



REPORT No. : SZ16100045S02

RF EXPOSURE EVALUATION REPORT

APPLICANT : Beijing Beast Technology Co.,Ltd.

PRODUCT NAME : Speedforce

MODEL NAME : S603

TRADE NAME : SPEEDX

BRAND NAME : SPEEDX

FCC ID : 2AHU3SPD-0000S603

STANDARD(S) : 47CFR 2.1093
KDB 447498 D01 General RF Exposure
Guidance v06

ISSUE DATE : 2016-12-26



SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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Change History		
Issue	Date	Reason for change
1.0	2016-12-21	First edition



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TEST REPORT DECLARATION

Applicant	Beijing Beast Technology Co.,Ltd.
Applicant Address	Room 2508 Building B,Tower 2 Wangjing SOHO,Chaoyang District,Beijing,China
Manufacturer	Beijing Beast Technology Co.,Ltd.
Manufacturer Address	Room 2508 Building B,Tower 2 Wangjing SOHO,Chaoyang District,Beijing,China
Product Name	Speedforce
Model Name	S603
Brand Name	SPEEDX
HW Version	V11
SW Version	N/A
Test Standards	47CFR 2.1093; KDB 447498 D01 General RF Exposure Guidance v06
Issue Date	2016-12-26
SAR Evaluation	Not Required

Tested by : Peng Fuwei
Peng Fuwei

Reviewed by : Liu Jun
Liu Jun

Approved by : Peng Huarui
Peng Huarui



1. TECHNICAL INFORMATION

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

1.1. Identification of Applicant

Company Name:	Beijing Beast Technology Co.,Ltd.
Address:	Room 2508 Building B,Tower 2 Wangjing SOHO,Chaoyang District,Beijing,China

1.2. Identification of Manufacturer

Company Name:	Beijing Beast Technology Co.,Ltd.
Address:	Room 2508 Building B,Tower 2 Wangjing SOHO,Chaoyang District,Beijing,China

1.3. Equipment Under Test (EUT)

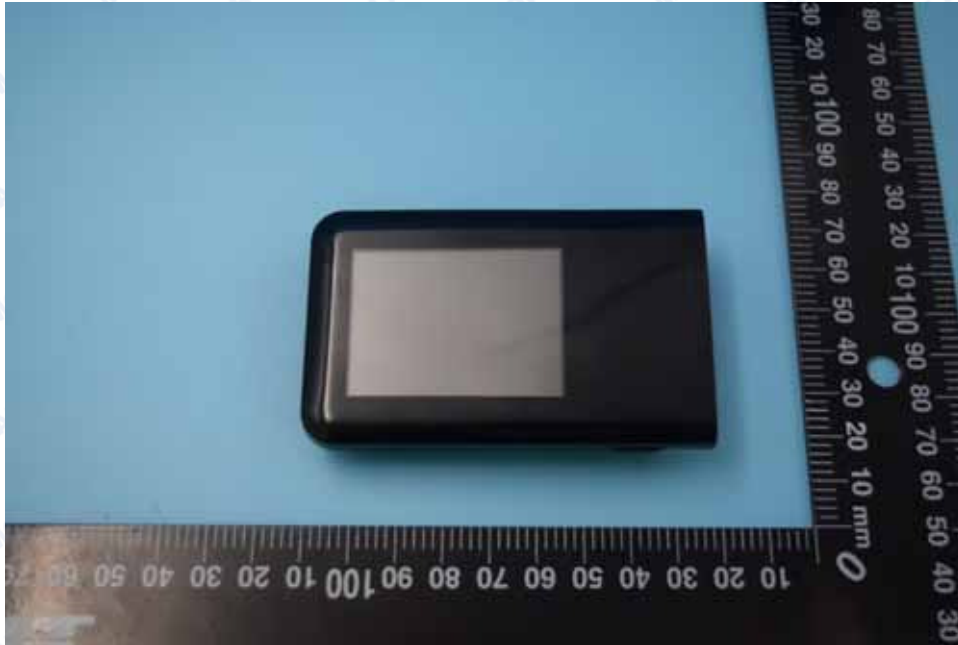
Model Name:	S603
Trade Name:	SPEEDX
Brand Name:	SPEEDX
Hardware Version:	V11
Software Version:	N/A
Frequency Bands:	Bluetooth 4.0:2402-2480MHz
Modulation Mode:	Bluetooth 4.0:GFSK;
Antenna type:	Ceramic Antenna
Development Stage:	Identical prototype



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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#	V11	N/A

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	47 CFR§2.1093	Radiofrequency Radiation Exposure Evaluation: portable devices
2	KDB 447498 D01v06	General RF Exposure Guidance



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2. DEVICE CATEGORY AND RF EXPOSURE



3. MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER

Bluetooth 4.0 Conducted Average Output Power

Band	Channel	Frequency (MHz)	Output Power(dBm)
			GFSK
BT	0	2402	-4.213
	19	2440	-7.198
	39	2480	-9.865

4. RF EXPOSURE EVALUATION

The device only incorporates a Bluetooth transmitter, so standalone SAR evaluation is required for Bluetooth and simultaneous SAR is not required.

Standalone transmission SAR evaluation

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation Distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$

The maximum tune-up limit power is **0.38mW @ 2.402GHz**

When Bluetooth Watch is worn on the hand, so use **5mm** as the most conservative minimum test separation distance,

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 0.12 \leq 3.0$$

So SAR evaluation is not required for this device.



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ANNEX 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
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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 *****