Re: FCC ID: JQU-801154
Applicant: Mark IV Industries Ltd.
Correspondence Reference no.: 24347
731 Confirmation no.: EA662659

1. An exhibit has been uploaded with the radiated emissions test data showing the signal substitution factor and also a test setup photo.

2. The emission designator need to be changed to 12M1K1D. Which is 12 MHZ bandwidth,Modulation AM (Manchester encoded ON/Off Keying),frequency band 902-928 (K),data (D). The modulation scheme used is Manchester Encoded ON/OFF Keying. This is single frequency operation unit (915.75 MHZ).The data frequency is 500 KHZ. The unit meets the sidebands requirements in the bandwidth of 909.75-921.75 MHZ as per part 90. So THE Bandwidth required is 12 MHZ.There are two modes of operation as described in the design description,

3. The user manual shows the box,antenna,power supply and software.The box contains the current production RF Module FCC ID: JQU-800495 which is also used in the Road Check Reader system in the toll collection,digital board and attenuators. This new FCC ID: JQU-801154 will replace the JQU-800495 RF module in the Mgate reader application. This new unit was designed to reduce the system cost. For the ease of test and qualification this unit can be tested with our current reader. So the user manual will be modified to have the new unit replacing the old unit. The old RF Module (JQU-800495) is an enclosed unit with covers on both sides and rf connectors at the side of the housing.This unit has shields for the sensitive parts of the circuit.

4.The user manual will be modified to include the statement about the RF exposure " This device shall cause no harm at a distance greater than 1 meter away from the antenna". The CR2000 Reader Installation instructions shows that the antenna is mounted 12 feet high above the ground so the RF exposure is minimal.