

Preliminary Report of Microtremor Measurement on Yucatan

Date of measurement : October 26th, 1999

- Fourier Spectrum of North Point -

- Fourier Spectrum of East Point -

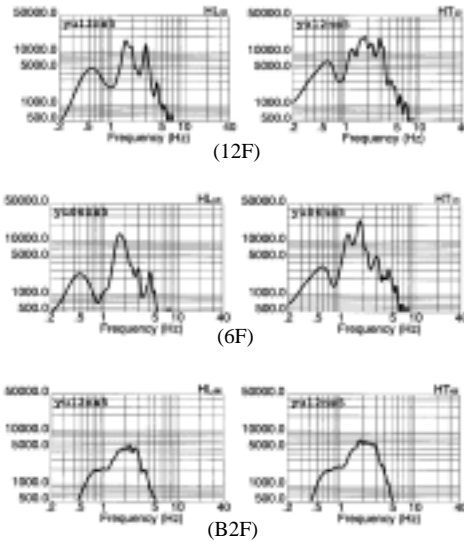


Fig.1 External appearance of measured building

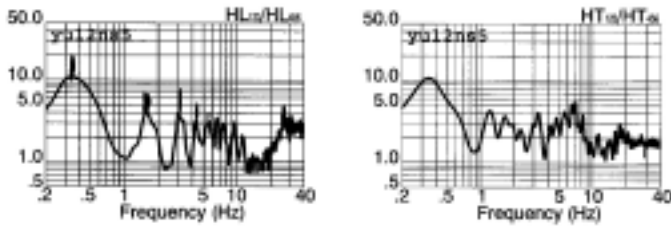
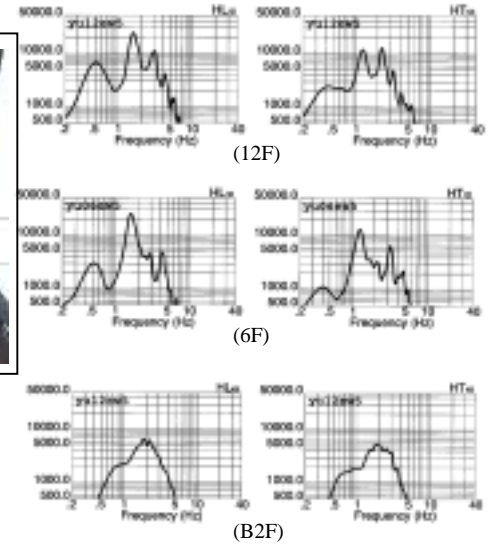


Fig.2 Estimated quasi-transfer spectrum of north point on the roof

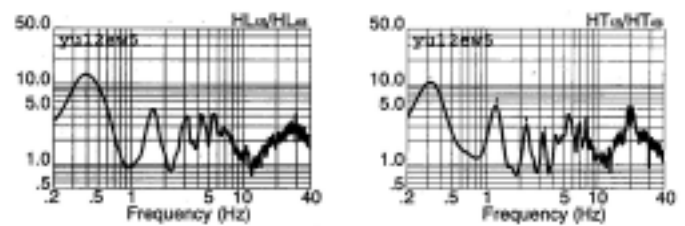


Fig.3 Estimated quasi-transfer spectrum of east point on the roof

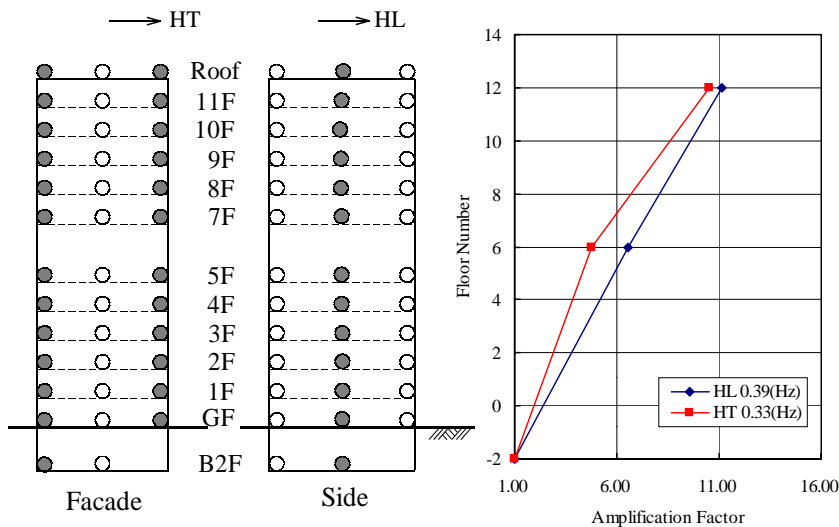


Fig.4 Measured points on each floor and vibration mode

Predominant Frequencies
 Statistic value
 $F = (10 \sim 16)/N$
 $= 0.83 \sim 1.33(\text{Hz})$

Measured value
 HL component $F=0.39(\text{Hz})$
 HT component $F=0.33(\text{Hz})$

F: Frequency (Hz)
 N: Number of stories (Floor)