RF Exposure evaluation report

Applicant:	Aukey Technology Co., Ltd
Address of Applicant:	No. 102, Bldg. P09, Electronics Trade Center Huanan City, Pinghu Town, Longgang, Shenzhen, Guangdong, China
Manufacturer:	Aukey Technology Co., Ltd
Address of Manufacturer:	No. 102, Bldg. P09, Electronics Trade Center Huanan City, Pinghu Town, Longgang, Shenzhen, Guangdong, China
Product name:	USB Receiver
Model:	GM-F5A
Rating(s):	DC 5V
Trademark:	AUKEY
Standards:	47 CFR Part 1.1310 (2013) 47 CFR Part 2.1091 (2013) KDB447498D01 General RF Exposure Guidance v06
FCC ID:	2ATIH-GMF5A
Date of Receipt:	2020-06-01
Date of Test:	2020-06-01~2020-06-19
Date of Issue:	2020-06-19
Test Result	**Pass***

* In the configuration tested, the test item complied with the standards specified above.

Authorized for issue by:

Test by:

Jun 19, 2020 Chivas Zeng Chivas

Project Engineer

Date Name/Position Signature

Reviewed by:

Jun 19, 2020 Pauler Li Pauler Li

Project Manager

Date Name/Position Signature

Possible test case verdicts:

test case does not apply to the test object ..:	N/A
test object does meet the requirement .....:	P (Pass)
test object does not meet the requirement ..:	F (Fail)

Testing Laboratory information:

Testing Laboratory Name ..... :		ITL Co., Ltd
Address.....:		No. 8, Jinqianling Street 5, Huangjiang Town, Dongguan, Guangdong, China.
Testing location	:	Same as above
Tel	:	0086-769-39001678
Fax	:	0086-20-62824387
E-mail	:	itl@i-testlab.com

General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report would be invalid test report without all the signatures of testing technician and approver.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

General product information:

There's a computer that charges the receiver.

1 Contents

2 General Information

2.1 Client Information

Applicant: Aukey Technology Co., Ltd

Address of Applicant: No. 102, Bldg. P09, Electronics Trade Center Huanan City, Pinghu Town, Longgang, Shenzhen, Guangdong, China

2.2 General Description of E.U.T.

Name: USB Receiver

Model No.: GM-F5A

Trade Mark: AUKEY

Operating Frequency: 2403MHz-2480MHz

Channels:

Working Frequency of Each Channel:			
channel	Frequency	channel	Frequency
1	2403	9	2445
2	2409	10	2450
3	2414	11	2455
4	2419	12	2461
5	2424	13	2465
6	2429	14	2470
7	2435	15	2475
8	2441	16	2480

Type of Modulation: GFSK

Antenna Reference: PCB antenna with -2.39 dBi peak Gain

Function: USB Receiver

2.3 Details of E.U.T.

EUT Power Supply: DC 5V

Test mode for WIFI: The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List	
Test Mode	Remark
TM1	2403MHz, 2441MHz, 2480MHz,

2.4 Description of Support Units

The EUT has been tested as an independent unit for fixed frequency by testing lab.

2.5 Test Location

All tests were performed at:

ITL Co., Ltd
No. 8, Jinqianling Street 5, Huangjiang Town, Dongguan, Guangdong, China.
0086-769-39001678
itl@i-testlab.com

No tests were sub-contracted.

2.6 Deviation from Standards

Biconical and log periodic antennas were used instead of dipole antennas.

2.7 Abnormalities from Standard Conditions

None.

2.8 Other Information Requested by the Customer

None.

2.9 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS(Lab code:L9342)**
- **FCC (Registration No.: 239076)**
- **IC (Registration NO.:CN0025)**

3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 and FCC 1.1310 Radiofrequency radiation exposure limits for General Population/Uncontrolled Exposure.

3.1.2 EUT RF Exposure

The Max Output Power is -4.22 dBm in channel (2. 441GHz);

Antenna gain: -2.39dBi

R=20cm

$S=PG/(4\pi R^2)=0.00004\ mW/cm^2<1(limits)mW/cm^2$