

plot_profile_sample				
Distance_(microns)	Basal	Mid	Apical	
0	19	22	18	
1.141	19.996	23.023	17.983	
2.283	19.992	22	18.965	
3.424	21	20.068	19.948	
4.566	19	19.272	19	
5.707	18.989	24	20.739	
6.849	18	21.864	21.479	
7.99	18	20.682	18.757	
9.132	17.983	21	17.861	
10.273	17	20.408	18.687	
11.415	16.042	21.134	18.305	
12.556	17.023	20.248	18.236	
13.698	17	21	17.792	
14.839	17	20.705	18.774	
15.981	20.119	18.682	19	
17.122	22.191	17	20	
18.264	18.169	16.363	19.278	
19.405	17	15.386	19.705	
20.546	18.886	16.817	19.749	
21.688	17.919	19	19.68	
22.829	18	19.092	22	
23.971	19.956	17.524	19	
25.112	18	17	18	
26.254	19	17.478	19.6	
27.395	20	17.911	17.583	
28.537	17	17.433	19.132	
29.678	16.165	16.41	20.097	
30.82	16.114	16.162	17.531	
31.961	16.881	17.729	18.486	
33.103	13.939	17.684	17.993	
34.244	16.809	17	18	
35.386	15.934	15.703	20	
36.527	15.203	18.452	20.444	
37.669	16	20.246	19	
38.81	15.928	20.314	19	
39.952	18	17.794	19	
41.093	16	16	17.625	
42.234	15.157	17	18	
43.376	16.919	17.138	16	
44.517	16.835	17.346	17.645	
45.659	16.085	16.277	18.305	
46.8	14.174	18.93	19.288	
47.942	15.089	15.953	19.27	
49.083	15.091	15	18.253	
50.225	13.093	18.998	17	
51.366	15.905	20.021	16.782	
52.508	15.903	20	17.799	
53.649	14	19.867	18	

		plot_profile_sample	
54.791	14.102	17	17.166
55.932	14.208	19.888	16.851
57.074	13.212	18	17.868
58.215	13.216	17.843	19
59.357	15	19	17.097
60.498	15.775	17.202	15.159
61.639	15	16	16.062
62.781	14.233	16.752	18
63.922	14	18.459	18
65.064	14.879	18	20
66.205	15.877	18	16.993
67.347	15.75	19.677	15.975
68.488	13.873	19.723	15.958
69.63	14.871	19.384	15.881
70.771	15.131	18.22	17.923
71.913	14.267	16.859	17
73.054	12.136	17.548	18
74.196	13.725	16	18
75.337	14	16	18.854
76.479	14.426	16.48	19
77.62	15.144	17	19
78.762	16.854	16.565	21.603
79.903	14.852	16.588	18.216
81.044	16.85	16.778	17.467
82.186	11.153	16.099	20.251
83.327	14.155	20	18.268
84.469	16.314	23.037	16.715
85.61	14.841	23.508	18.395
86.752	15.322	22.449	17.32
87.893	14.816	20.747	18
89.035	15.165	20.77	17.645
90.176	14.665	20.208	18
91.318	16.169	19.74	17.39
92.459	17	16.325	17.407
93.601	15	17.14	16
94.742	14.176	16.883	16.442
95.884	16	16.812	18.459
97.025	15.18	17	18.953
98.167	15.182	16	18.494
99.308	17	15.974	18.489
100.45	17	15	20
101.591	16.811	15.019	19.546
102.732	16.619	16	19
103.874	17	16	18.581
105.015	18	15.175	19.392
106.157	17	16.22	18.846
107.298	16.602	16.265	17
108.44	17.396	17.155	17.65
109.581	17.39	17	18.002

		plot_profile_sample	
110.723	16	16	17.685
111.864	16.623	16	16
113.006	17.419	17.246	18.159
114.147	16.212	16.269	18
115.289	16.786	16.709	18
116.43	19.136	17.686	17.772
117.572	16	17.663	17.789
118.713	15.22	18.719	17.194
119.855	17.222	17.764	17.176
120.996	14.123	16.81	17.159
122.137	14.133	18.855	18.141
123.279	16	15.901	18.876
124.42	16.769	13.419	20
125.562	16.767	15.983	19.179
126.703	14.235	18.037	18.928
127.845	16.763	18	16.945
128.986	19.521	17.873	15.963
130.128	17.758	16.414	16.04
131.269	16.244	16.391	16.007
132.411	13.246	17.736	16.97
133.552	16.504	15	16.903
134.694	17.75	16	15.95
135.835	15.252	17	17.067
136.977	17	18	18
138.118	17.256	19.255	17.695
139.26	18.258	17	16.762
140.401	19.261	17	16
141.542	18.263	16.813	16.154
142.684	17.53	16.164	16.171
143.825	16.267	17.141	16.189
144.967	17	16.644	17.794
146.108	18.729	15.808	17.777
147.25	17.273	16.073	18
148.391	16.275	15.101	18
149.533	17.555	14.056	18.275
150.674	20.72	14.005	18.586
151.816	19.436	16	16
152.957	18.432	14.96	18
154.099	19	14.937	16.345
155.24	21.424	15.914	16
156.382	23	14.892	18
157.523	21.169	14.869	17.397
158.665	21.178	15.846	14.414
159.806	24.593	16.353	15.568
160.948	26	17	18
162.089	22.699	17.778	16.533
163.23	21.697	21	16.516
164.372	18.695	19.466	18.501
165.513	17.693	16.71	18.519

		plot_profile_sample	
166.655	16.691	16.375	16.072
167.796	18	14.33	18
168.938	20.314	13.358	18
170.079	17.947	15.38	17
171.221	18.636	15.806	16.605
172.362	18.68	16	15.868
173.504	16.678	16.551	17
174.645	20	14.942	16.685
175.787	18.674	15.494	15.65
176.928	17.343	15	15.615
178.07	17	14	17.581
179.211	14.998	13.124	17.727
180.353	15.669	15	15.744
181.494	15.337	14.607	16
182.635	16.661	14.63	18
183.777	17.659	14.653	19
184.918	17.314	15.325	20.442
186.06	18.309	16.604	19.325
187.201	17	16.721	19.395
188.343	17.65	15.743	20.732
189.484	17.593	15.766	19
190.626	18.292	16	17.199
191.767	17.644	15	18
192.909	17.358	15.834	17.935
194.05	15.36	16.714	18.906
195.192	14.725	14	16.94
196.333	16.729	14.902	15.975
197.475	18	17.7	15
198.616	18	15.843	15.955
199.758	18.629	14.97	16.96
200.899	18.881	14.993	15.057
202.04	17.875	16.031	15
203.182	18	16	15
204.323	18.621	15.939	15.109
205.465	19.619	17	18
206.606	18	16.894	16.144
207.748	16	17	16.161
208.889	18	15.152	16.821
210.031	16.39	13.524	16.804
211.172	16	15.197	16.787
212.314	13.788	12.44	18
213.455	13.189	14.243	18.248
214.597	15.797	16	16.531
215.738	16.4	15	16.283
216.88	16.195	15.379	16.7
218.021	17.595	16	17.365
219.163	14.593	17.644	17.665
220.304	13.182	18	17
221.446	15.411	16	17

		plot_profile_sample	
222.587	15.826	15.152	16.387
223.728	15.415	13.553	17.404
224.87	16.583	13.939	17
226.011	17.161	16.476	14.561
227.153	17.422	19.03	15
228.294	19.271	21.613	17.474
229.436	19	21.241	15
230.577	18.572	17.749	16.017
231.719	17.57	16.817	15
232.86	16.568	16.885	14.543
234.002	17.131	16.302	17.122
235.143	18.127	15.326	15
236.285	19	12.607	17
237.426	18	14.281	17.613
238.568	16.557	15.742	16.37
239.709	16.555	14.529	16.352
240.851	16.106	15.574	15.33
241.992	16.102	16	17.365
243.133	16.549	16	15.7
244.275	16	16.855	16.151
245.416	15.544	15.878	17.203
246.558	16.542	15.099	16
247.699	18	12.154	15.231
248.841	16.386	17.946	16
249.982	15.928	19	15.196
251.124	16.466	16.974	14.821
252.265	15.405	19.986	16
253.407	15.881	17.073	15.288
254.548	13.945	19.941	16.127
255.69	13.475	21.836	14.109
256.831	15.477	18.895	14.908
257.973	15	16.745	17.926
259.114	14	15.85	18
260.256	14.517	17.827	17.96
261.397	13.97	17.805	17.978
262.538	15.462	17	16
263.68	17.979	16.759	14
264.821	16.983	16.473	14.119
265.963	16.506	16	17.094
267.104	16.513	16	18.065
268.246	16.502	15	18
269.387	16.5	12.709	18
270.529	18.498	12.754	20
271.67	17	15.4	18.134
272.812	16.506	14.422	19.151
273.953	16.983	14	18
275.095	16.489	16	17
276.236	19.051	17	14.203
277.378	17.03	17	17.221

		plot_profile_sample	
278.519	17	15	17.238
279.661	18	15.558	17.744
280.802	17.479	16.581	17.727
281.944	18.953	16	18.71
283.085	18.475	17.627	19
284.226	15.417	17.702	20
285.368	15.881	17.656	23
286.509	16.405	17	22.36
287.651	16	14.717	22.377
288.792	16.144	15.26	25.395
289.934	18.614	17.763	23.824
291.075	18.081	18.356	23.429
292.217	17	20.424	26.107
293.358	19	16	25.072
294.5	19.093	13.293	21.519
295.641	18.549	15.124	19
296.783	17	15.101	19
297.924	17.553	15	18
299.066	21	14.944	17.551
300.207	19.443	16	17.568
301.349	17.881	15.99	18.414
302.49	18.439	15.012	20
303.631	17.564	14	19
304.773	17	13.115	17
305.914	18.432	14.161	17
307.056	18.43	15.103	17.328
308.197	18.284	15.126	16.31
309.339	18.852	14.297	18
310.48	19	15.171	18.725
311.622	20.157	15.806	19
312.763	18.419	15.784	21
313.905	18.669	14.761	22
315.046	16.246	16.262	22.794
316.188	17	16.284	21
317.329	17.411	14.693	20.829
318.471	20.409	16.01	19.846
319.612	21.593	12.295	18.864
320.754	20.595	13.375	18.762
321.895	21.195	14	17.797
323.036	23.199	12.421	17.916
324.178	21.797	16	17.134
325.319	21.396	17.068	18.05
326.461	21.606	14.511	18.032
327.602	21.392	13	17.985
328.744	19.78	16.602	17.998
329.885	20	20.557	18.98
331.027	23.229	17.318	18.926
332.168	22.233	16.204	19.891
333.31	20.237	17.375	20.928

		plot_profile_sample	
334.451	19.242	16.647	21
335.593	20	15.01	21.32
336.734	19.75	15.307	23.496
337.876	18.746	16.853	25.283
339.017	20.371	17	24.318
340.159	20	16.761	24.529
341.3	18.367	15.567	28.387
342.442	18	13.419	27.633
343.583	19	15	24.228
344.724	20	15.297	22.754
345.866	19.642	16.126	22.737
347.007	18.932	16	23
348.149	21	16.92	24
349.29	19.352	16.942	22.685
350.432	18.65	16.035	21.667
351.573	19	17.012	25.35
352.715	18.345	16.99	25.367
353.856	17.657	16	26.769
354.998	17.341	14.056	30
356.139	16.678	14.157	31
357.281	17	17	36.437
358.422	18	17	41.092
359.564	16.998	15.293	41.171
360.705	13.992	14.339	37.045
361.847	16.328	15	30.975
362.988	17.326	16.785	26.953
364.129	17	14.763	26.082
365.271	17	13.26	22.233
366.412	16.64	14.848	22.727
367.554	18.271	17.305	21.593
368.695	17.947	17	20
369.837	15.568	14.351	22.372
370.978	15.934	15.627	22.355
372.12	18.309	16	21
373.261	16.922	17.419	21
374.403	16.61	16.883	23
375.544	18.303	16.464	23.571
376.686	19	16.513	22
377.827	18.701	17.49	20.501
378.969	18.703	18	20.7
380.11	18	18	22.216
381.252	19	18.578	21
382.393	19.29	18.801	18.362
383.534	16.576	18.246	18.328
384.676	16.286	16.354	18.146
385.817	18	16	18.129
386.959	18	16.382	18.888
388.1	17.161	15.714	18.906
389.242	19.167	15.264	21

		plot_profile_sample	
390.383	19.725	18.241	23.06
391.525	19.273	19.218	25
392.666	20	17.195	25.901
393.808	19.731	17.173	24.963
394.949	18.733	18.85	23.99
396.091	16.47	17.873	23
397.232	18.212	16.791	22.045
398.374	19	15.082	20.062
399.515	18.742	16	20.079
400.657	18.487	16.963	20.097
401.798	17.254	16.014	22.114
402.94	18.756	18	18.395
404.081	20	17	23.149
405.222	18.752	16.946	19.499
406.364	22.246	16	19.184
407.505	19.756	16.099	21
408.647	18.758	16.122	22
409.788	19.239	17.145	23.236
410.93	17.475	17	23.506
412.071	19.47	17.81	24.27
413.213	18.466	15.426	23.288
414.354	18.231	16.236	22.305
415.496	20	17.483	23
416.637	22.32	17.719	23
417.779	21.551	17.607	22
418.92	22	16.653	22.375
420.062	20	18	22
421.203	20.782	18	22
422.345	20.216	17	23
423.486	22.214	16.417	22.112
424.627	25	16.44	22.538
425.769	24	15.462	22.958
426.91	23	16	21.993
428.052	22	17.476	23.514
429.193	20	18.408	24
430.335	21.201	16.447	23.452
431.476	24.199	17	24
432.618	26	18	23
433.759	25.805	17	21
434.901	24.807	17	23.236
436.042	24	16.667	24
437.184	25.811	17.689	25.305
438.325	25	18.712	24.34
439.467	24.184	19.265	23.687
440.608	24.182	22	26.705
441.75	22.82	22	22.556
442.891	24.644	19.197	20.521
444.033	26	17.175	25
445.174	26.826	16	21

		plot_profile_sample	
446.315	27.828	17	22.792
447.457	28.339	15.894	21.191
448.598	28	18.916	20.521
449.74	28.165	19	22.313
450.881	28	17	21.583
452.023	29.161	18.984	21.878
453.164	27.159	18	22
454.306	32	16	23
455.447	36.845	17	23.069
456.589	34.847	17	23
457.73	35.85	18.902	24.035
458.872	36.148	18.759	25.017
460.013	35.292	16	24
461.155	35.432	16.166	23.017
462.296	35.142	18.435	24
463.438	36.86	19.155	22.896
464.579	38.587	18.532	23.792
465.72	38.593	18	25.913
466.862	39.733	19	24.896
468.003	43.869	19.396	24
469.145	46.129	20.026	26
470.286	51	20.305	25.156
471.428	56.75	18.63	23
472.569	60.386	16.607	23.618
473.711	65.155	18	24.792
474.852	67.169	18	22
475.994	70.534	15.539	21
477.135	81.742	18	21.261
478.277	84.54	20	21.722
479.418	82.008	19.471	22.295
480.56	83.919	18.551	22.625
481.701	87.258	18.574	23
482.843	83.104	20	21.653
483.984	75.102	18	20.27
485.125	70.801	21.642	20.618
486.267	70.61	21.665	23.6
487.408	71.714	19	24.166
488.55	75	19.579	22
489.691	74.909	20	19.903
490.833	71.089	20.267	21.469
491.974	68.087	20.557	23.514
493.116	70	20.801	22.504
494.257	76.752	21	23.521
495.399	82.597	19.307	25
496.54	87.451	20.131	25.444
497.682	99.008	21.892	25
498.823	104.739	19.829	24.181
499.965	91.712	19	25.608
501.106	76.489	20	23.625

		plot_profile_sample	
502.248	75.932	20.035	24
503.389	72.934	20.01	25.34
504.53	71.936	20.056	26
505.672	72.816	20	26.39
506.813	72	20	27.712
507.955	71.943	22	29
509.096	69	21.237	27.506
510.238	69	20.283	25.707
511.379	70.898	19.328	25.437
512.521	67.951	20.747	26.799
513.662	67.953	21.209	29.816
514.804	68	20	30.166
515.945	67.085	20.255	30.851
517.087	65.121	20.832	33.868
518.228	66	20	34
519.37	67.928	20	32.194
520.511	68.966	21.346	33.238
521.653	66.095	19.632	32.248
522.794	66.059	19	41.045
523.936	66.972	20.173	47
525.077	66.949	21	45.02
526.218	63.907	20.459	48.015
527.36	61.936	20	50.124
528.501	61.981	19.496	56.127
529.643	65.966	19.946	61
530.784	66.97	20.351	69.385
531.926	67.924	20.855	72.774
533.067	72.947	20.81	71.325
534.209	73.958	22.764	67.194
535.35	72.981	20	63.39
536.492	79.979	19.674	60.017
537.633	91.97	19.942	57.094
538.775	98	20.291	55.007
539.916	97.038	23.269	51.568
541.058	85.076	22	55.533
542.199	73.076	20.223	59.248
543.341	74.059	21.799	61.196
544.482	69.148	19.822	69.859
545.623	76.165	20.845	83.697
546.765	79.119	22.867	97.96
547.906	68.102	22.11	102.012
549.048	59.133	21.175	99.065
550.189	60.127	21.129	98.233
551.331	62.023	21	96.337
552.472	55.051	22.962	91.628
553.614	52.11	22	91.697
554.755	53.178	21.026	98.325
555.897	54.127	19.147	100.459
557.038	54.169	24.072	103.429

		plot_profile_sample	
558.18	52	27	113.457
559.321	51	23	121.534
560.463	50.081	23.14	125.529
561.604	49.127	22.162	115.816
562.746	45.133	20.555	95.057
563.887	47.186	24.623	86.677
565.029	44.951	24.461	84.608
566.17	42	26.747	85.154
567.311	46.106	26.724	83.266
568.453	44.331	24.597	84
569.594	42.515	24.321	87.998
570.736	42.356	25.312	88.63
571.877	42.246	23.634	92.596
573.019	41.191	25.222	91.841
574.16	42.197	24	87.367
575.302	44.068	25.131	78.702
576.443	40	24.628	73.055
577.585	39.072	24.56	72.531
578.726	39.222	24.995	68.323
579.868	37.305	26.475	65.057
581.009	40.157	26.452	61.318
582.151	45.161	24.859	55.283
583.292	49.165	26.22	49.124
584.434	52.169	26.768	46
585.575	52.347	27.639	44
586.716	57.267	27.984	41
587.858	68.727	25.684	37.945
588.999	78.347	26.707	35.926
590.141	88.619	29.188	35.02
591.282	97.585	27.752	34.005
592.424	103.394	28.55	33
593.565	108.034	29.798	32
594.707	107.426	30.82	31.05
595.848	120.131	31	30.067
596.99	131.566	32.731	29
598.131	133.534	29	27.305
599.273	139.021	29.822	27.119
600.414	144.602	29.867	28
601.556	140.282	29.913	29
602.697	135.542	28.979	27.829
603.839	127.932	29.003	28.434
604.98	128.089	31.049	28.588
606.121	127	29.094	29
607.263	118.254	30.93	28.241
608.404	109.258	31	26
609.546	89.475	30.115	25.449
610.687	73.466	31.724	25
611.829	63.458	34.518	23
612.97	57.449	33	25.345

		plot_profile_sample	
614.112	56.72	30.618	25
615.253	55.858	31.457	25
616.395	57.424	33.251	22.38
617.536	70.708	34	22.397
618.678	86	34.703	21.829
619.819	92.451	33	21.432
620.961	94.458	31.684	23.551
622.102	92.773	32	23
623.244	89.941	32.387	20.484
624.385	94.159	33.41	22.002
625.526	103	32.567	21.556
626.668	114.347	32.545	20.536
627.809	122.174	32.478	20.553
628.951	121.833	32.501	21
630.092	108.339	33.524	21
631.234	86.686	35.546	21.605
632.375	70.869	36.138	21.246
633.517	61.703	33.408	21.64
634.658	59.356	33.771	20
635.8	55.72	34.363	20.675
636.941	54.364	35.681	20
638.083	54	35.953	19
639.224	50.373	36.295	19.727
640.366	49.189	39.183	18.744
641.507	45.381	38.251	19
642.649	41.578	42.092	19.442
643.79	38.39	50.979	20
644.932	39	56.911	21.442
646.073	37.398	64.412	20.831
647.214	34.403	74.958	18.151
648.356	36.407	84.866	20
649.497	34.206	84.454	20
650.639	35.208	69.817	18.901
651.78	32.839	50.363	20.082
652.922	32.212	46.068	18.129
654.063	34.786	49	20.953
655.205	34.216	51.091	18.97
656.346	33.564	57.499	17
657.488	34	72.885	19.01
658.629	33	86.361	17.045
659.771	32.775	98.702	17.079
660.912	31.453	115.634	18.057
662.054	30.458	129.429	18.926
663.195	31.231	131.634	18.908
664.337	33.534	127.408	18
665.478	33.53	122.546	18.873
666.62	32.763	119.002	17.856
667.761	33	113.005	19.677
668.902	32.517	99.576	19.357

		plot_profile_sample	
670.044	32.513	82.824	18.392
671.185	32.508	67.618	17.427
672.327	31.256	55.459	17.231
673.468	30.75	49.686	17.248
674.61	30.252	47.183	16
675.751	30.254	42.845	17
676.893	30	42.37	19
678.034	27.258	43.094	20.318
679.176	28.261	40.503	19
680.317	28.788	40.913	17.648
681.459	27.265	40.366	19.63
682.6	27.733	37.298	20
683.742	29.462	36.461	19.404
684.883	28.729	35.162	20
686.024	28	36	19.122
687.166	29.275	36.342	18.543
688.307	29	35.319	18.948
689.449	26	36.407	19.509
690.59	25.282	35.452	19
691.732	26.716	35	19
692.873	24.714	32.229	19.37
694.015	26.576	32.412	19
695.156	23	32.366	17.578
696.298	22.708	31.839	18.404
697.439	25	31.862	16.387
698.581	22	29.115	17.63
699.722	23.299	28.092	19.295
700.864	22.797	29.07	16.665
702.005	22.394	29	18
703.147	23.61	28.024	17.6
704.288	21.614	28	17.132
705.43	24.309	27.979	18
706.571	25.689	27.956	18.752
707.712	26	28.133	18.538
708.854	26.631	29	18.787
709.995	25.318	26.223	18.804
711.137	23.68	25.134	18.179
712.278	22.034	28.157	18.839
713.42	20.028	27.82	18.568
714.561	21.347	26.595	18.747
715.703	23	25.225	17.891
716.844	24.331	26.496	19.816
717.986	22.663	24.271	19.926
719.127	20.674	26.293	18
720.269	21.347	28	19.04
721.41	22.661	25	20
722.552	21.659	26.361	20
723.693	22	25.768	19
724.835	24	27	20.94

		plot_profile_sample	
725.976	23.695	25.141	21
727.117	23.65	24.096	20.129
728.259	23.945	26.051	19.246
729.4	24.292	24	23
730.542	24.288	25.52	22.883
731.683	24	25.543	19.134
732.825	23.72	24.131	19.697
733.966	22.913	25.176	18.663
735.108	21	25.611	17.186
736.249	19.733	24.733	14.61
737.391	21.631	25.344	18.442
738.532	21	25	19.238
739.674	22.373	23.702	18.256
740.815	22	23.724	18.273
741.957	21.246	25.494	16.581
743.098	21.242	26.539	17.308
744.24	22.763	26.585	17.675
745.381	23.383	25.815	17
746.523	21.229	24.838	15.36
747.664	20.388	25	15.377
748.805	20.39	24.117	17.395
749.947	23	22.188	18.236
751.088	22	24.072	18.429
752.23	21.792	27	18.553
753.371	21.203	25.026	18
754.513	20.6	24.997	17.481
755.654	21	25.962	18
756.796	20.405	23.958	18.484
757.937	21	26.065	19.467
759.079	20.182	24.175	18.449
760.22	20.233	24.22	17.864
761.362	21	26.867	18.414
762.503	20.585	23.689	16.794
763.645	21.583	20.712	16.139
764.786	20.419	24.401	17.638
765.928	19	22.223	18.965
767.069	20	22	18.672
768.21	20.426	23	18.38
769.352	23	23.291	16.707
770.493	22	23.628	15
771.635	19.864	26	17.484
772.776	19.869	24.64	17.519
773.918	20.873	24	17.777
775.059	21.316	23.405	16
776.201	23.441	24.855	15.189
777.342	23.672	23.45	16.685
778.484	22	22.527	17
779.625	21.341	24.496	17.727
780.767	20.449	24.037	17.119

		plot_profile_sample	
781.908	20	22.459	16.102
783.05	20.547	22.745	16.169
784.191	21.089	24.414	17
785.333	19.542	24.391	18.901
786.474	18.54	23	18
787.615	20	23.654	15.015
788.757	20.928	21.323	16
789.898	20	19.6	17
791.04	22.936	22	17
792.181	21.941	22	16.055
793.323	22.528	21.536	17.072
794.464	23.051	22.581	19
795.606	21.523	21.813	18.893
796.747	21	21.508	18.876
797.889	21	21.435	17.859
799.03	21.966	20.881	17.841
800.172	20.485	18.288	17
801.313	20.975	18	16
802.455	21	21.848	17.211
803.596	20.492	21.972	18.457
804.738	21.481	22.005	17
805.879	19.496	21.983	17.737
807.021	19.004	20.96	18.72
808.162	20.5	20	17.404
809.303	21.498	20	19
810.445	21.504	17.216	17
811.586	20.494	19.131	16.7
812.728	19.508	20.154	18.367
813.869	21	22.353	19
815.011	21.975	27	18
816.152	20.97	25	17.839
817.294	20.932	25.244	18.31
818.435	19.924	25.801	19.908
819.577	19.394	23.869	19.471
820.718	19	24.312	16.489
821.86	20.525	24.67	17
823.001	23	24.358	16
824.143	23	23.62	14.459
825.284	22.936	23	16
826.426	23.466	22	17.151
827.567	23.464	21	16
828.708	22.462	21.414	15
829.85	23.46	21.482	17.256
830.991	24	21.483	17.29
832.133	22	22.382	16
833.274	22.547	21.314	17
834.416	20	22.585	18
835.557	20	23.215	20
836.699	20	23	19.732

		plot_profile_sample	
837.84	18.555	22	17.749
838.982	20.443	21.675	18.533
840.123	22.881	21	18.352
841.265	23	23.721	18.404
842.406	20.436	23.487	20
843.548	20	23.766	19.164
844.689	20.136	22	17.146
845.831	20.14	22	18.258
846.972	22.144	24.332	19
848.113	22.148	22.429	17.906
849.255	22.576	22	17.923
850.396	22.843	22.098	15.821
851.538	21.581	22.15	16.873
852.679	21.748	23.052	17.975
853.821	22.585	26.089	17.993
854.962	25	26.021	18.98
856.104	23	27.984	18.973
857.245	22	26.962	15
858.387	22.593	24	16.938
859.528	22.595	25.168	16.921
860.67	23.597	24.319	17.903
861.811	25.4	21.387	19.886
862.953	22.602	22.455	17.132
864.094	23	22.698	17.298
865.236	23.394	21.789	18
866.377	22.216	22.44	18.633
867.518	23	22.243	18.598
868.66	21.612	23	17
869.801	22	22.712	16
870.943	21.383	22.689	17.253
872.084	21.763	22	18
873.226	19.862	20.356	18
874.367	20.869	20	17
875.509	24.25	21.599	16.677
876.65	21.627	20.576	17.66
877.792	21	19.447	17.643
878.933	21.894	22	17.625
880.075	22.267	21.508	17.608
881.216	19.364	20.03	17
882.358	20	21	18.573
883.499	18	21	19
884.641	17.642	15	18.923
885.782	18.356	17.789	19.479
886.924	21	19.743	20
888.065	22.352	18.698	19
889.206	20.049	18.347	16.938
890.348	20.695	19.785	17.452
891.489	20.691	21	17.566
892.631	21.343	21.742	18.417

		plot_profile_sample	
893.772	20	21	18.4
894.914	18.661	19.787	17.382
896.055	18.326	20	21
897.197	17.665	18.832	20.347
898.338	16.998	19.855	20.33
899.48	15.314	20.122	17.625
900.621	16.314	20.199	16.295
901.763	18.326	22.23	17.278
902.904	20	23	18
904.046	19.678	21.969	17.514
905.187	19	22	15.774
906.329	19.682	20	16.792
907.47	20.316	20	18.618
908.612	19.627	20.059	18
909.753	21	20	17
910.894	20.619	20.895	18.139
912.036	20.229	20.127	19
913.177	20.305	21.85	18.896
914.319	19.606	22.173	18
915.46	21.602	20.391	19
916.602	21.403	20	18.948
917.743	23.814	18.723	18.931
918.885	23.411	18.791	17.017
920.026	22.292	20.286	18
921.168	21.71	21.309	
922.309	23	20.663	
923.451	22	21.646	
924.592	23	16.131	
925.734	19.282	20	
926.875	18.839	18	
928.017	23.722	14.445	
929.158	21	18.065	
930.299	22.273	20	
931.441	19.814	23.026	
932.582	21.538	22.607	
933.724	21.267	22.117	
934.865	21.265	20	
936.007	21.475	19.396	
937.148	21.218	21.253	
938.29	21.742	21.649	
939.431	21.744	21.328	
940.573	20.746	21.305	
941.714	21.252	20.565	
942.856	22	20.26	
943.997	21	20.763	
945.139	20.246	19.785	
946.28	22	19	
947.422	24.242	20.831	
948.563	24.239	21.853	

		plot_profile_sample
949.704	23.763	22
950.846	21.235	21.202
951.987	17.699	21.079
953.129	16.693	22
954.27	19.229	22.967
955.412	20.773	22
956.553	20.775	23
957.695	22.555	21
958.836	22.559	20.942
959.978	20.218	20.08
961.119	19.216	22.897
962.261	19.428	20
963.402	20.636	21
964.544	19.419	20.829
965.685	17.792	20
966.827	18.411	22
967.968	19.203	20
969.109	19.201	19
970.251	20.199	19.431
971.392	20	19.079
972.534	22.415	19.67
973.675	19.807	20
974.817	18	19
975.958	19	20.602
977.1	18	21.841
978.241	17.184	23
979.383	19	20.466
980.524	19	19.489
981.666	18	20.023
982.807	16.352	19.136
983.949	18.174	20.67
985.09	19.172	21.579
986.232	18.169	22.602
987.373	18	22.375
988.515	19.835	19.41
989.656	20	20.33
990.797	20	22.386
991.939	21	21.431
993.08	21	22.738
994.222	20	22.761
995.363	19.695	25.134
996.505	20.85	22.613
997.646	20.852	21.829
998.788	19	19.297
999.929	19.144	21.874
1001.071	19.858	18.897
1002.212	19	19.92
1003.354	18.862	20.115
1004.495	19.864	18.035

		plot_profile_sample
1005.637	21.867	19.976
1006.778	19.869	21
1007.92	18.129	20.934
1009.061	18	21.944
1010.202	16.875	22.079
1011.344	18	21
1012.485	18.121	21
1013.627	18	21.147
1014.768	16	20.339
1015.91	16.114	19.384
1017.051	19.775	19.429
1018.193	16.89	21.237
1019.334	19.784	22.52
1020.476	19.788	23
1021.617	18.896	24.389
1022.759	18	23.672
1023.9	18	22.298
1025.042	18.903	22.627
1026.183	18	23.396
1027.325	20	24
1028.466	19.091	25
1029.608	19.089	28
1030.749	17.261	29.513
1031.89	17.169	32.51
1033.032	18.917	37.597
1034.173	17.919	38.665
1035.315	18.765	37.311
1036.456	19.924	36
1037.598	20.074	30.885
1038.739	20.072	28.709
1039.881	20.07	28.663
1041.022	19	25.927
1042.164	20	25.286
1043.305	20	24.736
1044.447	18.939	25.759
1045.588	17.941	27
1046.73	19	23.805
1047.871	20	21.173
1049.013	19.947	20.3
1050.154	18.051	21.127
1051.295	17.146	20.895
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1053.578	17	22.941
1054.72	17.958	22.89
1055.861	17.96	22.986
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1058.144	18	20.031
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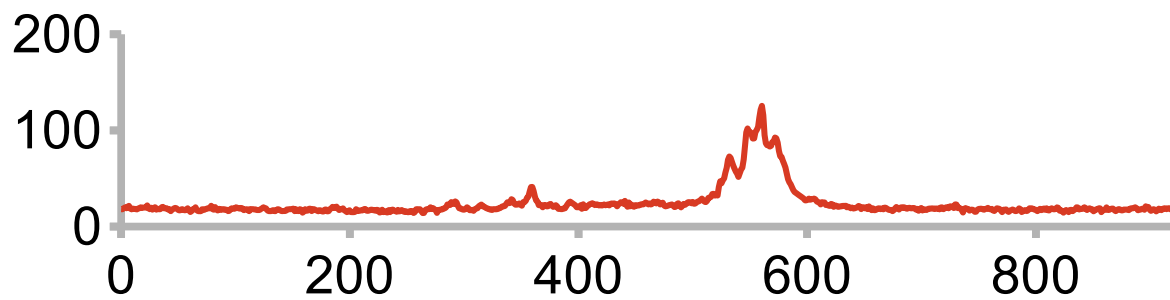
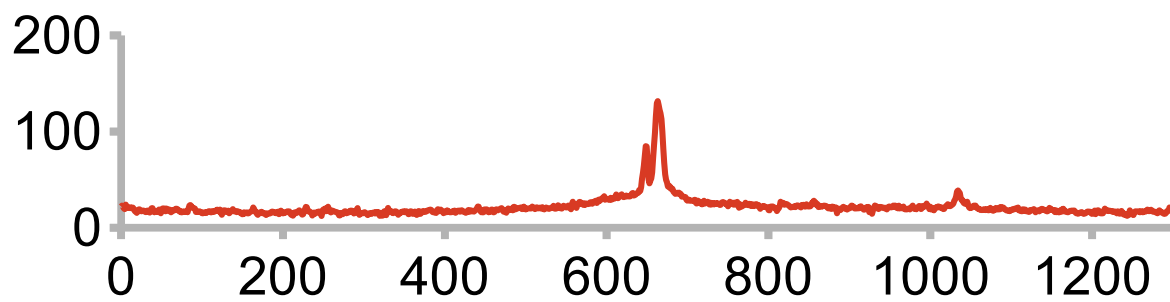
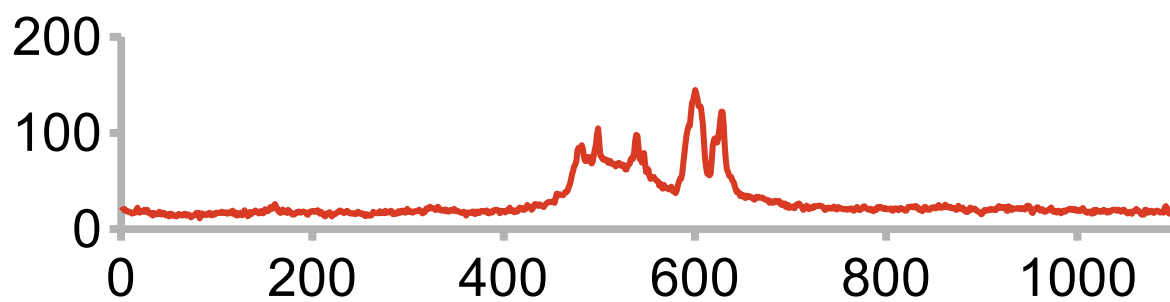
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1063.852	19	18.435
1064.993	17.977	18.335
1066.135	15.979	19.19
1067.276	14.981	18.787
1068.417	15.034	18.293
1069.559	15.03	19.258
1070.7	19.975	19.281
1071.842	19.979	18
1072.983	18.992	18.674
1074.125	17.006	20.651
1075.266	18	18.257
1076.408	18.998	19.394
1077.549	19	17.583
1078.691	17.989	18
1079.832	16.708	19
1080.974	18.289	20.515
1082.115	19.002	18.984
1083.257	19.24	19
1084.398	18.769	20
1085.54	17.39	19
1086.681	17.186	21.599
1087.823	17.839	21.243
1088.964	18.138	20
1090.105	17.016	21
1091.247	22.106	20
1092.388	23.833	19
1093.53	21.815	18.265
1094.671	20.036	17.757
1095.813	16.041	17.78
1096.954	17	18
1098.096		17.175
1099.237		18.152
1100.379		18.258
1101.52		19.213
1102.662		19.084
1103.803		19.061
1104.945		20
1106.086		19.953
1107.228		19.993
1108.369		20.941
1109.51		17.895
1110.652		17.85
1111.793		18.098
1112.935		17
1114.076		19.143
1115.218		19
1116.359		17.623

	plot_profile_sample
1117.501	18.789
1118.642	17
1119.784	17
1120.925	17.442
1122.067	16.396
1123.208	18.351
1124.35	18
1125.491	18.37
1126.633	18.607
1127.774	19.339
1128.916	17.124
1130.057	16
1131.198	17.033
1132.34	18
1133.481	17.471
1134.623	16.897
1135.764	17.852
1136.906	19.403
1138.047	19.62
1139.189	19.284
1140.33	18.335
1141.472	18.312
1142.613	17.71
1143.755	17
1144.896	17
1146.038	18.557
1147.179	20.602
1148.321	19.824
1149.462	18.693
1150.604	18.738
1151.745	18
1152.886	18
1154.028	16.188
1155.169	18.12
1156.311	16.035
1157.452	17
1158.594	16.028
1159.735	16.101
1160.877	17.927
1162.018	18.808
1163.16	16.763
1164.301	19.717
1165.443	18
1166.584	16.813
1167.726	16.791
1168.867	16.232
1170.009	16.019
1171.15	16.832
1172.292	17

	plot_profile_sample
1173.433	17.646
1174.574	17.382
1175.716	17.736
1176.857	17.782
1177.999	17.827
1179.14	16
1180.282	15
1181.423	15.482
1182.565	14.496
1183.706	14.946
1184.848	15.45
1185.989	16
1187.131	16.19
1188.272	15.236
1189.414	14.36
1190.555	14.674
1191.697	15
1192.838	15.709
1193.979	16.731
1195.121	16.754
1196.262	16.553
1197.404	16.599
1198.545	15.178
1199.687	14.311
1200.828	15.133
1201.97	15.89
1203.111	17.825
1204.253	14.065
1205.394	17.042
1206.536	18
1207.677	18
1208.819	17
1209.96	15.049
1211.101	14.928
1212.243	14.906
1213.384	15
1214.526	17.721
1215.667	19.838
1216.809	18.185
1217.95	17.792
1219.092	18
1220.233	17.253
1221.375	17.724
1222.516	17.403
1223.658	17
1224.799	17.344
1225.941	16.366
1227.082	16.389
1228.224	16.824

	plot_profile_sample
1229.365	15.738
1230.506	14.914
1231.648	17
1232.789	15.497
1233.931	14.475
1235.072	15.904
1236.214	17.429
1237.355	14.593
1238.497	15.232
1239.638	13.361
1240.78	14.339
1241.921	13.684
1243.063	12.293
1244.204	12.812
1245.346	13.248
1246.487	18
1247.629	15
1248.77	14
1249.911	14.157
1251.053	13.134
1252.194	15.888
1253.336	17
1254.477	16.934
1255.619	16.913
1256.76	16.958
1257.902	16.997
1259.043	16
1260.185	17
1261.326	17.07
1262.468	16
1263.609	16.885
1264.751	16.862
1265.892	16.679
1267.034	17.634
1268.175	18.794
1269.317	17.229
1270.458	17.251
1271.599	17.274
1272.741	18.703
1273.882	17.723
1275.024	16.658
1276.165	16.729
1277.307	16.613
1278.448	16
1279.59	15.433
1280.731	15
1281.873	17.044
1283.014	18
1284.156	16.047

	plot_profile_sample
1285.297	16.546
1286.439	16
1287.58	15
1288.722	14.386
1289.863	14.363
1291.005	15
1292.146	17
1293.287	17
1294.429	18
1295.57	21
1296.712	20.773
1297.853	18.592
1298.995	18.818
1300.136	19
1301.278	17
1302.419	16.887
1303.561	18.909
1304.702	19.932
1305.844	20.955
1306.985	23.955
1308.127	24



plot_profile_sample