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FCC Laboratory 5 April 2001
7435 Oakland Mills Road
Columbia, MD 21046

Re: Class 2 Permissive Change, Intentional Radiator per 15.249
Applicant: Trimble Navigation Ltd.

FCC ID: JUP-7486-CIRAA
Grant Date: 05/09/2000

Hello,

On behalf of my client, Trimble Navigation Ltd., attached please find test report and supporting documents for a class 2 permissive change against the referenced grant. The nature of the change is as follows (per email from Trimble):

"On the LNA board a simple one transistor class C amplifier and provision for an attenuator was removed. It was previously between the TX antenna which is fabricated on the PCB and the signal extractor currently feeding the antenna. This antenna had approximately unity gain in the old revision and was therefore only consuming power, thus its removal.

On the 38846-F "Analog Board" on sheet 3 labeled "beacon" the relevant changes were the addition of L18, (upper left corner), to isolate the 916MHz from C38 and C39 and C48 which were acting as shunts of uncontrolled characteristics to the power of the transmitter. The dielectric of C38 and C39 was changed from X7R to COG, (which with the addition of L18 should now be irrelevant). An inductor L10 was changed from a through-hole type part to surface- mount and not loaded on current assemblies.

Outside the schematic on the internal case of the unit a feedthrough capacitor was changed from .1uF to 2200pF. This capacitor is the transmit line of RS-232 type from the unit. Electrically it is grounded to the case and connected to the TX line, (TP3 on page one of the schematic), of the serial converter chip. As there are filters, resistors and a .047uF capacitor still on the line there was little fear that this would cause any kind of problem."

Test data shows the revised product continues to easily radiated and line conduct emissions limits. If you have questions or need further information please contact the undersigned.

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Sincerely,

T.N. Cokenias
Agent for Trimble Navigation Ltd.

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