

Chris Harvey

From: Claire Hoque [claire.hoque@ccsemc.com]
Sent: Wednesday, June 21, 2006 1:05 PM
To: Chris Harvey
Cc: Michael Heckrotte; Erica Yueh; William Lau; Julia Luke
Subject: answer: Trango Systems, Inc., FCC ID: NCYP4900M, Assessment NO.: AN06T5860, Notice# 1

Attachments: MPE.pdf; P4900M Theory of operation.pdf; P4900M_Manual(revised).pdf; 06U10226-1B FCC 90Y Report.pdf



MPE.pdf (158 KB)



P4900M Theory of operation.pdf...



P4900M_Manual(revised).pdf (2 ...



06U10226-1B FCC 90Y Report.pdf...

Hi Chris,

Pls see answer below.

1. The test report has several sections that list the frequency band for FCC Pt. 90 Subpart Y as 4894 - 4990 MHz, where the actual available band is 4940 - 4990 MHz. This device has been tested using a 20MHz channel bandwidth with the center of bands from 4950 - 4980 MHz. Please correct the report accordingly. Additionally, please correct the frequency range on the Form 731.
<answer>report and 731 form are all revised.

2. The PPSD test procedure description on page 23 of 59 in the RF test report indicates that a 3 kHz bandwidth is used, where the plots provided clearly use the required 1MHz RBW. Please correct the report.
<answer>report is revised.

3. Section 7.2 Radiated Emissions of the test report has the Limits section which seems to have some text from the Low Power Emission Mask section of 90.210(l) which does not apply to this device. Please correct this section of the report to correctly describe the Radiated Emissions test performed.
<answer>report is revised.

4. Please provide a separate RF Exposure MPE exhibit for this application (can be extracted from the test report).
<answer>MPE is attached.

5. Please provide an explanation/justification for the 16M6XXD Emission Designator provided on the Form 731.
<answer>Trango requires 20 Mhz channel separation between channels - That is where the 20M0 comes from. Th next "X" represents the fact that the modulation is not one of the listed ones - the radio uses multicarrier with phase and amplitude modulation on each carrier. The next "X" is for nature of signal modulating the main carrier. The radio uses a single channel containing digital data in a time division multiplex arrangement, which is not one of the choices. The last character is "D" indicating Data transmission.

6. The exhibit with the file-name 'P4900M Theory of operation.pdf' is actually a duplication of the confidentiality request letter. Please submit a replacement Theory of Operation exhibit for this device. Please ensure that the description includes explanation of the ANT1 and ANT2 connectors and if both transmit at the same time (or is this only for diversity).
<answer>P4900M Theory of operation.pdf is attached.

7. The Manual submitted is for the ATLAS4900 device, but the 2 tables on page 2 (PDF page 5 of 33) lists operation in the 5725-5875 MHz and 5250-5350 MHz bands. Please update this manual to reflect the 4950-4980 MHz band of this device.
<answer>>manual is revised, client removed the reference to frequency and added the two

other antenna configurations.

Thanks,

Claire

-----Original Message-----

From: Chris Harvey

Sent: Thursday, June 15, 2006 8:55 AM

To: Michael Heckrotte

Cc: Chris Harvey; Claire Hoque

Subject: Trango Systems, Inc., FCC ID: NCYP4900M, Assessment NO.:

AN06T5860, Notice#1

Michael, you are listed as the technical contact for the above referenced application. The initial review has been performed and the following items need to be addressed before this review can be continued:

1. The test report has several sections that list the frequency band for FCC Pt. 90 Subpart Y as 4894 - 4990 MHz, where the actual available band is 4940 - 4990 MHz. This device has been tested using a 20MHz channel bandwidth with the center of bands from 4950 - 4980 MHz. Please correct the report accordingly. Additionally, please correct the frequency range on the Form 731.
2. The PPSD test procedure description on page 23 of 59 in the RF test report indicates that a 3 kHz bandwidth is used, where the plots provided clearly use the required 1MHz RBW. Please correct the report.
3. Section 7.2 Radiated Emissions of the test report has the Limits section which seems to have some text from the Low Power Emission Mask section of 90.210(l) which does not apply to this device. Please correct this section of the report to correctly describe the Radiated Emissions test performed.
4. Please provide a separate RF Exposure MPE exhibit for this application (can be extracted from the test report).
5. Please provide an explanation/justification for the 16M6XXD Emission Designator provided on the Form 731.
6. The exhibit with the file-name 'P4900M Theory of operation.pdf' is actually a duplication of the confidentiality request letter. Please submit a replacement Theory of Operation exhibit for this device. Please ensure that the description includes explanation of the ANT1 and ANT2 connectors and if both transmit at the same time (or is this only for diversity).
7. The Manual submitted is for the ATLAS4900 device, but the 2 tables on page 2 (PDF page 5 of 33) lists operation in the 5725-5875 MHz and 5250-5350 MHz bands. Please update this manual to reflect the 4950-4980 MHz band of this device.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. Also, please note that partial responses increase processing time and should not be submitted. Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender.

Best regards,

Chris Harvey

charvey-tcb@ccsemc.com