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# RF EXPOSURE REPORT

**REPORT NO.:** SA130918C09

**MODEL NO.:** RF10

**FCC ID:** IR5RF10

**RECEIVED:** Sep. 18, 2013

**ISSUED:** Nov. 14, 2013

**APPLICANT:** MilDef Crete Inc.

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New Taipei City, Taiwan

**ISSUED BY:** Bureau Veritas Consumer Products Services  
(H.K.) Ltd., Taoyuan Branch

**LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,  
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**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei  
Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130918C09	Original release	Nov. 14, 2013



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## 1. CERTIFICATION

**PRODUCT:** Notebook computer  
**MODEL NO.:** RF10  
**BRAND:** MilDef Crete Inc.  
**APPLICANT:** MilDef Crete Inc.  
**TEST SAMPLE:** Production Unit  
**STANDARDS:** **FCC Part 2 (Section 2.1091)**  
**FCC OET Bulletin 65, Supplement C (01-01)**  
IEEE C95.1

The above equipment (model: RF10) 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 :** Vera Huang , **DATE :** Nov. 14, 2013  
Vera Huang / Specialist

**APPROVED BY :** Roy Wu , **DATE :** Nov. 14, 2013  
Roy Wu / Manager



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## 2. RF EXPOSURE

### 2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

### 2.3 CLASSIFICATION

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

### 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

Frequency band (MHz)	Conducted power (dBm)	Antenna Gain (dBi)	E.I.R.P. (mW)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
Bluetooth	6.50	-1.12	3.45	0.0007	1.00
WLAN 2.4GHz	15.79	1.89	58.61	0.0117	1.00
5180~5240	16.99	3.33	107.65	0.0214	1.00
5745~5805	16.32	4.46	119.67	0.0238	1.00

**Note:**

For WLAN 2.4GHz: Directional gain = -1.12dBi + 10log(2) = 1.89dBi