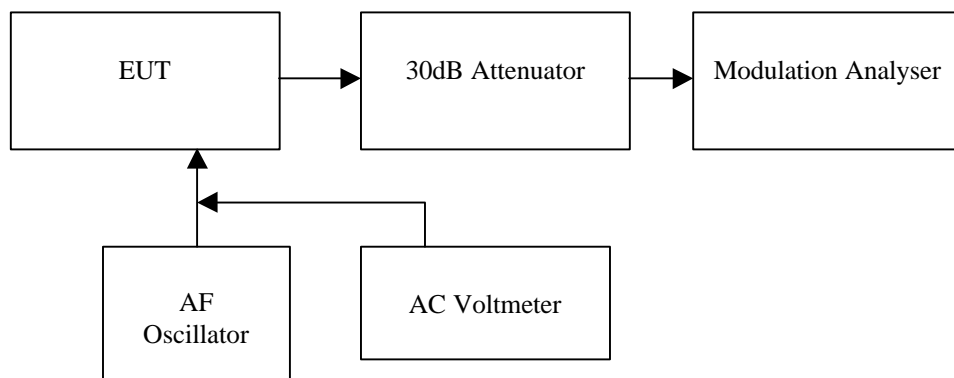


#### Modulation Characteristics – 47 CFR 2.1047 (a)

The transceiver is operated under standard test conditions and the output monitored with a modulation analyser via an attenuator of nominal impedance matching that of the transmitter. A test signal of 1000Hz sine wave is applied to the facilities connector modulation input pins, and the level adjusted to give 30% depth of modulation. Ensuring the audio input level is maintained constant, the modulation frequency is varied from 100Hz to 10kHz. The variation in depth of modulation is observed and recorded.

The modulation characteristic was measured in accordance with the following test configuration, using the test instruments listed.

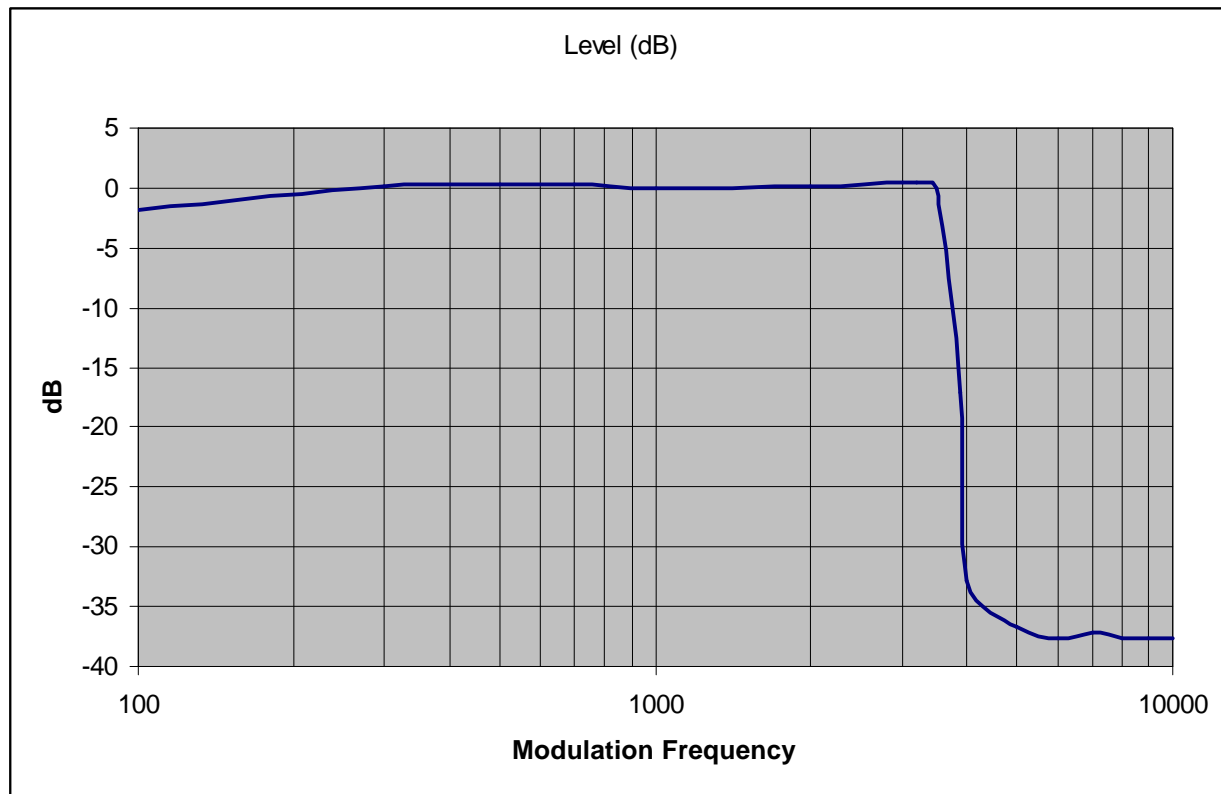


#### Test instruments used:

RF Attenuator	:	Bird 30dB, 500W Type 8325 Serial No. 102	
AF Oscillator	:	H P Audio Analyser Type HP8903B	Cal due 6-21-2001
AC Voltmeter	:	Philips PM2519 Serial No.DY0101684	Cal due 6-0
5-2001			
Modulation Analyser	:	H P Audio Analyser Type HP8901B	Cal due 6-21-2001

Results in accordance with Part 2.1047(a) and 87.141 Modulation Requirements.

### Modulation characteristic

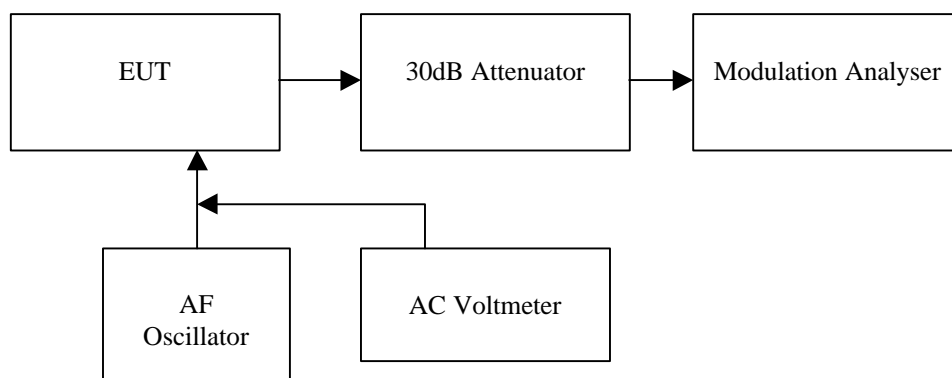


Modulation Characteristics – 47 CFR 2.1047 (b)

The transceiver is operated under standard test conditions and the output monitored with a modulation analyser via an attenuator of nominal impedance matching that of the transmitter. A test signal of 1000Hz sine wave is applied to the facilities connector modulation input pins, and the input level varied between  $-50\text{dBm}$  and  $+10\text{dBm}$  and the variation in the depth of modulation is observed and recorded.

The test was repeated with the test modulation frequency of 300Hz and 3000Hz

The modulation limiting characteristic was measured in accordance with the following test configuration, using the test instruments listed.



Test instruments used:

RF Attenuator	:	Bird 30dB, 500W Type 8325 Serial No. 102	
AF Oscillator	:	H P Audio Analyser Type HP8903B	Cal due 6-21-2001
AC Voltmeter	:	Philips PM2519 Serial No.DY0101684	Cal due 6-0
5-2001			
Modulation Analyser	:	H P Audio Analyser Type HP8901B	Cal due 6-21-2001

Results in accordance with Part 2.1047(b) and 87.141 Modulation Requirements.

### Modulation Limiting Characteristic

