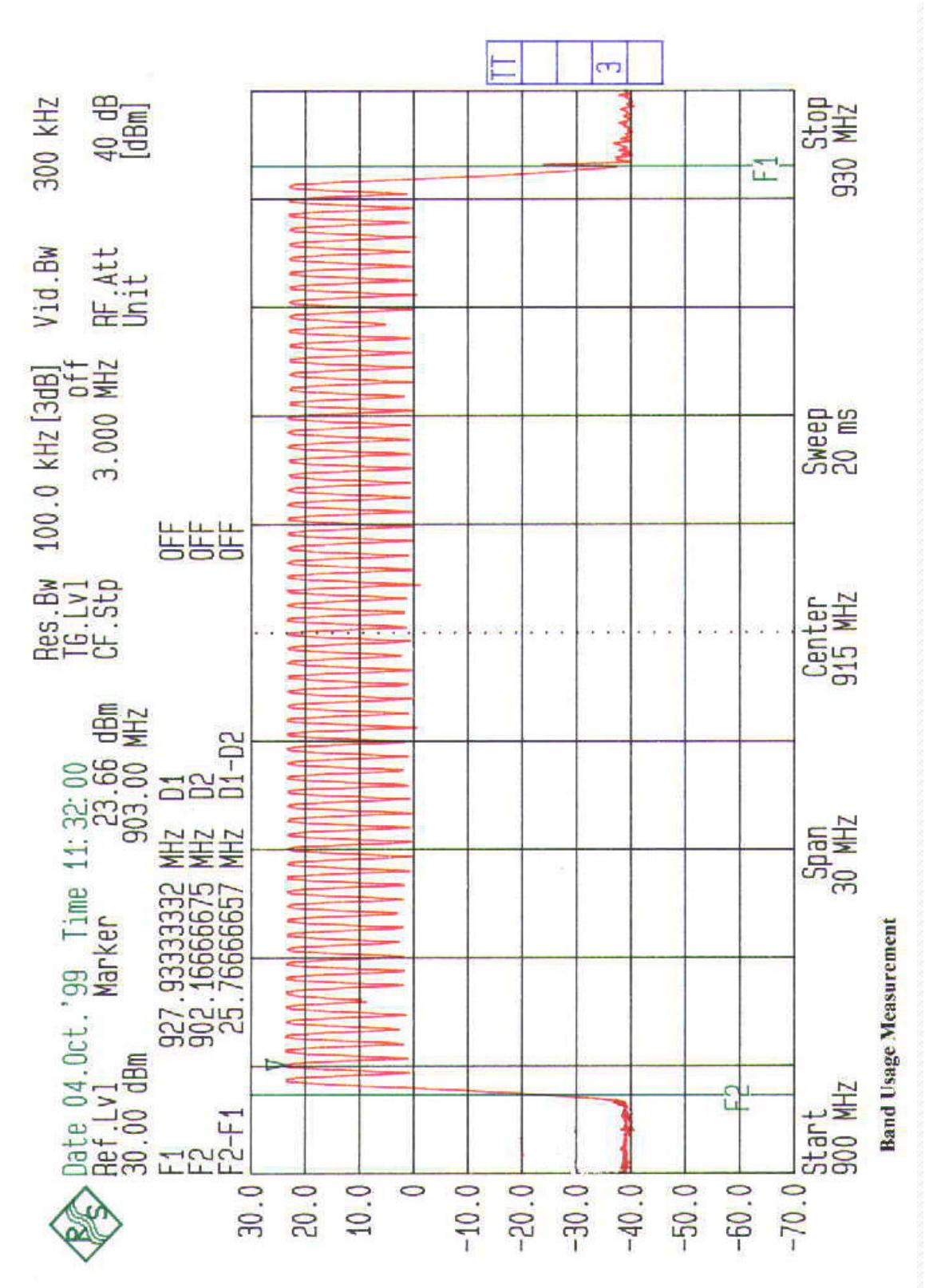
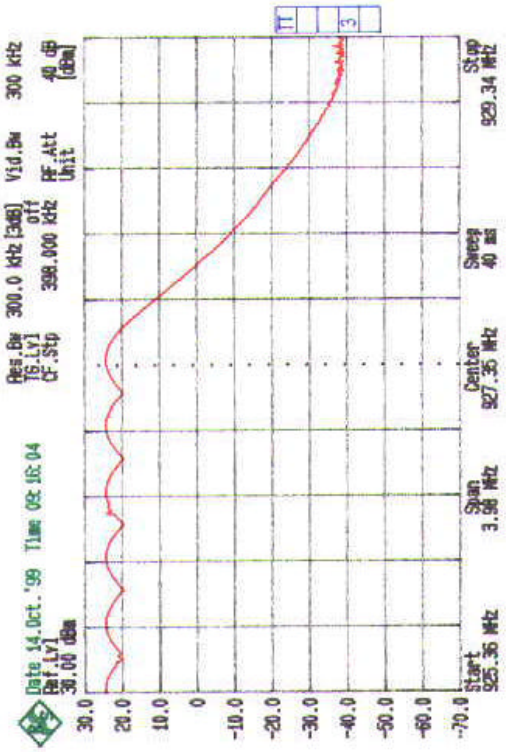
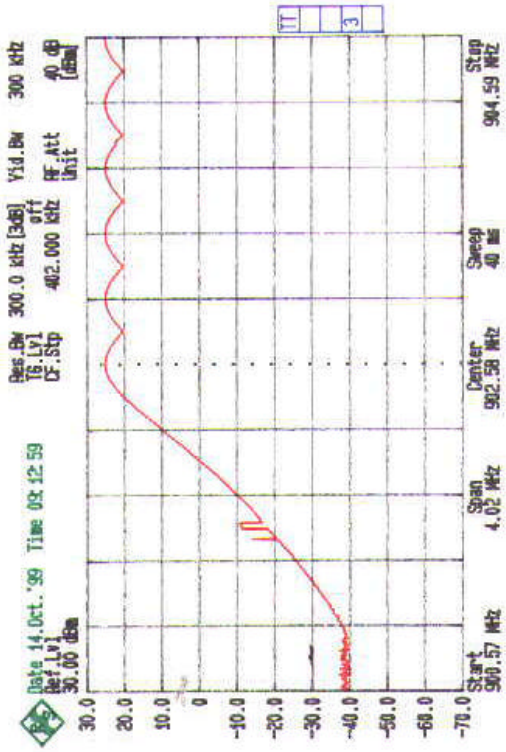

Date 04.Oct.'99 Time 11:32:00
Ref.Lvl
30.00 dBm
Marker
23.66 dBm
903.00 MHz
F1 927.93333332 MHz D1
F2 902.16666675 MHz D2
F2-F1 25.76666657 MHz D1-D2
Res.Bw 100.0 kHz [3dB]
TG.Lvl off
CF.Stp 3.000 MHz
OFF
OFF
OFF
Vid.Bw 300 kHz
RF.Att 40 dB
Unit [dBm]
TT
3
30.0
20.0
10.0
0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
F2
F1
Start 900 MHz
Span 30 MHz
Center 915 MHz
Sweep 20 ms
Stop 930 MHz
Band Usage Measurement

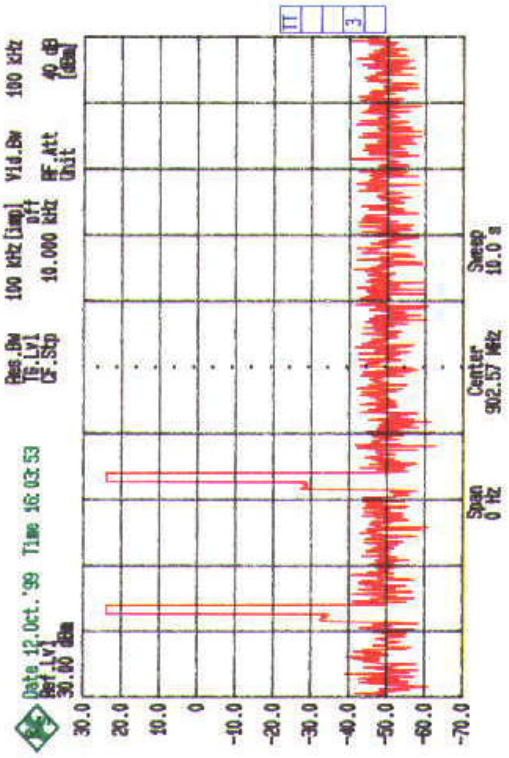




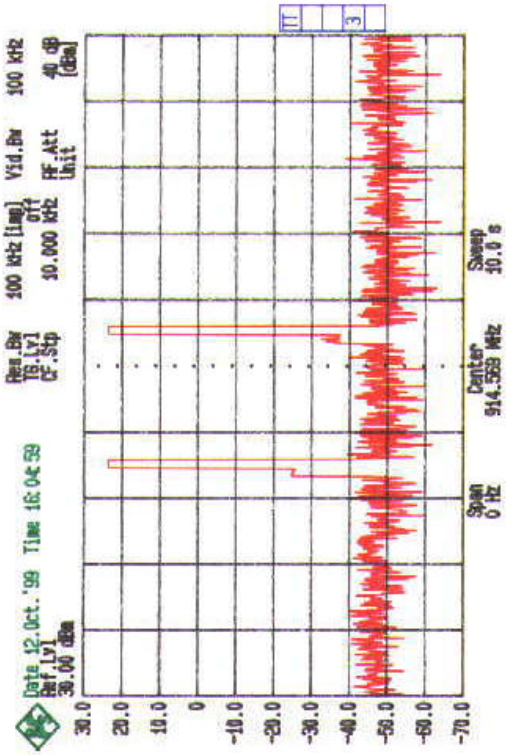
Band Edge Measurement

Dwell Time Measurements (Three Channels)

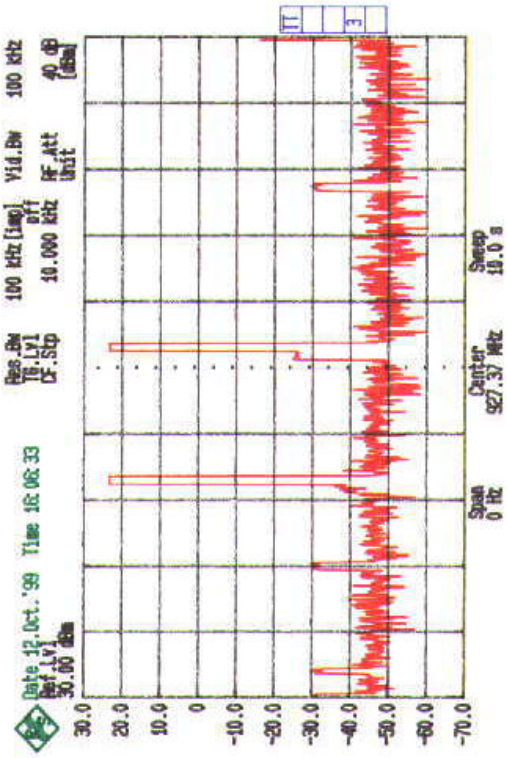
Low (902.5 MHz)



Medium (914.5 MHz)

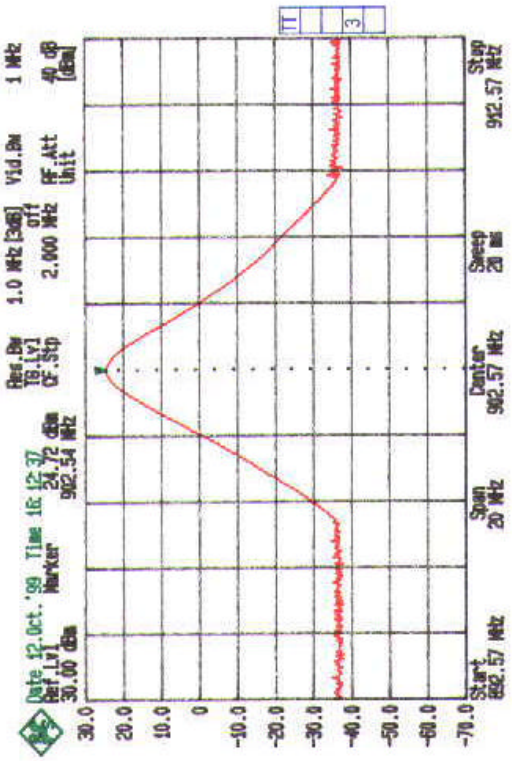


High (927.5 MHz)

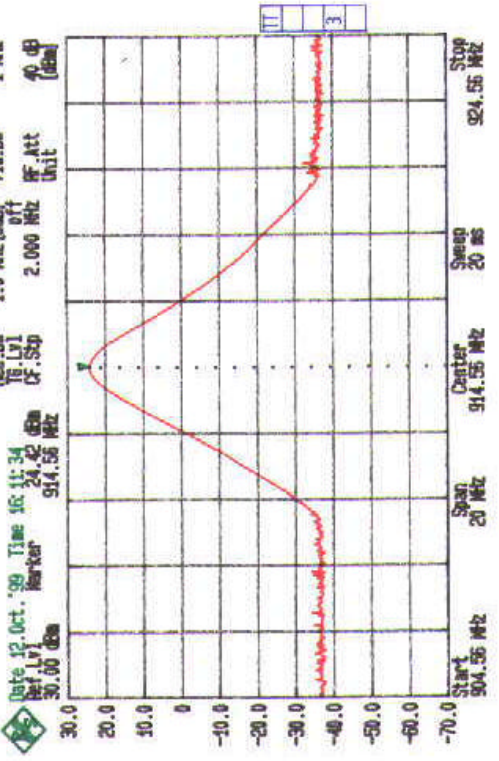


Peak Power Measurements (Three Channels)

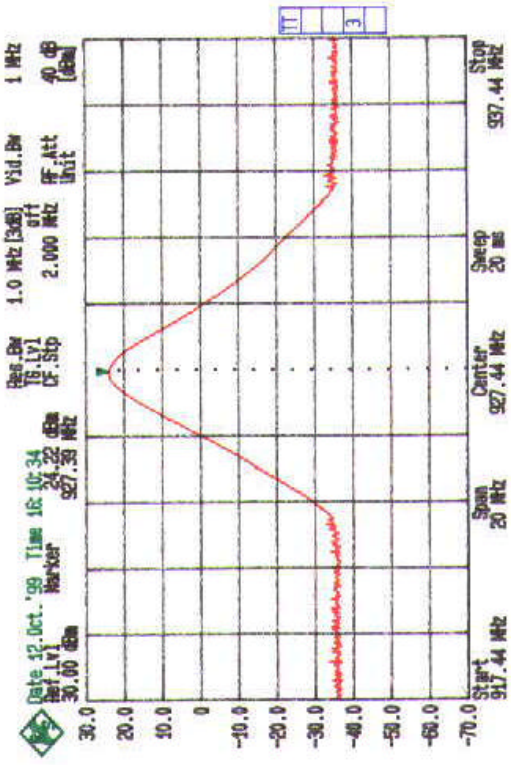
Low (902.5 MHz)



Medium (914.5 MHz)



High (927.5 MHz)



5 TEST DATA AND RESULTS (continued)

5.3 Channel Bandwidth Measurement

5.3.1 Procedure

The EUT was put into a continuous transmit mode. The analyzer was set to a 1 MHz span around the selected channel with 100 kHz resolution bandwidth and 100 kHz video bandwidth. The analyzer was put into max hold mode and the peak value measured. A threshold line was put 20 dB below the peak. Two markers were set at the intersection of the signal and the 20 dB line. The frequency difference between the markers was recorded as the 20 dB bandwidth. A 6 dB external attenuator was used and compansated in the measurement. Cable losses were automatically compensated by the analyzer. The same procedure was repeated for three different channels (low, medium and high) to cover the transmit range.

5.3.2 Results

The widest 20 dB bandwidth measured was 329 kHz BW at 927.4 MHz. The other two were 324 kHz at 914.6 MHz and 323 kHz at 902.6 MHz. All bandwidths were below the required limit of 1 MHz.

5.4 Conducted Out-of-band Emissions

5.4.1 Procedure

The EUT was put into continuous transmit mode. The analyzer was set to 1 MHz RBW and 1 MHz VBW. Then three scans were performed in max hold mode with 30 MHz - 1 GHz, 1 GHz – 2.5 GHz, 2.5 GHz - 10 GHz ranges. Also the 50 MHz region around the fundamental was investigated. Found peaks are listed in the results section. A 6 dB external attenuator was used and compansated in the measurements. Cable losses were automatically compensated by the analyzer. The measurements were repeated for channels at 902.6 MHz, 914.6 MHz and 927.4 MHz.

5.4.2 Results

Plots in following pages show the harmonic and spurious out-of-band emissions of the EUT measured at the antenna connector. All found peaks and their margins are listed in the following tables The EUT was found compliant with the requirements for conducted out-of-band emissions.

For file size considerations, this report has been split into 4 pieces. Please see the next file for the rest of the report.