REPORT No. : SZ15100076S04

RF EXPOSURE EVALUATION REPORT

APPLICANT	:	FXT Technology Co.,Limited
PRODUCT NAME	:	5.8G AV Transmitter
MODEL NAME	:	FX799T-L,FX796T-L
TRADE NAME	:	FXT
BRAND NAME	:	FXT
FCC ID	:	2AGB8-002
STANDARD(S)	:	47CFR 2.1091 KDB 447498 D01 General RF Exposure Guidance v05r02
ISSUE DATE	:	2015-12-10

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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DIRECTORY

Change History		
Issue	Date	Reason for change
1.0	2015-12-10	First edition

TEST REPORT DECLARATION

Applicant	FXT Technology Co.,Limited
Applicant Address	Room1023, Tongsheng Technology building, Huahui Road, Shanghenglang, Dalang,Longhua District, Shenzhen, China
Manufacturer	FXT Technology Co.,Limited
Manufacturer Address	Room1023, Tongsheng Technology building, Huahui Road, Shanghenglang, Dalang,Longhua District, Shenzhen, China
Product Name	5.8G AV Transmitter
Model Name	FX799T-L,FX796T-L
Brand Name	FXT
HW Version	FX799T REV(V1.3) FX799T REV(V1.4)
SW Version	N/A
Test Standards	47CFR 2.1091; KDB 447498 D01 General RF Exposure Guidance v05r02
Issue Date	2015-12-10
SAR Evaluation	Not Required

Tested by : Liu Jun
Liu Jun

Reviewed by : Zhu Zhan
Zhu Zhan

Approved by : Zeng Dexin
Zeng Dexin

1. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

1.1. Identification of Applicant

Company Name:	FXT Technology Co.,Limited
Address:	Room1023, Tongsheng Technology building, Huahui Road, Shanghenglang, Dalang,Longhua District, Shenzhen, China

1.2. Identification of Manufacturer

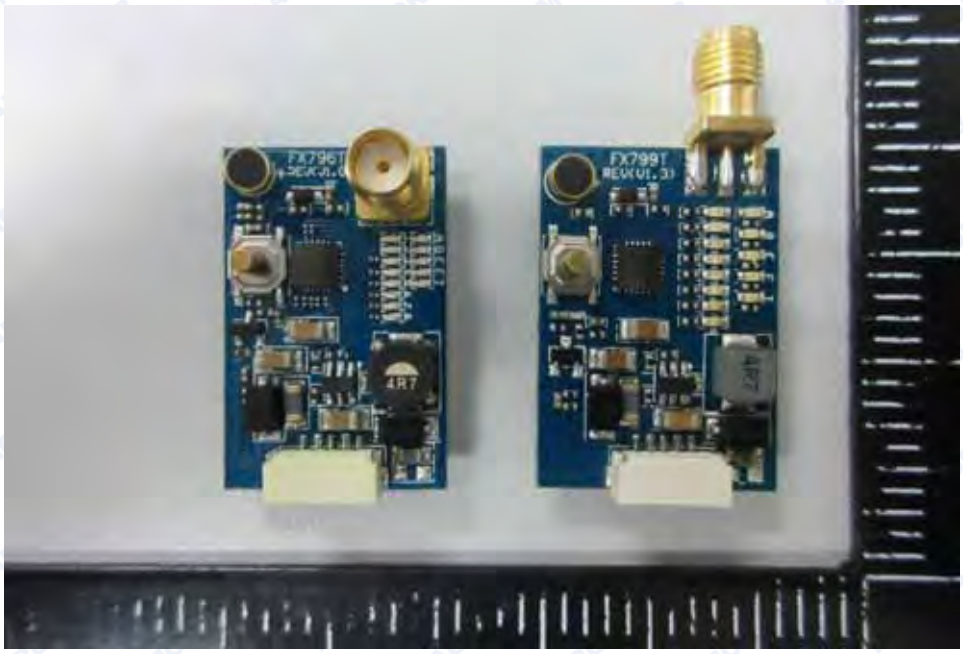
Company Name:	FXT Technology Co.,Limited
Address:	Room1023, Tongsheng Technology building, Huahui Road, Shanghenglang, Dalang,Longhua District, Shenzhen, China

1.3. Equipment Under Test (EUT)

Model Name:	FX799T-L,FX796T-L
Trade Name:	FXT
Brand Name:	FXT
Hardware Version:	FX799T REV(V1.3) FX799T REV(V1.4)
Software Version:	N/A
Frequency Bands:	5.725GHz-5.875GHz
Modulation Mode:	FM
Antenna type:	PCB Antenna
Development Stage:	Identical prototype

1.3.1. Photographs of the EUT

1. EUT front view



2. EUT rear view

1.3.2. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
1#	FX799T REV(V1.3) FX799T REV(V1.4)	N/A

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	**47 CFR§2.1091**	Radiofrequency Radiation Exposure Evaluation: Mobile devices
2	**KDB 447498 D01v05r02**	General RF Exposure Guidance

2. DEVICE CATEGORY AND RF EXPOSURE LIMIT

Per user manual, this device is a 5.8G AV Transmitter Moduel. Based on 47CFR 2.1091, this device belongs to mobile device category with General Population/Uncontrolled exposure.

Mobile Devices:

47CFR 2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. In this context, the term “fixed location” means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 centimeter separation requirement.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.

3. TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*($180/f^2$)	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

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

4. MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER

1. 5.8G Average output power

Band	Frequency (MHz)	Output Power(dBm)
		GFSK
5.8G-FR1	5740	11.15
	5800	11.00
	5860	10.81

Band	Frequency (MHz)	Output Power(dBm)
		GFSK
5.8G-FR3	5740	10.40
	5800	11.06
	5860	11.14

Band	Frequency (MHz)	Output Power(dBm)
		GFSK
5.8G-FR4	5740	11.14
	5800	10.97
	5860	10.89

Band	Frequency (MHz)	Output Power(dBm)
		GFSK
5.8G-FR5	5740	11.17
	5800	11.02
	5860	10.77

4. RF EXPOSURE EVALUATION

Standalone transmission MPE evaluation

Bands	Frequency (MHz)	Antenna Gain (dBi)	Conducted Average Power (dBm)	Time-averaging EIRP (mW)	Power density (mW/cm²)	Limit for MPE (mW/cm²)
5.8G-FR5	5733	2	11.17	20.75	0.004	1.0

Note:

1. MPE calculation method

$$\text{Power Density} = EIRP/4\pi R^2$$

Where: $EIRP = P \cdot G$

P = Peak out power

G = Antenna gain

R = Separation distance (20cm)

ANNEX A GENERAL INFORMATION

1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

***** END OF REPORT *****