

Test Report

Report No.: MTi210201032-05E1

Date of issue: Apr. 14, 2021

Applicant: Aukey Technology Co., Ltd.

Magnetic Wireless Charging

Product name:

Power Bank

Model(s): PB-WL03i

FCC ID: 2ATIH-PB-WL03I

Shenzhen Microtest Co., Ltd. http://www.mtitest.com



Instructions

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- 2. The test results of this report are only responsible for the samples submitted:
- 3. This report is invalid without the seal and signature of the laboratory;
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- 5. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.



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TEST RESULT CERTIFICATION					
Applicant's name Aukey Technology Co., Ltd.					
Address		, Building P09, South China City Electronic trading nggang District, Shenzhen, Guangdong, 518111, China			
Manufacturer's Name	: Shenzhen	Hasmine Technology Co., Ltd			
Address		, Building 8, Haomai-High-tech park, Huating Road, eet, Longhua new district, Shenzhen, Guangdong			
Product description	•				
Product name	: Magnetic \	Wireless Charging Power Bank			
Trademark	: Aukey				
Model Name	: PB-WL03i				
Serial Model	N/A				
Standards	FCC Part	15C			
Test procedure	: ANSI C63.	.10-2013			
Date of Test	1				
Date (s) of performance of tests	Date (s) of performance of tests Mar. 25, 2021 ~ Apr. 14, 2021				
Test Result	:	Pass			
This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.					
Testing Engineer	:	cendy &m			
		(Cindy Qin)			
Technical Manager	:	Leo Su			
		(Leo Su)			
Authorized Signatory	:	Tom Lue			
		(Tom Xue)			



1 GENERAL INFORMATION

1.1 Feature of equipment under test (EUT)

Product name:	Magnetic Wireless Charging Power Bank
Model name:	PB-WL03i
Model difference:	N/A
Operation frequency:	115–205 kHz
Modulation type:	ASK
Max output power:	15W
Antenna type:	Coil Antenna
Power supply:	DC 9V from adapter AC 120V/60Hz or DC 3.6V from battery
Battery:	DC 3.6V 20000mAh
Adapter information:	N/A
EUT serial number:	MTi210201032-05-S0001

1.2 Test mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test mode	Description		
Mode 1	Wireless charging		

Note:

- 1: The test modes were carried out for all operation modes. The final test mode of the EUT was the worst test mode for EMI, and its test data was showed.
- 2: EUT is tested under full load.

1.3 EUT test setup

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

1.4 Ancillary equipment

Equipment	Model	S/N	Manufacturer
Adapter	HW-090200CH0	/	Huizhou BYD Electronics Co., Ltd.
Load	YBZ1.1	/	YBZ



Summary of Test Result

Item	FCC Part No.	Description of Test	Result
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

2.1 Operation channel list

Channel	Frequency (kHz)		
Low	115		
Middle	128		
High	205		

2.2 Test channel

Channel	Frequency (kHz)		
Middle	128		

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China. Tel: (86-755)88850135 Web:www.mtitest.com Fax: (86-755) 88850136 E-mail: mti@51mti.com



3 Test Facilities and Accreditations

3.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd
Location	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.
FCC Registration No.:	448573

3.2 Environmental conditions

Temperature:	15°C~35°C
Humidity	20%~75%
Atmospheric pressure	98kPa~101kPa

3.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

RF frequency	1 x 10-7
RF power, conducted	± 1 dB
Conducted emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	± 5 %

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China. Tel: (86-755)88850135 Fax: (86-755) 88850136 Web:www.mtitest.com E-mail: mti@51mti.com



4 List of test equipment

Equipmen t No.	Equipment Name	Manufact urer	Model	Serial No.	Calibration date	Due date
MTI-E043	EMI Test Receiver	Rohde≻ hwarz	ESCI7	101166	2020/06/04	2021/06/03
MTI-E044	TRILOG Broadband Antenna	schwarab eck	VULB 9163	9163-133 8	2020/06/05	2021/06/04
MTI-E047	Amplifier	Hewlett-P ackard	8447F	3113A061 50	2020/06/04	2021/06/03
MTI-E089	ESG Vector Signal Generator	Agilent	N5182A	MY49060 455	2020/06/03	2021/06/02
MTI-E058	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051 240	2020/07/03	2021/07/04
MTI-E062	PXA Signal Analyzer	Agilent	N9030A	MY51350 296	2020/06/04	2021/06/03
MTI-E066	MXA Signal Analyzer	Agilent	N9020A	MY50143 483	2020/06/04	2021/06/03
MTI-E078	Synthesized Sweeper	Agilent	83752A	3610A019 57	2020/06/04	2021/06/03
MTI-E079	DC Power Supply	Agilent	E3632A	MY40027 695	2020/06/04	2021/06/03
MTI-E021	EMI Test Receiver	Rohde≻ hwarz	ESCS30	100210	2020/06/04	2021/06/03
MTI-E022	Pulse Limiter	Schwarzb eck	VSTD 9561-F	00679	2020/06/03	2021/06/02
MTI-E023	Artificial mains network	Schwarzb eck	NSLK 8127	NSLK 8127 #841	2020/06/04	2021/06/03
MTI-E046	Active Loop Antenna	Schwarzb eck	FMZB 1519 B	00044	2020/06/05	2021/06/04
MTI-E048	Amplifier	Agilent	8449B	3008A024 00	2020/07/03	2021/07/04
MTI-E072	Thermometer Clock Humidity Monitor	-	HTC-1	/	2020/06/07	2021/06/06
MTI-E090	Test Loop Antenna	DATETEK	LA-001	77140963 4	2020/06/05	2021/06/04

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



5 Test 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 EUT Antenna

The EU	Γantenna is	Coil Antenna.	It comply with the	standard	requirement.	In case of	replacement
of broke	n antenna th	e same antenr	na type must be u	sed.			



5.2 Conducted emission

5.2.1 Limits

For the following equipment, when designed to be connected to the public utility (AC) power line the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies shall not exceed the limits in the following tables. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal using a 50 μ H/50 ohms line impedance stabilization network (LISN).

Frequency	Conducted limit (dBµV)				
(MHz)	Quasi-peak	Average			
0.15 -0.5	66 - 56 *	56 - 46 *			
0.5 -5	56	46			
5 -30	60	50			

Note:

the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

5.2.2 Test Procedures

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.

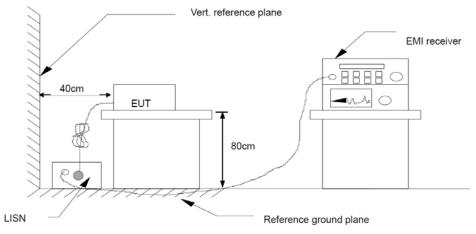
Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

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.

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

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



10

0

-10 -20 0.150

0.5

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EUT:	Magnetic Wireless Charging Power Bank	Model Name:	PB-WL03i	
Pressure:	101kPa	Phase:	L	
Test voltage:	DC 9V from adapter AC 120V/60Hz	pter AC Test mode: Mode 1		
80.0 dBuV				
70				
60	_	FCCPart15 ClassB AC	Conduction(QP)	
50		FCCPart15 ClassB AC (Conduction(AVG)	
40 \$ 1 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7	9 11 20 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 1		
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20	1 N 1	Anno. I (1)	peak	

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1 *	0.1500	44.31	10.94	55.25	66.00	-10.75	QP
2	0.1500	24.95	10.94	35.89	56.00	-20.11	AVG
3	0.1860	37.89	10.92	48.81	64.21	-15.40	QP
4	0.1860	27.92	10.92	38.84	54.21	-15.37	AVG
5	0.4900	24.32	10.91	35.23	56.17	-20.94	QP
6	0.4900	16.53	10.91	27.44	46.17	-18.73	AVG
7	1.6380	26.94	11.32	38.26	56.00	-17.74	QP
8	1.6380	21.03	11.32	32.35	46.00	-13.65	AVG
9	2.7220	27.28	11.39	38.67	56.00	-17.33	QP
10	2.7220	22.39	11.39	33.78	46.00	-12.22	AVG
11	4.3740	28.33	11.39	39.72	56.00	-16.28	QP
12	4.3740	21.82	11.39	33.21	46.00	-12.79	AVG

(MHz)

UT:	Magnetic Wireless Charging Power Bank	Model Name:	PB-WL03i		
ressure:	101kPa				N
est voltage:	DC 9V from adapter A 120V/60Hz	C Test mode:	Mode 1		
80.0 dBuV					
70		FCCPart15 ClassB A	C Conduction(QP)		
60		FOOD ME OLD DAG	0 1 1 (100)		
50		FCCPart15 ClassB AC	Conduction(AVG)		
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1539	43.09	10.94	54.03	65.79	-11.76	QP
2		0.1539	28.55	10.94	39.49	55.79	-16.30	AVG
3		1.3660	27.36	11.28	38.64	56.00	-17.36	QP
4		1.3660	19.95	11.28	31.23	46.00	-14.77	AVG
5		2.1860	27.49	11.39	38.88	56.00	-17.12	QP
6		2.1860	21.77	11.39	33.16	46.00	-12.84	AVG
7		4.3740	28.96	11.39	40.35	56.00	-15.65	QP
8		4.3740	21.06	11.39	32.45	46.00	-13.55	AVG
9		5.8700	23.47	11.40	34.87	60.00	-25.13	QP
10		5.8700	14.21	11.40	25.61	50.00	-24.39	AVG
11		9.0180	22.73	11.49	34.22	60.00	-25.78	QP
12		9.0180	18.91	11.49	30.40	50.00	-19.60	AVG



EUT:	Magnetic Wireless Charging Power Bank	Model Name:	PB-WL03i	
Pressure:	101kPa Phase: L		L	
est voltage:	DC 9V from adapter AC 240V/60Hz	Test mode:	Mode 1	
80.0 dBuV				
70				
60		FCCPart15 ClassB AC	Conduction(QP)	
50		FCCPart15 ClassB AC	Conduction(AVG)	
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1547	39.84	10.99	50.83	65.74	-14.91	QP
2		0.1547	28.17	10.99	39.16	55.74	-16.58	AVG
3		0.2260	34.13	10.98	45.11	62.60	-17.49	QP
4		0.2260	26.46	10.98	37.44	52.60	-15.16	AVG
5		0.3059	30.77	10.99	41.76	60.08	-18.32	QP
6		0.3059	22.75	10.99	33.74	50.08	-16.34	AVG
7		4.4378	25.26	11.46	36.72	56.00	-19.28	QP
8	*	4.4378	21.19	11.46	32.65	46.00	-13.35	AVG
9		9.5219	23.48	11.58	35.06	60.00	-24.94	QP
10		9.5219	18.57	11.58	30.15	50.00	-19.85	AVG
11		27.8900	21.16	11.77	32.93	60.00	-27.07	QP
12		27.8900	14.18	11.77	25.95	50.00	-24.05	AVG

:UT:	Magnetic Wireless Charging Power Bank	Model Name:	PB-WL03i	
Pressure:	101kPa	Phase:	N	
est voltage:	DC 9V from adapter AC 240V/60Hz	Test mode:	Mode 1	
80.0 dBuV				
70				
60		FCCPart15 ClassB AC	Conduction(QP)	
50		FCCPart15 ClassB AC	Conduction(AVG)	
40 \$ 0000000000000000000000000000000000	7	9		
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-20				

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1500	43.49	10.99	54.48	66.00	-11.52	QP
2		0.1500	30.51	10.99	41.50	56.00	-14.50	AVG
3		0.2391	33.33	10.99	44.32	62.13	-17.81	QP
4		0.2391	25.06	10.99	36.05	52.13	-16.08	AVG
5		0.5899	26.20	11.08	37.28	56.00	-18.72	QP
6		0.5899	20.48	11.08	31.56	46.00	-14.44	AVG
7		1.6338	23.65	14.61	38.26	56.00	-17.74	QP
8		1.6338	17.56	14.61	32.17	46.00	-13.83	AVG
9		4.3539	26.74	11.45	38.19	56.00	-17.81	QP
10		4.3539	20.20	11.45	31.65	46.00	-14.35	AVG
11		8.7057	22.52	11.61	34.13	60.00	-25.87	QP
12		8.7057	18.04	11.61	29.65	50.00	-20.35	AVG

5.3 Radiated emission

5.3.1 Limits

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

table below that to be removed	, a.	
Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)		
PREQUENCT (MITZ)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

The limit for radiated test was performed according to FCC PART 15C.

The tighter limit applies at the band edges.

Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)			
Below 1.705	30			
1.705 – 108	1000			
108 – 500	2000			
500 – 1000	5000			
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower			

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			



5.3.2 Test Procedures

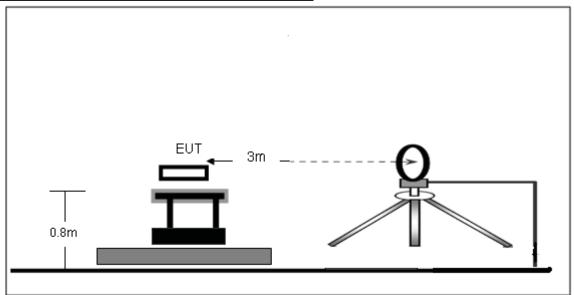
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
- h. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

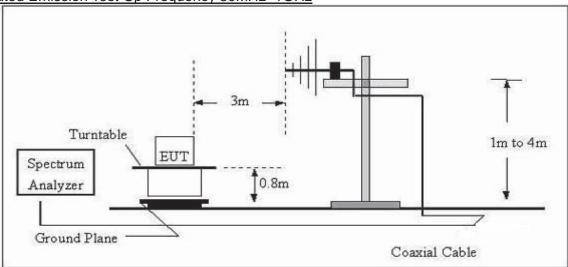


5.3.3 Test Setup

Radiated Emission Test-Up Frequency Below 30MHz



Radiated Emission Test-Up Frequency 30MHz~1GHz



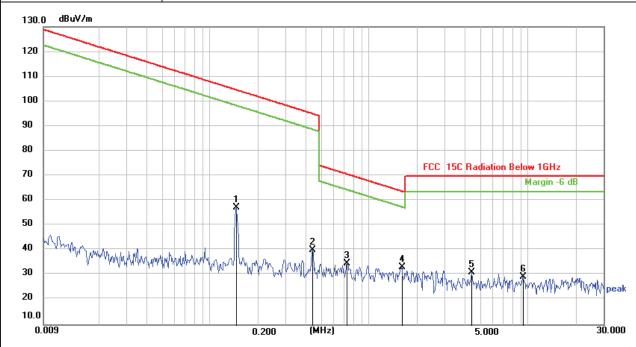
5.3.4 Test Result



Frequency range (9kHz - 30MHz)

T ()	DO 0)//	400) ((00)	
Pressure:	101kPa	Test mode:	Mode 1
	Magnetic Wireless Charging Power Bank	Model Name:	PB-WL03i

Test voltage: DC 9V from adapter AC 120V/60Hz

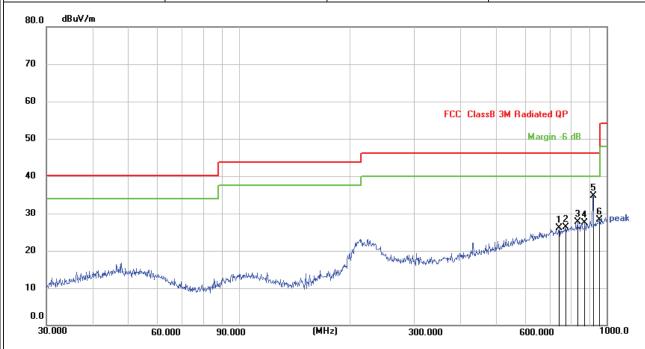


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1466	35.34	21.84	57.18	104.28	-47.10	QP
2	0.4418	18.34	21.73	40.07	94.70	-54.63	QP
3	0.7304	12.80	22.01	34.81	70.34	-35.53	QP
4 *	1.6046	10.85	22.27	33.12	63.53	-30.41	QP
5	4.4231	9.38	21.80	31.18	69.50	-38.32	QP
6	9.3288	7.73	21.55	29.28	69.50	-40.22	QP



Frequency range (30MHz - 1GHz)

1 1 1 1 ²	Magnetic Wireless Charging Power Bank	Model Name:	PB-WL03i
Pressure:		Polarization:	Vertical
Test voltage:	DC 9V from adapter AC 120V/60Hz	Test mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	742.2587	26.65	-0.60	26.05	46.00	-19.95	QP
2	774.1584	26.58	-0.33	26.25	46.00	-19.75	QP
3	833.3171	27.06	0.66	27.72	46.00	-18.28	QP
4	872.1832	26.32	1.11	27.43	46.00	-18.57	QP
5 *	916.0687	33.23	1.52	34.75	46.00	-11.25	QP
6	955.4381	25.87	2.51	28.38	46.00	-17.62	QP



UT:			Magnetic Wireless Charging Power Bank			Model Name:			F	PB-WL03i				
ressure	:		101kPa			Pola	arization:		H	Horizo	ontal			
est volta	age:		DC 9V from adapter AC 120V/60Hz			Test	mode:		ľ	Иode	1			
80.0 d	BuV/m													\neg
70														
60									FCC	Classi	3M Ra	idiated QP		
50												Margin -6	dB	
40				<u></u> _				_						4
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	768.7481	26.43	-0.35	26.08	46.00	-19.92	QP
2	807.4291	26.60	-0.06	26.54	46.00	-19.46	QP
3	860.0352	26.09	1.12	27.21	46.00	-18.79	QP
4 *	881.4067	27.22	1.12	28.34	46.00	-17.66	QP
5	919.2866	25.54	1.60	27.14	46.00	-18.86	QP
6	955.4381	24.91	2.51	27.42	46.00	-18.58	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% of the 20 dB bandwidth

VBW ≥RBW

Sweep = auto

Detector function = peak

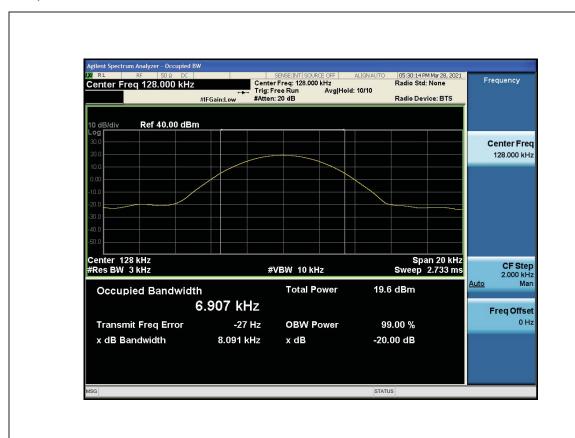
Trace = max hold

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.

5.4.2 Test result

Frequency (kHz)	20dB emission bandwidth (kHz)	99% occupied bandwidth (kHz)
128	8.091	6.907

Test plots as below:





Photographs of the Test Setup

Radiated emission







Conducted emission





Photographs of the EUT See the APPENDIX 1- EUT PHOTO. ----END OF REPORT----