

Supplementary Table S2. Mean of Carbonyls in Milligram per Cigarette with *p*-Values Determined Through Tukey's Test

	Mean ± SD (mg/cig), <i>n</i> = 4	1R6F pairwise <i>p</i> -value	Marlboro pairwise <i>p</i> -value	Brand A pairwise <i>p</i> -value	Brand B pairwise <i>p</i> -value
Formaldehyde					
1R6F	0.10 ± 0.004		0.19	< 0.001	0.003
Marlboro	0.09 ± 0.01	0.19		0.01	0.11
Brand A	0.06 ± 0.01	< 0.001	0.01		0.53
Brand B	0.07 ± 0.01	0.003	0.11	0.53	
Acetaldehyde					
1R6F	1.27 ± 0.12		0.32	0.02	< 0.001
Marlboro	1.38 ± 0.08	0.32		0.001	0.004
Brand A	1.05 ± 0.10	0.02	0.001		< 0.001
Brand B	1.68 ± 0.04	< 0.001	0.004	< 0.001	
Acetone					
1R6F	0.53 ± 0.04		0.04	< 0.001	0.01
Marlboro	0.52 ± 0.04	0.04		< 0.001	0.92
Brand A	0.31 ± 0.03	< 0.001	< 0.001		< 0.001
Brand B	0.53 ± 0.01	0.01	0.92	< 0.001	
Acrolein					
1R6F	0.14 ± 0.01		0.18	0.99	0.63
Marlboro	0.19 ± 0.02	0.18		0.28	0.75
Brand A	0.15 ± 0.06	0.99	0.28		0.81
Brand B	0.17 ± 0.01	0.63	0.75	0.81	
Propionaldehyde					
1R6F	0.10 ± 0.01		0.05	0.01	0.01
Marlboro	0.11 ± 0.01	0.05		< 0.001	0.75
Brand A	0.08 ± 0.01	0.01	< 0.001		< 0.001
Brand B	0.12 ± 0.003	0.01	0.75	< 0.001	
Crotonaldehyde					
1R6F	0.05 ± 0.004		0.91	0.49	0.97
Marlboro	0.05 ± 0.02	0.91		0.85	0.99
Brand A	0.06 ± 0.01	0.49	0.85		0.74
Brand B	0.05 ± 0.004	0.97	0.99	0.74	
2-butanone					
1R6F	0.15 ± 0.01		0.99	< 0.001	0.05
Marlboro	0.15 ± 0.03	0.99		< 0.001	0.04
Brand A	0.07 ± 0.01	< 0.001	< 0.001		0.005
Brand B	0.11 ± 0.002	0.05	0.04	0.005	
Butyraldehyde					
1R6F	0.07 ± 0.004		0.22	< 0.001	< 0.001
Marlboro	0.08 ± 0.01	0.22		< 0.001	< 0.001
Brand A	0.12 ± 0.01	< 0.001	< 0.001		< 0.001
Brand B	0.15 ± 0.002	< 0.001	< 0.001	< 0.001	

Supplementary Table S3. Mean of Carbonyls in Microgram per Puff with *p*-Values Determined Through Tukey's Test

	Mean ± SD (μg/puff), <i>n</i> = 4	1R6F pairwise <i>p</i> -value	Marlboro pairwise <i>p</i> -value	Brand A pairwise <i>p</i> -value	Brand B pairwise <i>p</i> -value
Formaldehyde					
1R6F	8.98 ± 0.68		0.22	< 0.001	< 0.001
Marlboro	7.76 ± 0.98	0.22		< 0.001	0.002
Brand A	3.71 ± 1.01	< 0.001	< 0.001		0.22
Brand B	4.94 ± 0.63	< 0.001	0.002	0.22	
Acetaldehyde					
1R6F	113.26 ± 15.37		0.56	< 0.001	0.93
Marlboro	123.47 ± 11.54	0.56		< 0.001	0.88
Brand A	63.65 ± 8.08	< 0.001	< 0.001		< 0.001
Brand B	117.77 ± 6.19	0.93	0.88	< 0.001	
Acetone					
1R6F	41.13 ± 3.06		0.19	< 0.001	0.34
Marlboro	46.12 ± 5.23	0.19		< 0.001	0.01
Brand A	18.80 ± 1.65	< 0.001	< 0.001		< 0.001
Brand B	37.08 ± 1.82	0.34	0.01	< 0.001	
Acrolein					
1R6F	12.30 ± 0.67		0.06	0.23	0.98
Marlboro	16.89 ± 1.95	0.06		0.002	0.03
Brand A	9.03 ± 4.01	0.23	0.002		0.39
Brand B	11.71 ± 0.85	0.98	0.03	0.39	
Propionaldehyde					
1R6F	8.77 ± 0.81		0.15	< 0.001	0.94
Marlboro	10.22 ± 1.46	0.15		< 0.001	0.06
Brand A	4.69 ± 0.48	< 0.001	< 0.001		< 0.001
Brand B	8.42 ± 0.30	0.94	0.06	< 0.001	
Crotonaldehyde					
1R6F	4.26 ± 0.18		0.89	0.88	0.86
Marlboro	4.82 ± 2.13	0.89		0.49	0.47
Brand A	3.68 ± 0.47	0.88	0.49		1
Brand B	3.64 ± 0.36	0.86	0.47	1	
2-butanone					
1R6F	13.01 ± 1.49		0.99	< 0.001	0.005
Marlboro	13.12 ± 2.88	0.99		< 0.001	0.004
Brand A	4.11 ± 0.33	< 0.001	< 0.001		0.02
Brand B	8.02 ± 0.25	0.005	0.004	0.02	
Butyraldehyde					
1R6F	5.92 ± 0.56		0.34	0.18	< 0.001
Marlboro	6.81 ± 1.03	0.34		0.97	< 0.001
Brand A	7.03 ± 0.75	0.18	0.97		< 0.001
Brand B	10.87 ± 0.37	< 0.001	< 0.001	< 0.001	