

Timco Engineering, Inc.
849 NW State Road 45
PO Box 370
Newberry, FL 32669

FCC Request

Applicant: J Communications Co., Ltd.
FCC ID: OAJATT655LE
Confirmation Number: EA276521
Reference Number: 23771

1. You have two power levels for GMRS. How is the power levels controlled? Please explain.

The transmitter power levels are internally set by the microprocessor to low power on channels 8-14 and high power on other channels to comply with regulations on FRS and GMRS channels. Channels 1-7 are shared between GMRS (High) and FRS, channels 8-14 are exclusively FRS and only low power is selected, and channels 15-22 are for GMRS use only and high power is permitted.

2. Please provide the dBm power levels on pages 14 and 15 of the radiated spurious emissions measurements.

See the following two pages.

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2.1053
95.635(b)(7)

UNWANTED RADIATION:

The tabulated Data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 to at least the 10th harmonic of the fundamental. This test was conducted per ANSI C63.4-1992.

REQUIREMENTS: GMRS: HIGH $43 + 10\log(1) = 43$ dB
LOW $43 + 10\log(.9) = 43$ dB

TEST DATA:

Low Power

| Emission Frequency MHz | dBc | Margin dB | Generator dBm |
|---------------------------|-----|--------------|------------------|
| 462.60 | 0 | 0 | 19.5 |
| 925.2 | 62 | 19 | -42 |
| 1387.9 | ** | ** | |
| 1850.5 | ** | ** | |
| 2313.2 | 61 | 18 | -41 |
| 2775.8 | ** | ** | |
| 3238.4 | 45 | 2 | -25 |
| 3701.1 | ** | ** | |
| 4163.7 | ** | ** | |
| 4626.4 | ** | ** | |

High Power

| Emission Frequency MHz | dBc | Margin dB | Generator dBm |
|---------------------------|-----|--------------|------------------|
| 462.60 | 0 | 0 | 20.5 |
| 925.2 | ** | ** | |
| 1387.9 | ** | ** | |
| 1850.5 | ** | ** | |
| 2313.2 | 62 | 19 | -41 |
| 2775.8 | ** | ** | |
| 3238.4 | 45 | 2 | -24 |
| 3701.1 | ** | ** | |
| 4163.7 | ** | ** | |
| 4626.4 | ** | ** | |

** Indicates measurements below our equipment capabilities and levels were 20 dB or more below the FCC limits.**

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UNWANTED RADIATION CONTINUED

The tabulated Data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 to at least the 10th harmonic of the fundamental. This test was conducted per ANSI C63.4-1992.

REQUIREMENTS: FRS: $43 + 10\log(.3) = 38$ dB

| Emission Frequency MHz | dBc | Margin dB | Generator dBm |
|---------------------------|-----|--------------|------------------|
| 467.60 | 0 | 0 | 15 |
| 935.1 | ** | ** | |
| 1402.7 | ** | ** | |
| 1870.2 | ** | ** | |
| 2337.8 | 58 | 20 | -43 |
| 2805.4 | ** | ** | |
| 3272.9 | 52 | 14 | |
| 3740.5 | ** | ** | -37 |
| 4208.1 | ** | ** | |
| 4675.7 | ** | ** | |

** Indicates measurements below our equipment capabilities and levels were 20 dB or more below the FCC limits.**

METHOD OF MEASUREMENT: The tabulated data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 to at least the tenth harmonic of the fundamental. This test was conducted per TIA/EIA STANDARD 603 using the substitution method. Measurements were made at the open field test site of TIMCO ENGINEERING, INC. located at 849 NW State Road 45, Newberry, FL 32669.

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3. Please submit a revised Users Manual with the following information. There must be an informational insert inside the box (product package) that clearly informs the consumer (buyer/owner) when the radio is transmitting on GMRS frequencies, that operation on GMRS frequencies requires an FCC license and such operation is subject to additional rules specified in 47 C.F.R. Part 95.

The revised users manual has been uploaded to the FCC website.

If you have any questions or need any more information, please feel free to contact me.

Best regards,

Summer M. Hester