NOVATEL WIRELESS

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Merlin U630 Tune up information

To whom it may concern,

The Novatel Wireless UMTS Merlin PC card modem OEM is factory calibrated. During the production phase, the modem is exposed to a U2 test station which uses a PC, a vector signal analyzer and a signal generator to execute an automated script in order to calibrate the RF circuitry and determine the required Non-Volatile (NV) table values for WCDMA and GPRS. The modem diagnostic serial port is connected to the PC using a Novatel sparrow interface board with an external DC power supply. The modem base band Non Volatile memory transmitter tables are then populated with calibration factors which will remain unchanged for the life of the modem. Once calibrated, there is no methodology for further calibration or tuning. The calibration tables applicable to this certification are as follows:

PCS PA Start Offset.
PCS PA Stop Offset.
PCS Tx frequency compensation.
PCS Tx ramp up tables (15 different tables).
PCS Tx ramp down tables (15 different tables).

Sincerely,

Kevin Goodfellow
Technical Specialist