



Canada

## **Exhibit: RF Exposure – FCC**

Report File #: 7169010562R-000

Client	<b>Kapsch TrafficCom Canada Inc.</b>	
Product	<b>Model: 802155B-TAB</b>	
Standard(s)	FCC KDB 447498:2015	

### **RF Exposure – FCC**

The device have no specified usage distance. The device is evaluated against Portable and Mobile usage conditions; it is evaluated against the smallest separation distance and against the tightest limit for SAR exemption and for MPE limit.

### **General SAR test exclusion guidance:**

As per FCC KDB 447498 Section 4.3.1 a), the 1-g SAR Test Exclusion Threshold for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm is determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] [\sqrt{f_{(\text{GHz})}}] \leq 3.0$$

Where:

$f_{(\text{GHz})}$  is the RF channel transmit frequency in GHz

### **SAR Calculations: 915 MHz transmitter**

Peak conducted power was measured to be 3.88 mW. At a separation distance of 5 mm, the SAR Exclusion Threshold results to:

$$[3.88 \text{ mW} / 5 \text{ mm}] * [\sqrt{0.915 \text{ GHz}}] = 0.7 \leq 3.0$$

SAR Exclusion Threshold condition is met with peak conducted power.