

NORTHWEST EMC, INC.

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Dear Application Examiner:

Welch Allyn's 802.11a Wireless PC card, FCC ID: PGUWA11A07, is seeking limited modular approval. The radio meets the requirements for limited modular approval as detailed in FCC Public Notice DA00-1407. Compliance to each of the requirements is described below:

1. **"The modular transmitter must have its own RF shielding."** The radio portion of the module is contained in its own RF shielding. The shielding is installed at the factory. Please see the Internal Photos exhibit.
2. **"The modular transmitter must have buffered modulation/data inputs."** The EUT has buffered data inputs to insure compliance with Part 15 requirements under conditions of excessive data rates or over-modulation. Please see the Schematics exhibit.
3. **"The modular transmitter must have its own power supply regulation."** The EUT has its own power supply regulation to insure compliance with Part 15 requirements regardless of the quality or level of external DC supplying the module from the host unit. Please see Schematics exhibit. Also, the technical report exhibit contains AC power line conducted emissions data taken with the EUT powered from a linear power supply that contains no EMC suppression components.
4. **"The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c)."** The EUT meets the FCC antenna requirements. Please see Antenna information.
5. **"The modular transmitter must be tested in a stand-alone configuration."** The EUT was tested in a stand-alone configuration. Please see test setup photos exhibit and technical report exhibit.
6. **"The modular transmitter must be labeled with its own FCC ID number."** The EUT is labeled with its own FCC ID number. Please see FCC ID label & location exhibit.
7. **"The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements."** The EUT is compliant with all applicable FCC rules. Detail instructions for maintaining compliance are given in the User Manual.

“The modular transmitter must comply with any applicable RF exposure requirements.” The EUT is compliant with all applicable RF exposure requirements. Because it will be used in portable exposure configurations, it is seeking a limited modular approval. Please see SAR test report. It is important to note that the radio operates below the low power threshold, so SAR testing in a single host device will permit multiple host approval, so the SAR report in this filing will apply for similar future host configurations. Item 4(b)(i)(4) in "FCC Mobile and Portable RF Exposure Procedures - March 2007.pdf" states,

"3-host tests are requested for 15.407 devices (routine evaluation) with output power > 50 mW; otherwise test in one host; for 1-host test, if output power < low thresholds in the July02 TCB Exclusion List, for each frequency band test only the channel with maximum averaged output power"

Please contact me if you have additional questions. Your attention to this matter is greatly appreciated.

Best regards,

Northwest EMC, Inc.