









RF Exposure Evaluation Declaration

Product Name: Mi Drone

Model No. : FXQ02FM

FCC ID : 2AG53FXQ02FM

Applicant: BEIJING FIMI TECHNOLOGY LIMITED

Address: No.348, Floor3, 1#Complex Building, Yongtaiyuan

Jia, Qinghe, Haidian District, Beijing, China

Date of Receipt: Feb. 13, 2017

Test Date Feb. 13, 2017~ Feb. 23, 2017

Issued Date : Feb. 27, 2017

Report No. : 1722041R-RF-US-P20V01

Report Version: V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF, CNAS or any agency of the government. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd. Corporation.



Test Report Certification

Issued Date: Feb. 27, 2017

Report No.: 1722041R-RF-US-P20V01



Product Name : Mi Drone

Applicant : BEIJING FIMI TECHNOLOGY LIMITED

Address : No.348,Floor3,1#Complex Building,Yongtaiyuan

Jia, Qinghe, Haidian District, Beijing, China

Manufacturer : BEIJING FIMI TECHNOLOGY LIMITED

Address : No.348,Floor3,1#Complex Building,Yongtaiyuan

Jia, Qinghe, Haidian District, Beijing, China

Model No. : FXQ02M

FCC ID : 2AG53FXQ02FM

EUT Voltage : DC 15.2V

Applicable Standard : KDB 447498D01V06

FCC Part1.1310

Test Result : Complied

Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.

Corporation

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FCC Registration Number: 800392

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Reviewed By :

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Approved By

(Engineering Manager : Harry Zhao)



History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1722041R-RF-US-P20V01	V1.0	Initial Issued Report	Feb. 27, 2017



1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2)	Average Time (Minutes)						
(A) Limits for C	(A) Limits for Occupational/ Control Exposures									
300-1500			F/300	6						
1500-100,000			5	6						
(B) Limits for C	(B) Limits for General Population/ Uncontrolled Exposures									
300-1500			F/1500	6						
1500-100,000			1	30						

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*pi*r2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18 and 78% RH.

1.3. Test Result of RF Exposure Evaluation

Product	:	Mi Drone										
Test Item	:	RF Exposure Evaluation										
Test Site	:	AC-6										
Antenna Model		N/A										
Antenna Manufacturer		N/A										
Antenna Delivery			1*TX+1	*RX	(
Antenna Technology	⊠ SISO											
] мімо		Basic methodology with NANT transmit antennas				antennas				
					Sectorized antenna systems							
					Cross-polarized antennas							
					L	Unequal antenna gains, with equal transmit power						
					S	Spatial Multiplexing						
					С	Cyclic Delay Diversity (CDD)						
Antenna Type		PC	B Antenr	na								

	Antenna Information							
No.				Ant Gain/ Directional Gain				
				(dBi)				
			Antenna 0	4				
	⊠ siso	\boxtimes	Antenna 1	4				
			Antenna 2	N/A				



Output Power into Antenna & RF Exposure Evaluation Distance:

Standlone modes

Test Mode	Frequency Band (MHz)	Maximum Output Power to Antenna (dBm)	Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Power Density Limit at R = 20 cm (mW/cm2)
802.11a	5180 ~ 5825 MHz	22.78	4	0.0948	1.0

Note: The simultaneous transmission power density is 0.0948mW/cm2 for Mi Drone without any other radio equipment.

The End