

1. RF Exposure Test Report

1.1 General Information

Client Information

Applicant:	MobilePal LLC
Address of applicant:	248 Route 25A Suite 99, East Setauket, NY 11733, USA
Manufacturer:	HONGKONG ITUS CO.,LTD
Address of manufacturer:	C-520,C Bldg Tianhui Building, Donghuan 1st Road, LongHua New District, Shenzhen, Guangdong

Description of EUT

Product Name:	Wireless power bank
Trade Name:	MobilePal
Model No.:	QIWI-G2
FCC ID:	2AEUJ-QIWI-G2
Rated Voltage:	USB Input: DC 5V 2.0A
Frequency Range:	110-205kHz
Rated Voltage:	DC 5V (Wireless output)
Rated Current:	1A (Wireless output)
Rated Power:	5W (Wireless output)

1.2 Standard Applicable

According to § 1.1307(b)(1), system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

(a) Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	F/300	6
1500-100000	/	/	5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-100000	/	/	1	30

Note: f = frequency in MHz: * = Plane-wave equivalents power density

1.3 Test Conditions

Test Mode	Description	Remark
TM1	Full Load	With resistor
TM2	Zero Charge	With mobile phone
TM3	Intermediate Charge	With mobile phone
TM4	Full Charge	With mobile phone
Measurement Distance:	10 cm	
Test Standard:	KDB 680106 D01 V02	

1.4 Test Result

The following test data shall to demonstrate RF exposure compliance.

Test Mode: TM1 (with resistor)

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	30% Limit (V/m)
Top	2.55	614	184.2
Bottom	2.32	614	184.2
Side 1	1.88	614	184.2
Side 2	1.92	614	184.2
Side 3	1.71	614	184.2
Side 4	1.89	614	184.2
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	30% Limit (A/m)
Top	0.0067	1.63	0.489
Bottom	0.0061	1.63	0.489
Side 1	0.0053	1.63	0.489
Side 2	0.0059	1.63	0.489
Side 3	0.0048	1.63	0.489
Side 4	0.0044	1.63	0.489

Test Mode: TM2/TM3/TM4 (with mobile phone)

Electric Field Emissions					
Test Position	Measure Value (V/m)			Limit (A/m)	30% Limit (A/m)
	TM1	TM2	TM3		
Top	2.21	3.51	2.91	614	184.2
Bottom	2.33	3.42	2.45	614	184.2
Side 1	2.09	2.12	2.32	614	184.2
Side 2	1.95	2.19	2.15	614	184.2
Side 3	1.53	2.68	1.89	614	184.2
Side 4	2.11	2.07	2.23	614	184.2
Magnetic Field Emissions					
Test Position	Measure Value (V/m)			Limit (A/m)	30% Limit (A/m)
	TM1	TM2	TM3		
Top	0.0052	0.0078	0.0069	1.63	0.489
Bottom	0.0063	0.0077	0.0063	1.63	0.489
Side 1	0.0048	0.0067	0.0055	1.63	0.489
Side 2	0.0051	0.0065	0.0046	1.63	0.489
Side 3	0.0053	0.0053	0.0042	1.63	0.489
Side 4	0.0042	0.0069	0.0053	1.63	0.489

1.5 Test Photos

