

Exhibit 2 – General Information

Motorola Customer Premise Equipment (CPE)

FCC ID: MIJMILCPE-USA-01

Millitech Part No. 9031295602

2.0 General Information

2.1 *Production Plans*

Quantity production is planned.

2.2 *Application References*

Pursuant 2.1061 reference is made to the following Motorola Application References on file with the Commission:

None

2.3 *Data Submittal Procedure*

Data is supplied in accordance with Part 2, Sub-part J of the Commission's rules. The standards used on measurements supplied is section 47 CFR Part 101 Subpart C.

2.4 *Similar Applications*

None.

2.5 *Types of Emissions*

The CPE itself uses no modulation techniques. Modulation necessary to support the LMDS link is performed by equipment external to the CPE. An emission designator has been determined based on a standard Data Over Cable Service Interface Specifications (DOCSIS) signal that will be present at the input to the CPE.

The pertinent emission designator for the CPE is 10M0D1D, as explained in paragraph 2.8 of this exhibit. Actual measurements of Occupied Bandwidth are shown in Exhibit 9.2. Spurious Emissions (Radiated) are reported in Exhibits 9.3.

2.6 Frequency Range

The CPE employs a single frequency in the 31.076 to 31.106 GHz frequency band.

Frequency stability versus temperature and voltage measurements are discussed in Exhibits 9.4 and 9.5.

2.7 Maximum Output Power

The CPE Data transmitter output power is +17dBm typical at room temperature. The specified minimum output power is +16dBm minimum from @ +50° C. The CPE Data transmitter was operated at an output power of +18dBm.

RF Output Power Measurements are shown in Exhibit 9.1.

2.8 Modulation Techniques

The CPE Data transmission modulation is as follow:

- 16 QAM
- 384 ksymbols/sec

The CPE receives a Pilot tone which is modulated as follows:

- FM 10 MHz deviation
- 24.414 kHz modulation frequency

Exhibit 6, Sections 6.3 and 6.5 will provide more details of the modulating circuitry and techniques.

2.9 Emission Designator

2.9.1 Emission, Modulation, and Transmission Characteristics

The CPE itself uses no modulation techniques. Modulation necessary to support the LMDS link is performed by equipment external to the CPE.

However, based on the DOCSIS signal, the Data signal emission designator (6M00D1D) is based on the following:

- D - Emissions in which the main carrier is amplitude and angle-modulated either simultaneously or in a pre-established sequence
- 1 - A single channel containing quantized or digital information without the use of a modulating subcarrier, excluding time division multiplex
- D - Data transmission, telemetry, telecommand

2.9.2 Bandwidth

The allocated bandwidth for the frequency band in which the CPE operates (31.075 to 31.225 GHz) is 150 MHz.