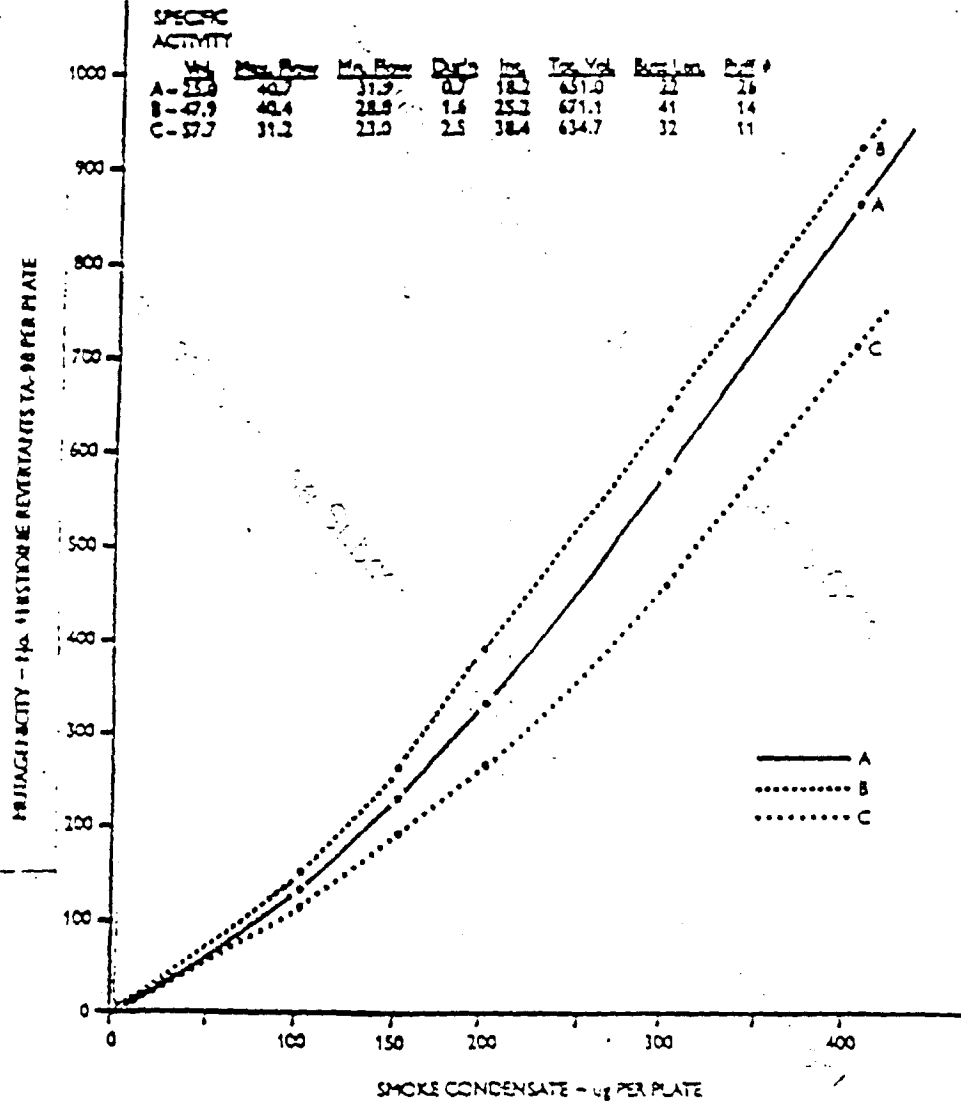


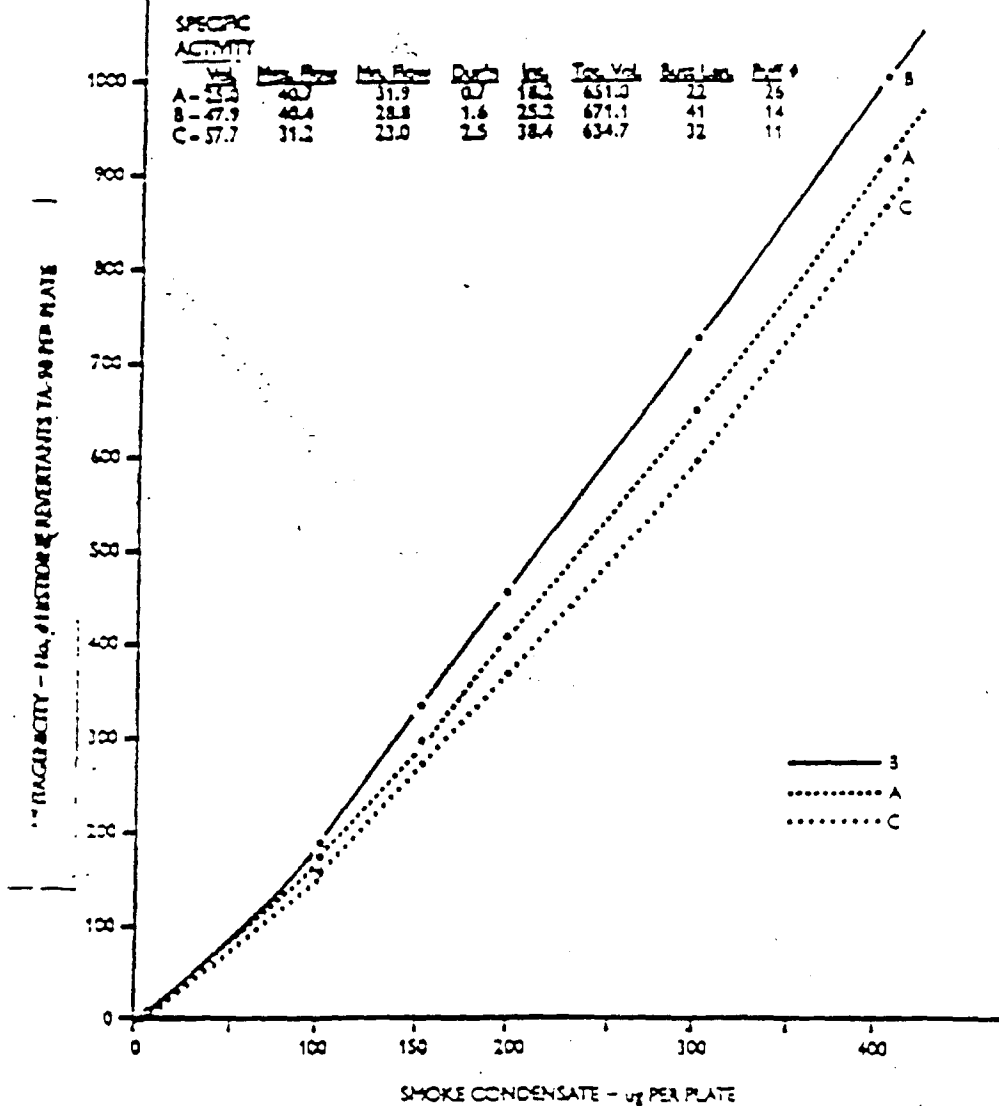
### CHANGE IN PUFF DURATION AND INTERVAL - duMLK



BW-V2-02011

503100293

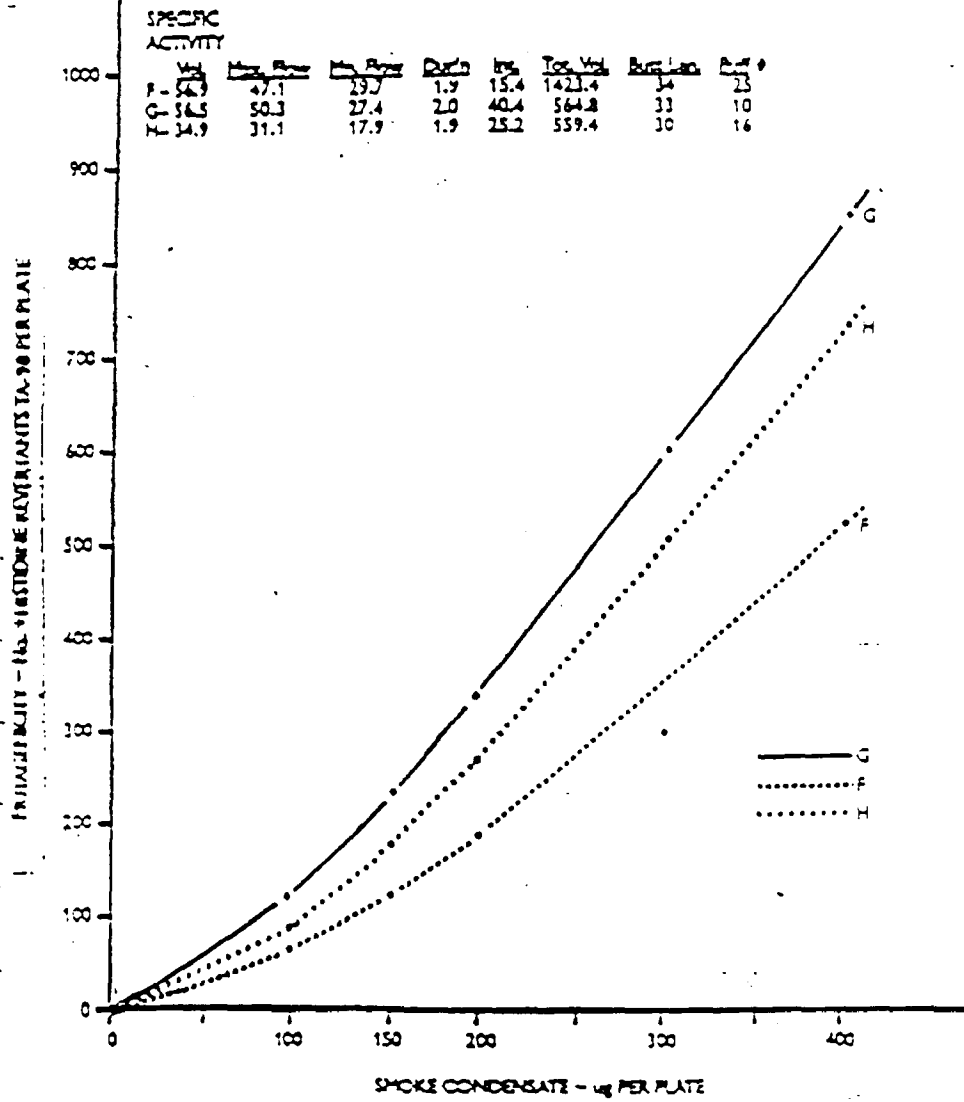
### CHANGE IN PUFF DURATION AND INTERVAL - MEM



BU 47 02910

503100294

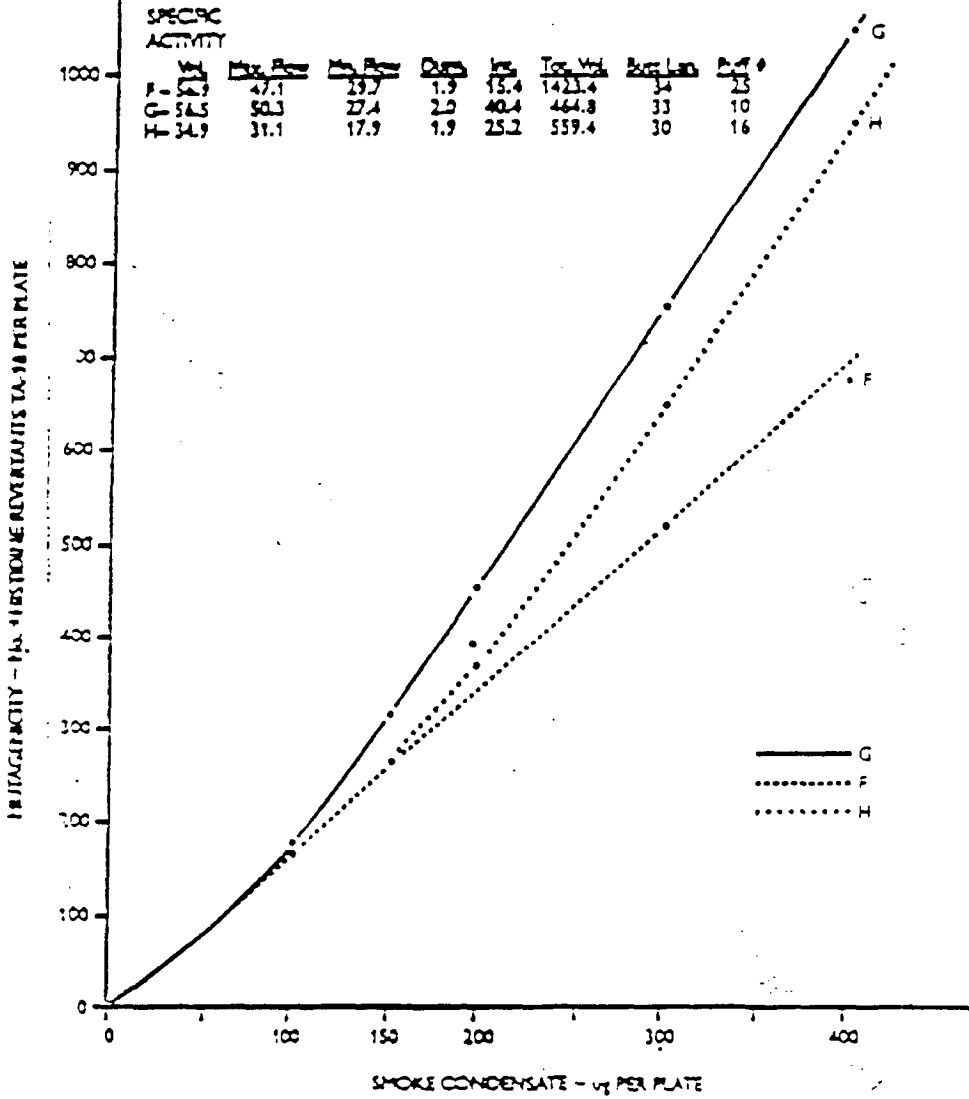
# CHANGE IN TOTAL VOLUME DUE TO INTERVAL & PUFF NUMBER CHANGE - duMLK



BW-02-02809

503100295

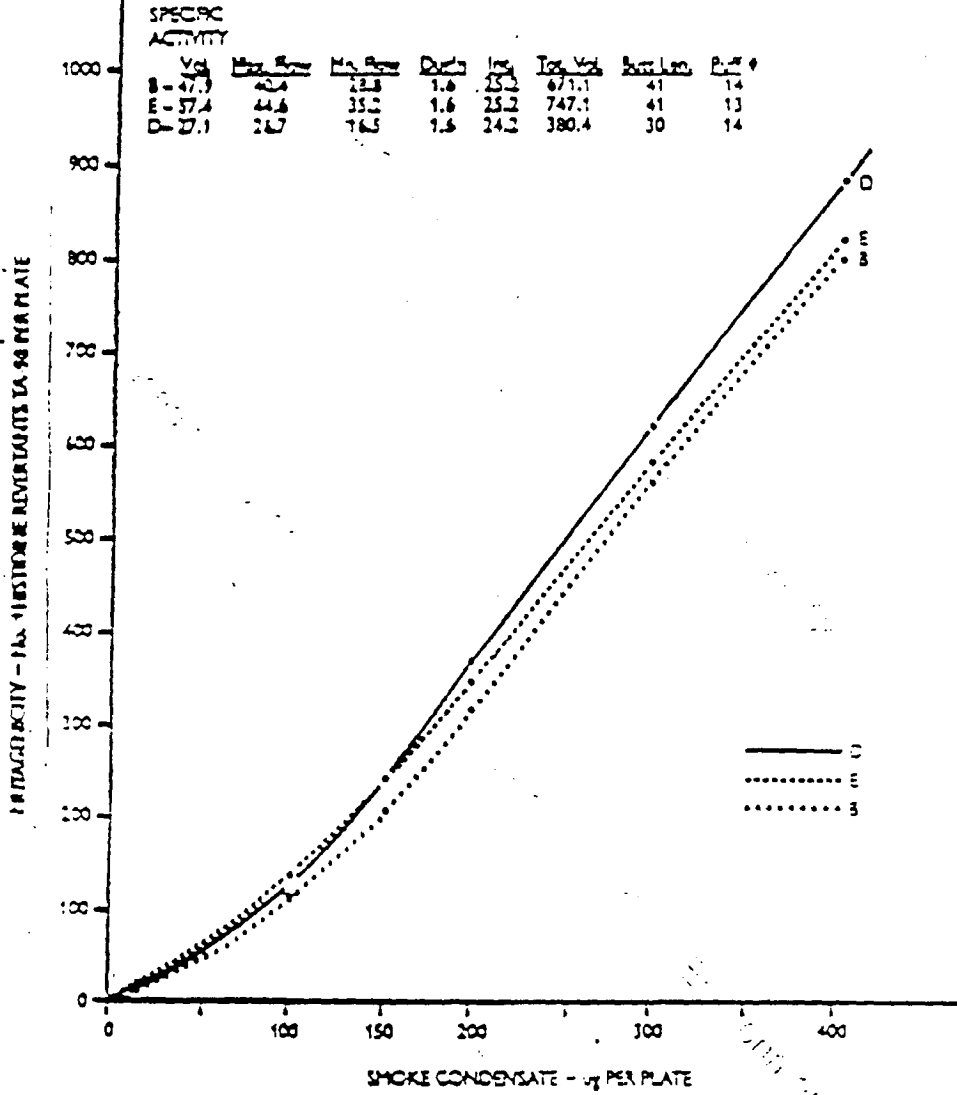
CHANGE IN TOTAL VOLUME  
DUE TO INTERVAL & PUFF NUMBER CHANGE - MEM



BW-W2-028011

503100296

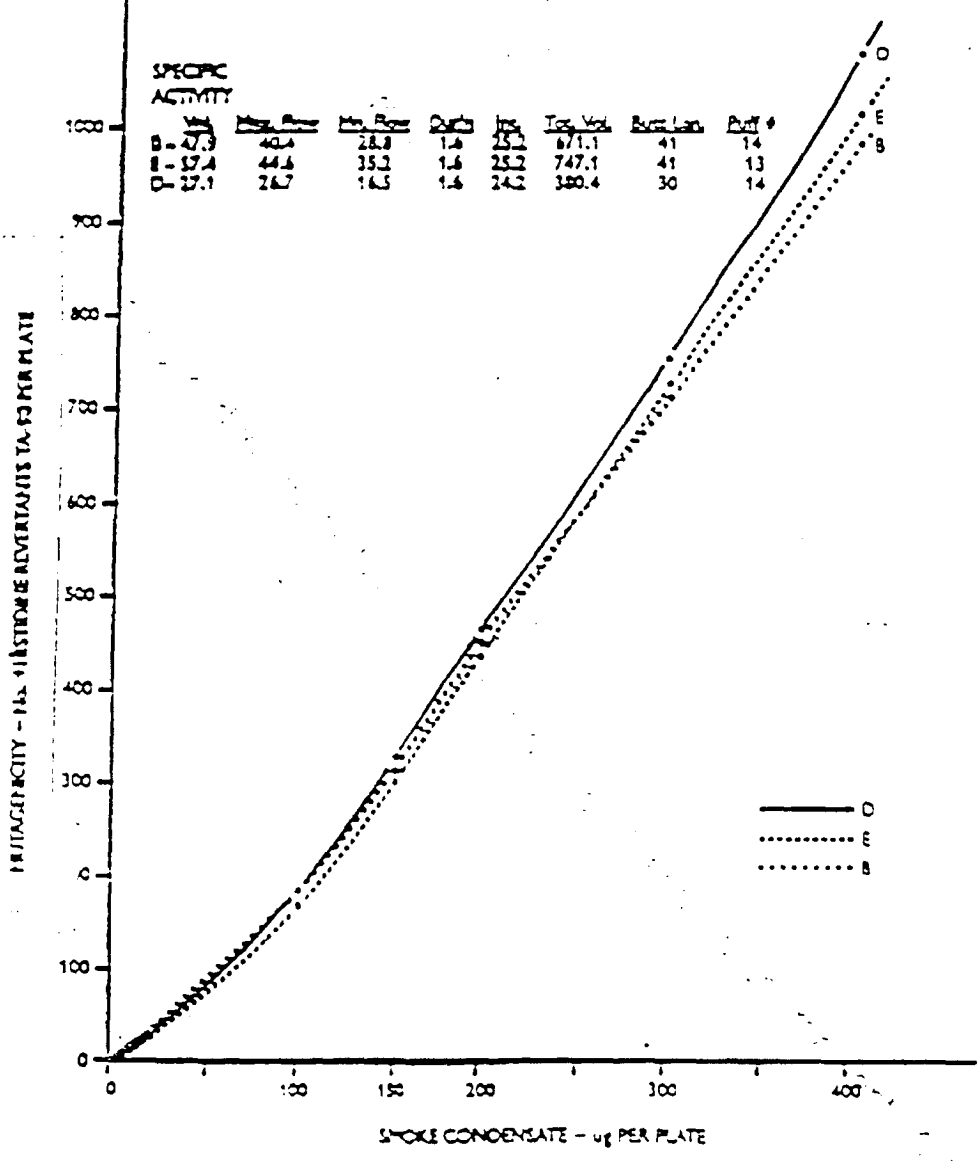
## CHANGE IN AVERAGE FLOWS AND VOLUMES - duMLK



DU-MP-02107

505100297

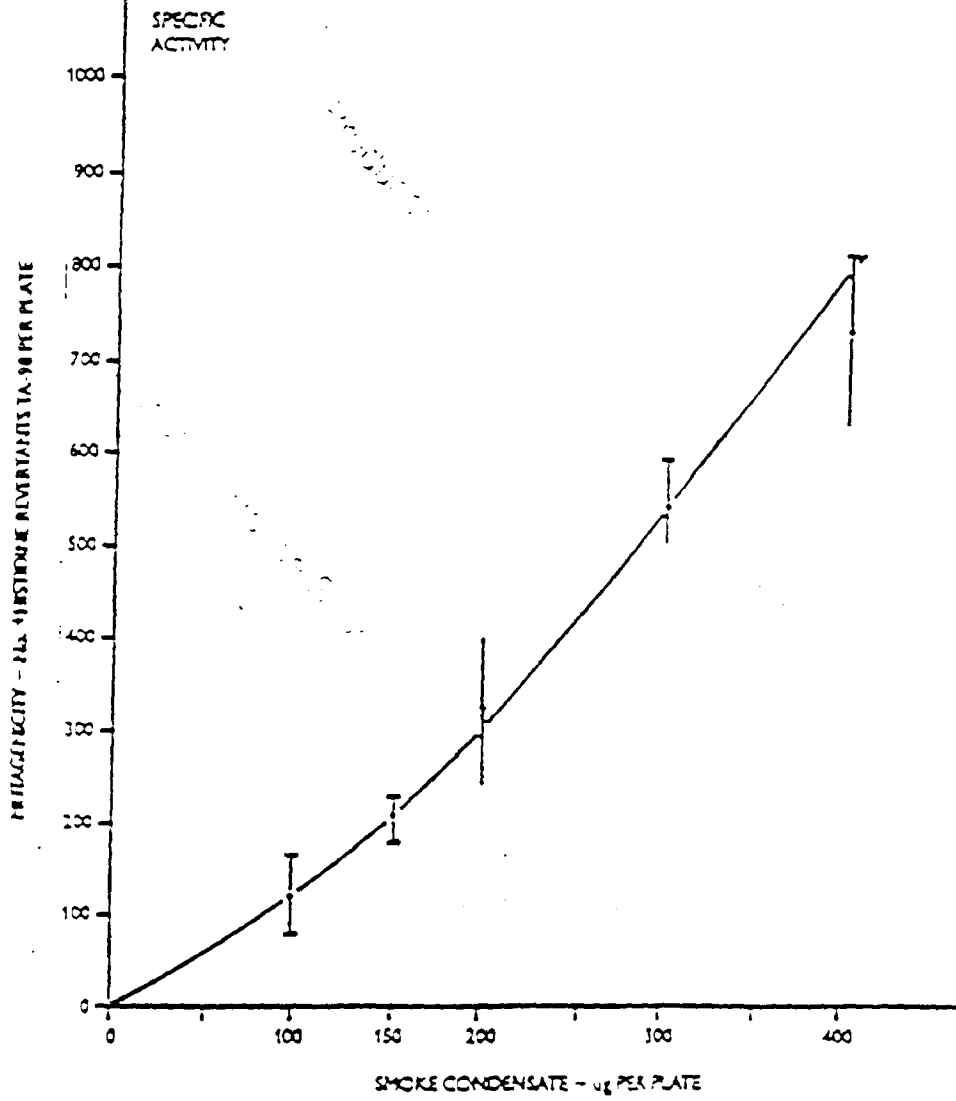
### CHANGE IN AVERAGE FLOWS AND VOLUMES - MEM



BW-02806

503100238

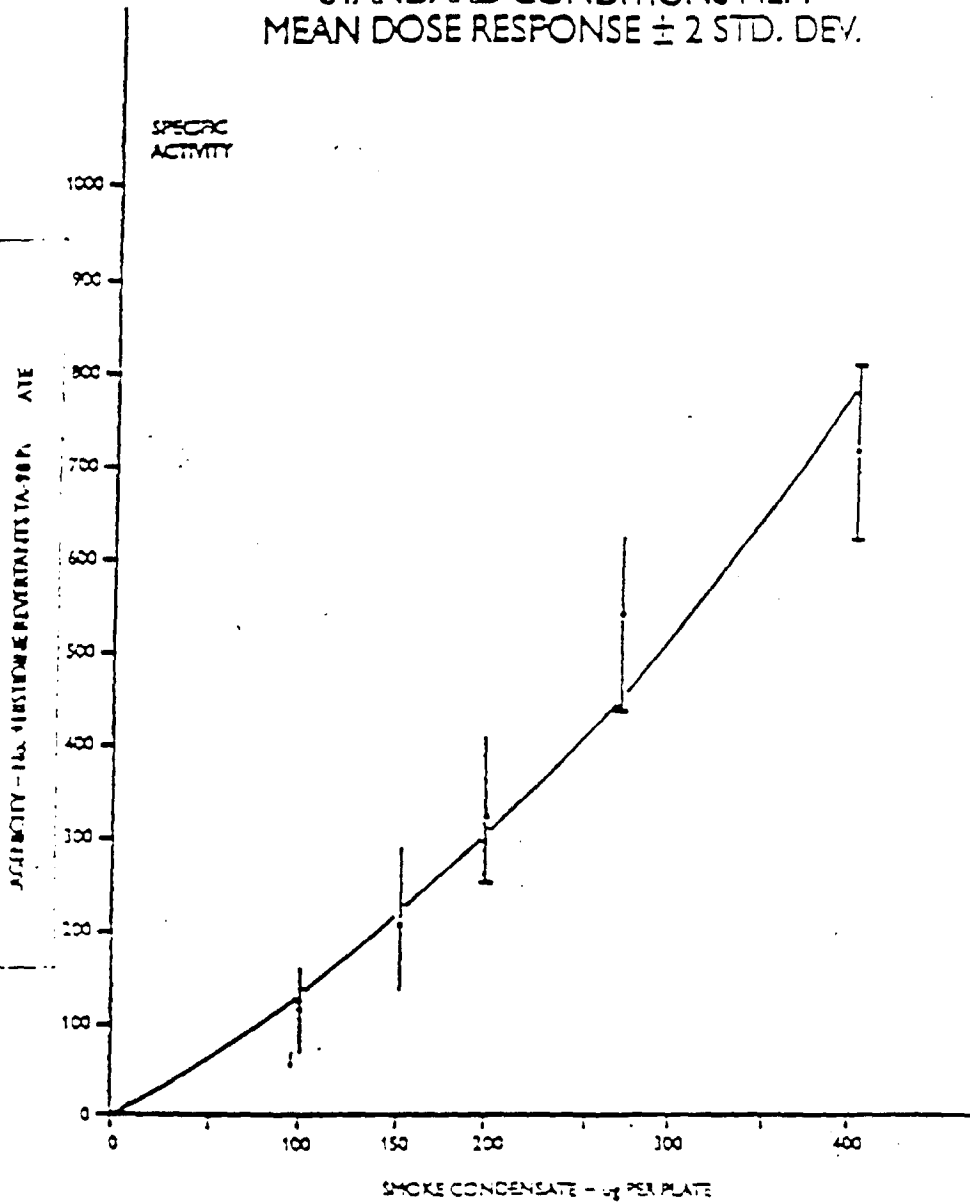
STANDARD CONDITIONS duMLK  
MEAN DOSE RESPONSE  $\pm$  2 STD. DEV.



BW-W2-02805

503100239

STANDARD CONDITIONS MEM  
 MEAN DOSE RESPONSE  $\pm$  2 STD. DEV.



BW-W2-02804

503100300

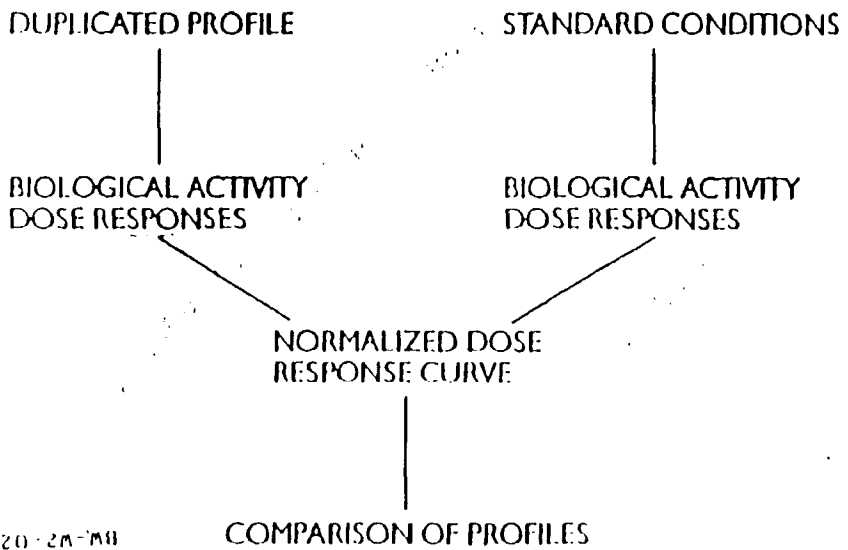
**COMPARISON OF THE  
NORMALIZED SPECIFIC ACTIVITY FOR THE  
DUPLICATED PROFILES OF MEM AND duMLK**

PROFILE	SPECIFIC ACTIVITY (rev/ug)	
	<u>CIGT. MEM</u>	<u>CIGT. du MLK.</u>
A	2.83	1.16
B	4.00	1.58
C	2.08	0.90
D	2.79	0.57
E	1.69	1.00
F	0.22	2.84
G	3.09	1.33
H	1.57	0.17
$\bar{x}$	2.28	1.20

BW-W2-02803

503100301

# DATA ANALYSIS



20020-20-00

503100302

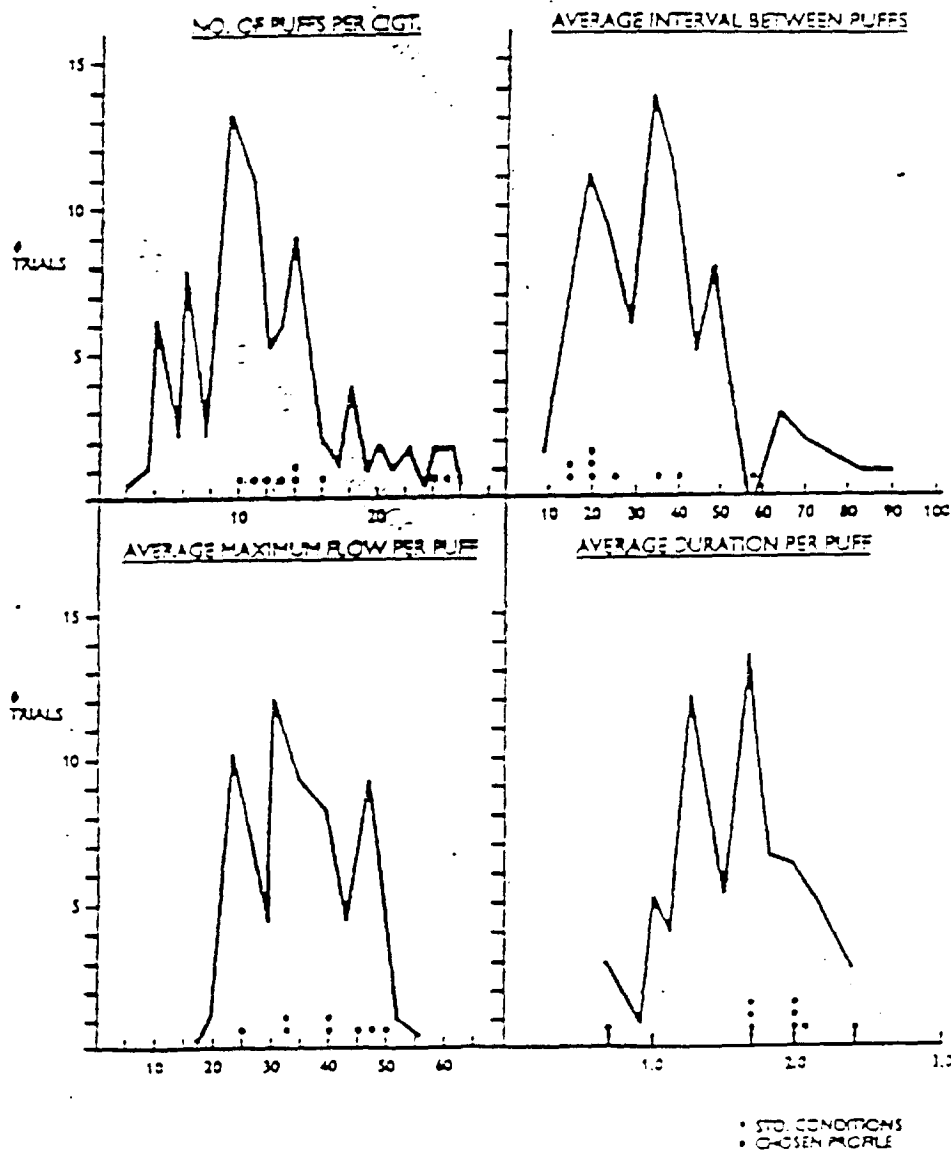
**PARAMETERS COMPARED**  
**IN THE**  
**DUPLICATED PROFILES**

<u>COMPARISON #1</u>	<u>PARAMETERS VARIED</u>	<u>PARAMETERS HELD CONSTANT</u>
1	Puff volume (average and total) maximum and mean flowrates	No. of puffs, duration and interval
2	No. of puffs interval	Duration, maximum and mean flowrates, puff volume
3	No. of puffs interval duration	Maximum and mean flowrates puff volume

10020 2M-AN

503100303

# HUMAN SMOKING PARAMETER DISTRIBUTION (95 TRIALS)



BM WZ 021100

503100304

COMPARISON OF THE BIOLOGICAL ACTIVITY  
OF MEM AND duMLK FOR ALL PROFILES

SPECIFIC BIOLOGICAL ACTIVITY (rev/ug.)

	<u>CIGT. MEM</u>	<u>CIGT. duMLK</u>
<u>DUPLICATED</u>	2.06	1.63
<u>STANDARD CONDITIONS</u>	1.50	1.59

TOTAL BIOLOGICAL ACTIVITY (rev/cigt.)

	<u>CIGT. MEM</u>	<u>CIGT. duMLK</u>
<u>DUPLICATED</u>	18637	35978
<u>STANDARD CONDITIONS</u>	17756	24025

66720-2M-MB

503100305

## CIGARETTE SPECIFICATIONS

<u>MATINÉE EXTRA MILD (MEM)</u>		<u>duMAURIER LIGHT K.S. (duMLK)</u>
TAR (mg/clgt.)	3.7	11.1
NICOTINE (mg/clgt.)	0.42	0.93
WATER (mg/clgt.)	0.37	1.11
CO (mg/clgt.)	3.8	11.4
P.D. (mm W.G.) OPEN	75	94
DILUTION (%)	63	37
PAPER POROSITY (C.U.)	36.8	35.2

86720-2A-MB

902001205

## AMES TEST

- Salmonella Typhimurium – Strain TA98
- Condensate dilutions – 400, 300, 200, 150 and 100 ug/plate  
– triplicate analysis
- Activation system – 10% rat liver arochlor  
– 90% TPN, NADP, G-6-P buffer

00-02-02797

503100307

## METHOD

- Profiles selected from 95 different recordings
- Parameters considered: – Puff Number  
Puff Volume  
Puff Flowrates  
Puff Duration  
Puff Interval  
Total Volume

96720-2A-MB

802001208

POSSIBLE INFLUENCE OF SMOKING BEHAVIOUR  
ON RELATIVE BIOLOGICAL ACTIVITY

OBJECTIVE:

To investigate the influence of Human Smoking Behaviour, relative to standard smoking conditions, on the biological activity of smoke-condensate.

BM-W2-02795

503100309