MFJ-Ameritron Engineering
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Barnesville, GA 30204
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Dear Sirs:

We intend to produce this equipment in quantity, and market it as a booster for low power two way radios in the 150 MHz two way radio band.

Please find the following items in this application for type acceptance:

(1) Form 731 with a 450 dollar fee check made payable to FCC.

Exhibit A. Consisting of 3 pages showing harmonic suppression at the lower (150 MHz), middle (156 MHz), and upper end (162 MHz) of the amplifier operating band. In these tests, the amplifier was driven with an ICOM Model IC-F-1020-2 transceiver, FCC ID # AFJ IC-F1020WN-2, operating in narrow band (6.25 kHz) modulation mode.

Exhibit B. Two pages showing modulation bandwidth and spurious emissions measured at the middle of the operating band with 10 kHz analyzer bandwidth and 500 kHz span. These pages show both the ICOM Model IC-F-1020-2 transceiver, FCC ID # AFJ IC-F1020WN-2, operating in narrow band (6.25 kHz) modulation mode (page one) alone, and the combination of the radio and amplifier (page 2).

Exhibit C. Two pages showing modulation bandwidth and spurious emissions measured at the middle of the operating band with 100 Hz analyzer bandwidth and 25 kHz span. These pages show both the ICOM Model IC-F-1020-2 transceiver, FCC ID # AFJ IC-F1020WN-2, operating in narrow band (6.25 kHz) modulation mode (page one) alone, and the combination of the radio and amplifier (page 2).

Exhibit D. Two pages showing modulation bandwidth and spurious emissions measured with 10 kHz bandwidth and 100 kHz span, measured at the middle of the operating band using an ICOM Model IC-F-1020-2 transceiver, FCC ID # AFJ IC-F1020WN-2, operating in narrow band (6.25 kHz) modulation mode (page one), and the combination of radio and amplifier (page 2).

Exhibit E. Two pages showing modulation bandwidth and spurious emissions measured at the middle of the operating band using 30 Hz analyzer bandwidth and 25 kHz span, while the amplifier was driven with an ICOM Model IC-F-1020-2 transceiver, FCC ID # AFJ IC-F1020WN-2, operating in narrow band (6.25 kHz) modulation mode.

Exhibit F. Showing actual size ID label and label placement.

Exhibit G. Consisting of 3 photographs with a description of the following views as marked on back side each photograph:

Front view (showing front panel and controls)
Rear view (showing FCC ID position and complete rear panel)
Top view (showing all circuit components)

Exhibit H. Consisting of a 12 page operating manual that includes the parts list and schematic.

Thank You,

CT Rauch, Director of Engineering