



Test Report No.: FS120330N002
FCC ID: ADKCA1903U



RF EXPOSURE REPORT

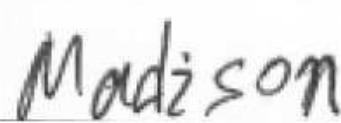
Applicant	Enkom Technologies Ltd.
Address	Schellenrainstrasse 13, 6210 Sursee, Switzerland

Manufacturer or Supplier	Enkom Technologies Ltd.	
Address	Schellenrainstrasse 13, 6210 Sursee, Switzerland	
Product	4-Port ADSL2+Wireless N Gateway	
Brand Name	ENKOM	
Model	ENKOM A1903 (Innoband 8520-B1)	
Date of tests	Jun. 12 ~ Jul. 10, 2011	

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

- FCC Part 2 (Section 2.1091)
- FCC OET Bulletin 65, Supplement C (01-01)
- IEEE C95.1

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

Tested by Madison Luo Project Engineer / EMC Department	Approved by Sam Tung Manager / EMC Department
	

Date: Apr. 11, 2012

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
FC110517N41	N/A	Jul. 19, 2011
FC120330N002	Change the model number, product name , appearance color, applicant and manufacturer information.	Apr. 11, 2012



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1. CERTIFICATION

PRODUCT: 4-Port ADSL2+Wireless N Gateway

MODEL: ENKOM A1903 (Innoband 8520-B1)

BRAND: ENKOM

APPLICANT: Enkom Technologies Ltd.

TESTED: Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1



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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

π = 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. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
802.11b max 2462MHz	17.76	5.1	20	0.0384	1.00
802.11g Max 2412MHz	20.60	5.1	20	0.0653	1.00
802.11n 20MHz Max 2412MHz	23.13	5.1	20	0.1323	1.00
802.11n 40MHz Max 2452MHz	21.22	5.1	20	0.0852	1.00