

## **Certification Exhibit**

### FCC ID: IQ5-VOY1-2

### FCC Rule Part: CFR 47 Part 90.259

### ACS Report Number: 09-0301-LD

Applicant: Data Flow Systems Inc. Model: Voyager 1 Radio

# **RF Exposure**

#### **General Information:**

Applicant:	Data Flow Systems Inc.			
ACS Project:	09-0301			
Device Category:	Fixed			
Environment:	General Population/Uncontrolled Exposure			

#### **Technical Information:**

Maximum Antenna Gain:	10dBi
Maximum RF Conducted Power:	32.35dBm, 1.72W
Maximum System EIRP:	42.35dBm, 17.2W

#### MPE Calculation

The Power Density (mW/cm<sup>2</sup>) 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	Radio	Power	Radio	Antenna	Antenna	Distance	Power Density		
Frequency	Power	Density Limit	Power	Gain	Gain (mW	(cm)	(mW/cm^2)		
(MHz)	(dBm)	(mW/Cm2)	(mW)	(dBi)	eq.)	(CIII)	(IIIVV/CIII <sup>22</sup> )		
217.0125	32.35	0.20	1717.91	10	10.000	90	0.169		

#### 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:

#### <u>RF Exposure</u>

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 90 centimeters will be maintained.