## Observations of SiO (v=1, 2) J=4-3, J=3-2, and J=2-1 Maser Emission and Statistical Study II.

HyunSoo Chung<sup>1</sup>, Se-Hyung Cho<sup>1</sup>, Hyo-Ryoung Kim<sup>1</sup>, Hyun-Goo Kim<sup>1</sup>, Duk-Gyu Roh<sup>1</sup>, and Bob-Young Oh<sup>2</sup>

Observations of SiO (v=1, 2) J=4-3, J=3-2 transitions were carried out for 42 program stars with the 14m radio telescope at Taeduk Radio Astronomy Observatory(TRAO).

For SiO v=1, 2, J=4-3 maser observations of 1996 February and 1997 February-March, the line was detected in 1 and 4 stars, respectively (from 10 observed stars).

For SiO v=1, 2, J=3-2 maser observations of 1998 February-March, the line was detected in 18 stars containing 3 new detections (from 42 observed stars).

Statistical studies of SiO (v=1, 2) J=3-2 and J=2-1 maser emission are made by using the observational results from 1995 to 1996(Cho et al. 1998; paper I) and the results from 1997 to 1998. The relation between the SiO intensity and velocity structure and stellar pulsation etc was investigated.

<sup>&</sup>lt;sup>1</sup> Taeduk Radio Astronomy Observatory, Korea Astronomy Observatory

<sup>&</sup>lt;sup>2</sup> Department of Astronomy and Space Science, Chungnam National University