



July 22, 2003

Timco Engineering Inc.
849 N.W. State Road 45
P.O. Box 370
Newberry, Florida 32669

FCC ID: NUW9B2L2C1900

RE: JOB #: 638UC3

Dear Sir:

This letter is in reply to your email dated May 13, 2003 regarding a recent application submittal bearing FCC ID NUW9B2L2C1900. Along with this letter, there are 7 files that have been uploaded in support of this information. They are:

- 03-0089 External Photos.pdf
- 03-0089 Internal Photos.pdf
- 03-0089 731_B.pdf
- 03-0089 New Data.pdf
- 03-0089 Revised Manual.pdf
- 03-0089 Bandedge Plots.pdf
- 03-0089 Two Tone Conducted Spurious.pdf

Item 1

Noted, all future exhibits files will contain descriptions of their contents.

Item 2

External photos have been submitted separately.

Item 3

These devices are tuned as part of production. A formal tune up procedure does not exist for this device.

Item 4

Printed circuit board photos have been submitted separately.

Items 5

The product description has been corrected on the form 731.

Item 6

The manual has been updated to include the statement required.

Item 7

The form 731 has been corrected with the correct emission designator for the CDMA transmission mode.

Item 8

New power measurements have been made. See tables 1 and 2 in the file 03-0089 New Data.pdf for tabulated data.

Item 9

The rated input signal level max is -38dBm uplink and -51dBm downlink. The device has a self attenuating output circuit that limits the output gain to that specified by the manufacturer. If a signal input is in excess of the maximum rated input, the unit will attenuate that signal down to the maximum rated. An LED indicates when the unit is attenuating the input. When running the test, the input was sufficient to cause the unit to go into this state to ensure we had maximum output power. Input vs. output plots are included in plots 1-6 in the file 03-0089 New Data.pdf. Levels during the test were set above the rated input to ensure maximum output.

Item 10

Block diagrams are included with all new data that is submitted with this reply.

Item 11

See new plots for band edge compliance in file "03-0089 Bandedge plots.pdf"

Item 12

New conducted spurious emission plots were taken. They have been uploaded separately in a file titled "03-0089 Two Tone Conducted Spurious.pdf".

Item 13

A sample calculation can not be provided because substitution field strength measurements were not made. All radiated field strength emissions were in the measurement system noise floor with >>20dB of margin to the radiated limits, therefore substitution field strength measurements seemed unnecessary. This can be confirmed by the lack of conducted spurious emissions.

Item 14

Due to equipment shortages, the two-signal test was employed. See file "03-0089 Two Tone Conducted Spurious.pdf".

Item 15

Understood if substitution were employed however it was not due to the reason cited in item 13 above.

Sincerely,



R. Sam Wismer
Engineering Manager/
Radio Approvals Engineer