

## RF EXPOSURE REPORT

Applicant	Asian Express Holdings Limited
Address	RM1702, Sino Centre, 582-592 Nathan Road, Mongkok, Kowloon, Hong Kong.

Asian Express Holdings Limited
RM1702, Sino Centre, 582-592 Nathan Road, Mongkok, Kowloon, Hong Kong.
X-Wing (controller)
Speed Bike(controller), Tie Fighter(controller)
PROPEL
SW-1977
SW-1983, SW-0327, see item 1
Nov. 17, 2016 ~ Nov. 21, 2016

- **KDB 447498 D01**
- **☐** IEEE C95.1

#### CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

	I
Tested by Breeze Jiang	Approved by Glyn He
Project Engineer / EMC Department	Supervisor / EMC Department

greene

Date: Nov. 28, 2016

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification



# **Table of Contents**

RELE	ASE CONTROL RECORD	. 3
1.	CERTIFICATION	. 4
	RF EXPOSURE DEFINE	
3.	CLASSIFICATION	5
	SAR TEST EXCLUSION THRESHOLDS	

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080

Email: <a href="mailto:customerservice.dg@cn.bureauveritas.com">customerservice.dg@cn.bureauveritas.com</a>



## **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS161117N050-3	Original release	Nov. 28, 2016

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080

Email: customerservice.dg@cn.bureauveritas.com

Page 3 of 6 Report Version 1



### 1. CERTIFICATION

FCC ID:	VLESW-1977T
PRODUCT:	X-Wing (controller)
ADDITIONAL PRODUCT:	Speed Bike(controller), Tie Fighter(controller)
BRAND NAME:	PROPEL
MODEL NO.:	SW-1977
ADDITIONAL NO.:	SW-1983, SW-0327
TEST SAMPLE:	Engineering Sample
APPLICANT:	Asian Express Holdings Limited
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

Note: Additional models SW-1983, SW-0327 are identical with the test model SW-1977 except the model number for marketing purpose.

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080

Email: customerservice.dg@cn.bureauveritas.com



Test Report No.: FS161117N050-3

### 2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

1) 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:

[(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  $\le 7.5$  for 10-g extremity SAR,16 where

- > 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

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
- a) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)-( f(MHz)/150)] mW, at 100MHz to 1500 MHz
- b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
  - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(MHz))]$  for test separation distances > 50 mm and < 200 mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

#### 3. CLASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as **Portable Device**.

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080

Email: customerservice.dg@cn.bureauveritas.com

Page 5 of 6 Report Version 1



Test Report No.: FS161117N050-3

### 4. SAR TEST EXCLUSION THRESHOLDS

According to the KDB 447498:

The maximun average output power specified is -11.67dBm = 0.068mW

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.480) mW
- = 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to **comply** with SAR requirement without testing.

Email: <u>customerservice.dg@cn.bureauveritas.com</u>

Tel: +86 769 8593 5656

Fax: +86 769 8593 1080

Page 6 of 6