

RF EXPOSURE REPORT

REPORT NO.: SA120927E01

- MODEL NO.: Flex AP, MAX, Surf Pro, AP One, AP Pro, Device Connector, Express, Balance, Pismo 731
 - FCC ID: U8G-P1371
 - **RECEIVED:** Sep. 27, 2012
 - **TESTED:** Jan. 30, 2013
 - **ISSUED:** Feb. 20, 2013
- **APPLICANT:** Pismo Labs Technology Limited

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- **ISSUED BY:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
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RELEASE CONTROL RECORD

ISSUE NO.	DATE ISSUED	
SA120927E01	Original release	Feb. 20, 2013



1. CERTIFICATION

PRODUCT:	Pepwave / Peplink / Pismo Wireless Product
BRAND NAME:	Pepwave, Peplink, Pismo
MODEL NO.:	Flex AP, MAX, Surf Pro, AP One, AP Pro, Device Connector, Express, Balance, Pismo 731
TEST SAMPLE:	ENGINEERING SAMPLE
APPLICANT:	Pismo Labs Technology Limited
TESTED DATE:	Jan. 30, 2013
STANDARDS:	FCC Part 2 (Section 2.1091)
	FCC OET Bulletin 65, Supplement C (01-01)
	IEEE C95.1

The above equipment (Model: Flex AP) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY	:_	(Claire Kuan, Specialist)	,	DATE:	Feb. 20, 2013
APPROVED BY	:_	(May Chen, Deputy Manager)	,	DATE:	Feb. 20, 2013



2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)							
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE									
300-1500			F/1500	30					
1500-100,000			1.0	30					

F = Frequency in MHz

3. MPE CALCULATION FORMULA

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

where

 $Pd = power density in mW/cm^2$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

pi = 3.1416

r = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 31cm away from the body of the user. So, this device is classified as **Mobile Device**.



5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

For WiFi :

Channel	Channel Frequency (MHz)	Output Power to Antenna (mW) ANTENN GAIN (dBi)		DISTANCE (cm)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)
6	2437	677.868	10	31	0.56132	1.00

For LTE module: FCC ID (N7NMC7700)

Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)
128	824.2	1734.0	1.5	31	0.20282	0.5495

Note: Limit of Electric field=F/1500

CONCLUSION:

The WiFi and LTE module can transmit simultaneously, the formula of calculated the MPE is:

$CPD_1 / LPD_1 + CPD_2 / LPD_2 + \dots etc. < 1$

CPD = Calculation power density

LPD = Limit of power density

Therefore, the worst-case situation is 0.56132 / 1 + 0.20282 / 0.5495 = 0.930, which is less than "1". This confirmed that the device comply with FCC 1.1310 MPE limit.

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