



RE: ATCB007097

FCC ID: CEXQFPILOT & IC: 3707A-QFPILOT for Quantum Instruments, Inc.

Answers to RT dated 12/14/2008

1. The UUT was provided with a test mode that transmits a signal continuously. The field strength was measured with both a peak and average detector. The peak value is less than the average limit, which shows compliance to 15.231. Plots are not required for this test. There is no way that duty cycle for this device can be determined because in normal operation the pulse is user initiated which yields a variable and undefined off time therefore the duty cycle is incalculable.
2. Page 7 of the test report indicated that the device was tested to the 10th harmonic of the fundamental transmitter frequency.
3. The following text was added to the appropriate test sections; **"The UUT was tested by rotating it 360° with the antennas in both the vertical and horizontal orientation and raised from 1 to 4 meters to ensure the TX signal levels were maximized."**
4. Section 15.231(b)(2) calls out 15.35, which defines all required detectors and measurement bandwidths.
5. Section 15.231(c)(3) indicated that emissions in the limit table must meet 15.209 including 15.205 for restricted band but excluding the fundamental. This is not limited to the harmonics but all emissions within the limit table. The UUT was tested to the 15.209 limits for all emissions from 30 MHz to the 10th harmonic of the fundamental. 15.209 has the same limits as the class B unintentional radiator.
6. See the answer for question 5.
7. Page 4 of the test report indicated the following, **"Except as noted herein, the following conditions and procedures were observed during the testing: In accordance with ANSI C63.4-2003 unless otherwise indicated in the specific measurement results..."**
8. New schematic has been uploaded.
9. The channels are digital coded channels but always transmit on the same frequency.
10. Revised IC application has been submitted
11. Revised IC application has been submitted
12. IC REL Letter was overlooked on original upload and has been subsequently uploaded
13. IC Confidentiality Letter was overlooked on original upload and has been subsequently uploaded
14. Annex B was overlooked on original upload and has been subsequently uploaded
15. The Canadian Contact Letter has been uploaded
16. A revised cross reference was uploaded