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DEPARTMENT OF CHEMISTRY

REPORT TO: Tony Camarota, Avtec Industries
FROM: Dr. David K. Ryan
DATE: April 6, 2001
SUBJECT: Low level bromine analysis of one sample of fire retardant material.

One sample of fire retardant material previously analyzed by Secondary Ion Mass Spectrometry (SIMS) was reanalyzed for its bromine (Br) content by Spark Source Mass Spectrometry. The untreated sample was placed in a Northern Analytical Spark Source Mass Spectrometer and ionized. Careful counting of the bromine ions produced resulted in a measured total bromine content of 25.0 ppm by weight ($\mu\text{g/g}$). The uncertainty in this value is better than four parts in 1000 or approximately ± 0.1 ppm. Therefore the reported result is:

25.0 ± 0.1 ppm Br

This result is in agreement with the previously reported value of < 0.1 %.