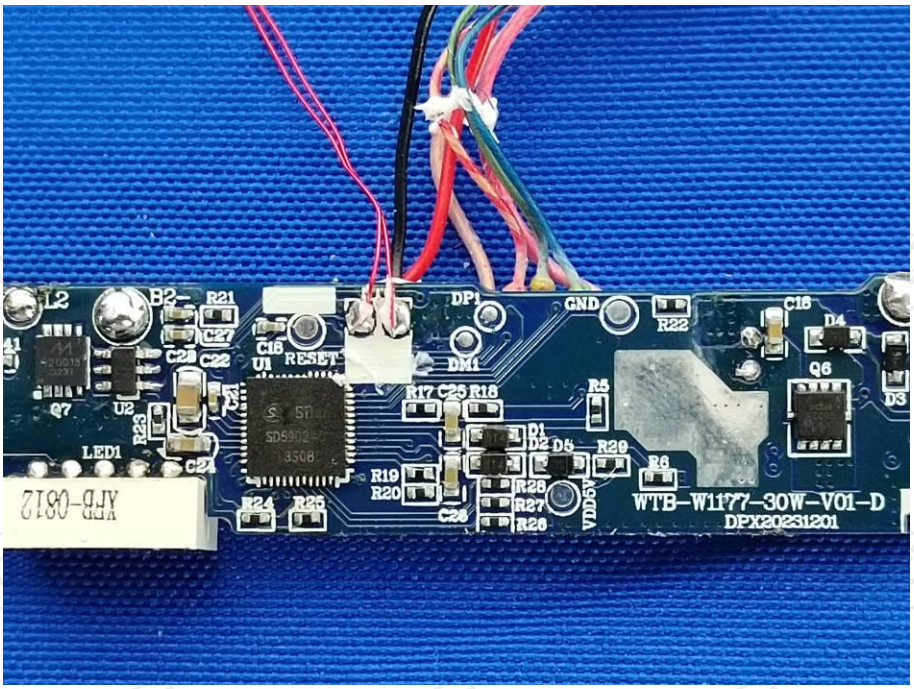
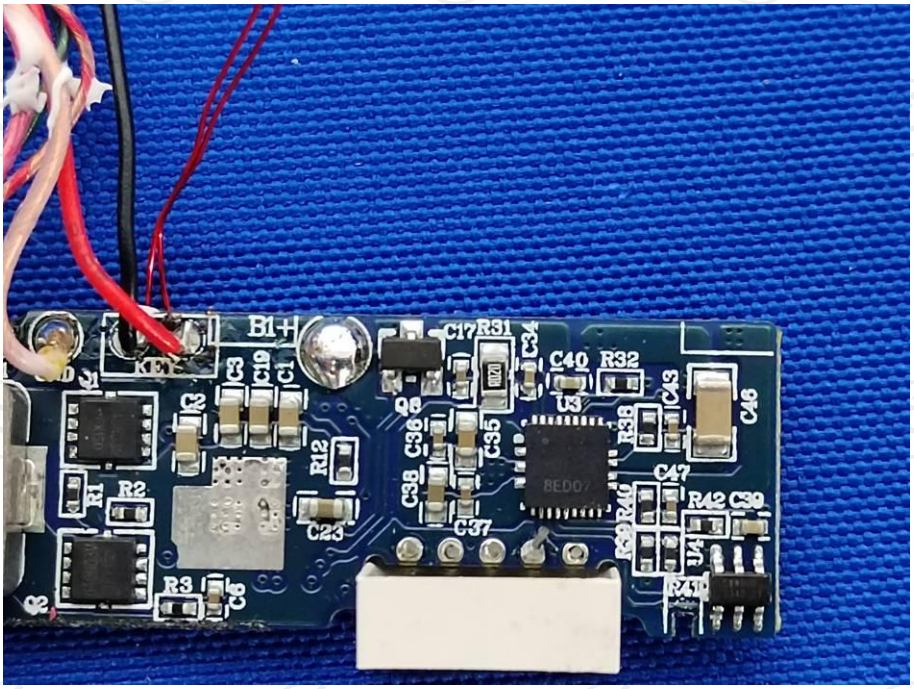
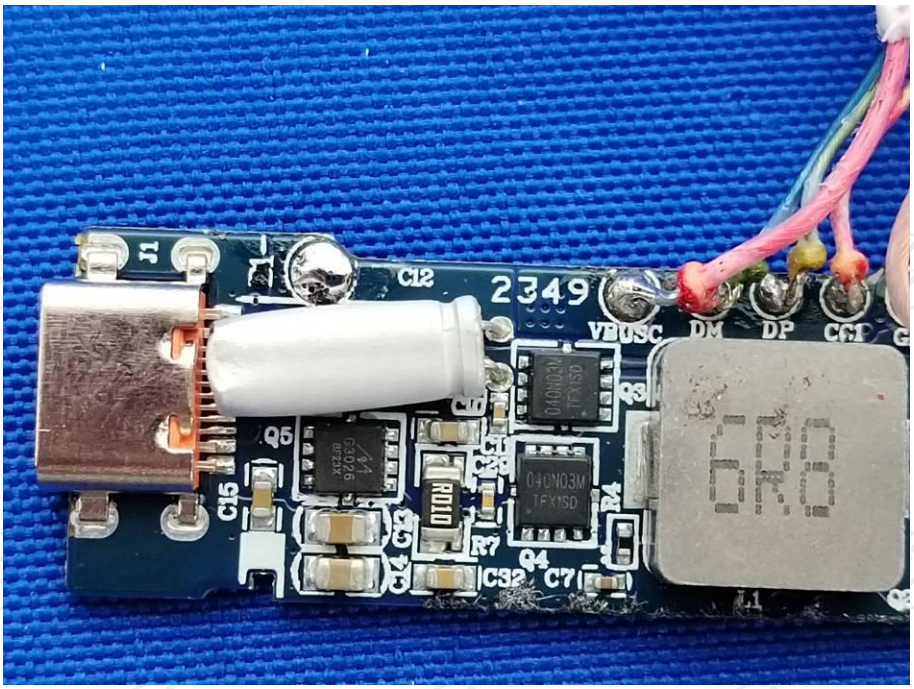





L2
B2-
R21
C27
C22
C16
U1
RESET
DP1
DM1
GND
R22
C18
D4
Q6
D3
Q7
U2
R23
LED1
C21
R17
C25
R18
R5
D1
D2
D5
R29
R6
R19
R20
R24
R25
C28
R28
R27
R26
VDD5V
WTB-W1177-30W-V01-D
DPX20231201


B1+
C17
R31
C34
C40
R32
C43
C46
Q8
U3
C36
C35
R38
C47
C38
R42
C39
C37
R41
C23
R12
R1
R2
R3
C3
C19
C1
C2
Q2



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

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