

# **Test Report**

**Report No.:** MTi210525007-05E1

Date of issue: June 10, 2021

Applicant: SACKit ApS

Product name: Wireless Charging Pad

Model(s): SACKit Charge 50

FCC ID: 2AO5W-CHARGE50

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



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- 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;
- 4. This report is invalid if transferred, altered or tampered with in any form without authorization;
- 5. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.



# **Table of Contents**

1	GI	ENERAL INFORMATION	5
	1.1	FEATURE OF EQUIPMENT UNDER TEST (EUT)	5
	1.2	TEST MODE	5
	1.3	EUT TEST SETUP	5
	1.4	ANCILLARY EQUIPMENT	5
2	SU	UMMARY OF TEST RESULT	6
	2.1	OPERATION CHANNEL LIST	6
	2.2	TEST CHANNEL	6
3	TE	EST FACILITIES AND ACCREDITATIONS	7
	3.1	TEST LABORATORY	7
	3.2	ENVIRONMENTAL CONDITIONS	7
	3.3	MEASUREMENT UNCERTAINTY	7
4	110	ST OF TEST EQUIPMENT	Q
		·	
5	TE	EST RESULTS	9
	5.1	Antenna requirement	
	5	1.1 Standard requirement	
		1.2 EUT Antenna	
		CONDUCTED EMISSION	
	_	2.1 Limits	
		2.2 Test Procedures	
		2.3 Test Setup	
	_	2.4 Test Result	
	5.3	RADIATED EMISSION	
		3.1 Limits	
	5	3.2 Test Procedures	
	5	3.3 Test Setup	
	5	3.4 Test Result	17
	5.4	Occupied Bandwidth	21
	5.4	4.1 Test method	21
	5.4	4.2 Test result	21
Pŀ	нотос	GRAPHS OF THE TEST SETUP	22
Pŀ	нотос	GRAPHS OF THE EUT	24



TEST RESULT CERTIFICATION						
Applicant's name	SACKit ApS					
Address	Lyngvej 1 Dk	K-9000 Aalborg, Denmark				
Manufacturer's Name	Shenzhen Po	owerqi Technology Co., Ltd				
Address	No. 13 ofBac	1, Building A4, Block A, Fangxing Science & Tech. Park, bNan Road, Longgang Community, Longgang Street, strict, Shenzhen.				
Product description						
Product name	Wireless Cha	arging Pad				
Trademark	SACKit					
Model Name	SACKit Char	ge 50				
Serial Model	N/A					
Standards	FCC Part 15	С				
Test procedure	ANSI C63.10	)-2013				
Date of Test						
Date (s) of performance of tests May 27, 2021 ~June 10, 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	:	crndy &m				
		(Cindy Qin)				
Technical Manager	:	Leo Su				
		(Leo Su)				
Authorized Signatory	:	Tom Xue				
		(Tom Xue)				



1 GENERAL INFORMATION

### 1.1 Feature of equipment under test (EUT)

Product name:	Wireless Charging Pad		
Model name:	SACKit Charge 50		
Model difference:	N/A		
Operation frequency:	115–205 kHz		
Modulation type:	ASK		
Max output power:	15W		
Antenna type:	Coil Antenna		
Power supply:	DC 12V from adapter AC 120V/60Hz		
Input:	5V/3A, 9V/2.22A, 12V/1.67A		
Battery:	N/A		
Adapter information:	N/A		
EUT serial number:	MTi210525007-05-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



2 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	120		
High	205		

## 2.2 Test channel

Channel	Frequency (kHz)		
Middle	120		

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



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	2021/06/02	2022/06/01
MTI-E044	TRILOG Broadband Antenna	schwarab eck	VULB 9163	9163-133 8	2021/05/30	2023/05/29
MTI-E047	Amplifier	Hewlett-P ackard	8447F	3113A061 50	2021/06/02	2022/06/01
MTI-E089	ESG Vector Signal Generator	Agilent	N5182A	MY49060 455	2021/06/02	2022/06/01
MTI-E058	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051 240	2021/06/02	2022/06/01
MTI-E062	PXA Signal Analyzer	Agilent	N9030A	MY51350 296	2021/06/02	2022/06/01
MTI-E066	MXA Signal Analyzer	Agilent	N9020A	MY50143 483	2021/06/02	2022/06/01
MTI-E078	Synthesized Sweeper	Agilent	83752A	3610A019 57	2021/06/02	2022/06/01
MTI-E079	DC Power Supply	Agilent	E3632A	MY40027 695	2021/06/02	2022/06/01
MTI-E021	EMI Test Receiver	Rohde≻ hwarz	ESCS30	100210	2021/06/02	2022/06/01
MTI-E022	Pulse Limiter	Schwarzb eck	VSTD 9561-F	00679	2021/06/02	2022/06/01
MTI-E023	Artificial mains network	Schwarzb eck	NSLK 8127	NSLK 8127 #841	2021/06/02	2022/06/01
MTI-E046	Active Loop Antenna	Schwarzb eck	FMZB 1519 B	00044	2021/05/30	2023/05/29
MTI-E048	Amplifier	Agilent	8449B	3008A024 00	2021/06/02	2022/06/01
MTI-E072	Thermometer Clock Humidity Monitor	-	HTC-1	/	2021/06/02	2022/06/01
MTI-E090	Test Loop Antenna	DATETEK	LA-001	77140963 4	2021/06/02	2022/06/01

Note: the calibration interval of the above test instruments is 12 or 24 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 EUT	antenna is	s Coil Antenna.	It comply with the	standard	requirement.	In case of	replacement
of broker	n antenna t	he same antenr	na type must be u	sed.			

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



#### 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  $\mu$ 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.

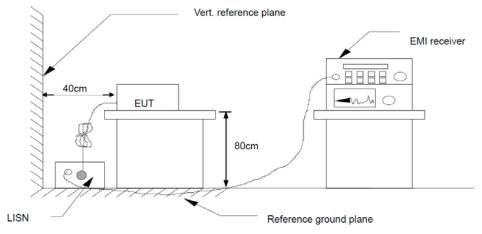
Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

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.

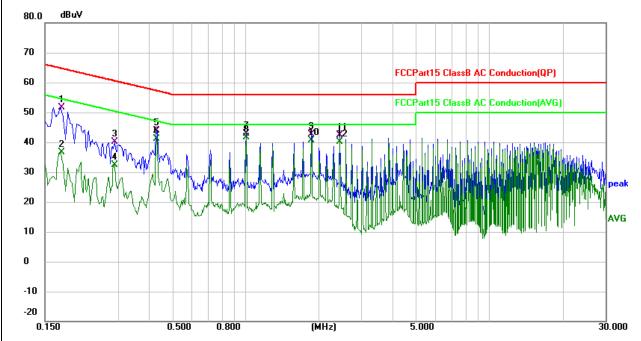
For the actual test configuration, please refer to the related Item – photographs of the test setup.

#### 5.2.3 Test Setup



#### 5.2.4 Test Result

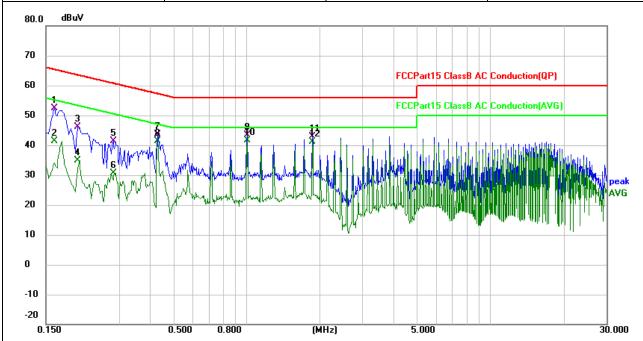
EUT:	Wireless Charging Pad	Model Name:	SACKit Charge 50
Pressure:	101kPa	Phase:	L
	DC 12V from adapter AC 120V/60Hz	Test mode:	Mode 1



No. Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1740	40.68	10.98	51.66	64.77	-13.11	QP
2	0.1740	25.57	10.98	36.55	54.77	-18.22	AVG
3	0.2900	29.14	10.99	40.13	60.52	-20.39	QP
4	0.2900	21.41	10.99	32.40	50.52	-18.12	AVG
5	0.4300	32.91	11.02	43.93	57.25	-13.32	QP
6	0.4300	30.03	11.02	41.05	47.25	-6.20	AVG
7	1.0060	29.67	13.30	42.97	56.00	-13.03	QP
8 *	1.0060	28.36	13.30	41.66	46.00	-4.34	AVG
9	1.8660	27.54	15.12	42.66	56.00	-13.34	QP
10	1.8660	25.56	15.12	40.68	46.00	-5.32	AVG
11	2.4420	26.19	16.27	42.46	56.00	-13.54	QP
12	2.4420	23.76	16.27	40.03	46.00	-5.97	AVG

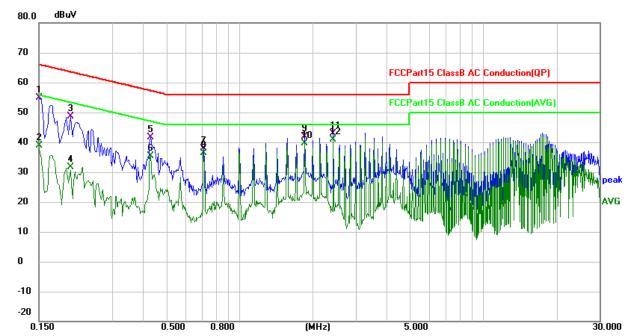


EUT:	Wireless Charging Pad	Model Name:	SACKit Charge 50
Pressure:	101kPa	Phase:	N
	DC 12V from adapter AC 120V/60Hz	Test mode:	Mode 1



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1620	41.39	10.99	52.38	65.36	-12.98	QP
2	0.1620	30.30	10.99	41.29	55.36	-14.07	AVG
3	0.2020	35.19	10.97	46.16	63.53	-17.37	QP
4	0.2020	23.86	10.97	34.83	53.53	-18.70	AVG
5	0.2819	30.49	10.99	41.48	60.76	-19.28	QP
6	0.2819	19.67	10.99	30.66	50.76	-20.10	AVG
7	0.4300	32.71	11.02	43.73	57.25	-13.52	QP
8	0.4300	30.24	11.02	41.26	47.25	-5.99	AVG
9	1.0060	30.00	13.30	43.30	56.00	-12.70	QP
10 *	1.0060	28.42	13.30	41.72	46.00	-4.28	AVG
11	1.8660	27.82	15.12	42.94	56.00	-13.06	QP
12	1.8660	25.97	15.12	41.09	46.00	-4.91	AVG

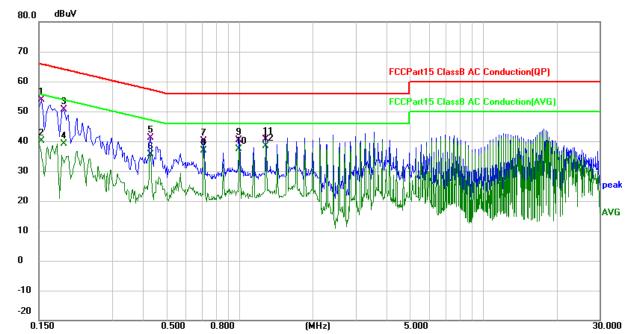
EUT:	Wireless Charging Pad	Model Name:	SACKit Charge 50
Pressure:	101kPa	Phase:	L
	DC 12V from adapter AC 240V/60Hz	Test mode:	Mode 1
II I			



No. M	lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1500	43.81	10.99	54.80	66.00	-11.20	QP
2	0.1500	27.89	10.99	38.88	56.00	-17.12	AVG
3	0.2020	37.56	10.97	48.53	63.53	-15.00	QP
4	0.2020	20.73	10.97	31.70	53.53	-21.83	AVG
5	0.4300	30.61	11.02	41.63	57.25	-15.62	QP
6	0.4300	24.37	11.02	35.39	47.25	-11.86	AVG
7	0.7140	26.88	11.12	38.00	56.00	-18.00	QP
8	0.7140	25.16	11.12	36.28	46.00	-9.72	AVG
9	1.8540	26.74	15.08	41.82	56.00	-14.18	QP
10	1.8540	24.62	15.08	39.70	46.00	-6.30	AVG
11	2.4260	26.60	16.25	42.85	56.00	-13.15	QP
12 *	2.4260	24.63	16.25	40.88	46.00	-5.12	AVG



EUT:	Wireless Charging Pad	Model Name:	SACKit Charge 50
Pressure:	101kPa	Phase:	N
	DC 12V from adapter AC 240V/60Hz	Test mode:	Mode 1



No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1539	43.00	10.94	53.94	65.79	-11.85	QP
2	0.1539	29.27	10.94	40.21	55.79	-15.58	AVG
3	0.1900	39.67	10.92	50.59	64.04	-13.45	QP
4	0.1900	28.12	10.92	39.04	54.04	-15.00	AVG
5	0.4300	30.34	10.89	41.23	57.25	-16.02	QP
6	0.4300	24.77	10.89	35.66	47.25	-11.59	AVG
7	0.7140	28.98	11.09	40.07	56.00	-15.93	QP
8	0.7140	25.78	11.09	36.87	46.00	-9.13	AVG
9	0.9980	27.14	13.21	40.35	56.00	-15.65	QP
10	0.9980	24.16	13.21	37.37	46.00	-8.63	AVG
11	1.2860	26.76	13.84	40.60	56.00	-15.40	QP
12 *	1.2860	24.42	13.84	38.26	46.00	-7.74	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.

	- C-1	
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)		
FREQUENCT (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 <sup>th</sup> 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

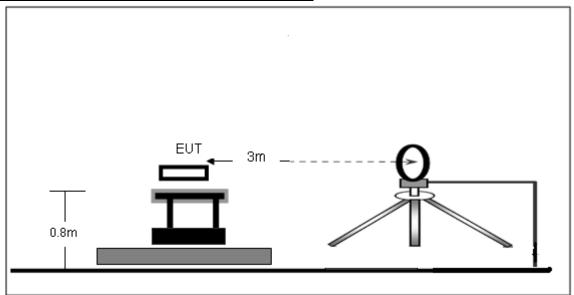
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 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.

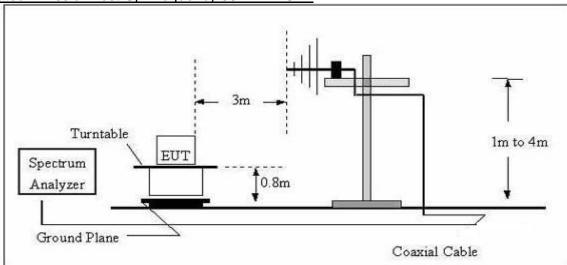


# 5.3.3 Test Setup

# Radiated Emission Test-Up Frequency Below 30MHz



# Radiated Emission Test-Up Frequency 30MHz~1GHz



# 5.3.4 Test Result



10.0 0.009 4 - Report No.: MTi210525007-05E1

5.000

30.000

## Frequency range (9kHz - 30MHz) EUT: Wireless Charging Pad Model Name: SACKit Charge 50 101kPa Pressure: Test mode: Mode 1 DC 12V from adapter AC 120V/60Hz Test voltage: 130.0 dBuV/m 120 110 100 90 80 FCC 15C Radiation Below 1GHz 70 Margin -6 dB 60 50 40 30 20

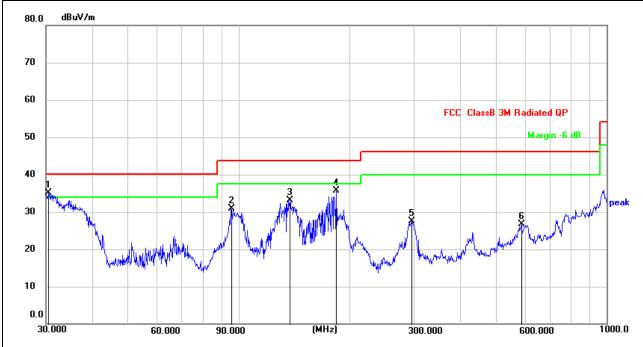
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1419	44.53	21.84	66.37	104.56	-38.19	QP
2	0.4242	21.95	21.75	43.70	95.05	-51.35	QP
3 ,	0.5681	14.59	21.77	36.36	72.52	-36.16	QP
4	0.7669	10.88	22.07	32.95	69.92	-36.97	QP
5	1.9975	10.69	22.16	32.85	69.50	-36.65	QP
6	2.9009	9.14	21.92	31.06	69.50	-38.44	QP

0.200



# Frequency range (30MHz - 1GHz)

EUT:	Wireless Charging Pad	Model Name:	SACKit Charge 50
Pressure:	101kPa	Polarization:	Vertical
II IAST VAITANA.	DC 12V 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 *	30.4238	48.92	-13.79	35.13	40.00	-4.87	QP
2	95.4270	45.23	-14.36	30.87	43.50	-12.63	QP
3	137.9028	50.39	-17.34	33.05	43.50	-10.45	QP
4	184.4898	49.77	-14.06	35.71	43.50	-7.79	QP
5	295.1469	36.92	-9.34	27.58	46.00	-18.42	QP
6	586.8437	28.70	-2.06	26.64	46.00	-19.36	QP



UT:		Wireless Charging Pad Model Name:  101kPa Polarization:  DC 12V from adapter AC 120V/60Hz Test mode:			Model Name:		SACKit Charge 50 Horizontal Mode 1				
ressure:					Polarization:						
est voltage	):										
80.0 dBuV	/m										
70											
60							FCC Clas	sB 3M Ra	adiated QI	<b>.</b>	
50									Margin -	6 dB	
40											الم
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0.0 30.000				(MI							1000.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.9940	35.81	-17.10	18.71	40.00	-21.29	QP
2	99.8777	41.02	-13.47	27.55	43.50	-15.95	QP
3 *	193.0945	43.93	-13.75	30.18	43.50	-13.32	QP
4	294.1137	40.83	-10.53	30.30	46.00	-15.70	QP
5	434.0651	30.13	-5.61	24.52	46.00	-21.48	QP
6	607.7867	31.18	-4.10	27.08	46.00	-18.92	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

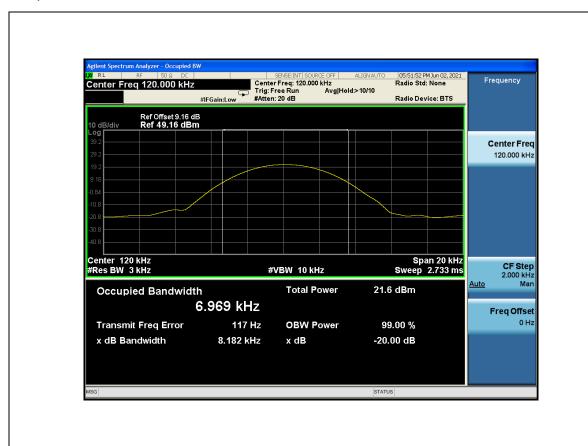
Trace = max hold

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)
120	8.182	6.969

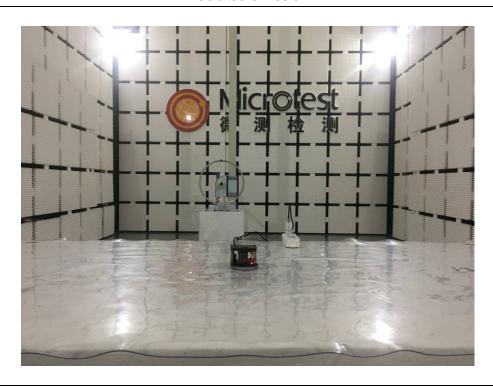
#### Test plots as below:

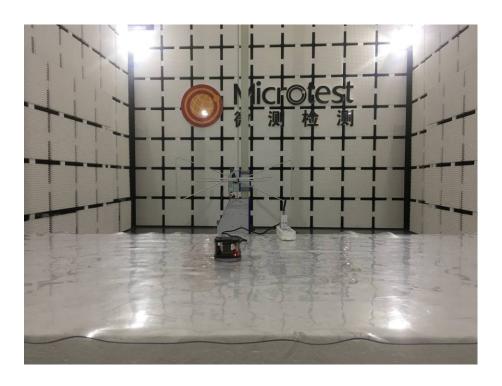




# **Photographs of the Test Setup**

## Radiated emission





Conducted emission



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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



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