

FCC TEST REPORT

FCC ID: 2AP2N-MAG50S

On Behalf of

Shenzhen Esorun Technology Co., LTD

Wireless Power Bank

Model No.: Mag50S

Prepared for	:	Shenzhen Esorun Technology Co.,LTD
Address	:	Room 226, Building A, B, C, Zone B, Yuanfen Industrial Zone, Taoyuan Community, Dalang Street, Longhua District, Shenzhen

Prepared By	:	Shenzhen Alpha Product Testing Co., Ltd.		
Address	:	Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China		

Report Number	:	A2302166-C01-R01
Date of Receipt	:	February 21, 2023
Date of Test	:	February 21, 2023–March 1, 2023
Date of Report	:	March 1, 2023
Version Number	:	V0

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Applicant	:	Shenzhen Esorun Technology Co.,LTD			
Address	:	Room 226, Building A, B, C, Zone B, Yuanfen Industrial Zone, Taoyuan Community, Dalang Street, Longhua District, Shenzhen			
Manufacturer	:	Shenzhen Esorun Technology Co.,LTD			
Address	:	Room 226, Building A, B, C, Zone B, Yuanfen Industrial Zone, Taoyuan Community, Dalang Street, Longhua District, Shenzhen			
EUT Description	:	Wireless Power Bank			
		(A) Model No. : Mag50S			
		(B) Trademark : ESORUN			

TEST REPORT DECLARATION

Measurement Standard Used: FCC CFR Title 47 Part 15 Subpart C Section 15.209

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC CFR Title 47 Part 15 Subpart C Section 15.209 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

 Tested by (name + signature).....:
 Yannis Wen
Project Engineer
 Yannis Wen
Project Engineer

 Approved by (name + signature).....:
 Reak Yang
Project Manager
 Project Manager

 Date of issue......:
 March 1, 2023

Revision History

Revision	Issue Date	Revisions	Revised By
V0	March 1, 2023	Initial released Issue	Yannis Wen

1. 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
Occupied Bandwidth	§15.215 (c)	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.

2. General Information

2.1. Description of Device (EUT)				
EUT Name	:	Wireless Power Bank		
Model No.	:	Mag50S		
DIFF.	:	N/A		
Trademark	:	ESORUN		
Power supply	:	Power from adapter		
EUT information	:	DC 3.7V from battery Type-C Input : 5V = 2.5A Type-C Output : 5V = 2.1A Wireless Output :5W (MAX) Simultaneous Output: 5V=2.5A		
Operation frequency	:	115~205KHz		
Modulation	:	MSK		
Antenna Type	:	Coil Antenna, Maximum Gain is 0dBi (This value is supplied by applicant).		
Software version	:	V1.0		
Hardware version	:	V1.0		
Connector cable loss	:	0.5dB (This value is supplied by applicant).		
Intend use environment	:	Residential, commercial and light industrial environment		

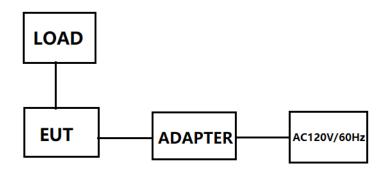
2.2. Accessories of Device (EUT)

Accessories1	:	Cable
Manufacturer	:	Shenzhen Esorun Technology Co.,LTD
Model	:	/
Ratings	:	/

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification
1	BlitzForce PD Pioneer 65W 2-Port Wall Charger	BlitzForce.	BZ-PC001		
2	Wireless load				

2.4. Block Diagram of Connection between EUT and Simulators



2.5. Description of Test Modes

Channel	Frequency (KHz)
1	137

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	24°C
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission Registration Number: 293961

July 15, 2019 Certificated by IC Registration Number: CN0085

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	1.63dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	3.5dB
Uncertainty for Radiation Emission test in 3m chamber	3.74dB(Polarize: V)
(30MHz to 1GHz)	3.76dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber	3.77dB(Polarize: V)
(1GHz to 25GHz)	3.80dB(Polarize: H)
Uncertainty for radio frequency	5.06×10 ⁻⁸ GHz
Uncertainty for conducted RF Power	0.40dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

2.9. Test Equipment List

Equipment	Manufacture	Model No.	Firmware version	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	/	N/A	2022.05.17	3Year
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2022.08.22	1Year
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2022.08.22	1Year
Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-10 2082-Wa	2022.08.22	1Year
Receiver	R&S	ESCI	4.42 SP1	101165	2022.08.22	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	/	VULB 9168#627	2021.08.30	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	/	2106	2021.08.30	2Year
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	/	00059	2021.08.30	2Year
RF Cable	Resenberger	Cable 1	/	RE1	2022.08.22	1Year
RF Cable	Resenberger	Cable 2	2 / RE2		2022.08.22	1Year
RF Cable	Resenberger	Cable 3	/	CE1	2022.08.22	1Year
Pre-amplifier	HP	HP8347A	/	2834A00455	2022.08.22	1Year
Pre-amplifier	Agilent	8449B	/	3008A02664	2022.08.22	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	/	8126-466	2022.08.22	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	101043	2022.08.23	1 Year
Horn Antenna	SCHWARZBECK	BBHA9170	/	00946	2021.08.30	2 Year
Preamplifier	SKET	LNPA_1840 -50	/	SK2018101801	2022.08.22	1 Year
Power Meter	Agilent	E9300A	/	MY41496628	2022.08.22	1 Year
Power Sensor	DARE	RPR3006W	/	15100041SNO91	2022.08.22	1 Year
Temp. & Humid. Chamber	Weihuang	WHTH-1000 -40-880	/	100631	2022.08.22	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	/	20140927-6	2022.08.22	1 Year
Adjustable attenuator	MWRFtest	N/A	/	/ N/A		N/A
10dB Attenuator	Mini-Circuits	DC-6G	/	N/A	N/A	N/A

Software Information								
Test Item	Software Name	Manufacturer	Version					
RE	EZ-EMC	EZ	Alpha-3A1					
CE	EZ-EMC	EZ	Alpha-3A1					
RF-CE	MTS 8310	MW	V2.0.0.0					

3. Test Results and Measurement Data

3.1. Conducted Emission

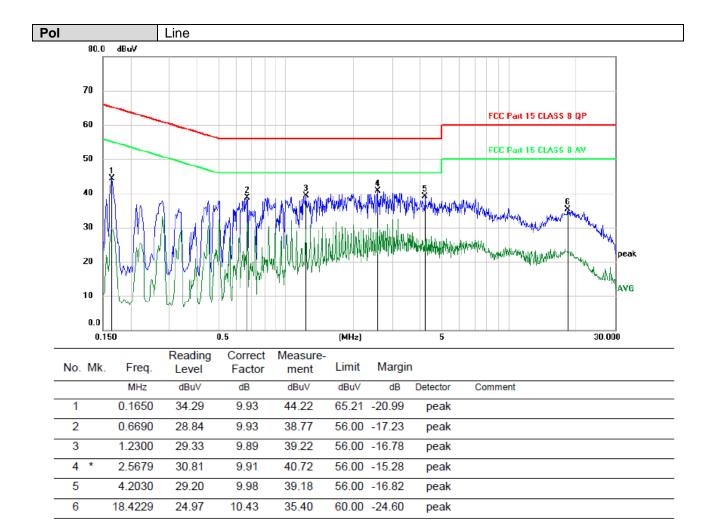
3.1.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.2	07					
Test Method:	ANSI C63.10:2013						
	150 kHz to 30 MHz						
Frequency Range:							
Receiver setup:	RBW=9 kHz, VBW=30 kHz,	Sweep time=auto					
		Limit (d	BuV)				
	Frequency range (MHz)	Quasi-peak	Average				
Limits:	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	Refere	nce Plane					
Test Setup:	40cm 80cm LISN Filter AC power E.U.T Adapter Filter AC power EMI Receiver Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m						
Test Mode:	Transmitting Mode						
Test Procedure:	 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. 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). 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 ANSI C63.10: 2013 on conducted measurement. 						
Test Result:	PASS						

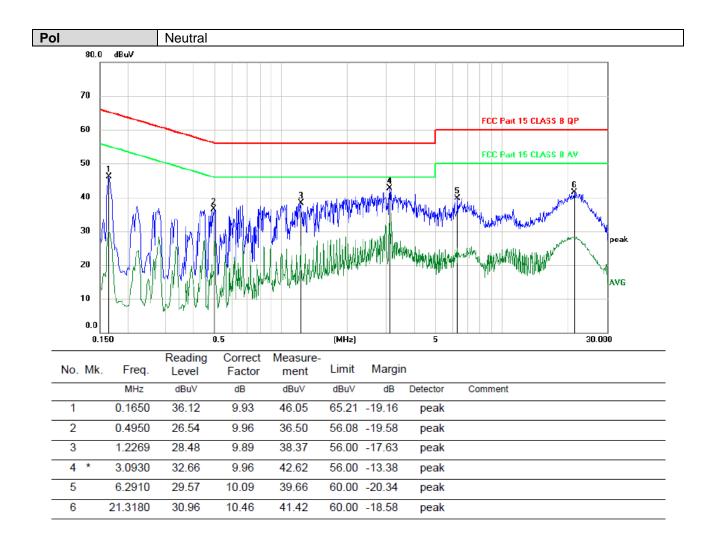
3.1.2. Test Data

Please refer to following diagram for individual

Test Mo	ode : Charging+wireless output(5W)
Test Re	esult : PASS
Note:	The test results are listed in next pages.
	All test modes has been tested, this report only reflected the worst mode.
	If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.



*:Maximum data x:Over limit !:over margin (Reference Only Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



*:Maximum data x:Over limit !:over margin

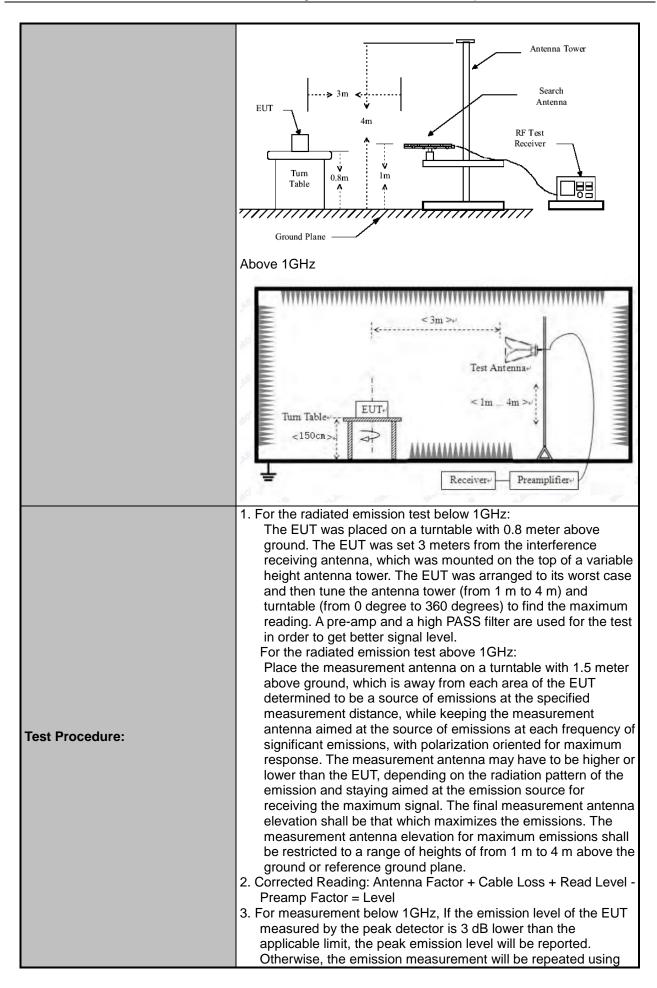
(Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

3.2. Radiated Spurious Emission Measurement

3.2.1. Test Specification

Test Method: ANSI C63.10: 2013 Frequency Range: 9 kHz to 25 GHz Measurement Distance: 3 m Antenna Polarization: Horizontal & Vertical Operation mode: Refer to item 4.1 Receiver Setup: Prequency Detector RBW VBW Remark Value 30MHz k 30MHz/1GH Quasi-pea 9kHz 30MHz/1GH Quasi-pea 9kHz 30MHz/1GH Quasi-pea 9kHz 30MHz/1GH Quasi-pea 9kHz 30MHz/1GH Quasi-peak Value Above 1GHz Peak Peak 1MHz 300 0.490-1.705 24000/F(KHz) 30 30.0 30 0.490-1.705 24000/F(KHz) 30 30 30.0 30 0.490-1.705 24000/F(KHz) 30 30 1.105-30 30 30.2 30 30.3 30 30.4 30 30.4 30 30.0 30 30.0 30 Average 30 <th>Test Requirement:</th> <th>FCC Part15 C</th> <th colspan="8">FCC Part15 C Section 15.209</th>	Test Requirement:	FCC Part15 C	FCC Part15 C Section 15.209								
Measurement Distance: 3 m Antenna Polarization: Horizontal & Vertical Operation mode: Refer to item 4.1 Frequency Detector RBW VBW Remark 9kHz: Quasi-pea 200Hz 1kHz Quasi-peak 150kHz k g 9kHz 30kHz Quasi-peak 150kHz k z Z Value 30MHz Quasi-pea 9kHz 30kHz Quasi-peak 30MHz k z Z Value 30MHz k z Z Value 30MHz Netz Peak 100KH 300KH Quasi-peak 30MHz k z Z Value Average Value Receiver Setup: Frequency Field Strength (microvolts/meter) Measurement Distance (meters) Measurement 0.009-0.490 2400/F(KHz) 300 30 30 30 30 10:53.0 3 3 3 3 3 3 10:50.0 3 3 3 3 3 3	Test Method:	ANSI C63.10: 2013									
Antenna Polarization: Horizontal & Vertical Operation mode: Refer to item 4.1 Frequency Detector RBW VBW Remark 9kHz: Quasi-pea 200Hz 1kHz Quasi-peak 150kHz k 9kHz 30kHz Quasi-peak 30MHz k 9kHz 30kHz Quasi-peak 30MHz k 2 Value Quasi-peak 30MHz k 2 Value Quasi-peak 30MHz k 2 Value Quasi-peak 30MHz k z Z Value 30MHz k z Z Value 30MHz k z Z Value Above 1GHz Peak 1MHz 10Hz Average Value Measurement (microvolts/meter) 0.009-0.490 2400/F(KHz) 300 30 30-030 30 30 30 30 30 30-000 3 Baze16 150 3 3 1705-30 200 3 Above 960	Frequency Range:	9 kHz to 25 GH	9 kHz to 25 GHz								
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Above 960 500 3 Above 960 500 3 Frequency Field Strength (microvolts/mete r) Measureme nt Distance (meters) Detector Above 1GHz 500 3 Average Soudow 3 Peak For radiated emissions below 30MHz Computer Computer Distance = 3m Computer Pre-Amplifier Update Distance = 3m Computer Receiver Update Distance = 3m Computer Receiver Update Distance = 3m Computer Receiver											
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Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz For radiated emissions below 30MHz Image: Distance = 3m Computer Image: Distance = 3m Image: Distance = 3m Image: Distance = 3m Computer Image: Distance = 3m Image: Distance = 3m Image: Distance = 3m Image: Distance = 3m Image: Distance = 3m Image: Distance = 3m Image: Distance = 3m Image: Distance = 3m Image: Distance = 3m Image: Distance = 3m Image: Distance = 3m Image: Distance = 3m Image: Distance = 3m <t< th=""><th></th><th>Frequency</th><th></th><th colspan="2"></th><th>olts/mete</th><th>nt Distan</th><th>се</th><th>Detector</th></t<>		Frequency				olts/mete	nt Distan	се	Detector		
For radiated emissions below 30MHz Distance = 3m Computer Image: transformed processing of the second proce		Above 1GHz				3					
Test setup:		For radiated em	nissio	ns be			3		Peak		
Test setup:		Distance = 3m							Computer		
	Test setup:	▲ I I.		table] 1m						
		30MHz to 1GH:	Z	G	roun	d Plane]	L	J		

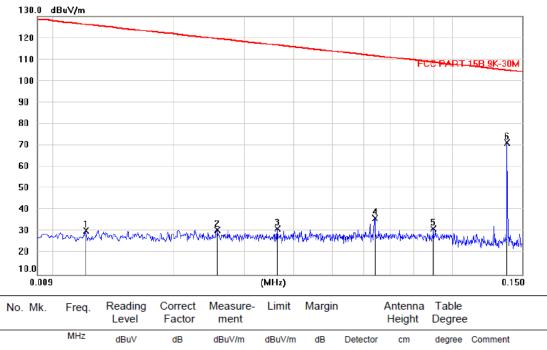


	 the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f □ 1 GHz for peak measurement. 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 4.1 for details
Test results:	PASS

3.2.2. Test Data

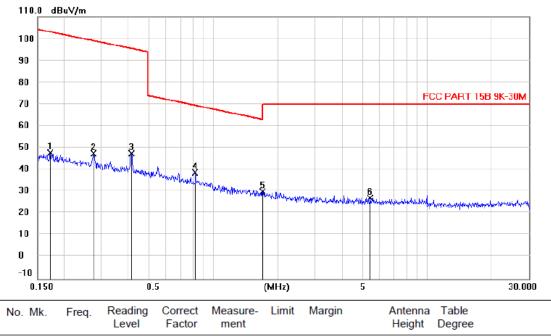
Please refer to following diagram for individual

Freque	ncy Range	:	9KHz~30MHz					
Test Mode		:	TX: 137kHz					
Test Re	sults	:	PASS					
Note:	1. The test	res	ults are listed in next pages.					
	2. This mo	de i	s worst case mode, so this report only reflected the worst mode.					
	3. If the limits for the measurement with the average detector are met when using a receiver with							
	a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.							



	MHZ	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0120	9.05	21.45	30.50	126.1	-95.61	peak			
2	0.0256	9.85	21.11	30.96	119.5	-88.60	peak			
3	0.0362	10.79	20.65	31.44	116.5	-85.12	peak			
4	0.0639	16.22	20.11	36.33	111.6	-75.31	peak			
5	0.0898	11.43	19.90	31.33	108.6	-77.36	peak			
6 *	0.1377	51.25	20.02	71.27	104.9	-33.72	peak			

Note:1. *:Maximum data; x:Over limit; I:over margin. 2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

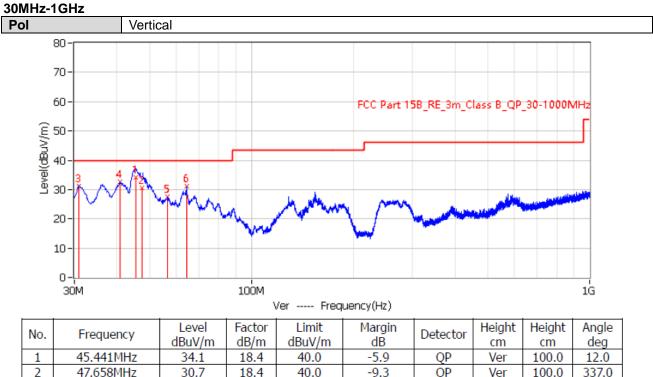


		Level	Factor	ment				Height	Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.1723	27.69	20.17	47.86	103.0	-55.19	peak			
2	0.2754	27.31	20.02	47.33	98.99	-51.66	peak			
3	0.4143	27.62	19.82	47.44	95.45	-48.01	peak			
4 *	0.8256	18.86	19.90	38.76	69.40	-30.64	peak			
5	1.7029	9.90	20.18	30.08	<u>63.01</u>	-32.93	peak			
6	5.4253	5.37	21.83	27.20	70.00	-42.80	peak			

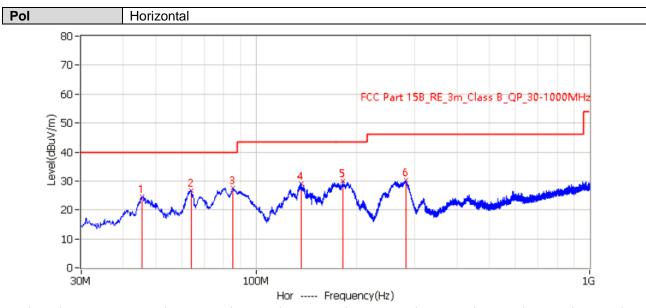
Note:1. *:Maximum data; x:Over limit; !:over margin. 2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Frequer	ncy Range	:	30MHz~1000MHz				
Test Mo	ode	:	Charging+wireless output(5W)				
Test Re	sults	:	PASS				
Note:	1. The test	t res	ults are listed in next pages.				
	2. All test	mode	es has been tested, this report only reflected the worst mode.				
	3. If the limits for the measurement with the average detector are met when using a receiver with						
	•		r, the test unit shall be deemed to meet both limits and the measurement with the ector need not be carried out.				

Frequency Range : Above 1GHz			
EUT : /	Test Date	:	/
M/N : /	Temperature	:	/
Test Engineer : /	Humidity	:	/
Test Mode : /			
Test Results : N/A			
 The highest frequency of the internal sources Note: measurement shall only be made up to 1 GHz. So the not applicable. 			



	۷.	47.03814112	30.7	10.4	40.0	-9.5	Ų٢	ver	100.0	337.0
3	*	30.849MHz	31.3	15.6	40.0	-8.7	PK	Ver	100.0	7.0
4	*	41.034MHz	32.6	16.8	40.0	-7.4	PK	Ver	100.0	117.0
5	*	56.554MHz	27.6	17.8	40.0	-12.4	PK	Ver	100.0	211.0
6	;*	64.435MHz	31.3	16.9	40.0	-8.7	PK	Ver	100.0	186.0



No.	Frequency	Level	Factor	Limit	Margin	Detector	Height	Height	Angle
	riequency	dBuV/m	dB/m	dBuV/m	dB	Dettector	cm	cm	deg
1*	45.641MHz	24.6	18.4	40.0	-15.4	PK	Hor	200.0	254.0
2*	63.950MHz	26.6	16.9	40.0	-13.4	PK	Hor	200.0	247.0
3*	85.533MHz	27.5	12.1	40.0	-12.5	PK	Hor	200.0	26.0
4*	136.458MHz	29.2	15.1	43.5	-14.3	PK	Hor	200.0	274.0
5*	182.169MHz	30.0	14.0	43.5	-13.5	PK	Hor	200.0	82.0
6*	281.109MHz	30.2	15.1	46.0	-15.8	PK	Hor	113.0	0.0

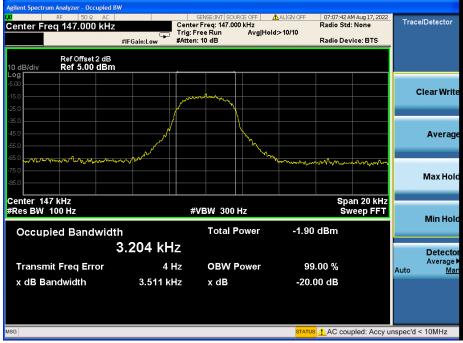
3.3. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)				
Test Method:	ANSI C63.10: 2013				
Limit:	N/A				
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. 				
Test setup:	Spectrum Analyzer				
Test Mode:	Refer to section 4.1 for details				
Test results:	PASS				

3.3.1. Test Data

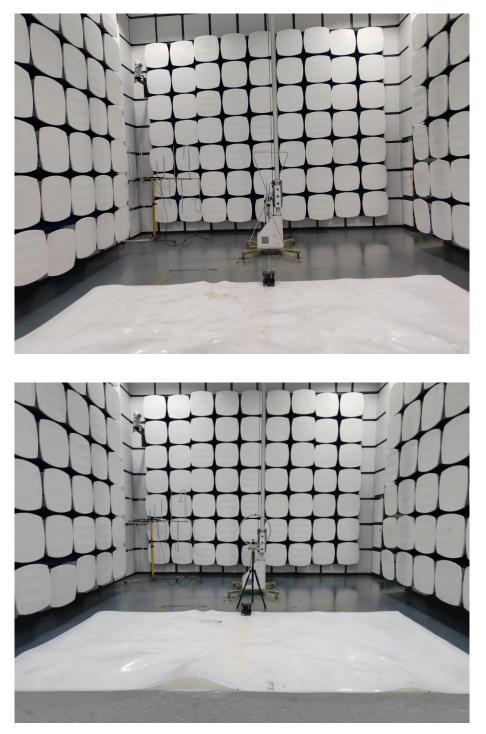
Frequency(KHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion	
147	3.511		PASS	

Test plots as follows:



4. Photos of Test Setup

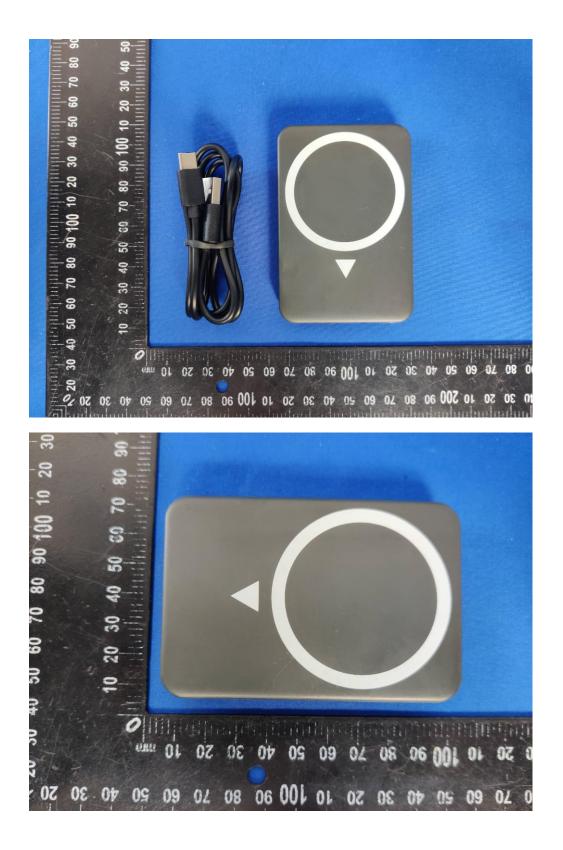
Radiated Emission

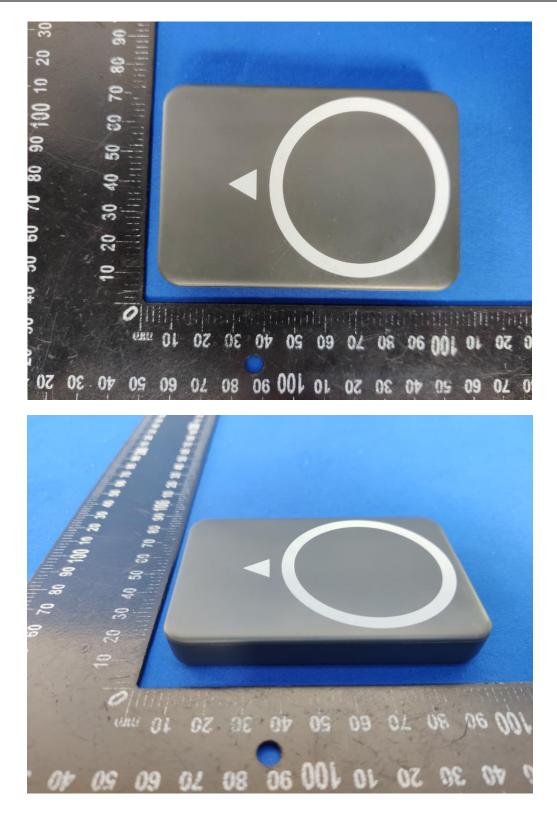


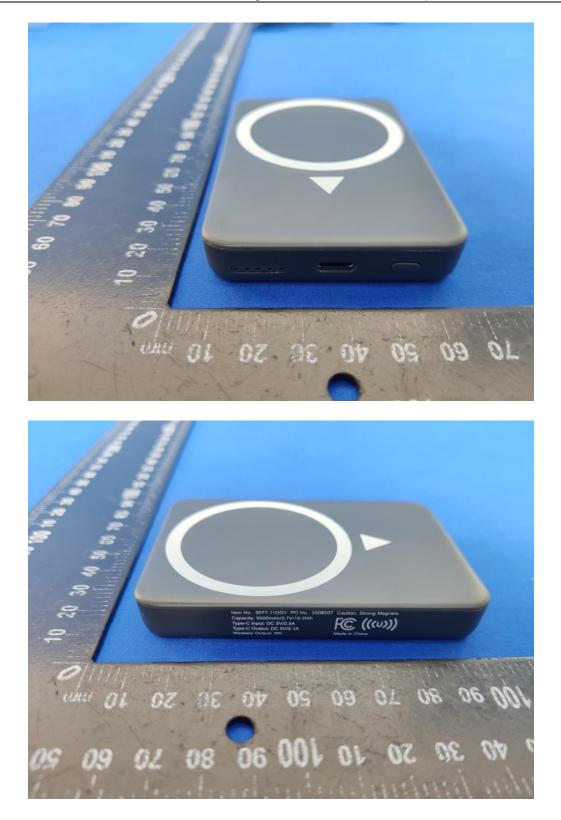
Conducted Emission

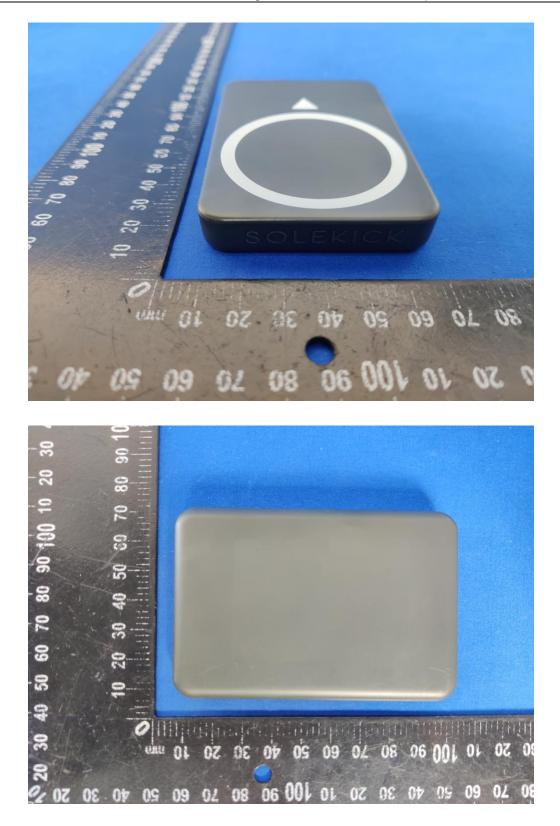


5. Photographs of EUT



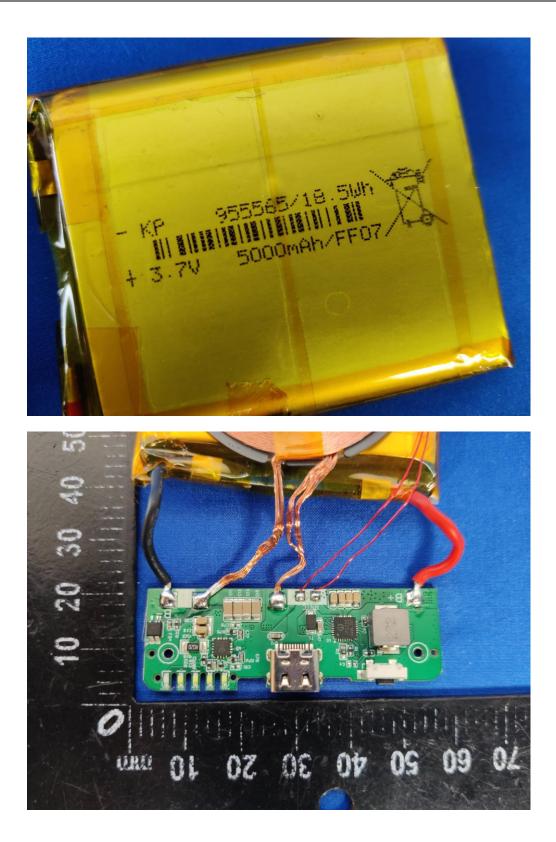


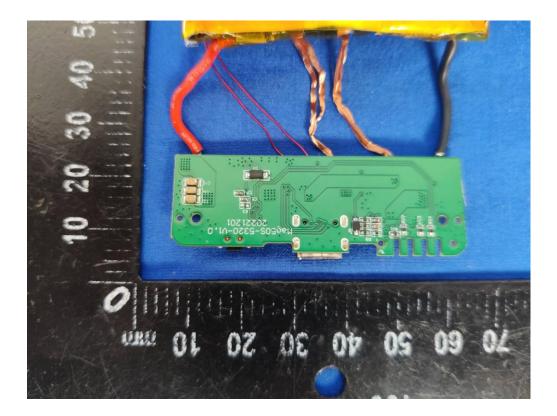












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