



Excellence in Compliance Testing

Certification Exhibit

**FCC ID: U4A-MODBLE9051
IC: 6982A-MODBLE9051**

**FCC Rule Part: 15.247
IC Radio Standards Specification: RSS-247**

ACS Project Number: 15-0143

Manufacturer: Assa Abloy Inc.
Model: BLE9051

RF Exposure

General Information:

Applicant: Assa Abloy Inc.
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Monopole Antenna
 Antenna Gain: 4.11dBi
 Maximum Transmitter Conducted Power: -3.47 dBm, 0.45 mW
 Maximum System EIRP: 0.64 dBm, 1.16 mW
 Exposure Conditions: Greater than 20 centimeters

Per IC RSS-102 Issue section 2.5.2, this device is exempt from routine RF exposure evaluation. The source-based, time-averaged maximum EIRP of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is 2405 MHz;

$$1.31 \times 10^{-2} 2475^{0.6834} W = 2.7 W \text{ EIRP}$$

MPE Calculation (FCC)

The Power Density (mW/cm²) 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/Cm ²)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
2405	-3.47	1.00	0.45	4.11	2.576	20	0.0002