



HERMON LABORATORIES

Photograph 4.3.1
Set up for ERP measurement, substitution method





4.4 Occupied bandwidth measurements according to FCC part 90 paragraph 209

4.4.1 General

According to paragraph 90.209 (5) the maximum authorized bandwidth shall be 11.25 kHz in 450 – 470 MHz frequency band.

4.4.2 Test procedure

The EUT was set up as shown in Photograph 4.4.1.

The measurements were performed using spectrum analyzer.

The occupied bandwidth was measured as a frequency band between points where power envelope of carrier, modulated with normal signal, drops 23 dB below unmodulated carrier.

The test results for 3 channels are shown in Plots 4.4.1 to 4.4.3.

Reference numbers of test equipment used

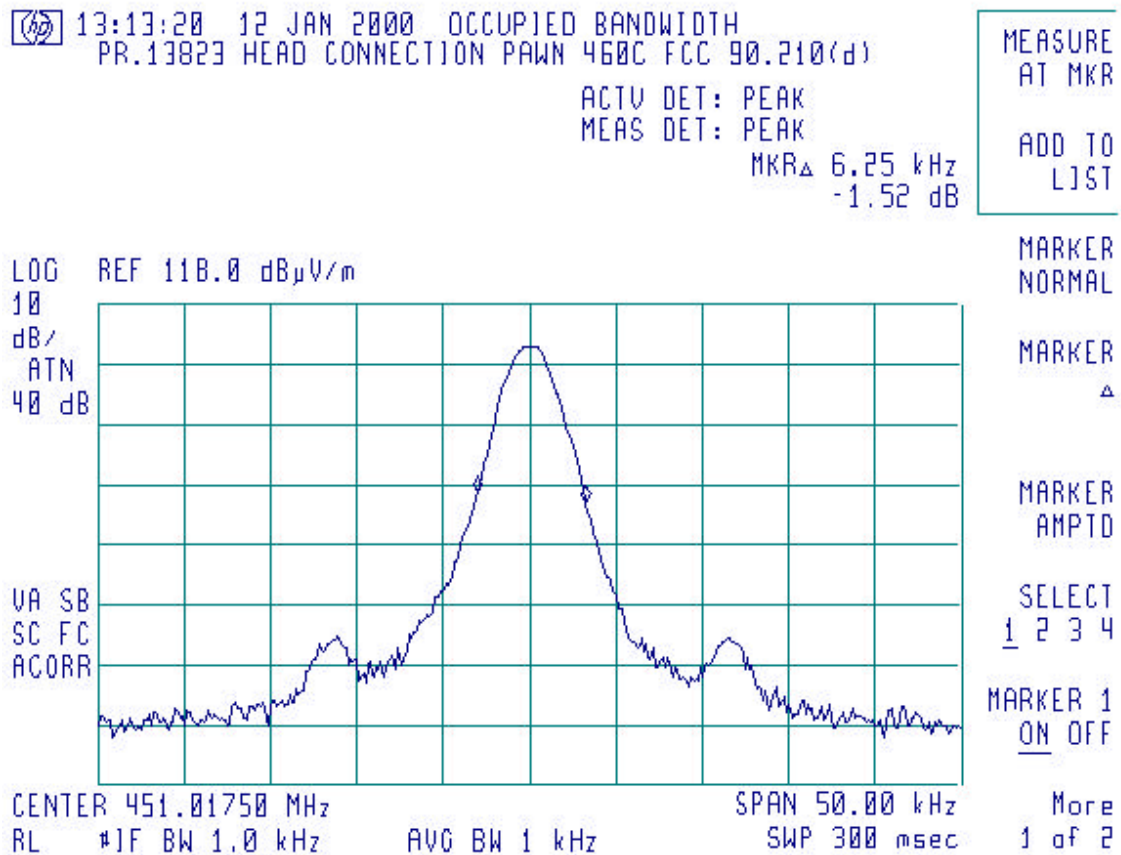
HL 0465	HL 0521	HL 0604
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Full description is in Appendix A.



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Plot 4.4.1
Occupied bandwidth measurements test result
F = 451.0175 MHz

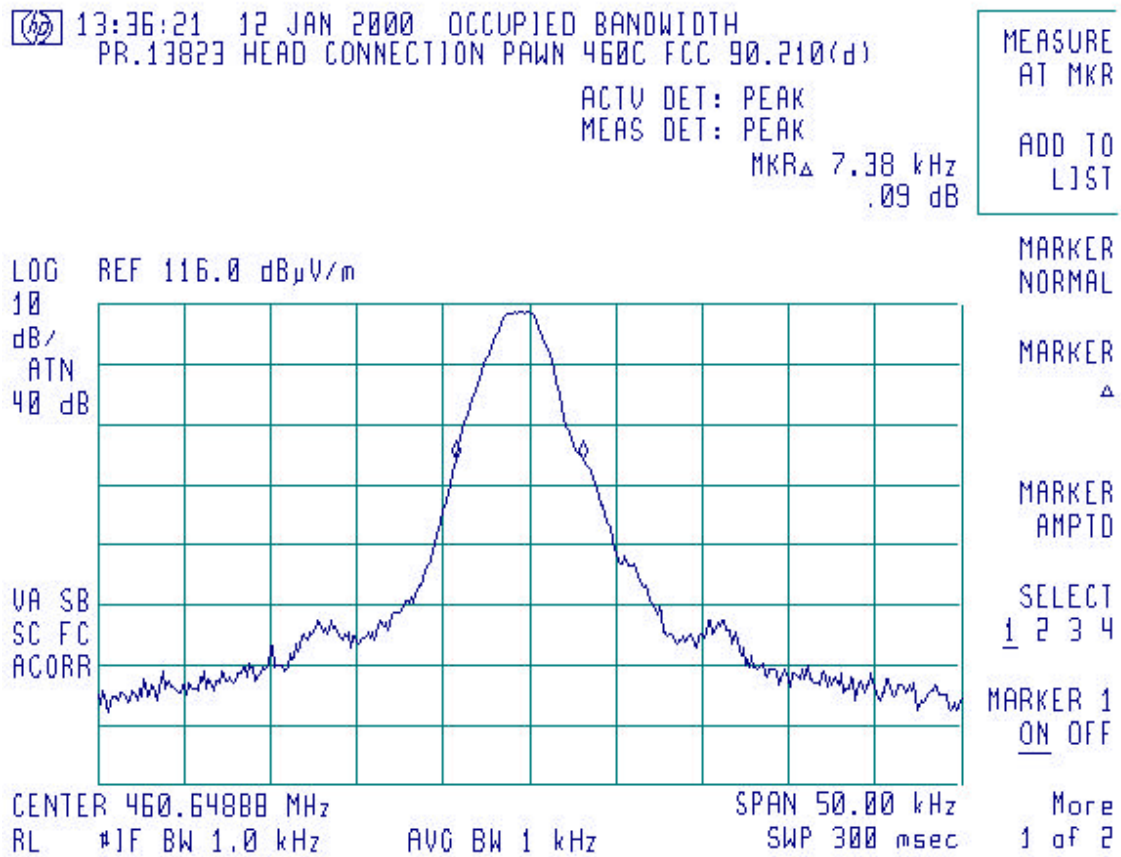


Occupied bandwidth = 6.25 kHz



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Plot 4.4.1
Occupied bandwidth measurements test result
F = 460.65 MHz

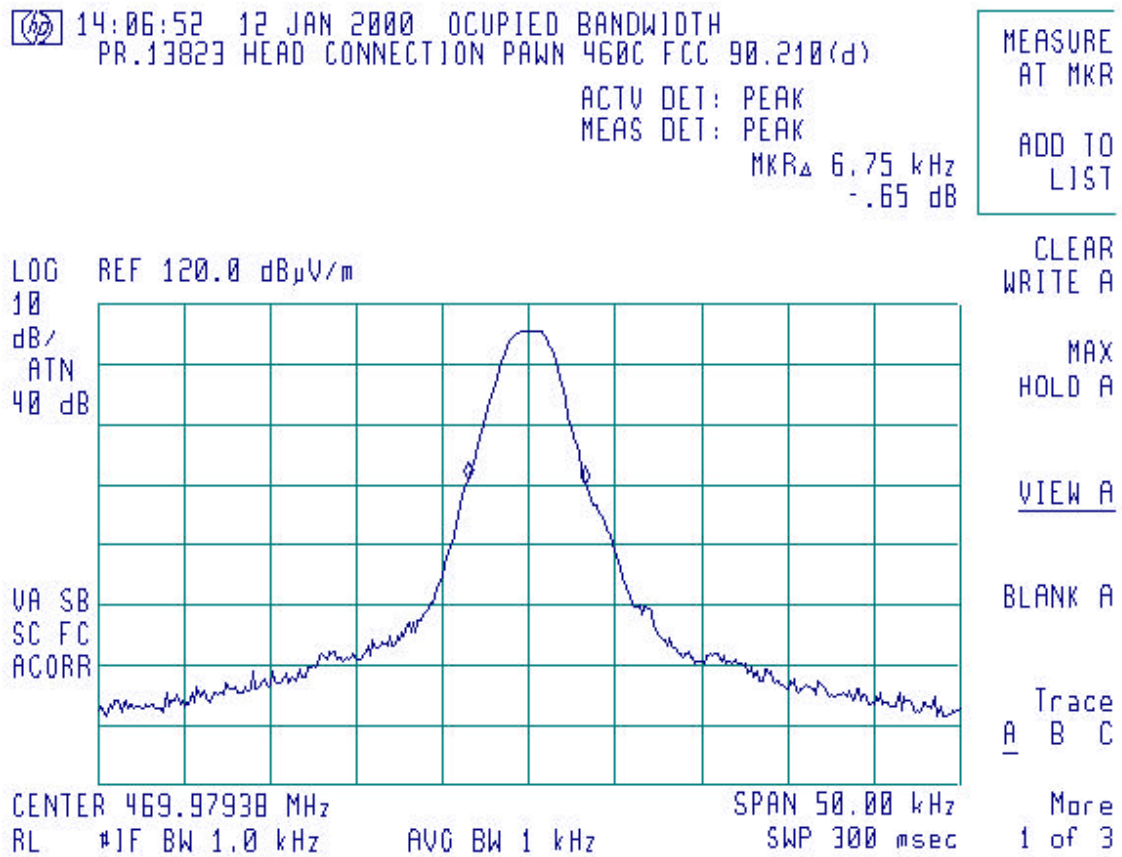


Occupied bandwidth = 7.38 kHz



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Plot 4.4.1
Occupied bandwidth measurements test result
F = 469.98 MHz



Occupied bandwidth = 6.75 kHz



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Photograph 4.4.1
Occupied bandwidth test setup

