

APPLICANT : PAX Technology Limited

EQUIPMENT: mPOS

BRAND NAME : PAX

MODEL NAME : D180

MARKETING NAME : D180

FCC ID : V5PD180BT

STANDARD : 47 CFR Part 2.1093

FCC KDB 447498 D01 v05r02

We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093, and pass the limit. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Deputy Manager

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Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Report Issued Date : Jun. 11, 2014

Report Version : Rev. 01

Report No.: FA450402



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA450402	Rev. 01	Initial issue of report	Jun. 11, 2014

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1. Administration Data

Testing Laboratory				
Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.			
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.			
	TEL: +86-755- 3320-2398			

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Applicant			
Company Name	PAX Technology Limited		
Address	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong		

Manufacturer			
Company Name	PAX Computer Technology (Shenzhen) Co., Ltd.		
	4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.		

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2. General Information

2.1 Description of Device Under Test (DUT)

Product Feature & Specification			
DUT Type	mPOS		
Brand Name	PAX		
Model Name	D180		
Marketing Name	D180		
FCC ID	V5PD180BT		
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz		
Mode	Bluetooth v3.0+EDR		
Antenna Type	Monopole Antenna		
HW Version	D180-xxx-xx3-0xxx		
SW Version	V1.04		
DUT Stage	Identical Prototype		

Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

3. Maximum RF output power among production units

	Bluetooth		
Mode / Band	1Mbps	2Mbps	3Mbps
	(GFSK)	π/4-DQPSK	(8-DPSK)
2.4GHz Bluetooth	-7.5	-8	-7.5

3.1 Applied Standard

47 CFR Part 2.1093

FCC KDB 447498 D01 v05r02

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4. RF Exposure Evaluation

Bluetooth	mW	Separation	Frequency	Exclusion
Max Power (dBm)		Distance (mm)	(GHz)	Thresholds
-7.5	0.20	0	2.48	0.06

Note:

Per KDB 447498 D01v05r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

- · f(GHz) is the RF channel transmit frequency in GHz
- · Power and distance are rounded to the nearest mW and mm before calculation
- · The result is rounded to one decimal place for comparison

Conclusion: Per KDB 447498 D01v05r02, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.06 which is <= 3, SAR testing is not required.

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