

Exhibit 12 Operational Description

Information required by Section 2.1033(c) 1 - 14

1. The Applicant and Manufacturer is

Motorola, Inc.
8000 West Sunrise Blvd.
Ft Lauderdale, FL 33322
2. FCC ID: AZ489FT5805
3. Please refer to Exhibit VIII
4. Emission Designator: 18K3D7W
5. Frequency Range: 806 – 821 MHz
6. Range of Power: The output power is continuously variable from the 0.0024 mW to 0.7 Watts which is 5% -10% of this value. The end user has no control over the output power. The base station is capable of automatically varying the output power level and is able to attenuated the maximum level up to 24 dB.
7. Maximum power rating: 0.7 Watts
8. Please refer to Exhibit originally filed under FCC ID: AZ489FT5796
9. Please refer to Exhibit X
10. Please refer to Exhibit V
11. Please refer to Exhibits I
12. Please refer to Exhibits III and IX
13. Please refer to Exhibit originally filed under FCC ID: AZ489FT5796
14. Please refer to Exhibit VI containing the requirements of Section 2.1046 through 2.1057 inclusive.

Additional Technical Information

1. Technical Characteristics

- 1a.) Technical description: HDT 502 Handheld Data Terminal with Integrated Data only, iDEN packet data time division multiplexed (TDM) transceiver. The transmitter modulation scheme is QPSK, Quad-16QAM, and Quad 64QAM.
- 1b.) Transmitter Application: The transceiver is integrated within the HDT502 Handheld Data Terminal is operates on the nationwide iDEN data network. Data can be captured in the field and either sent or received via the iDEN data network to a network server.
- 1c.) Power Supply Available: FNN6001B Battery – Lithium Ion 3.6 V, 1450 mAH
- 1d.) Antenna available: Part Number: 8586922T01. The antenna type consists an integrated internally located pair of shorted monopoles.
- 1e.) Data Cables Available:
 - 1.) FKN4886A Serial cable (1m) standard EIA RS-232 DB9
 - 2.) FKN4871A Serial cable (1m) coiled for Camero printer DIN8
 - 3.) FKN4792A Serial cable (20cm) DB25 with negative supply pin
 - 4.) FKN4793A Serial cable (1m) DB25 with power pins
- 1f.) Housing: The transmitter and antenna are integrated within the HDT502 handheld data terminal. The terminal is a rugged portable used for data capture and uploading or downloading to a data base server via the iDEN data network.