

June 04, 2007

RE: FCC ID: NP4-5048-300_ATCB004932

Attention: Dennis Ward

Reply to Comment #1: Information as to how this device is prevented from operating in the 406 – 406.1 MHz restricted band.

In the ViPR radio modem the minimum and maximum allowed transmit frequencies are set constants in the radio modem software. These constants are programmed at the factory during the initial tuning and testing of the radio modem. In response to your comment #1 we have narrowed the minimum and maximum allowed frequencies to the following:

Minimum allowed transmit frequency = 406.125 MHz

Maximum allowed transmit frequency = 511.975 MHz

From this date forward, the radio modems will be programmed with these limits. Test data was re-checked with the appropriate frequencies and added to the test report.

Reply to Comment #2: Transient frequency behavior explanation:

The method of measurement that was used for the transient frequency response tests is outlined in TIA-603B 2.2.19.2 using a modulation domain analyzer. The modulation domain analyzer was set to trigger on the rising and falling RF envelope power for key up and key down tests, respectively. The trigger level was set 30dB below the final power level.

The radio uses separate transmit and receive VCOs, therefore the transmit VCO is already tuned to the assigned Tx frequency. The frequency does not change in the Transmit VCO as the radio keys up. The very small frequency variation that is seen in the plots is caused by the change in load on the VCO as the transmitter is turned on and powers up.

Reply to Comment #3:

The appropriate cross reference to all RSS-199 tests have been added to the test report.

Reply to Comment #4:

The highest receiver spurious emission was added to the IC application form.

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