



RF Exposure Evaluation Report

APPLICANT : PAX Technology Limited
EQUIPMENT : mPOS
BRAND NAME : PAX
MODEL NAME : D180
MARKETING NAME : D180
FCC ID : V5PD180SRF
STANDARD : 47 CFR Part 2.1093
FCC KDB 447498 D01 v06

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.

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA5N1110	Rev. 01	Initial issue of report	Dec. 08, 2015

**1. Administration Data**

Testing Laboratory	
Test Site	SPORTON International (SHENZHEN) Inc.
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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.
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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	V5PD180SRF
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz NFC:13.56 MHz
Mode	• Bluetooth v2.1 + EDR, Bluetooth v4.0 LE • NFC: ASK
Antenna Type	PCB Antenna
Antenna Gain	-5.00dBi
HW Version	D180-xxx-xx3-1xxx
SW Version	3.02.xx
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

Mode / Band	Bluetooth (Unit: dBm)			
	1Mbps	2Mbps	3Mbps	BT4.0-LE
	(GFSK)	$\pi/4$ -DQPSK	(8-DPSK)	(GFSK)
2.4GHz Bluetooth	6.00	5.00	5.00	4.50



4. RF Exposure Evaluation

Bluetooth Max Power (dBm)	mW	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds
6.0	4	5	2.48	1.3

Note:

1. Per KDB 447498 D01v06 the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 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 D01v06, 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 1.3 which is ≤ 3, SAR testing is not required.