# 1. RF Exposure Test Report

### 1.1 General Information

**Client Information** 

Applicant: mophie LLC

Address of applicant: 6244 Technology Ave. Kalamazoo, MI 49009 U.S.A.

Manufacturer: mophie LLC

Address of manufacturer: 6244 Technology Ave. Kalamazoo, MI 49009 U.S.A.

**Description of EUT** 

Product Name: mophie wireless charging base

Trade Name: mophie

Model No.: WRLS-DESK

FCC ID: 2ACWB-CHRGDESK IC: 10465A-CHRGDESK

HVIN: DESK2

Rated Voltage: USB Input: DC 5V 1.8A

Frequency Range: 112-205kHz

Modulation Type: ASK

Antenna Type: Coil Antenna

Rated Voltage: DC 5V (Wireless output)
Rated Current: 1A (Wireless output)

Rated Power: Less than 5 watts (Wireless output)

# 1.2 Standard Applicable

According to § 1.1310 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.

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	magnetic nera strength	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
	(A) Limits for O	occupational/Controlled Expo	osure	
0.3-3.0	614	1.63	*100	6
3.0-30	1842/	4.89/f	*900/f <sup>2</sup>	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure	
0.3-1.34	614	1.63	*100	30
1.34-30	824/	2.19/f	*180/f <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz \* = Plane-wave equivalent power density

## 1.3 Test Conditions

<b>Test Mode</b>	Description	Remark	
TM1	Full Load	With resistor	
TM2	Full Charge	With mobile phone	
Measurement Distance:	10 cm		
Test Standard: KDB 680106 D01 V0		06 D01 V02	

# 1.4 Test Result

The following test data shall to demonstrate RF exposure compliance.

Test Mode: TM1 (with resistor)

	Electric Field Emiss	sions	
Test Position	Measure Value (V/m)	Limit(V/m)	30% Limit (V/m)
Тор	2.26	614	184.2
Bottom	2.06	614	184.2
Side 1	1.36	614	184.2
Side 2	1.45	614	184.2
Side 3	1.62	614	184.2
Side 4	1.69	614	184.2
	Magnetic Field Emis	ssions	
<b>Test Position</b>	Measure Value (A/m)	Limit(A/m)	30% Limit (A/m)
Тор	0.0068	1.63	0.489
Bottom	0.0059	1.63	0.489
Side 1	0.0061	1.63	0.489
Side 2	0.0057	1.63	0.489
Side 3	0.0064	1.63	0.489
Side 4	0.0063	1.63	0.489

Test Mode: TM2 (with mobile phone)

	Electric Field Emiss	sions	
<b>Test Position</b>	Measure Value (V/m)	Limit(V/m)	30% Limit (V/m
Тор	2.29	614	184.2
Bottom	2.11	614	184.2
Side 1	2.26	614	184.2
Side 2	2.01	614	184.2
Side 3	2.15	614	184.2
Side 4	1.91	614	184.2
	Magnetic Field Emis	ssions	1
Test Position	Measure Value (A/m)	Limit(A/m)	
	Wieasure value (A/III)	Limit(A/m)	30% Limit (A/m
Тор	0.0059	1.63	30% Limit (A/n 0.489
+			,
Тор	0.0059	1.63	0.489
Top Bottom	0.0059 0.0062	1.63 1.63	0.489 0.489
Top Bottom Side 1	0.0059 0.0062 0.0046	1.63 1.63 1.63	0.489 0.489 0.489

# 1.5 Test Photos

