

# Effects of Differential Fuels on the Distribution Characteristics of PCDD/Fs

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## ABSTRACT

The effects of differential fuels on the distribution characteristics of PCDD/Fs was explored in this study for investigating the municipal solid wastes (MSW) incinerator, industrial wastes incinerator, and burn-wood boiler. The information was obtained from the measurement report submit to the environmental protection bureau. Before comparing the concentration (corrected to 11% oxygen concentration) and the species of dioxins, the accuracy for the sampli method and the reasonableness of the data were investigating carefully. The results in this study indicated that (1) Normal garbage will make 2, 3, 4, 7, 8-PCDF and then 2,3,4,6,7,8-HCDF and 1, 2,3,6,7,8-HCDD. (2) The industrial garbage will make 2,3,4,7,8-PCDF and then 2,3,4,6,7,8-HCDF and 1,2,3,6,7,8-HCDF. (3) The burn-wood boiler will make 2,3,4,7,8-PCDF and then 1,2,3,7,8- PCDD and 2,3,7,8-TCDD. Therefore, the concentrations of 2, 3, 4, 7, 8-PCDF Dioxins chemical composition will be the mainly production from three different types of incinerators.

Keywords : Burn-wood boiler ; incinerator ; 2,3,4,7,8-PCDF

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