

RFI Measurement of Miltech make shielded PC

By :- SSK, PAR, SBB

Following are the test results of RFI measurement done for Miltech make shielded PC planned for antenna base telemetry application.

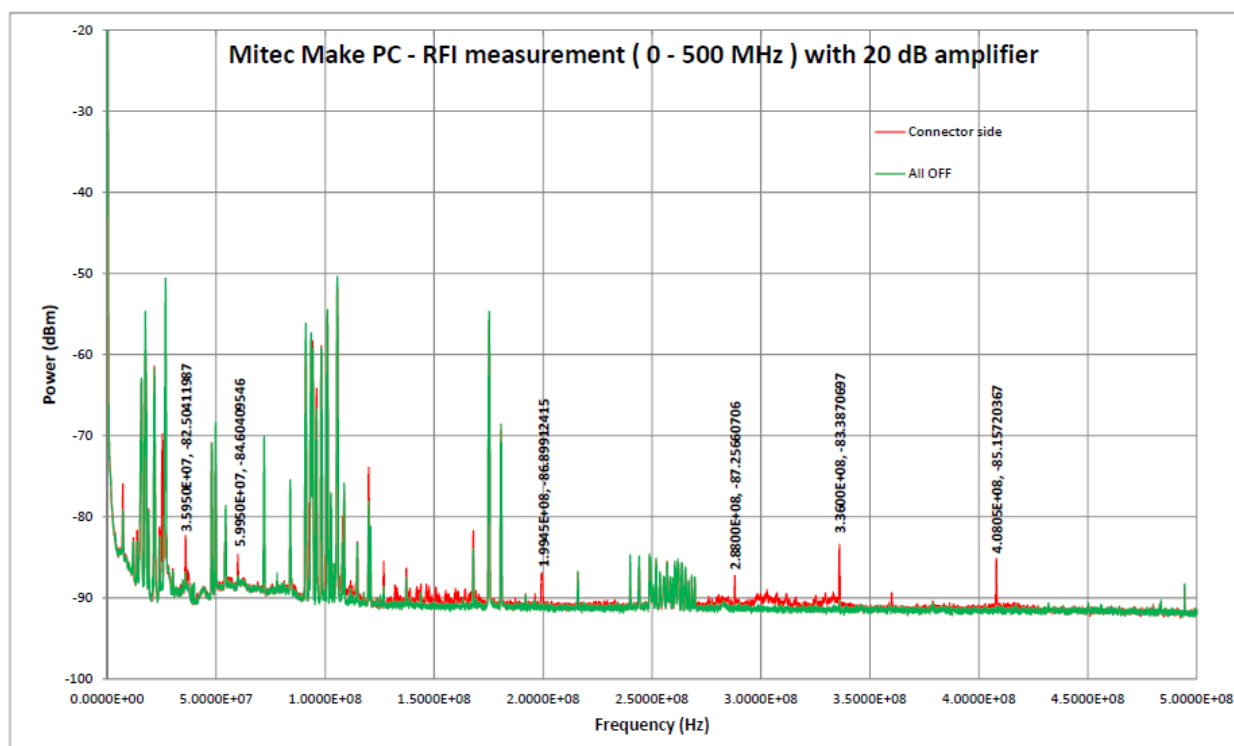
Test Procedure:

1. Measurement done at 3 meter distance with Rx LPDA antenna.
2. Log periodic antenna with 20dB amplifier used as receiver.
3. We observed RFI in 0-500MHz and 500-1000MHz frequency band for Miltech shielded PC from back direction.

Measurement Result :-

Date :- 3rd March 2012

RFI Lab (SSK, PAR, SBB)

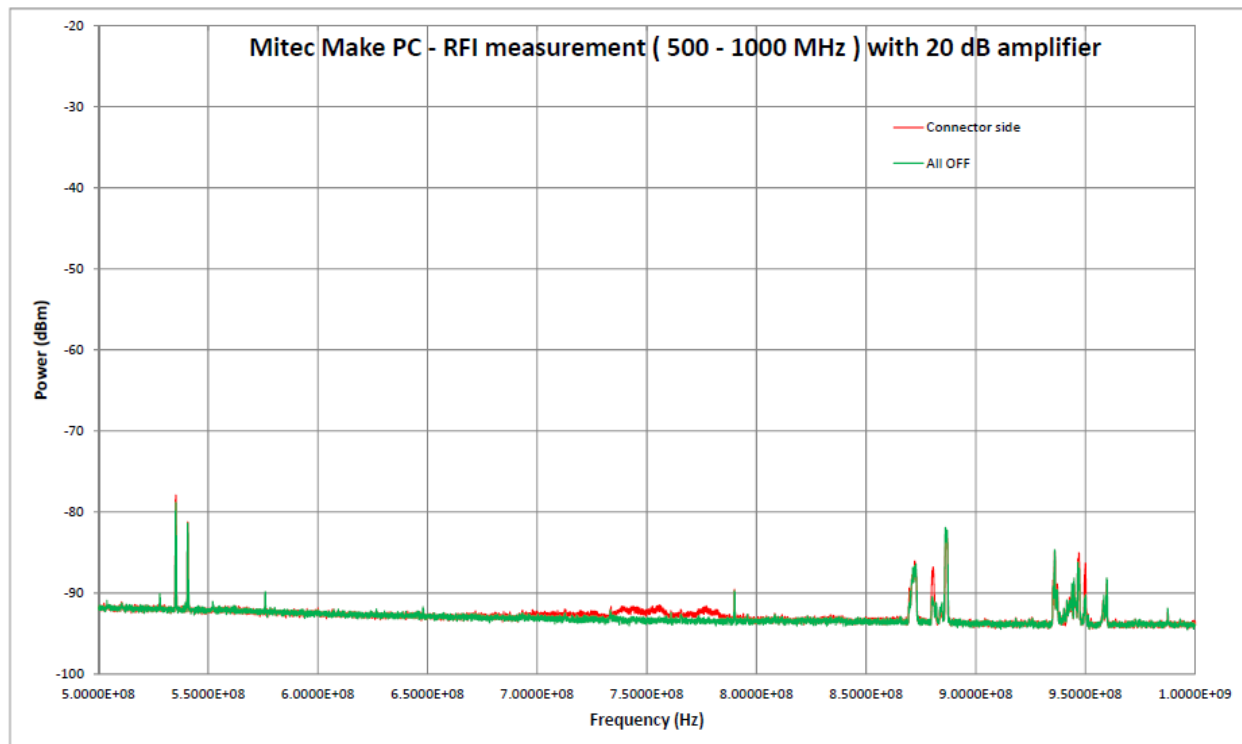


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Figure 1. Shows the measurement of Miltec shielded PC RFI performance below 500 MHz with PC ON and OFF condition on the worst radiation side (connector side of the PC)

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Figure 1. Shows the measurement of Miltec shielded PC RFI performance between 500 MHz to 1 GHz with PC ON and OFF condition on the worst radiation side (connector side of the PC)

Conclusion :-

1. M/S Miltec, Hyderabad, submitted for third time the final model for evaluation with necessary shielding to suit our antenna base usage and having system specifications laid down by the telemetry group. The measurement shows that the PC has few spurious lines as marked in figure 1 and there is slight increase in noise with ON and OFF condition of the PC.
2. The level of spurious line and increase in broadband noise is well below -85 dBm with 20 dB pre-amplifier. This works out to be a level below -105 dBm. This is acceptable as per our standard guidelines followed for other systems and equipments.