

# MPE REPORT

FCC ID: XBD-BT4352IS

Date of issue: Apr. 04, 2019

Report Number: MTi190319E063

Sample Description: BluStream

Model(s): BT52IS Rev C

Applicant: AAMP of Florida, Inc. dba AAMP Global

Address: 15500 Lightwave Dr. Suite 202 Clearwater, Florida 33760

**United States** 

Date of Test: Mar. 13, 2019 - Apr. 04, 2019

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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TEST RESULT CERTIFICATION				
Applicant's name: AAMP of Florida, Inc. dba AAMP Global				
Address:	15500 Lightwave Dr. Suite 202 Clearwater, Florida 33760 United States			
Manufacture's Name:	Skytech creations limited			
Address:	Unit 507, 5/F., IC Development Centre, No.6 Science Park West Avenue, Shatin, Hong Kong			
Product name:	BluStream			
Trademark:	iSimple			
Model and/or type reference:	BT52IS Rev C			
Serial Model:	BTHFS520 Rev C			
RF Exposure Procedures:	KDB 447498 D01 v06			

This device described above has been tested by Shenzhen Microtest Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Tested by:	Demyma			
	Demi Mu	Apr. 04, 2019		
Reviewed by:	13 lue. Zherg			
	Blue Zheng	Apr. 04, 2019		
Approved by:	Smithen			
	Smith Chen	Apr. 04, 2019		

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### RF EXPOSURE EVALUATION

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/cm <sup>2</sup> )	Averaging time (minutes)	
	(A) Limits for 0	ccupational/Controlled Exp	osure		
0.3-3.0	614	1.63	*100	6	
3.0-30	1842/	4.89/1	*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/	2.19/1	*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

### MPE Calculation Method

Friis transmission formula: Pd= (Pout\*G)\ (4\*pi\*R2)

Where

Pd= Power density in mW/cm2

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1415926

R= distance between observation point and center of the radiator in cm (20cm)

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

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## **Measurement Result**

BT:

Operation Frequency: BT GFSK/π/4-DQPSK/8DPSK: 2402-2480MHz,

Power density limited: 1mW/ cm<sup>2</sup>

Antenna Type: BT Antenna: PCB Antenna;

BT antenna gain: 0dBi

R=20cm

mW=10^(dBm/10)

antenna gain Numeric=10^(dBi/10)= 10^(0/10)=1.00

Channel Freq. (MHz) modula		conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
	modulation	nodulation (dBm)		tune-up power		Gain		(mW/cm2)	(m)M/am2)
				(dBm)	(mW)	(dBi)	Numeric	(IIIVV/CIIIZ )	(mW/cm2)
2402	GFSK	-1.868	-2±1	-1	0.794	0	1.00	0.0002	1
2441		-2.060	-2±1	-1	0.794	0	1.00	0.0002	1
2480		-2.051	-2±1	-1	0.794	0	1.00	0.0002	1
2402	π/4-DQPSK	-2.242	-2±1	-1	0.794	0	1.00	0.0002	1
2441		-2.764	-2±1	-1	0.794	0	1.00	0.0002	1
2480		-1.843	-2±1	-1	0.794	0	1.00	0.0002	1
2402	8DPSK	-2.125	-2±1	-1	0.794	0	1.00	0.0002	1
2441		-2.169	-2±1	-1	0.794	0	1.00	0.0002	1
2480		-1.747	-2±1	-1	0.794	0	1.00	0.0002	1

#### **Conclusion:**

For the max result: 0.0002≤ 1.0 for 1g SAR, No SAR is required.

----END OF REPORT----

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