

**Information about the Applicant**

<b>Applicant:</b>	Tripod Data Systems, Inc.
<b>Address:</b>	345 SW Avery Ave
<b>City, State, Zip</b>	Corvallis, OR 97333
<b>Test Requested By:</b>	Dennis York
<b>Model:</b>	802.11b / Bluetooth combo radio installed in Tripod's Ranger X Series
<b>FCC ID:</b>	S9E-RNGR80BT
<b>Agent</b>	Northwest EMC, Inc.
<b>Approval Type</b>	Certification
<b>Equipment Type</b>	Low power intentional radiator
<b>Rule Part</b>	15.247

**Overview**

This application for the certification of Tripod's USI radio module, FCC ID: S9E-RNGR80BT. It is an 802.11b / Bluetooth combo radio operating in the 2.4 GHz band. The radio module is installed in Tripod's Ranger X Series handheld computer and is seeking limited modular approval for that mobile host configuration. Ranger X handheld computer will also contain a second radio module (Cirronet) that is currently seeking limited modular approval under FCC ID: S9E-RNGR2410. It is a 2.4 GHz frequency hopping spread spectrum radio. All radios in the Ranger X can transmit simultaneously – each radio through its own antenna. The USI radio utilizes two identical chip antennas that are integral to the printed circuit board. One antenna is used for the 802.11b portion, and the other antenna is used for the Bluetooth portion. This configuration satisfies the requirements of 47 CFR 15.203. The USI radio was previously certified under FCC ID: IXMWM-BB-AG-01. This new application for certification is required for the co-located exposure condition in Tripod's Ranger X handheld. However, all the antenna direct connect test data from the previous certification continues to be representative, and is used in support of this application. New radiated spurious emissions data and AC powerline conducted emissions data was taken for Tripod's Ranger X configuration and is documented in the Northwest EMC test report.

**Findings**

<b>Finding:</b>	TCB 410 Is missing hyphen on FCC ID
<b>Resolution:</b>	Corrected document (with client approval)

**Recommendation**

All items have been resolved and completed to my satisfaction; therefore I recommend this application for approval.

**Signature**

## Opinion

Specification Requirements	Description
15.207	Conducted Power Line Emissions

**Opinion:** The Equipment meets the intent specified by the requirements listed above.

**Discussion:** The Applicant has submitted test results in the form of a test report.

**Reference:** Technical Report

Specification Requirements	Description
15.247( d )	Spurious Emissions, Radiated Emissions

**Opinion:** The Equipment meets the intent specified by the requirements listed above.

**Discussion:** The Applicant has submitted test results in the form of a test report.

**Reference:** Technical Report

Specification Requirements	Description
2.1091/15.247	RF Exposure

**Opinion:** The Equipment meets the intent specified by the requirements listed above.

**Discussion:** The Applicant has submitted MPE estimates demonstrating compliance.

**Reference:** RF Exposure Exhibit

Specification Requirements	Description
Additional Requirements	FCC Compliance requirements for Limited Modular Approval

**Opinion:** The Equipment meets the intent specified by the requirements listed above.

**Discussion:** The Applicant has submitted the required information in the test report.

**Reference:** Letter supporting Limited Modular Approval