

Federal Communications Commission,  
7435 Oakland Mills Road,  
Columbia, MD  
21046  
USA

12th June 2008

**Certification Of Product to FCC R & R's, Part 90  
Multitone RPT 503 PagingTransmitter**

Dear Sirs,

We wish to make application for the Certification of our RPT 503 product, under the auspices of FCC R & R Part 90. A separate Form 731 has been completed and supporting exhibits attached.

We originally intended to submit two "family" products for certification, which included both the RPT 503 and the RPE 503 equipments, however for marketing reasons it was decided to withdraw the RPE variant. Both equipments are based around the same PCB, which provides a programmable 5 Watt RF Output synthesised transmitter, with both data and speech facilities. The RPT model is purely a transmitter, whilst the RPE is a transmitter with an integral Encoder PCB, which is activated by external Serial RS232 devices and "dry" switch contacts.

At the time it was decided to test only test the RPE 503 variant, as this presented the "worst case" option of the two products and to utilise the results to additionally support the RPT 503 submission. The test report reflects this decision and the results contained therein are also equally valid for the RPT equipment. Hence, this report has been submitted to support this application.

**SDR** - the equipment may be classed as a Software-Defined Radio, Master device. However, it is intended that the control of the software that is used to define the radio parameters, be retained within Multitone and our agents.

Each unit will be pre-programmed before factory dispatch to a default standard and then the installation engineer will set the final frequency and adjust the final RF power level, after re-tuning. Other parameters such as deviation and line level may also be changed, to suit local licensing and operational conditions.

**Software Control** - The software which controls the RF parameters for the product is Multitone proprietary and is controlled by the development group and company QA procedure P020/02, which is part of our ISO 9001 certification. As stated above, each product is pre-programmed before dispatch and re-adjusted during installation, but no access to these facilities is allowed to the User at any time.

**RF Exposure** - The maximum RF ERP is set to 5W. An MPE analysis and Declaration in accordance with 47CFR, has been provided separately.

**Servicing** - It is not intended that these products be serviceable by the User. They will be either repaired on-site by our trained engineer, returned to Multitone or our agents for repair and/or replaced with another unit.

**Documentation** - I have supplied the basic marketing data sheet, circuit description and also the engineering Installation Guide for the product.

**Confidentiality** - We wish to request Permanent Confidentiality for parts of this item under the terms of R & R 0.457 and as denoted on the Form 731, please see separate request letter.

I hope that the information supplied enables you to make an initial assessment of the equipment. Once you have formed further questions, please do not hesitate to contact me. E-mail is probably the most efficient route.

Yours sincerely,



B.R.Merchant  
Principal Approvals Engineer  
Multitone Electronics plc