

Dynamic Method												
Droplet	$v_f$	$t_f$	$t_r$	$V$	$\xi$	$r$	$r^3$	$T$	$n_e$	$n_e / \text{lowest } n_e$	nearest $n_{eff}$	$n_e / n_{eff}$
1	$(8.219 \pm 0.055) \times 10^{-5}$	$6.08 \pm 0.04$	$5.33 \pm 0.04$	142	$(7.507 \pm 0.050) \times 10^{-13}$	$(8.268 \pm 0.029) \times 10^{-7}$	$(5.652 \pm 0.060) \times 10^{-19}$	$2.14 \pm 0.01$	$(1.620 \pm 0.014) \times 10^{-18}$	$9.4 \pm 0.1$	9.5	Rejected
2	$(1.037 \pm 0.010) \times 10^{-4}$	$4.82 \pm 0.04$	$5.20 \pm 0.04$	185	$(9.475 \pm 0.088) \times 10^{-13}$	$(9.336 \pm 0.045) \times 10^{-7}$	$(8.138 \pm 0.118) \times 10^{-19}$	$1.93 \pm 0.01$	$(1.612 \pm 0.018) \times 10^{-18}$	$9.4 \pm 0.1$	9.5	Rejected
3	$(8.251 \pm 0.061) \times 10^{-5}$	$6.06 \pm 0.04$	$4.42 \pm 0.04$	559	$(7.536 \pm 0.056) \times 10^{-13}$	$(8.285 \pm 0.032) \times 10^{-7}$	$(5.686 \pm 0.066) \times 10^{-19}$	$2.37 \pm 0.02$	$(4.587 \pm 0.043) \times 10^{-19}$	$2.67 \pm 0.03$	2.5	Rejected
4	$(9.653 \pm 0.083) \times 10^{-5}$	$5.18 \pm 0.04$	$6.02 \pm 0.04$	359	$(8.816 \pm 0.076) \times 10^{-13}$	$(8.992 \pm 0.040) \times 10^{-7}$	$(7.272 \pm 0.098) \times 10^{-19}$	$1.86 \pm 0.01$	$(7.167 \pm 0.073) \times 10^{-19}$	$4.17 \pm 0.05$	4.0	$(1.792 \pm 0.018) \times 10^{-19}$
5	$(3.141 \pm 0.009) \times 10^{-5}$	$15.92 \pm 0.04$	$6.56 \pm 0.04$	443	$(2.869 \pm 0.008) \times 10^{-13}$	$(4.965 \pm 0.008) \times 10^{-7}$	$(1.224 \pm 0.006) \times 10^{-19}$	$3.43 \pm 0.02$	$(1.801 \pm 0.010) \times 10^{-19}$	$1.047 \pm 0.009$	1.0	$(1.801 \pm 0.010) \times 10^{-19}$
6	$(4.188 \pm 0.016) \times 10^{-5}$	$11.94 \pm 0.04$	$3.40 \pm 0.04$	262	$(3.825 \pm 0.014) \times 10^{-13}$	$(5.792 \pm 0.012) \times 10^{-7}$	$(1.943 \pm 0.012) \times 10^{-19}$	$4.51 \pm 0.05$	$(6.364 \pm 0.069) \times 10^{-19}$	$3.70 \pm 0.05$	3.5	Rejected
7	$(4.292 \pm 0.015) \times 10^{-5}$	$11.65 \pm 0.04$	$5.20 \pm 0.04$	138	$(3.920 \pm 0.014) \times 10^{-13}$	$(5.868 \pm 0.011) \times 10^{-7}$	$(2.021 \pm 0.011) \times 10^{-19}$	$3.24 \pm 0.02$	$(9.025 \pm 0.065) \times 10^{-19}$	$5.25 \pm 0.05$	5.0	$(1.805 \pm 0.013) \times 10^{-19}$
8	$(4.019 \pm 0.014) \times 10^{-5}$	$12.44 \pm 0.04$	$6.20 \pm 0.04$	605	$(3.671 \pm 0.013) \times 10^{-13}$	$(5.667 \pm 0.011) \times 10^{-7}$	$(1.820 \pm 0.010) \times 10^{-19}$	$3.01 \pm 0.02$	$(1.720 \pm 0.010) \times 10^{-19}$	1	1.0	$(1.720 \pm 0.010) \times 10^{-19}$
9	$(4.666 \pm 0.018) \times 10^{-5}$	$10.72 \pm 0.04$	$4.17 \pm 0.04$	330	$(4.261 \pm 0.016) \times 10^{-13}$	$(6.135 \pm 0.012) \times 10^{-7}$	$(2.309 \pm 0.014) \times 10^{-19}$	$3.57 \pm 0.03$	$(4.753 \pm 0.038) \times 10^{-19}$	$2.76 \pm 0.03$	3.0	$(1.584 \pm 0.013) \times 10^{-19}$

Balancing Method											
Droplet	$v_f$	$t_f$	$V_B$	$\xi$	$r$	$r^3$	$n_e$	$n_e / \text{lowest } n_e$	nearest $n_{eff}$	$n_e / n_{eff}$	
1	$(1.462 \pm 0.019) \times 10^{-4}$	$3.42 \pm 0.04$	$550.3 \pm 0.3$	$(1.335 \pm 0.017) \times 10^{-12}$	$(1.116 \pm 0.008) \times 10^{-6}$	$(1.389 \pm 0.028) \times 10^{-18}$	$(4.800 \pm 0.097) \times 10^{-19}$	$1.54 \pm 0.03$	1.5	Rejected	
2	$(2.155 \pm 0.042) \times 10^{-4}$	$2.32 \pm 0.04$	$591.3 \pm 0.3$	$(1.968 \pm 0.038) \times 10^{-12}$	$(1.363 \pm 0.014) \times 10^{-6}$	$(2.532 \pm 0.075) \times 10^{-18}$	$(8.145 \pm 0.242) \times 10^{-19}$	$2.61 \pm 0.08$	2.5	Rejected	
3	$(1.825 \pm 0.030) \times 10^{-4}$	$2.74 \pm 0.04$	$366.7 \pm 0.3$	$(1.667 \pm 0.027) \times 10^{-12}$	$(1.251 \pm 0.011) \times 10^{-6}$	$(1.958 \pm 0.049) \times 10^{-18}$	$(1.016 \pm 0.026) \times 10^{-18}$	$3.25 \pm 0.09$	3.0	$(3.386 \pm 0.086) \times 10^{-19}$	
4	$(3.247 \pm 0.094) \times 10^{-4}$	$1.54 \pm 0.04$	$481.7 \pm 0.3$	$(2.965 \pm 0.086) \times 10^{-12}$	$(1.682 \pm 0.025) \times 10^{-6}$	$(4.758 \pm 0.212) \times 10^{-18}$	$(1.879 \pm 0.084) \times 10^{-18}$	$6.0 \pm 0.3$	6.0	$(3.131 \pm 0.140) \times 10^{-19}$	
5	$(7.463 \pm 0.056) \times 10^{-5}$	$6.70 \pm 0.05$	$197.7 \pm 0.3$	$(6.816 \pm 0.051) \times 10^{-13}$	$(7.860 \pm 0.031) \times 10^{-7}$	$(4.856 \pm 0.057) \times 10^{-19}$	$(4.672 \pm 0.055) \times 10^{-19}$	$1.49 \pm 0.02$	1.5	Rejected	
6	$(5.076 \pm 0.026) \times 10^{-5}$	$9.85 \pm 0.05$	$160.7 \pm 0.3$	$(4.636 \pm 0.024) \times 10^{-13}$	$(6.415 \pm 0.017) \times 10^{-7}$	$(2.640 \pm 0.021) \times 10^{-19}$	$(3.125 \pm 0.026) \times 10^{-19}$	1	1.0	$(3.125 \pm 0.026) \times 10^{-19}$	

Dynamic Method

Value of e as approximate gcd:  $(1.733 \pm 0.006) \times 10^{-19}$   
Error = 8.16%

C = 190.193  
D = 9.134e-09  
 $\varsigma$  = 4.059e-08

Value of e from regression:  $(1.761 \pm 0.041) \times 10^{-19}$   
Error = 9.93%

Balancing Method

Value of e as approximate gcd:  $(3.192 \pm 0.043) \times 10^{-19}$   
Error = 99.25%

Value of e from regression:  $(3.181 \pm 0.071) \times 10^{-19}$   
Error = 98.56%