

TO: Dr. R. M. Ikeda
FROM: J. E. Wickham ✓
SUBJECT: Phenol Efficiency

June 27, 1968

An experimental cigarette made up of Richmond cigarette tobacco rod and a 20 mm CA filter with high RTD was more efficient in TPM and phenol removal than the Richmond or Ransom filter (data based on five replicates for each analyses).

The total and filter RTD of the experimental cigarette (E8TX) was higher than for the Richmond and Ransom cigarettes.

IBM Code	<u>E8TX</u>	<u>08ACB</u>	<u>08ACF</u>
Sample Description	High RTD CA on Richmond Tobacco Rod	Richmond	Ransom
TPM, mg/cigt			
Plug in	8.5	9.7	9.3
Plug out	28.7	26.9	26.4
Percent Efficiency	70	64	65
Phenol, micrograms/cigt			
Plug in	22	29(31)	36(35)
Plug out	160	152	160
Percent Efficiency	86	81	78
RTD, inches of H ₂ O			
Total	10.2	8.0	6.8
Filter	8.0	5.7	4.8

JEW:rab

cc: H. Wakeham J. S. Osmalov
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