

BZ5MX30V
Application for FCC Certification
Modulator Input
30 Watt VHF Translator

AUDIO FREQUENCY RESPONSE

Tabulated below, are the frequency response measurements for various percentages of modulation in accordance with Part 73.1570(b)(3). The tabulated data below, is in graphed form on the following pages.

Note: the measured curves are drawn offset -1.5dB to show that the measured response is within the prescribed limits.

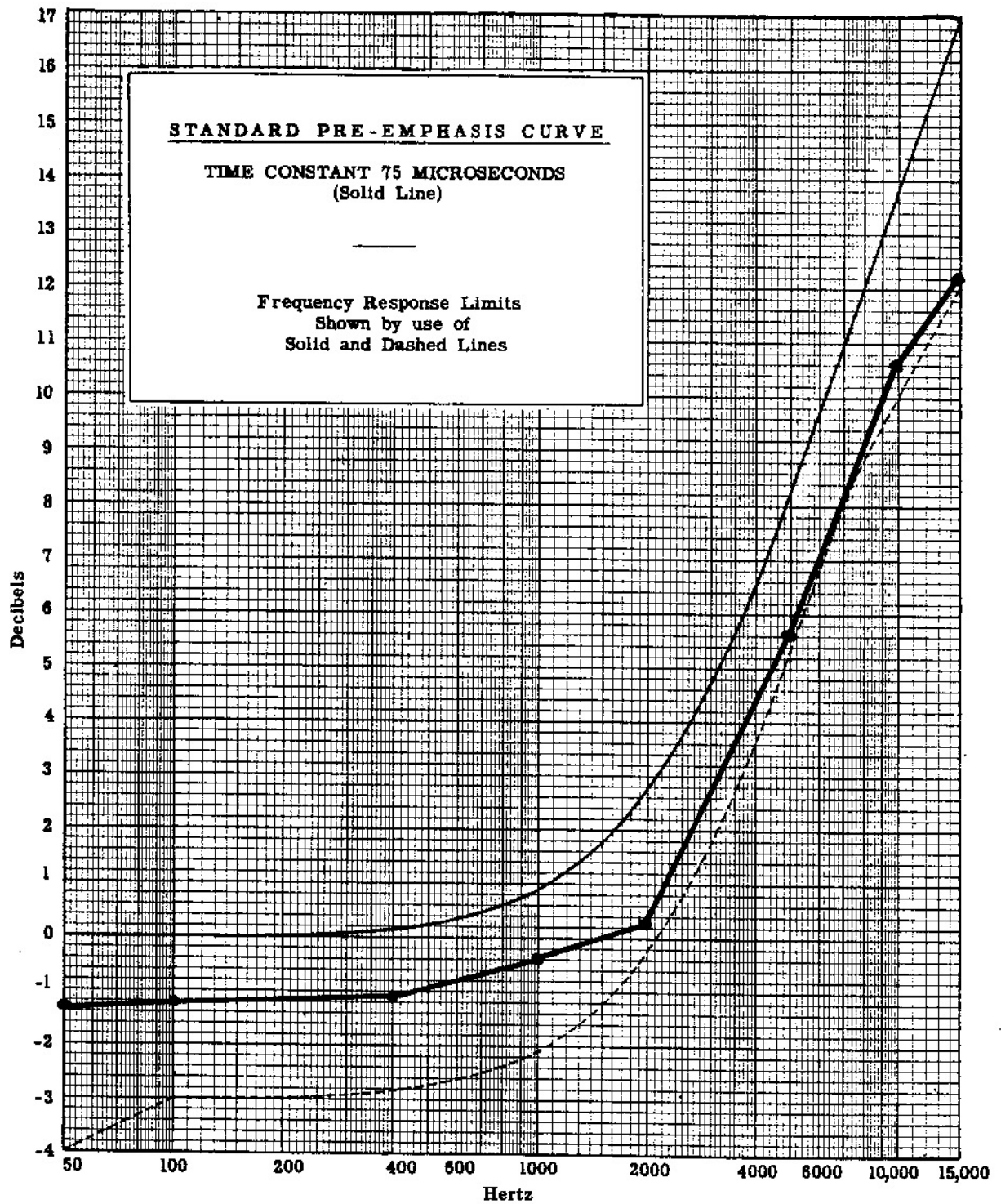
AUDIO FREQUENCY RESPONSE		
REFERENCE 50Hz AT 0dB INTO 600 OHMS		
FREQUENCY(Hz)	MODULATION	
	50%	100%
50	-1.37	-1.63
100	-1.33	-1.68
400	-1.27	-1.50
1000	-0.81	-0.69
5000	+5.10	+6.95
10000	+10.85	+12.12
15000	+12.68	+14.58

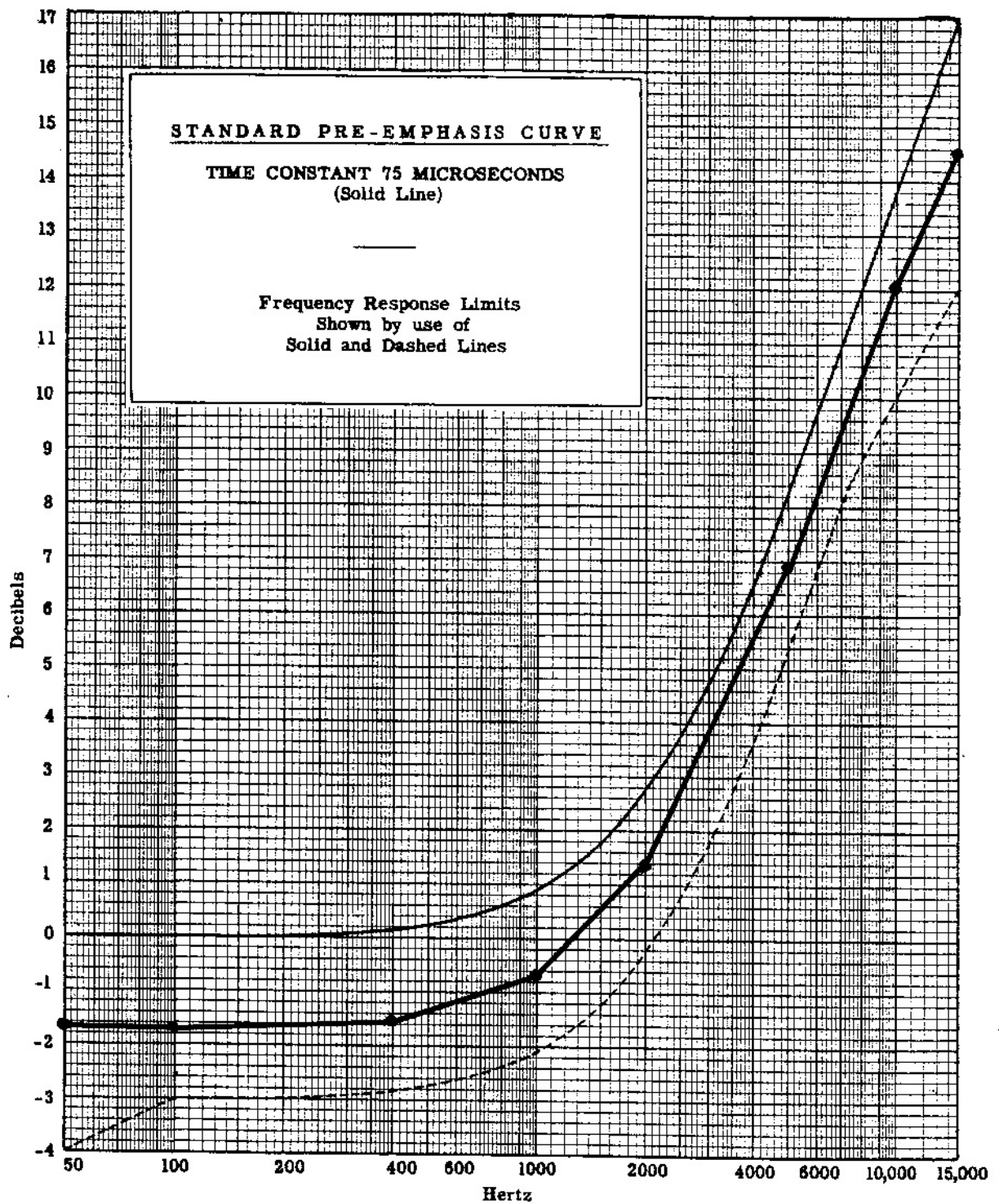
Tabulated below, are the harmonic distortion measurements.

AUDIO HARMONIC DISTORTION LEVEL (%)		
FREQUENCY(Hz)	MODULATION	
	50%	100%
50	4.95	2.59
100	3.68	2.42
400	2.89	1.97
1000	2.75	2.09
5000	4.13	2.06
10000	4.20	2.07
15000	2.76	1.18

The output noise level (FM measured as prescribed in the band of 50 to 15000 Hz) was 51dB below the level representing ± 25 kHz frequency swing.

The system noise output (AM) in the same band was 57dB below the level representing 100% amplitude modulation.

AUDIO FREQUENCY RESPONSE 50 % MODULATIONReference 50 Hz; 0dB = -1.5 dB

AUDIO FREQUENCY RESPONSE 100% MODULATIONReference 50 Hz; 0dB = -1.5 dB