



BUREAU
VERITAS

Test Report No.: FS170425N038

RF EXPOSURE REPORT

Applicant	Nanjing Innovative Data Technologies, Inc.
Address	9F Bldg A, China Cloud Computing Innovation Center, Qinhui District Nanjing, Jiangsu 210014, China

Manufacturer or Supplier	Nanjing Innovative Data Technologies, Inc.
Address	9F Bldg A, China Cloud Computing Innovation Center, Qinhui District Nanjing, Jiangsu 210014, China
Product	EnvMonitor
Brand Name	N/A
Model	eCat2000
Additional Model & Model Difference	N/A
Date of tests	Apr. 25, 2017 ~ Jul. 10, 2017
<input checked="" type="checkbox"/> FCC Part 2 (Section 2.1091)	
<input checked="" type="checkbox"/> KDB 447498 D01	
<input checked="" type="checkbox"/> IEEE C95.1	

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

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

Date: Jul. 12, 2017

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



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS170425N038	Original release	Jul. 12, 2017



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1. CERTIFICATION

FCC ID:	2ALY4-CSTOR
PRODUCT:	EnvMonitor
BRAND NAME:	N/A
MODEL NO.:	eCat2000
ADDITIONAL NO.:	N/A
TEST SAMPLE:	Engineering Sample
APPLICANT:	Nanjing Innovative Data Technologies, Inc.
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	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/cm²

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 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



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5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	2	Integral FPCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
802.11b	2412-2462	13	+2	11	15
802.11g	2412-2462	6	+2	4	8
802.11n(HT20)	2412-2462	6	+2	4	8

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
802.11b	2412	14.06
802.11g	2412	6.90
802.11n(HT20)	2412	6.68

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2412-2462	15	2	20	0.00997	1.0

--- END ---