



DECLARATION OF SIMILARITY

January 23, 2022

Innovation, Science, and Economic Development Canada (ISED)
3701 Carling Ave., Bldg. 94,
Ottawa, ON, K2H 8S2, Canada

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Rd.
Columbia, MD 21046

Dear Sir or Madam:

We, rf IDEas, Inc. hereby declare that the Wave ID products listed in the table below are electrically identical with the same electromagnetic emissions and electromagnetic compatibility characteristics as the tested units, which was tested by Radiometrics Midwest Corporation, the results of which are featured in Radiometrics' project: RP-9709. (Reference FCC ID FCC ID: M9MRNS0200 and IC: 6571A- RNS0200).

The following table is the product family list of the readers that use the same electronics and PCB as the ones tested in this report. The untested model numbers listed below are electrically identical with the same electromagnetic emissions and electromagnetic compatibility characteristics as those tested, therefore the tests on the model numbers below are representative for the tested models.

Model Number	Power input	Power Delivery	Notes
RDR-80031BK2	5 VDC	PS/2 Power Tap	None
RDR-80031BK5	5 VDC	Pin 9 of DB9	Tested Sample ; Uses Power adaptor
RDR-80031BK6	9 VDC	Pin 9 of DB9	Tested Sample ; Uses Power adaptor + External power Supply
RDR-80031BK7	9 VDC	External power Supply	None
RDR-80031BK8	5 VDC	External power Supply	None
RDR-80031BK9	5 VDC	USB Power Tap	None
RDR-80531BK2	5 VDC	PS/2 Power Tap	None
RDR-80531BK5	5 VDC	Pin 9 of DB9	Tested Sample ; Uses Power adaptor
RDR-80531BK6	9 VDC	Pin 9 of DB9	Tested Sample ; Uses Power adaptor + Ext. Power Supply
RDR-80531BK7	9 VDC	External power Supply	None
RDR-80531BK8	5 VDC	External power Supply	None
RDR-80531BK9	5 VDC	USB Power Tap	None

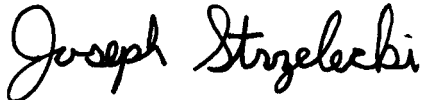
- The antennas and the antenna PCB are the same for all. The antenna PCB is part number PCB-1098-09. The Main PCB is a part number PCB-1125-04 and is the same for all versions of the product.
- The function of the readers is the same in all products. The clocks, tuning circuits, antennas, RF power, and modulation remained unchanged. The radio parameters are the same in all products.
- All are Black, Wave ID Plus, and have the same RS-232 interface. All have a 9-pin connector for serial.



- All power is connected to pin 9 of the DB9 Connector. The difference is how that pin gets the power, either USB port, External Power supply or PS/2 port.
- On the 5 Volt devices, the U140 regulator is NOT populated and on the 9 Volt devices, the regulator is populated.
- The 80031 series readers are iClass, with the chip populated at U511. The 80531 series readers are MIFARE and have U511 depopulated.

Please contact me should there be need for any additional clarification or information.

Best Regards,
Authorized Signature

A handwritten signature in black ink that reads "Joseph Strzelecki". The signature is written in a cursive, flowing style.

Joseph Strzelecki
Senior EMC Engineer
Radiometrics Midwest Corporation
Authorized Agent for rf IDEas, Inc.