

V. CONCLUSION

This article presents the electronic nose and program development for air pollutions monitoring and alarming for industrial area. There are 4 sensors are used as electronic nose which consist of TGS2620, TGS2620, TGS2442 and TGS832. The experiment results can be notice that those sensors can classify and sensitive to the different gas as shown in Fig. 7 and Fig. 8. In Fig. 8, the PCA is also used to classify group of sensor results.

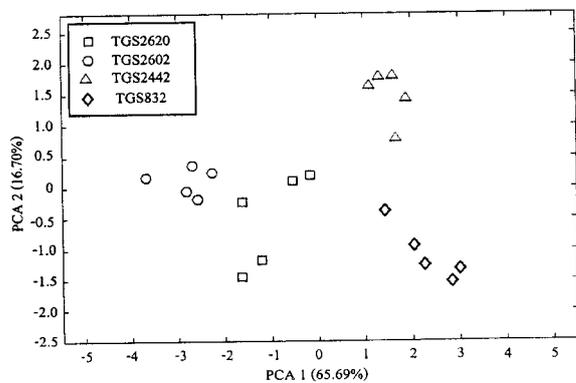


Fig. 8. The PCA is also used to classify group of sensor results

Moreover, this system can completely identify the methanol, n-propanol, hexane and dichloromethane as shown in Table II and III. The warning and alarm time are also provided. The maximum is 230 sec for warning of methanol and 582 sec for alarm of dichloromethane.

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