

From: Gregory Hassman

To: Jose Trevino

Date: May 06, 2008

Subject: FCC file number 0117-EX-PL-2008

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Message:

To: Jose Trevino

Subject: Description of the Experimental under the Exhibit

Reference: FCC file number 0117-EX-PL-2008

This document is intended to address your request for a description of the experiment requested on April 8, 2008 by FCC via email.

Alien Technology is an OEM of RFID (Radio Frequency Identification) tags and readers.

As a system our products consist of two components.

- 1) RFID Readers that transmits a modulated carrier to communicate with tags.
- 2) RFID Tags that receives power from the carrier and recognizes modulated commands. When appropriate the tag backscatters the carrier to convey its internal data back to the reader.

During the normal development of these components experiments are conducted that accomplish the following:

- 1) Measure the sensitivity of the communication link between the reader and the tag.
- 2) Determine the legality of transmit power and emissions for US and Foreign bands.
- 3) Setup tests to represent potential customer's applications.

A typical test can require locking to a single frequency or altering the FCC approved hop table as necessary to monitor system performance. Alien Technology manufactures and sells readers? world wide and as such performs tests on readers intended for foreign frequencies and RF power levels. Additionally on some instances tests require both radiated and transmitted power levels to exceed certified levels.

The core of our technology deals in bands about 915MHz, 860MHz and 960MHz as these three frequencies cover the vast majority of bands authorized world wide for RFID. We also however, from time to time utilize the other frequencies listed in the exhibit for government contracts and additional product development.

Please feel free to contact me directly if additional information is required.

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