

Research & Development Establishment,
British-American Tobacco Co. Ltd.,
SOUTHAMPTON.

BBC/CAL/46C

10th March 1969.

A QUICK METHOD FOR ESTIMATING THE DELIVERY OF TOTAL AROMATIC
POLYCYCLIC HYDROCARBONS BY FLUORESCENCE

(Laboratory Report No. L.306-R)

SUMMARY

A quick and precise method has been developed for estimating the concentration of aromatic polycyclic hydrocarbons in smoke. It is based on a measurement of the fluorescence of a purified non-polar neutral fraction of total particulate matter.

However, because it is highly likely that the neutral non-polar fraction contains fluorescent compounds other than polycyclic aromatic hydrocarbons, it is recommended that this method be used mainly for preliminary surveys of the polycyclic aromatic hydrocarbon concentration in smoke, and that the GLC method be used to confirm the principal findings.

110033997