

The HIMAC Very Low Ripple Synchrotron - PART II, N. ARAKI, M. KUMADA, M. KANAZAWA, K. NODA, S. STO, E. TAKADA, NIRS; A. ITANO, Hyogo Pref. Gov.; S. MATUMOTO, Dokkyo Med. UNiv; K. SATO, RCNP; K. KUBO, Hitachi Ltd.; T. AOKI, AEC - Ripples in the HIMAC synchrotron power supply are greatly improved since the commissioning. As the high frequency ripple and spike were removed by a static method of the bridge resistor and the common mode filter, the improvement was focused on the low frequency components of 50 Hz, 100 Hz and 1200 Hz of the normal mode of the Focusing Quadrupole and the Bending magnet power supply. The major improvement was performed by a replacement of the DCCT and development of an active filter and a suppression of high frequency noises. During the upgrade, it was found that the ripple tolerance in the Bending magnet power supply must be a sub-ppm level in the HIMAC where a third order resonant extraction is employed. Detail of the upgrade since the previous report in this conference is described in this article.