

RTCA Special Committee 186, Working Group 3

ADS-B 1090 MOPS

Meeting #2

Reception Probability as a Function of Received Power

(Presented by William Harman)

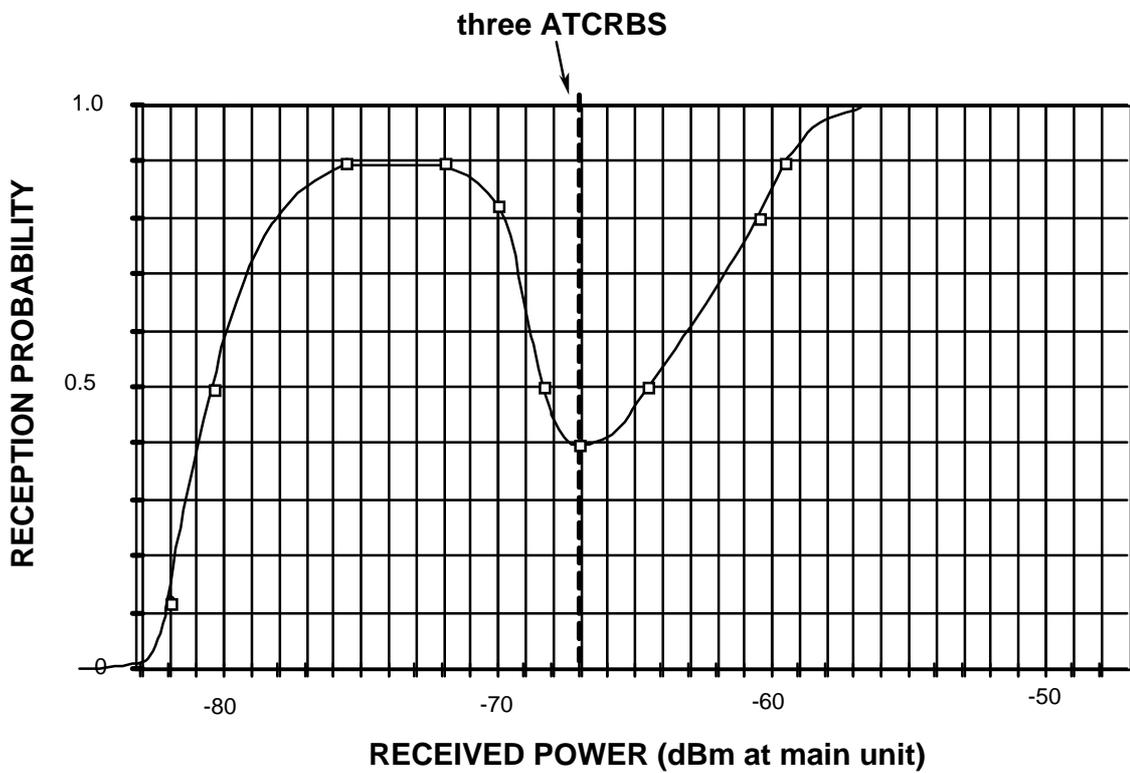
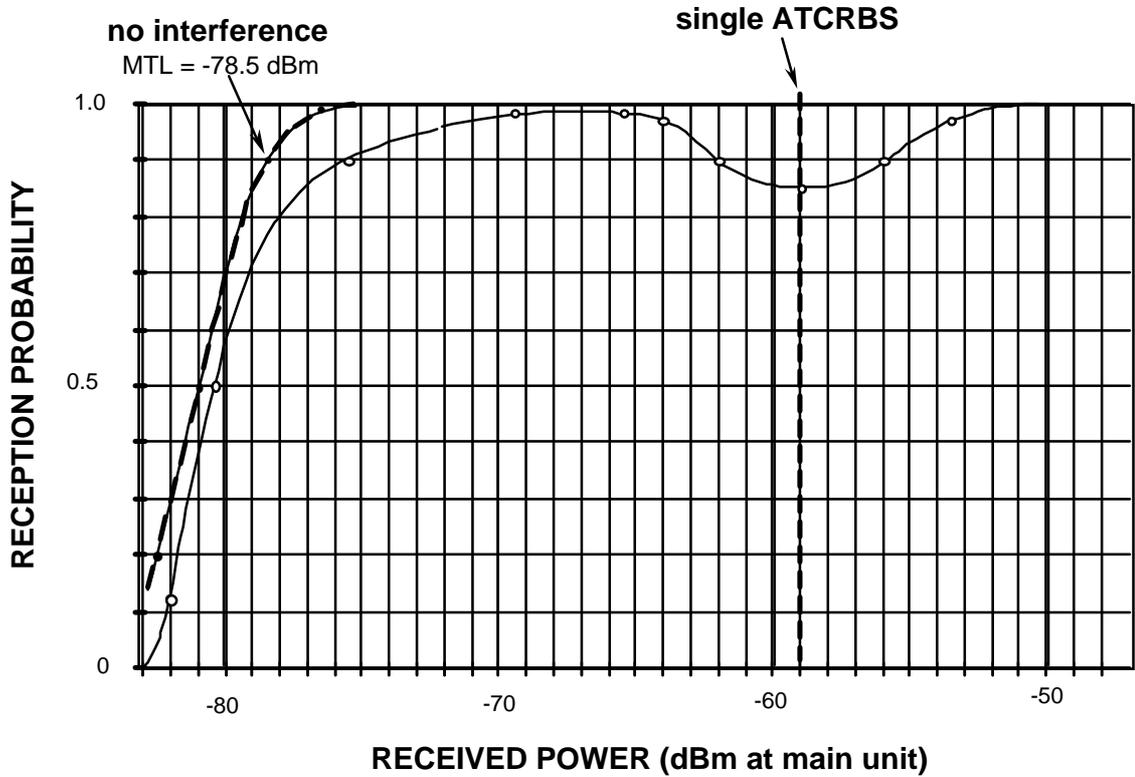
SUMMARY

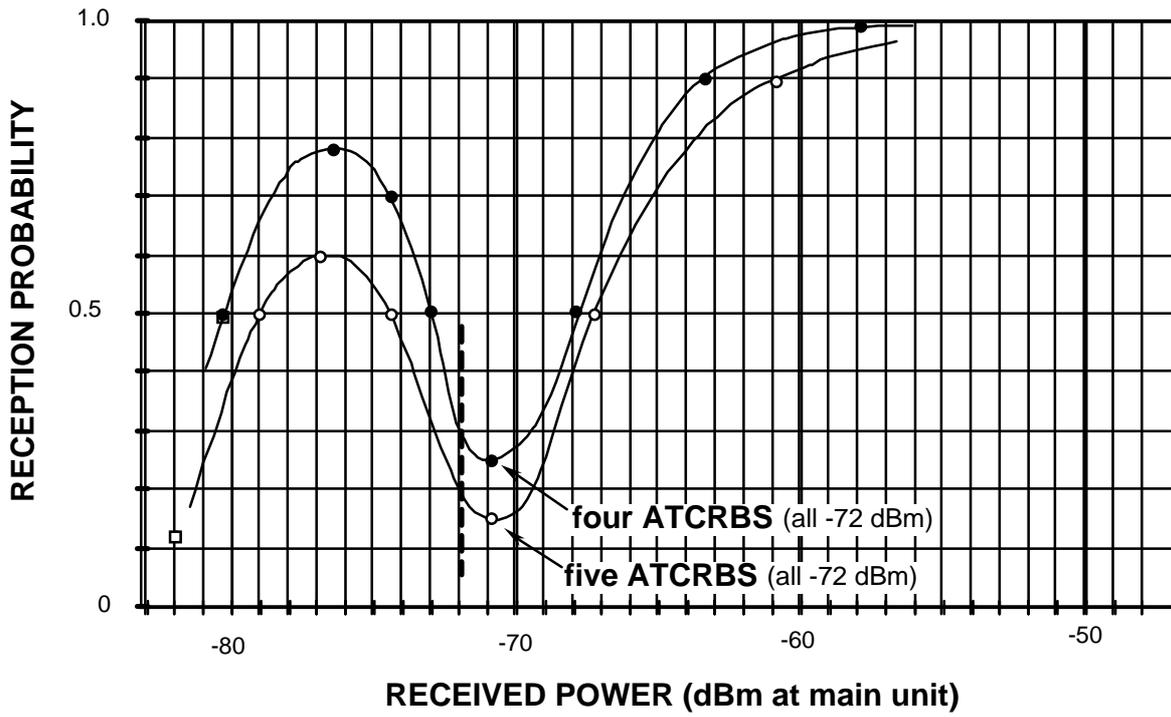
This paper presents plots showing probability of correct reception as a function of received signal power. The data were obtained from LDPU bench tests, performed by APL. This information is intended to help identify appropriate conditions for testing reception performance.

Extended Squitter Bench Tests

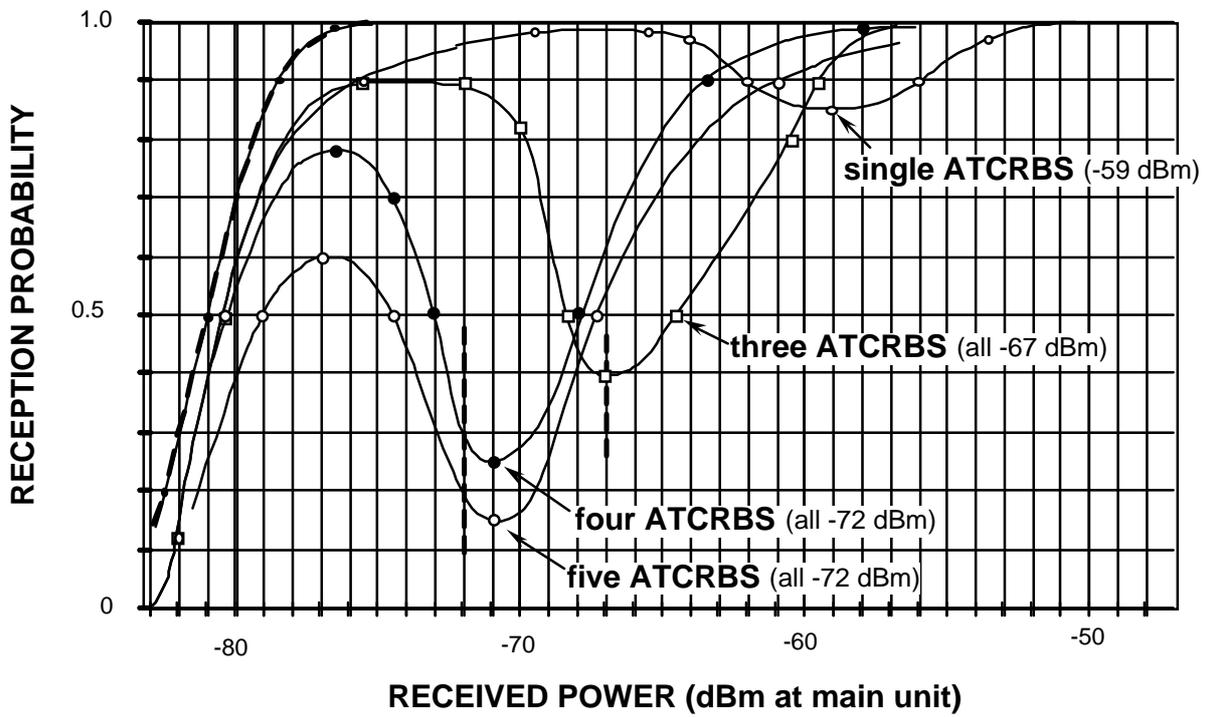
Tests performed by APL on an LDPU (minus preamp)

Extended Squitter with ATCRBS interference





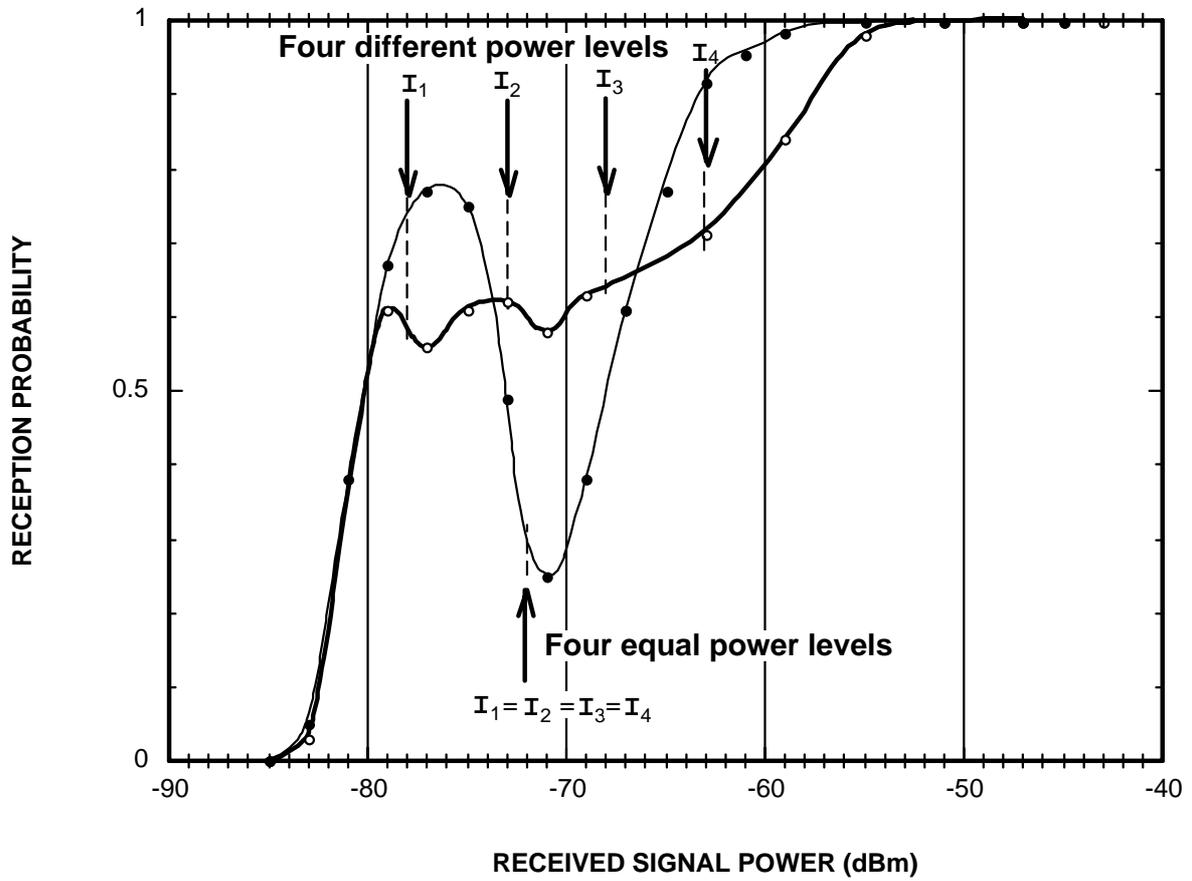
SUMMARY PLOT: Superposition of all curves.



Extended Squitter Bench Tests

Tests performed by APL on an LDPU (minus preamp)

Extended Squitter with Four ATCRBS Interferers



Extended Squitter with Three ATCRBS Interferers
Four different power levels

