

To: "tjohnson@AmericanTCB.com" <tjohnson@AmericanTCB.com>  
Subject: Reply to e-mail dated Dec.17

**FCC ID: NTAXMETER5**

**In reply to e-mail dated December 17, 2002**

Dear Mr. Johnson,

Below are the answers to your questions.

1. Please find a cover letter, submitted via "Upload for application NTAXMETER5 ATCB000089", Cover letter folder on December 20, 2002.
2. The following answer was given by Tadiran telematics: [Since the device is always installed inside the pit and "buried" in the ground we believe it is not practicable to place the whole statements of 15.19 on its label, but to have the statement on the container in which it is marketed and in the User Manual.](#)
3. Please find more photographs in the file Setup photos\_up.pdf, submitted via "Upload for application NTAXMETER5 ATCB000089", Setup photos folder on December 20, 2002.
4. The following answer was given by Tadiran telematics: [The User Manual specifically mentions that sticker is applied in plastic and concrete pits \(quote from page 4\): "...When installing the equipment in the pit made of plastic or concrete, regardless of the type of the cover, a special adhesive sticker shall be attached to the unit as described in the drawings \(see attached picture\)..."](#).
5. The following answer was given by Tadiran telematics: [The combinations shown in the User Manual represent typical combinations of pits and covers. The combination of plastic pit with plastic cover \(with or without the small plastic door\) represents the worst case in terms of the power transmitted outside the pit. Any possible combination of the pits and covers, having the same mechanical configuration as shown in the Manual, causes lower power transmitted outside, compared with the above "all plastic" combination. For this reason we are asking not to limit the combinations to these shown in the User Manual, but to allow any combination of covers with plastic and concrete pits, as long as their mechanical configuration is as shown in the User Manual.](#)
6. The maximum 93.6 dB( $\mu$ V/m) field strength refers to "on site" testing, with transmitter placed inside a pit with a cover, which is "buried" in the ground.  
The value 112.89 dB( $\mu$ V/m) refers to measurements in the anechoic chamber, where the transmitter was tested being placed on table. This value is close to the field strength (18 dBm) stated by the manufacture.
7. Yes, both antenna polarizations were used while testing in each type of pits and covers (please refer to part 3 of the test procedure, included into the test report, p.10). The worst case was found to be vertical in all cases, as mentioned on page 8.
8. The following answer was given by Tadiran telematics: [The intended duty cycle of the device is very small. The actual pulse repetition period of the device after manufacturing is about 10 seconds. Programming of the repetition rate is not accessible by the installers or users.](#)
9. The adhesive sticker was not used for the harmonics and spurious emission testing.  
Two reasons were taken into consideration:
  - a) Good engineering practice shows that the expected affect of adding an adhesive sticker is the decreasing of emission strength;
  - b) The maximum value of harmonic field strength obtained throughout the testing of harmonics without adhesive sticker was 14.5 dB below the specified limit.

As a result, we considered that an additional testing of harmonics for the device with adhesive sticker attached would be unnecessary.

With great respect,  
Valeria