




Exhibit: RF Exposure – FCC

Report File #: 7169006761R-000

Client	Kapsch TrafficCom Canada Inc.	
Product	JANUS™ Interior OBU Model: 801660C-TAB	
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 ≤ 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 0.5 mW. At a separation distance of 5 mm, this results to:

$$[0.5 \text{ mW} / 5 \text{ mm}] * [\sqrt{0.915 \text{ GHz}}] = 0.1 \leq 3.0$$

SAR Exclusion Threshold condition is met with peak conducted power.