

**Table 2-62: ADS-B Class “A” Equipment Receiver Sensitivity**

EQUIPMENT CLASS	A0	A1	A2	A3
MTL	-72 dBm	-74 dBm	-79 dBm	-84 dBm

**Note:** *The MTL limits of Table 2-62 must be complied with over the entire environmental operating range specified by the manufacturer of the receiver (e.g., receiver performance variations over temperature and other conditions must be taken into account).*

- b. In the absence of interference or overloads, each ADS-B receiver shall properly detect and decode at least 99% of all ADS-B messages received at an input signal level between the MTL + 3 dB and -21 dBm.
- c. In the absence of interference or overloads, each ADS-B receiver of equipment class A3 shall properly detect and decode at least 15% of all ADS-B messages received at an input signal level of -87 dBm.

**Notes:**

1. *This requirement need only be tested under ambient conditions.*
2. *The intent of this requirement is to emphasize the desirability of taking advantage of signals received below the required MTL.*

#### 2.2.4.3.1.2 Re-Triggerable Capability

ADS-B receivers having Equipment Class A1, A2 or A3 capability shall re-trigger if such receivers detect an ADS-B message having a preamble that is at least 3 dB stronger than ~~a—that of the~~ message that is currently being processed, and that begins 6 microseconds or later than does the preamble of the message currently being processed.

**Notes:**

- 1.—*This requirement is required in order to ensure that the ADS-B processor will properly detect and process the stronger signal.*
2. *Although re-triggering for the case of overlapping preambles is not required, such a capability is desirable. One way to accomplish this is described in Appendix I.*

#### 2.2.4.3.2 Out-of-Band Rejection

For out-of-band signals the ADS-B message signal level required to provide 90 percent ratio of decoded and accepted messages to the number of actual messages transmitted shall increase relative to the equipment MTL at 1090 MHz as provided in Table 2-63.