

Statistically Significant Differences of Carbon Dioxide and Carbon Monoxide Emission in Photocopying Process

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Abstract : Experimental results confirmed the temporal variation of carbon dioxide and carbon monoxide concentration during the working shift of the photocopying process in a small photocopying shop in Novi Sad, Serbia. The statistically significant differences of target gases were examined with two-way analysis of variance without replication followed by Scheffe's post hoc test. The existence of statistically significant differences was obtained for carbon monoxide emission which is pointed out with F -values (12.37 and 31.88) greater than F_{crit} (6.94) in contrary to carbon dioxide emission (F -values of 1.23 and 3.12 were less than F_{crit}). Scheffe's post hoc test indicated that sampling point A (near the photocopier machine) and second time interval contribute the most on carbon monoxide emission.

Keywords : analysis of variance, carbon dioxide, carbon monoxide, photocopying indoor, Scheffe's test

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