

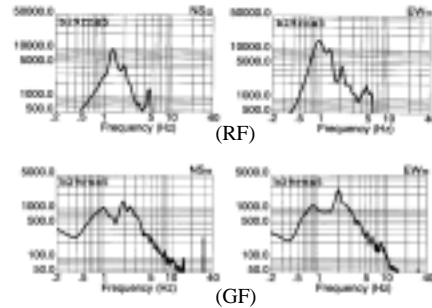
Preliminary Report of Microtremor Measurement on Arteaga

Date of measurement : November 20th, 2000



Fig.1 External appearance of measured building

- Fourier Spectrum of North Point -



- Fourier Spectrum of East Point -

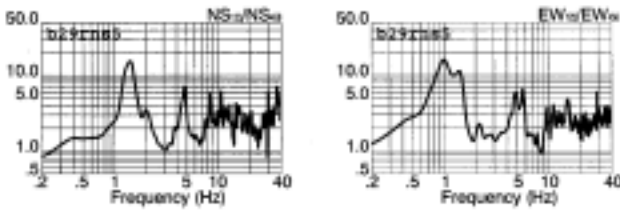
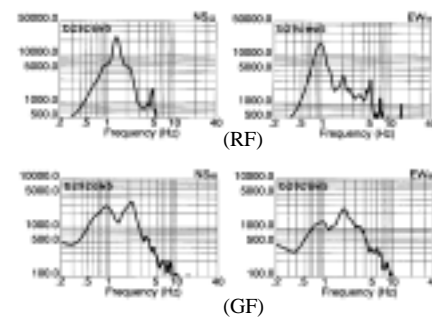


Fig.2 Estimated quasi-transfer spectrum of north point on the roof

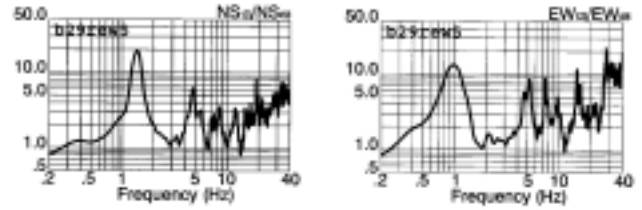


Fig.3 Estimated quasi-transfer spectrum of east point on the roof

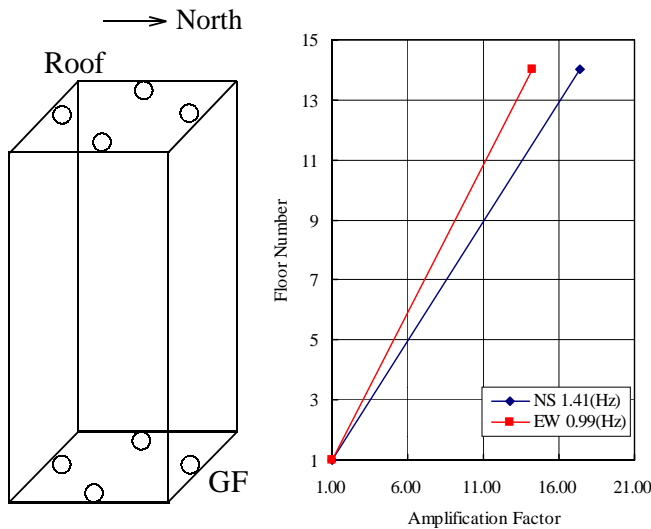


Fig.4 Measured points on each floor and vibration mode

Predominant Frequencies
 Statistic value

$$F = (10 \sim 16) / N$$

$$= 0.74 \sim 1.14(\text{Hz})$$
 Measured value
 NS component $F=1.41(\text{Hz})$
 EW component $F=0.99(\text{Hz})$

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