

Correspondence by Project

Project Number:

-786105241

Correspondence Number	Memo
	<p>MR. McCUTCHAN, 1) The operational description indicates that the tag reader output power was set at 25 dBm, yet the test report indicates that the peak power level was 27.8 dBm (worst-case, on center channel). Please explain this discrepancy. >>>Please see the revised operational description documentation in the exhibits uploaded.</p> <p>2) The operational description also indicates that the length of the cable connecting the internal patch antenna of the IntelliPad to the circuit board, as well as the length of the cable which connects the IntelliPad to the tag reader, may be changed according to the installation needs.</p> <p>a. Please explain how the output power is controlled under these circumstances.</p> <p>b. Indicate how the installation is controlled, such as the type of cabling that is used, correct setting of power levels, etc.</p> <p>>>>a. The measurements were taken with the shortest length cable provided. The system controlling software does not allow the Reader to be set to a level higher than +25 dBm when connected to an IntelliPad.</p> <p>b. Longer cables introduce greater losses than those tested. This will reduce the power available at the IntelliPad input port.</p> <p>The user can only control the power of the reader through the system software that limits the value to +25 dBm.</p> <p>3) The operational description states that the user is able to adjust the power settings.</p> <p>a. Please indicate how this is accomplished.</p> <p>b. Please explain in detail the method by which the power is controlled.</p> <p>c. If it is adjusted incrementally, what are the increments</p>

TPZ-34000001-001

by which it may be adjusted. d. What is the lowest power level? >>>>a. Page four of the operational description "IntelliPad - Description of Circuit Function.pdf" states: "The user is able to adjust the power setting to any antenna from zero to that power setting." This is not correct. It should state: "The system is configured during installation to provide any power level from the minimum available Reader power level up to +25 dBm." b. A software program controls the setting of the power to the reader. The user enters a value on the keyboard and the software insures that the value does not exceed +25 dBm. When it is time to turn the reader on, the software uses the value entered on the keyboard. c. Power may be adjusted in increments provided by the Reader which is in 0.5 dB steps. d. The lowest power level is that level provided by the Reader is 14.74 dBm. 4) The operational description indicates that the "user is able to adjust the power setting to any antenna from zero to that power setting". The original certification of the tag reader (FCC ID: H9PRD11320) indicates that 14.74 dBm is the lowest power level. a. Does the "zero" value indicated correspond to 0 dBm? b. If so, how is this level achieved considering the output of the reader is only adjustable down to 14.74 dBm?
>>>>a) This was mistake in the manual since we thought the Reader could go to 0 dBm. We will change the manual to state that the minimum is "the minimum provided by the Reader". b) It can not reach 0 dBm. 5) The test setup photos, and internal photos show a piece of copper tape from the chassis to the RF connectors. Please explain why this was present. >>>>The copper tape simulated the chassis mounting nut for that connector. We didn't have the nut available at the

time. 6) On the internal photos of the device, there is a white sticker covering some of the electronics. Please submit photos of the circuitry covered by this sticker. >>>>Photos of the PCB with sticker removed are in the exhibits uploaded.