(1) A brief description of the device

The major function for the Bar Code Handy Terminal is reading bar code data and transmitting via (1)Infrared communication, (2)Wireless communication (IEEE 802.11 a/b/g) to remote Host Computer ; Or transmitting via Bluetooth communication to remote Bluetooth Printer.

(2) The reason you cannot stream the NTIA MPG or WAV file

The Bar Code Handy Terminal built-in two kinds of OS: Microsoft Win CE5.0 and Microsoft Win Mobile 6.1. the device just use for barcode capture and transmit via WLAN to remote derive, it does not support "My Network Places" to access remote HOST computer to play video file. So we can not follow FCC standard DFS test procedure to execute test.

(3) A description on how you propose to do the data streaming & channel loading

We use program " LAN TEST " on USI device then ping AP IP address

Setup Diagram
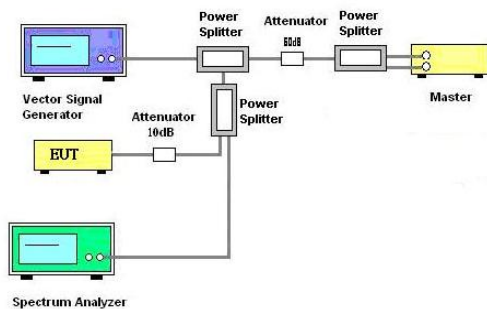
Test 100ms to see if there is 30% package rate, and there is 90 pulse signal as below picture. <figure 1> For fig 1 the each pulse on time and off time as below <figure 2>

In the [figure 1] we get 90 pulse for each pulse [figure 2]the on time is 275us
Because in figure 2 the sweep time is 500 us so when sweep time is 1ms
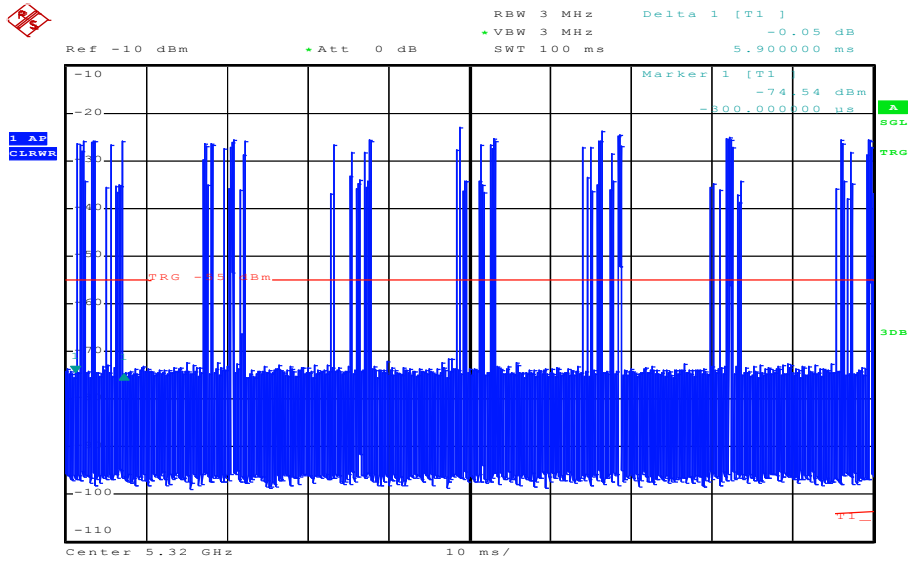Then on time is 0.275ms*2 = 0.55ms
When 100ms=0.55ms*90 pulse=49.5ms
The total loading
(49.5ms/100ms)*100% = 49.5%
The loading is more then Include timing plots and estimate of loading (%)
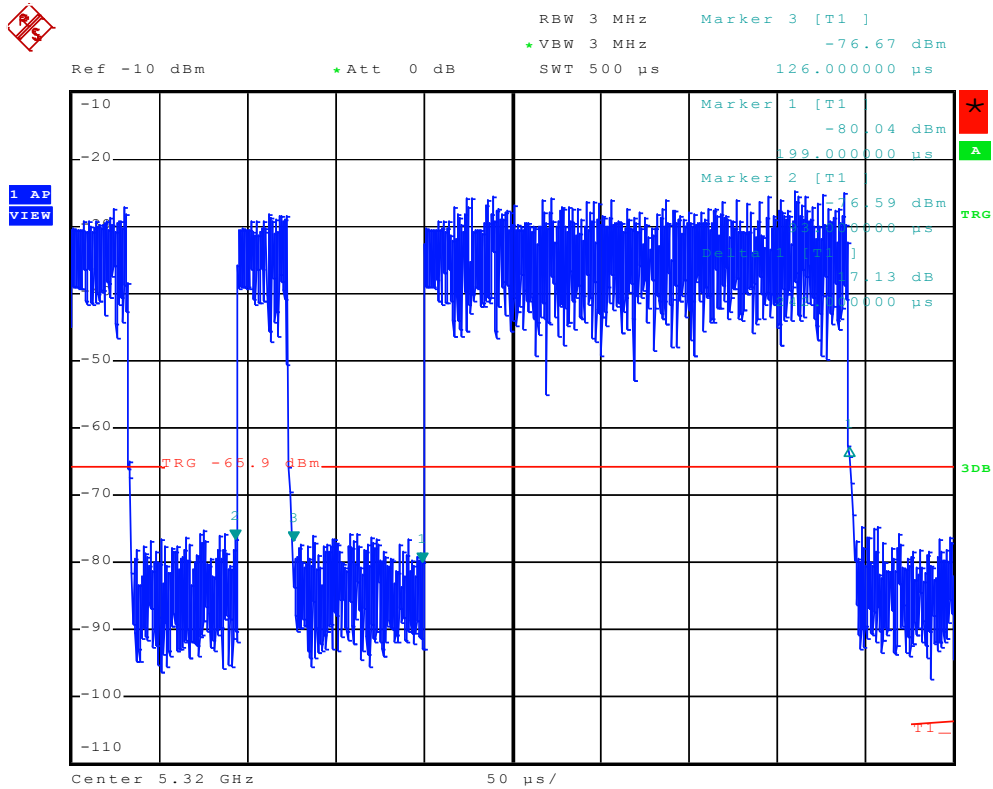– Note: channel loading percentage is not specified in the Rules or
test procedure, the approved MPEG2 file was measured to be
about 17 to 20% loading

Fig 1

RBW 3 MHz   Delta 1 [T1]
* VBW 3 MHz   -0.05 dB
Ref -10 dBm   * Att 0 dB   SWT 100 ms   5.900000 ms

Marker 1 [T1
-74.54 dBm
-300.000000 µs

Center 5.32 GHz   10 ms/

Date: 24.JUL.2009 18:57:09

Fig 2

RBW 3 MHz   Marker 3 [T1]
* VBW 3 MHz   -76.67 dBm
Ref -10 dBm   * Att 0 dB   SWT 500 µs   126.000000 µs

Marker 1 [T1
-80.04 dBm
199.000000 µs

Marker 2 [T1
-76.59 dBm

Delta 1 [T1]
7.13 dB

TRG -65.9 dBm

Center 5.32 GHz   50 µs/

Date: 24.JUL.2009 19:05:01