

# SHIMADZU APPLICATION NEWS

## HIGH PERFORMANCE LIQUID CHROMATOGRAPHY 152

### Analysis of Anions in Soil

For the analysis of inorganic ions, a special ion chromatograph or the reversed phase ion pair method by a high-performance liquid chromatograph is applied. Ion chromatography, which features simultaneous analysis of many components, rapidity of analysis, and high sensitivity, is best suited for the analysis of various ions. For this reason, it has come to be widely used in various fields. Shimadzu HIC-6A Ion Chromatograph has made its debut as a high-performance analytical instrument which is based on the experience and expertise of Shimadzu in the production of HPLC's.

Because of the nonsuppressor system adopted in the instrument, it can be operated easily by anybody. An electrical conductivity detector (CDD-6A) which features high stability and high sensitivity is built in, allowing highly accurate results of analysis to be obtained.

Introduced here is an example of analysis of anions in soil by the Shimadzu HIC-6A Ion Chromatograph. Also, an example of analysis of anions in soil by LC-6A HPLC anion analysis system which is enjoying a good reputation among the users.

#### ■ Separation of a Standard Anion Sample by the HIC-6A

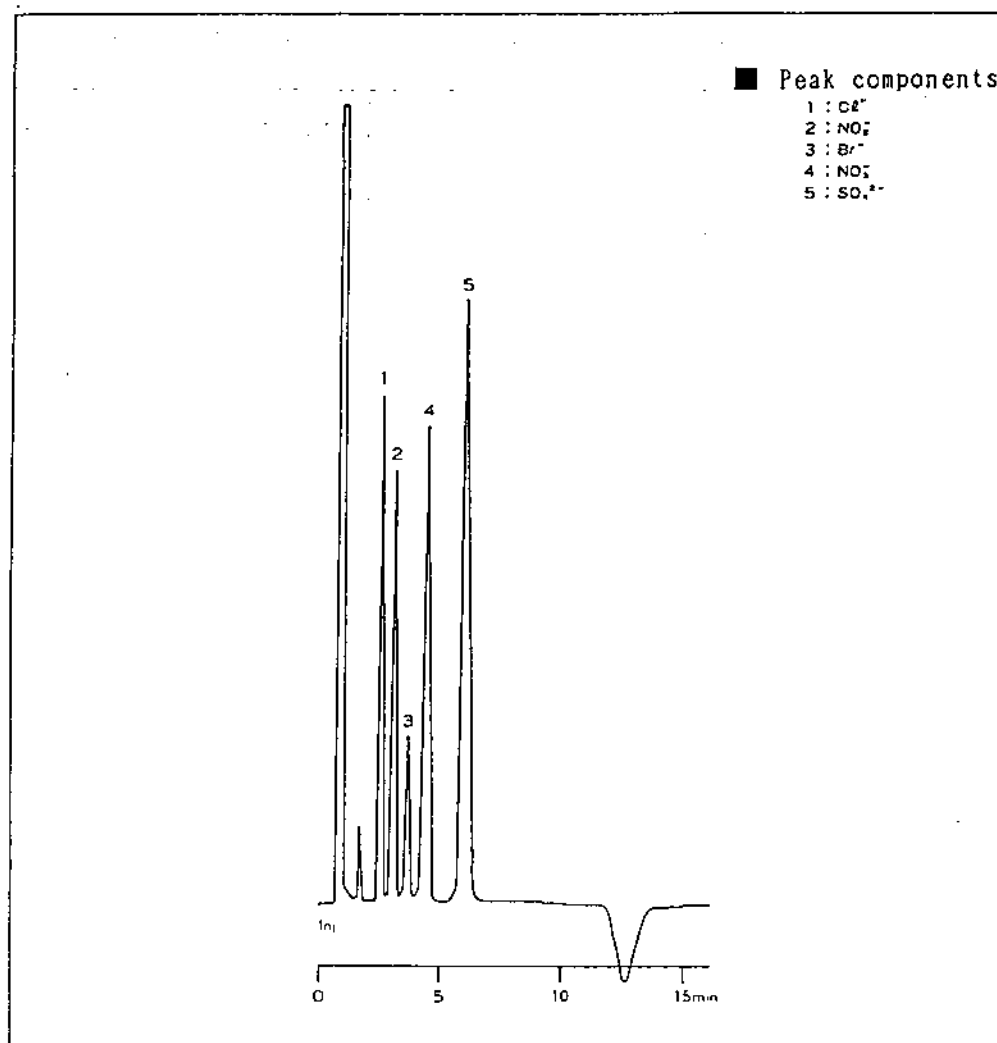


Fig. 1

■ Separation of Soil Solution by the HIC-6A

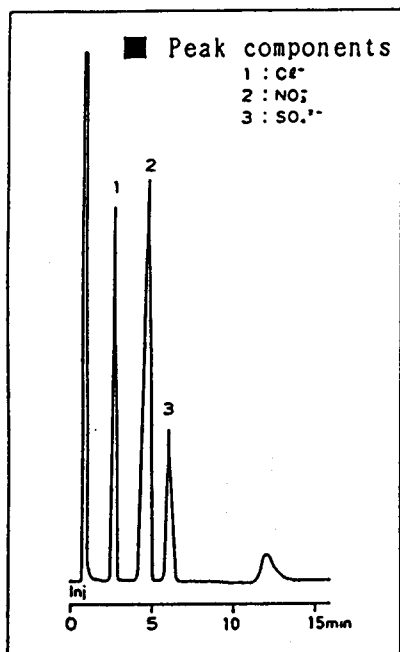


Fig. 2

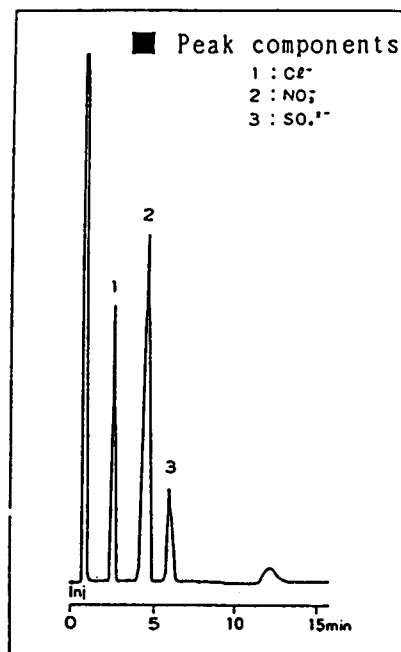


Fig. 3

The soil solution used for the above analysis is by the courtesy of Tokyo University of Agriculture (Prof. Goto).

■ Analysis of Soil Solution by LC-6A Inorganic Ion Analysis System

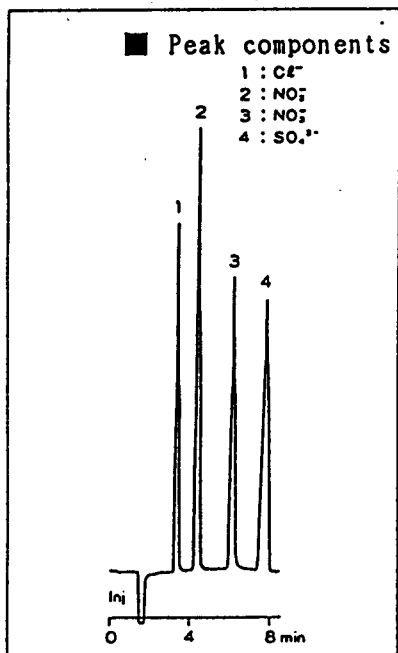


Fig. 4

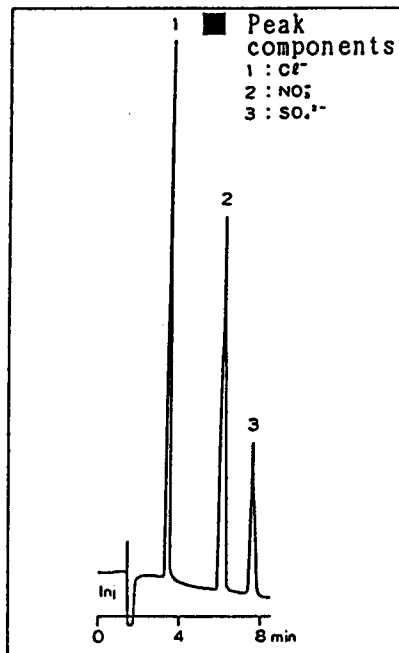


Fig. 5

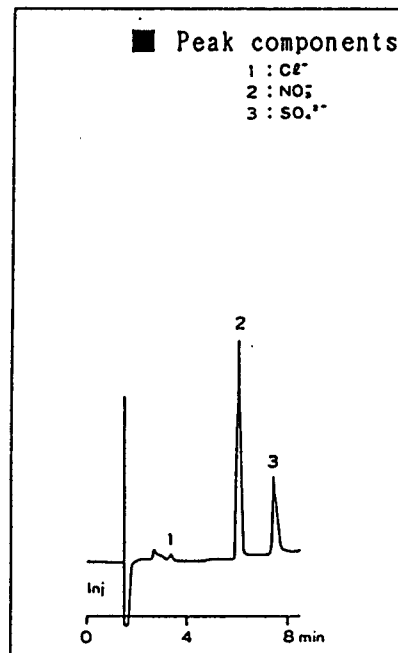


Fig. 6



**SHIMADZU CORPORATION**

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**INTERNATIONAL MARKETING DIVISION**

3, Kanda-Nishikicho 1-chome, Chiyoda-ku, Tokyo 101, Japan

Phone: (03) 219-5641

FAX : (03) 219-5710

Cable Add.: SHIMADZU TOKYO

Overseas Telex No.: 0232-3291 (SHMDT J)

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