Excellence in Compliance Testing

Certification Exhibit

FCC ID: SNA-CFB2
IC: 9458A-CFB2

FCC Rule Part: 15.247
IC Radio Standards Specification: RSS-210

ACS Report Number: 11-0003.W06.15.A

Manufacturer: Woodstream Corporation
Model: 5144B

RF Exposure

General Information:
Applicant: Woodstream Corporation
ACS Project: 11-0003.W06.15.A
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

Technical Information:
Antenna Type: Nearson Collinear Antenna part number S151AH-2450
Antenna Gain: 5dBi
Maximum Transmitter Conducted Power: 20.36dBm, 108.64mW
Maximum System EIRP: 25.36dBm, 343.56mW
Exposure Conditions: Greater than 20 centimeters

MPE Calculation
The Power Density (mW/cm^2) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:
S = power density (in appropriate units, e.g. mW/cm2)
P = power input to the antenna (in appropriate units, e.g., mW)
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*							
Transmit Frequency (MHz)	**Radio Power (dBm)**	**Power Density Limit (mW/Cm2)**	**Radio Power (mW)**	**Antenna Gain (dBi)**	**Antenna Gain (mW eq.)**	**Distance (cm)**	**Power Density (mW/cm^2)**
2441.7	20.36	1.00	108.64	5	3.162	20	0.068

Installation Guidelines
The installation manual should contain text similar to the following advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

RF Exposure
In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 centimeters will be maintained.

Conclusion
This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.