

# **Certification Exhibit**

FCC ID: U9O-RF26X

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

ACS Report Number: 10-0339.W06.11.A

Manufacturer: Synapse Wireless, Inc. Model: RF26X

**RF Exposure** 

Model: RF26X FCC ID: U9O-RF26X

## **General Information:**

Applicant: Synapse Wireless Inc.

ACS Project: 10-0339 Device Category: Mobile

Environment: General Population/Uncontrolled Exposure

## **Technical Information:**

Antenna Type: Fractus Reach Xtend chip antenna

Antenna Gain: 1.9dBi

Maximum Transmitter Conducted Power: 19.17dBm, 82.6mW

Maximum System EIRP: 21.07dBm, 127.94mW Exposure Conditions: Greater than 20 centimeters

## **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 Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm2)	Radio	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance	Power Density (mW/cm^2)
2405	19.17	1.00	82.60	1.9	1.549	20	0.025

### **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.