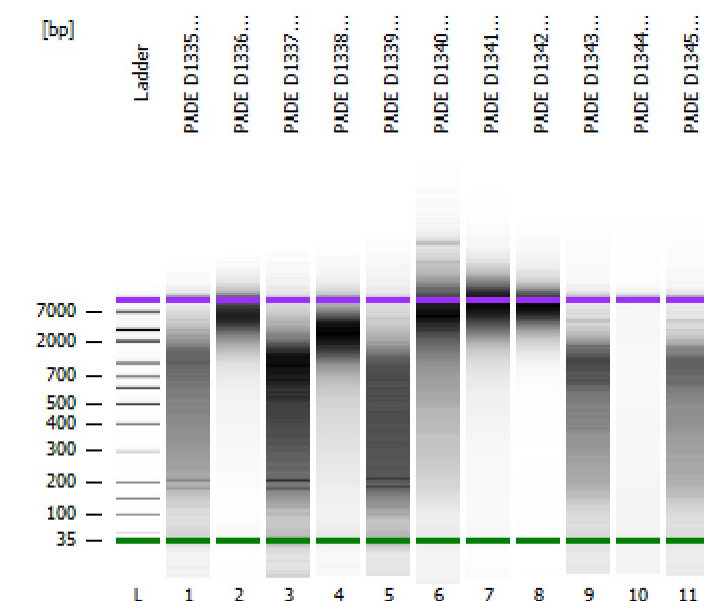


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
Modified: 3/2/2015 1:41:07 PM

## Electrophoresis File Run Summary



### Instrument Information:

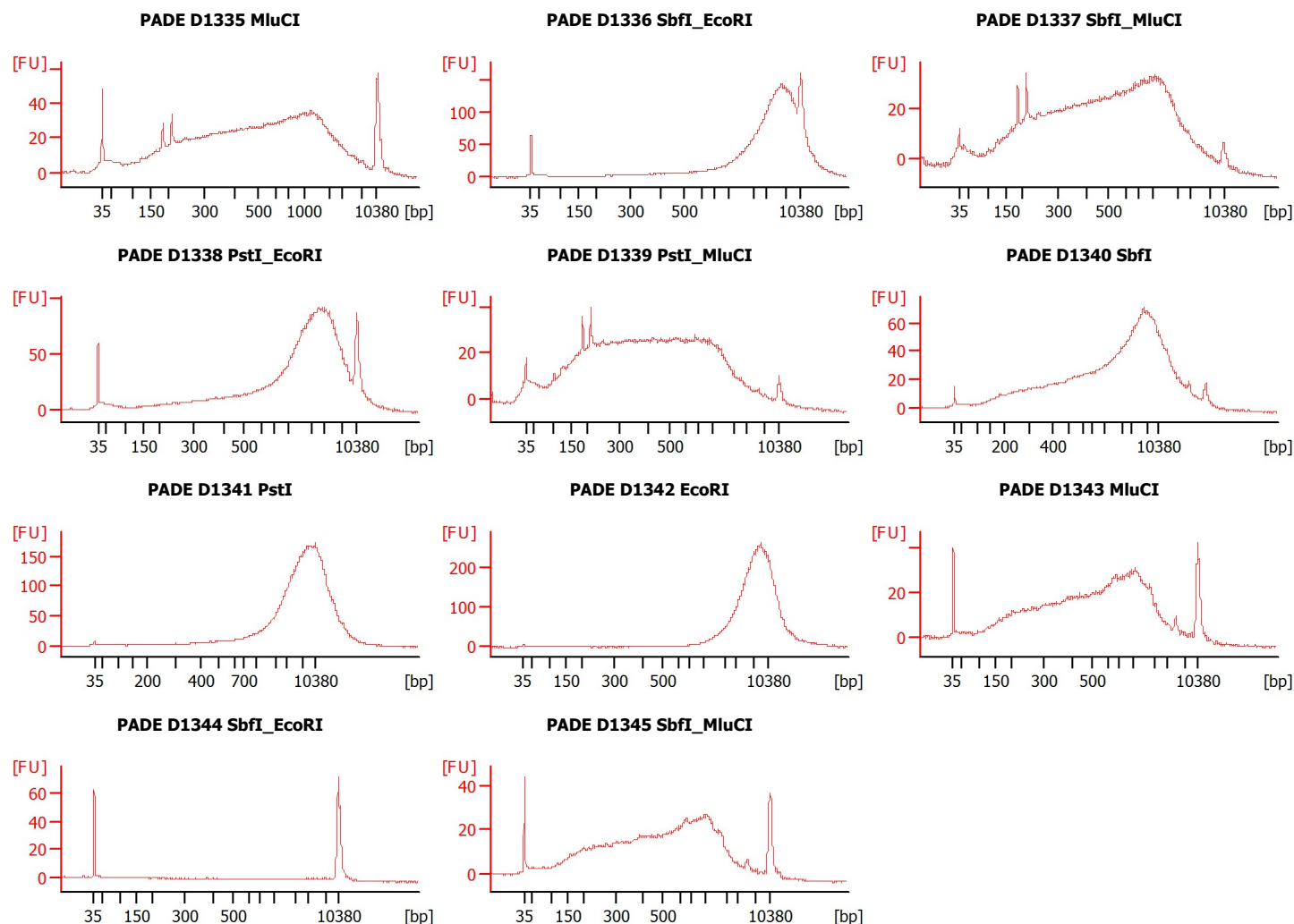
Instrument Name: DE04103186  
Serial#: DE04103186  
Firmware: C.01.069  
Type: G2939A

### Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy  
Assay Class: High Sensitivity DNA Assay  
Version: 1.03  
Assay Comments: Copyright © 2003-2010 Agilent Technologies

### Chip Information:

Chip Lot #: RM24  
Reagent Kit Lot #:  
Chip Comments: Chip #2 of 3 for Pinsky Lab, summer flounder digests



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
PADE D1335 MluCI		<input type="checkbox"/>	✓			
PADE D1336 SbfI_EcoRI		<input type="checkbox"/>	✓			
PADE D1337 SbfI_MluCI		<input type="checkbox"/>	✓			
PADE D1338 PstI_EcoRI		<input type="checkbox"/>	✓			
PADE D1339 PstI_MluCI		<input type="checkbox"/>	✓			
PADE D1340 SbfI		<input type="checkbox"/>	✓			
PADE D1341 PstI		<input type="checkbox"/>	✓			
PADE D1342 EcoRI		<input type="checkbox"/>	✓			
PADE D1343 MluCI		<input type="checkbox"/>	✓			
PADE D1344 SbfI_EcoRI		<input type="checkbox"/>	✓			
PADE D1345 SbfI_MluCI		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

#### Chip Lot #

RM24

#### Reagent Kit Lot #

#### Chip Comments :

Chip #2 of 3 for Pinsky Lab, summer flounder digests

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
Modified: 3/2/2015 1:41:07 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 32  
Maximum Visible Range [s] : 138  
Start Analysis Time Range [s] : 33  
End Analysis Time Range [s] : 137.5  
Ladder Concentration [pg/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 75  
Used Upper Marker for Quantitation  
Standard Curve Fit is Point to Point  
Show Data Aligned to Lower and Upper Marker

### Integrator Settings

Integration Start Time [s] : 33.05  
Integration End Time [s] : 137  
Slope Threshold : 0.8  
Height Threshold [FU] : 5  
Area Threshold : 0.1  
Width Threshold [s] : 0.6  
Baseline Plateau [s] : 0.5

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

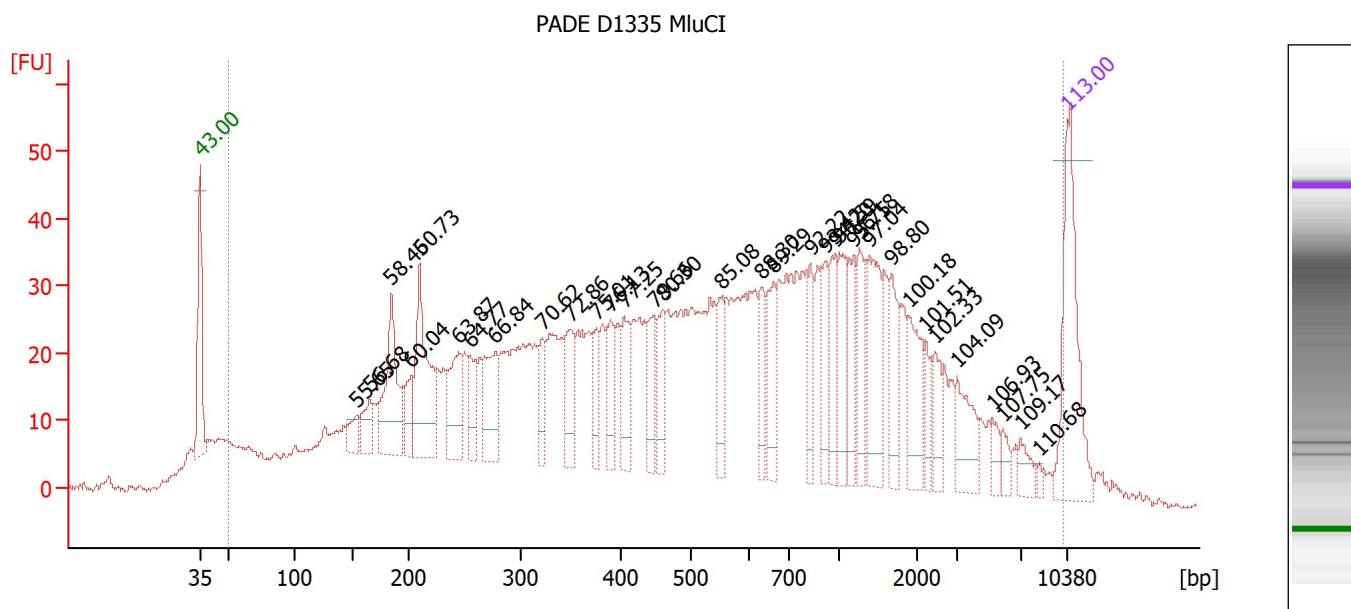
### Ladder

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary



### Overall Results for sample 1 : PADE D1335 MluCI

Number of peaks found: 34      Corr. Area 1: 1,915.2  
 Noise: 0.5

### Peak table for sample 1 : PADE D1335 MluCI


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	154	19.67	193.8	
3	165	26.92	247.1	
4	184	89.66	737.3	
5	202	24.35	183.0	
6	209	102.73	743.9	
7	244	52.89	328.4	
8	254	30.49	181.8	
9	277	55.99	306.3	
10	321	25.41	119.9	
11	349	37.79	164.0	
12	376	26.82	108.1	
13	390	29.23	113.6	
14	405	33.16	124.0	
15	448	27.20	92.0	
16	459	31.95	105.4	
17	552	29.73	81.6	
18	630	27.48	66.1	
19	661	36.03	82.6	
20	828	28.66	52.4	
21	919	26.25	43.3	
22	978	28.16	43.6	
23	1,015	38.03	56.8	
24	1,198	30.46	38.5	
25	1,266	28.89	34.6	
26	1,402	54.25	58.6	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad


Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 1 : PADE D1335 MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,680	29.41	26.5	
28	1,897	35.47	28.3	
29	2,208	14.12	9.7	
30	2,458	17.89	11.0	
31	2,996	29.72	15.0	
32	5,196	9.32	2.7	
33	5,831	8.30	2.2	
34	6,934	10.17	2.2	
35	8,283	2.71	0.5	
36	 10,380	75.00	10.9	Upper Marker

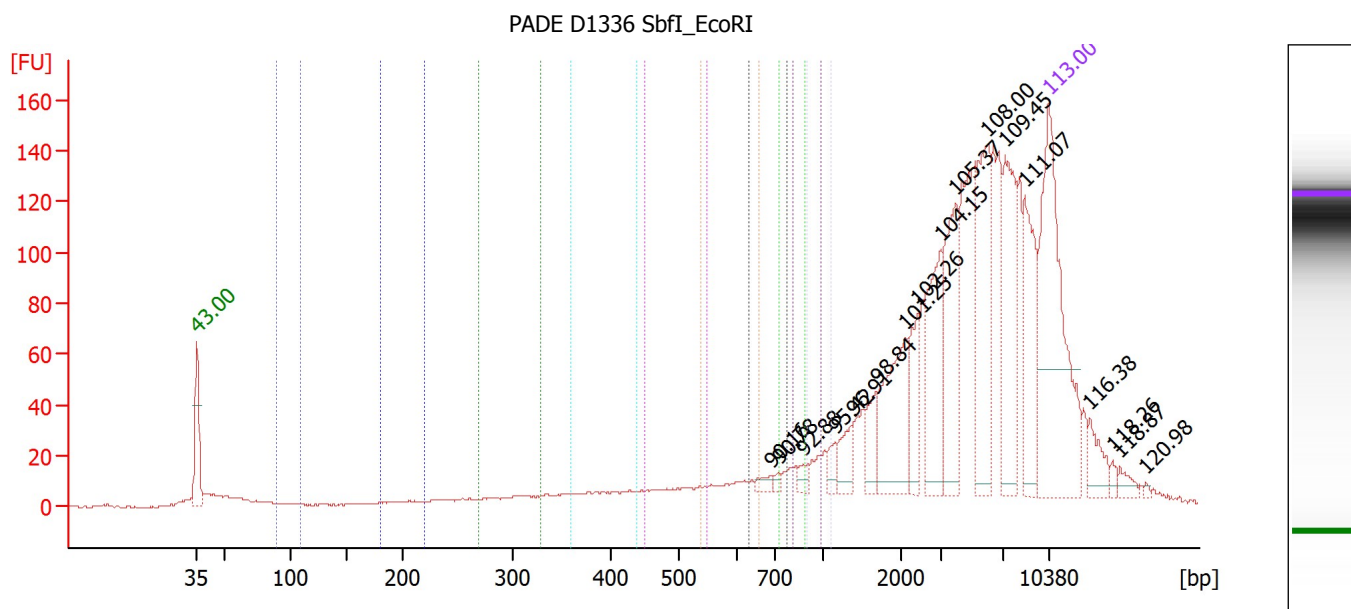
#### Region table for sample 1 : PADE D1335 MluCI

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	10,000	1,915.2	96	1,012	100.0	2,924.34	15,605.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 2 : PADE D1336 SbfI EcoRI

Number of peaks found:	17	Corr. Area 5:	37.6
Noise:	0.3	Corr. Area 6:	43.4
Corr. Area 1:	2.1	Corr. Area 7:	37.4
Corr. Area 2:	7.4	Corr. Area 8:	32.2
Corr. Area 3:	21.0	Corr. Area 9:	41.2
Corr. Area 4:	32.8	Corr. Area 10:	38.6

### Peak table for sample 2 : PADE D1336 SbfI EcoRI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	688	3.28	7.2	
3	719	1.63	3.4	
4	878	3.23	5.6	
5	1,147	5.13	6.8	
6	1,382	9.72	10.7	
7	1,687	10.43	9.4	
8	2,129	34.92	24.8	
9	2,437	16.65	10.4	
10	3,031	33.77	16.9	
11	3,984	38.64	14.7	
12	6,027	44.84	11.3	
13	7,175	41.05	8.7	
14	8,639	32.76	5.7	
15	10,380	75.00	10.9	Upper Marker
16	13,426	0.00	0.0	
17	15,128	0.00	0.0	
18	15,682	0.00	0.0	
19	17,581	0.00	0.0	











Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...

... Region table for sample 2 :

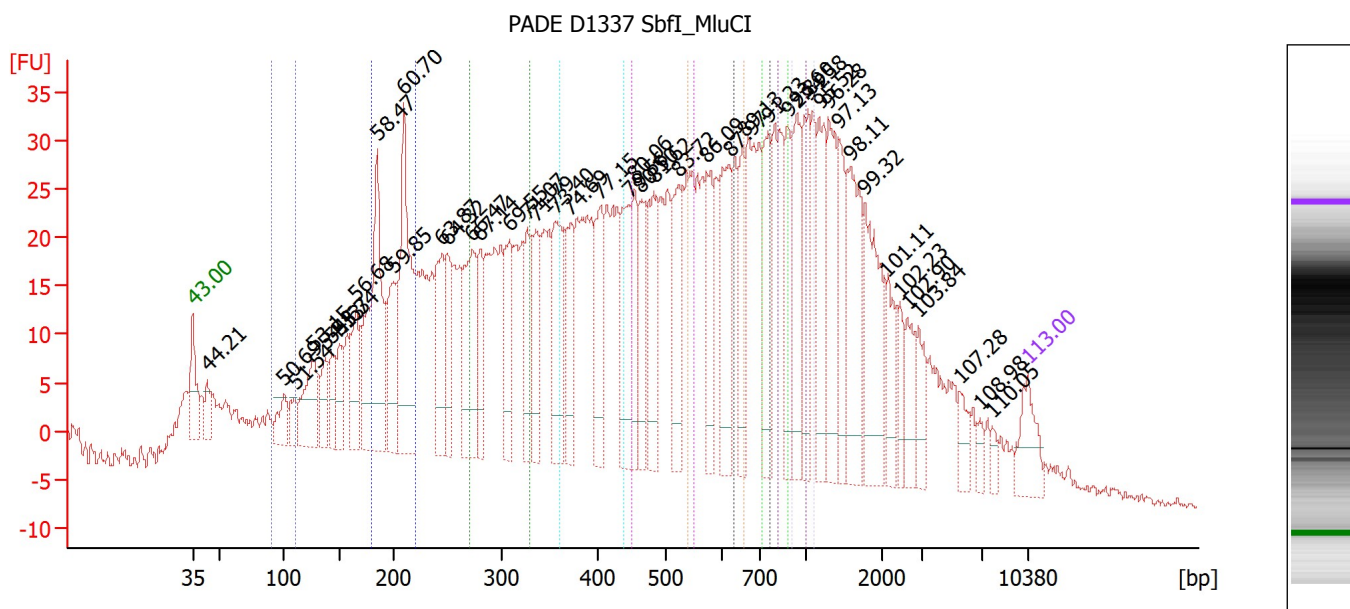
PADE D1336 SbfI EcoRI

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
90	110	2.1	0	99	6.5	1.10	16.9	
180	220	7.4	0	200	5.9	3.38	25.7	
270	330	21.0	1	301	5.7	8.53	43.1	
360	440	32.8	2	397	5.8	11.97	45.9	
450	550	37.6	2	499	5.8	13.34	40.7	
540	660	43.4	2	597	5.8	14.47	36.9	
630	770	37.4	2	687	5.5	12.58	27.8	
720	880	32.2	2	801	6.0	10.52	20.0	
810	990	41.2	2	903	5.9	12.90	21.7	
900	1,100	38.6	2	985	5.6	11.72	18.1	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 3 : PADE D1337 SbfI MluCI

Number of peaks found:	45	Corr. Area 5:	188.7
Noise:	0.7	Corr. Area 6:	177.9
Corr. Area 1:	17.5	Corr. Area 7:	124.7
Corr. Area 2:	136.7	Corr. Area 8:	84.5
Corr. Area 3:	173.8	Corr. Area 9:	96.0
Corr. Area 4:	193.1	Corr. Area 10:	80.6

### Peak table for sample 3 : PADE D1337 SbfI MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	66.43	2,339.2	
3	100	86.37	1,304.7	
4	109	56.60	783.4	
5	127	205.09	2,450.4	
6	137	101.67	1,121.0	
7	143	90.74	960.1	
8	150	96.10	967.9	
9	165	160.34	1,472.2	
10	184	546.09	4,485.3	
11	200	216.63	1,644.9	
12	209	437.94	3,175.6	
13	244	205.65	1,276.3	
14	249	151.33	920.5	
15	273	285.94	1,587.7	
16	280	134.23	725.6	
17	308	172.07	846.7	
18	327	132.57	614.6	
19	336	161.37	728.3	
20	356	220.39	938.7	
21	372	163.71	667.1	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad











Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 3 : PADE D1337 SbfI MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
22	403	163.69	614.8	
23	446	200.75	681.9	
24	455	127.26	424.0	
25	463	135.61	444.1	
26	482	192.59	604.9	
27	523	200.10	579.3	
28	574	149.36	394.6	
29	620	221.59	541.8	
30	656	126.16	291.3	
31	753	169.49	341.0	
32	878	124.03	213.9	
33	933	151.73	246.5	
34	1,015	147.09	219.6	
35	1,163	157.50	205.2	
36	1,283	177.42	209.6	
37	1,417	124.54	133.2	
38	1,572	206.47	199.0	
39	1,762	205.90	177.0	
40	2,085	84.71	61.5	
41	2,427	47.03	29.4	
42	2,631	66.85	38.5	
43	2,918	63.02	32.7	
44	5,464	39.90	11.1	
45	6,784	20.66	4.6	
46	7,717	16.68	3.3	
47	10,380	75.00	10.9	Upper Marker

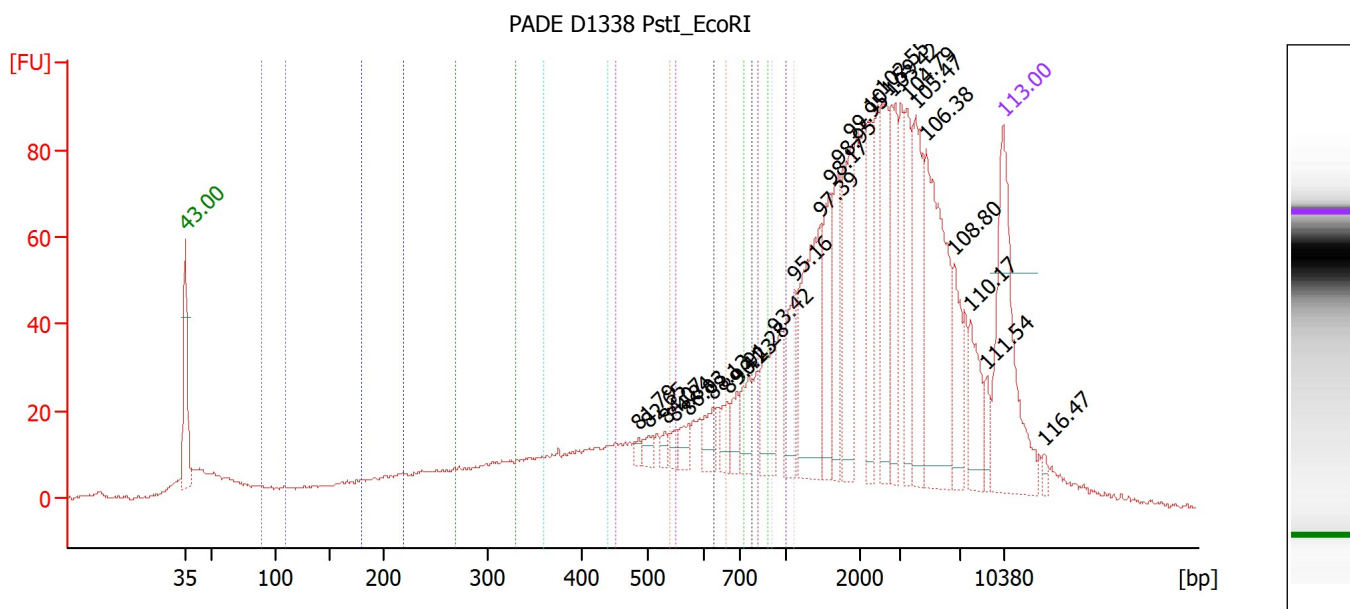
#### Region table for sample 3 : PADE D1337 SbfI MluCI

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
90	110	17.5	1	100	5.6	153.44	2,323.7	
180	220	136.7	7	200	5.9	1,040.22	7,921.2	
270	330	173.8	9	299	5.9	1,180.06	6,002.2	
360	440	193.1	10	397	5.8	1,177.98	4,518.5	
450	550	188.7	10	498	5.9	1,119.22	3,421.3	
540	660	177.9	9	594	5.8	992.38	2,540.4	
630	770	124.7	7	684	5.5	701.08	1,557.2	
720	880	84.5	5	796	5.9	462.63	884.6	
810	990	96.0	5	898	5.9	502.62	851.7	
900	1,100	80.6	4	978	5.6	409.62	636.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad











Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : PADE D1338 PstI EcoRI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
22	4,769	95.08	30.2	
23	6,648	26.00	5.9	
24	7,826	25.40	4.9	
25	9,062	8.01	1.3	
26	10,380	75.00	10.9	Upper Marker
27	13,510	0.00	0.0	

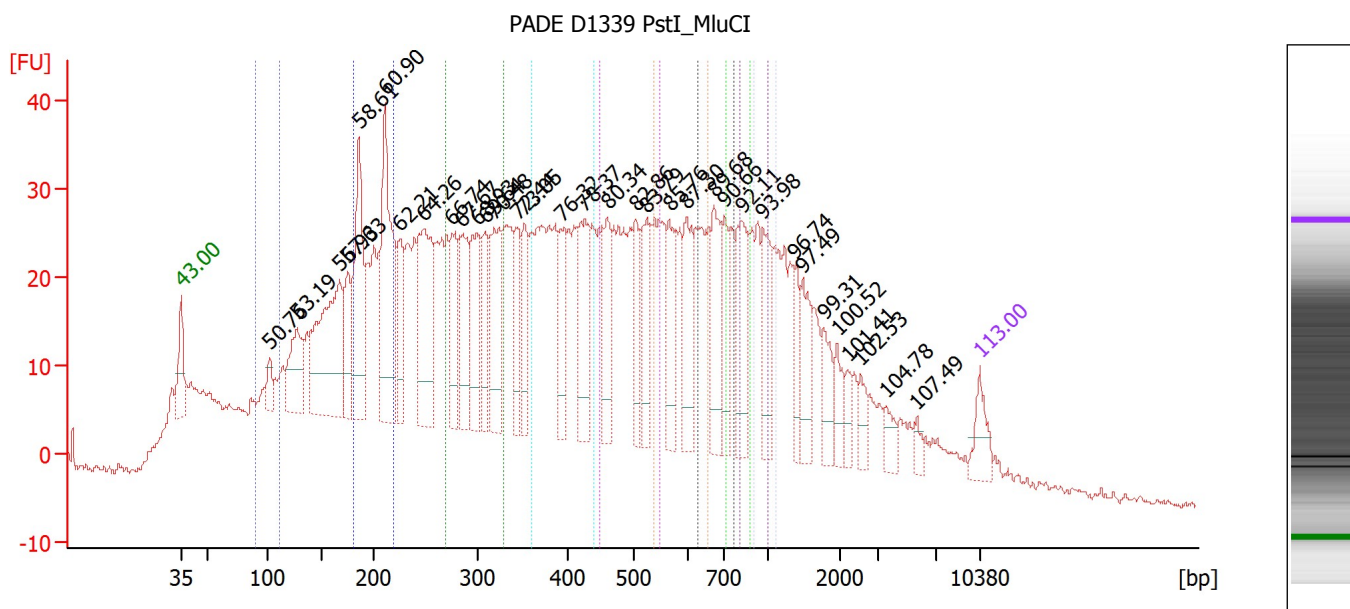
#### Region table for sample 4 : PADE D1338 PstI EcoRI

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
90	110	10.4	1	99	6.0	12.46	191.3	
180	220	32.4	2	201	5.8	33.44	253.6	
270	330	63.5	3	300	5.8	58.54	296.8	
360	440	85.2	4	398	5.8	70.53	269.9	
450	550	95.7	5	499	5.8	77.04	235.0	
540	660	108.4	5	597	5.8	82.03	209.0	
630	770	88.5	4	688	5.6	67.58	149.4	
720	880	72.7	4	800	6.0	53.96	102.7	
810	990	93.3	5	900	5.9	66.30	112.1	
900	1,100	87.5	4	982	5.7	60.32	93.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 5 : PADE D1339 PstI MluCI

Number of peaks found:	34	Corr. Area 5:	193.1
Noise:	0.6	Corr. Area 6:	168.6
Corr. Area 1:	44.1	Corr. Area 7:	110.1
Corr. Area 2:	185.3	Corr. Area 8:	70.2
Corr. Area 3:	216.9	Corr. Area 9:	78.1
Corr. Area 4:	217.0	Corr. Area 10:	60.6

### Peak table for sample 5 : PADE D1339 PstI MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	101	77.88	1,167.7	
3	127	281.70	3,354.3	
4	168	699.05	6,315.6	
5	175	197.60	1,707.6	
6	186	499.52	4,068.9	
7	211	656.99	4,714.9	
8	226	205.15	1,377.6	
9	248	486.36	2,966.4	
10	276	236.97	1,301.5	
11	286	287.56	1,522.2	
12	300	267.31	1,349.0	
13	309	181.59	890.5	
14	319	292.21	1,386.1	
15	344	173.69	765.4	
16	351	171.65	740.1	
17	392	182.49	705.3	
18	425	257.49	917.9	
19	460	203.82	671.8	
20	505	151.09	453.2	
21	525	193.48	558.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad











Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 : PADE D1339 PstI MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
22	566	191.40	511.9	
23	599	215.98	546.2	
24	673	238.24	536.1	
25	710	148.35	316.6	
26	820	245.40	453.6	
27	961	184.30	290.4	
28	1,355	88.25	98.7	
29	1,473	136.61	140.6	
30	1,760	86.48	74.5	
31	1,952	67.64	52.5	
32	2,177	39.47	27.5	
33	2,520	50.77	30.5	
34	3,520	44.50	19.2	
35	5,625	28.41	7.7	
36	10,380	75.00	10.9	Upper Marker

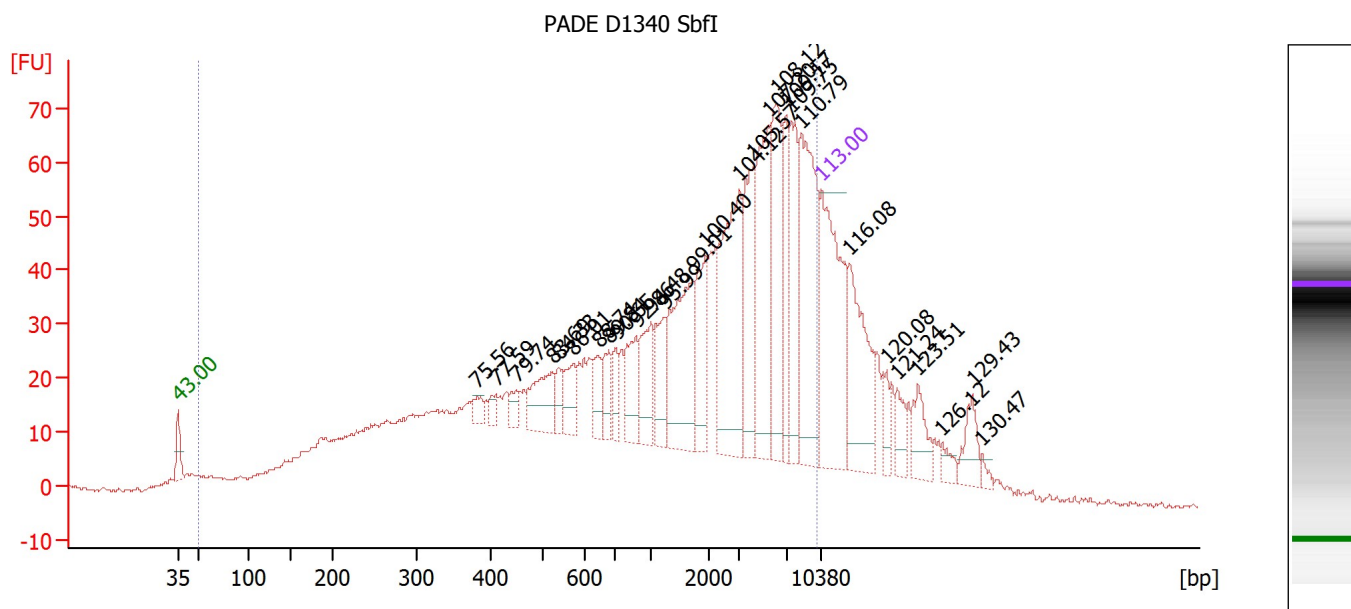
#### Region table for sample 5 : PADE D1339 PstI MluCI

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
90	110	44.1	2	100	5.7	513.53	7,815.3	
180	220	185.3	9	200	5.9	1,872.20	14,255.0	
270	330	216.9	10	299	5.8	1,956.36	9,962.3	
360	440	217.0	10	396	5.8	1,758.64	6,754.0	
450	550	193.1	9	497	5.8	1,521.70	4,660.0	
540	660	168.6	8	593	5.8	1,249.19	3,206.3	
630	770	110.1	5	684	5.5	821.72	1,827.4	
720	880	70.2	3	797	5.9	510.11	974.2	
810	990	78.1	4	895	6.0	543.55	923.7	
900	1,100	60.6	3	977	5.5	409.47	637.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 6 : PADE D1340 SbfI

Number of peaks found: 28      Corr. Area 1: 1,726.4  
 Noise: 0.4

### Peak table for sample 6 : PADE D1340 SbfI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	383	6.60	26.1	
3	411	5.96	22.0	
4	449	6.75	22.8	
5	523	30.05	87.1	
6	536	8.99	25.4	
7	572	17.35	46.0	
8	644	13.79	32.5	
9	678	15.26	34.1	
10	709	11.65	24.9	
11	876	23.53	40.7	
12	1,000	25.94	39.3	
13	1,237	22.25	27.3	
14	1,713	57.04	50.4	
15	1,933	30.12	23.6	
16	3,010	76.18	38.3	
17	4,137	41.87	15.3	
18	5,400	66.54	18.7	
19	6,121	51.81	12.8	
20	6,933	29.97	6.5	
21	7,446	40.21	8.2	
22	8,389	76.37	13.8	
23	10,380	75.00	10.9	Upper Marker
24	13,157	0.00	0.0	
25	16,772	0.00	0.0	
26	17,819	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
Modified: 3/2/2015 1:41:07 PM

**Electropherogram Summary Continued ...****... Peak table for sample 6 : PADE D1340 SbfI**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	19,863	0.00	0.0	
28	22,220	0.00	0.0	
29	25,207	0.00	0.0	
30	26,150	0.00	0.0	

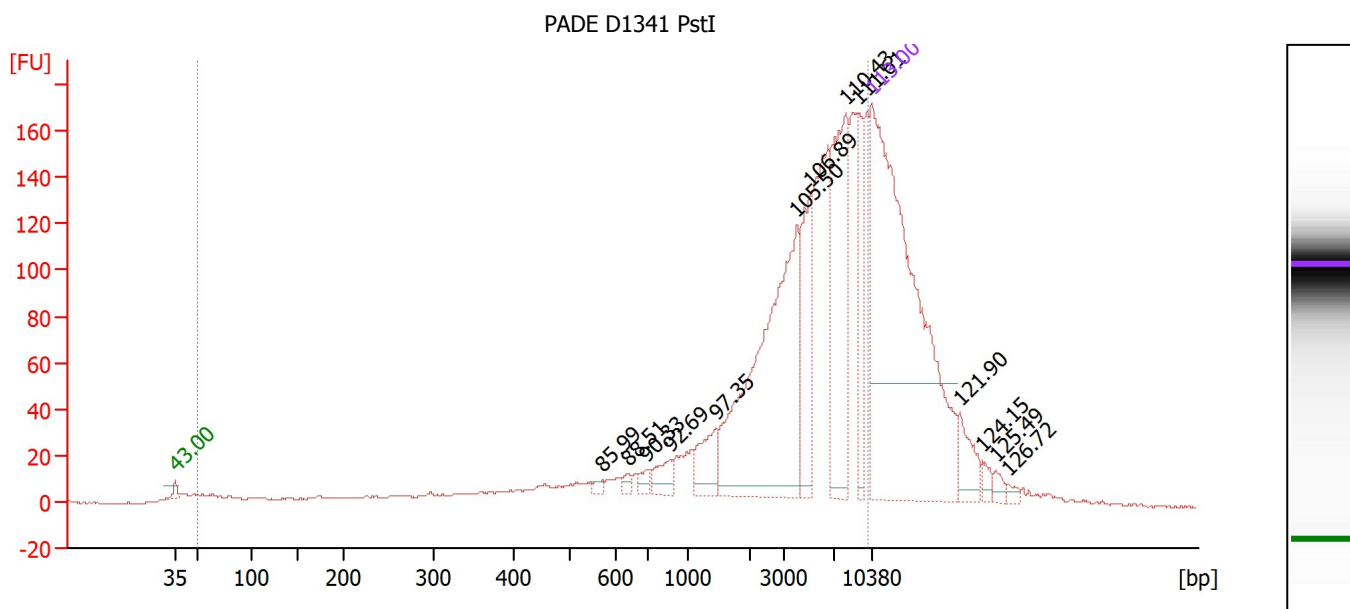
**Region table for sample 6 : PADE D1340 SbfI**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	10,000	1,726.4	87	2,798	100.0	1,496.08	4,796.9	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 7 : PADE D1341 PstI

Number of peaks found: 13      Corr. Area 1: 1,963.3  
 Noise: 0.3

### Peak table for sample 7 : PADE D1341 PstI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	571	0.89	2.4	
3	637	1.09	2.6	
4	694	1.55	3.4	
5	863	3.63	6.4	
6	1,451	6.29	6.6	
7	4,080	51.75	19.2	
8	5,162	14.38	4.2	
9	8,058	25.46	4.8	
10	9,122	10.14	1.7	
11	10,380	75.00	10.9	Upper Marker
12	18,411	0.00	0.0	
13	20,443	0.00	0.0	
14	21,652	0.00	0.0	
15	22,765	0.00	0.0	

### Region table for sample 7 : PADE D1341 PstI

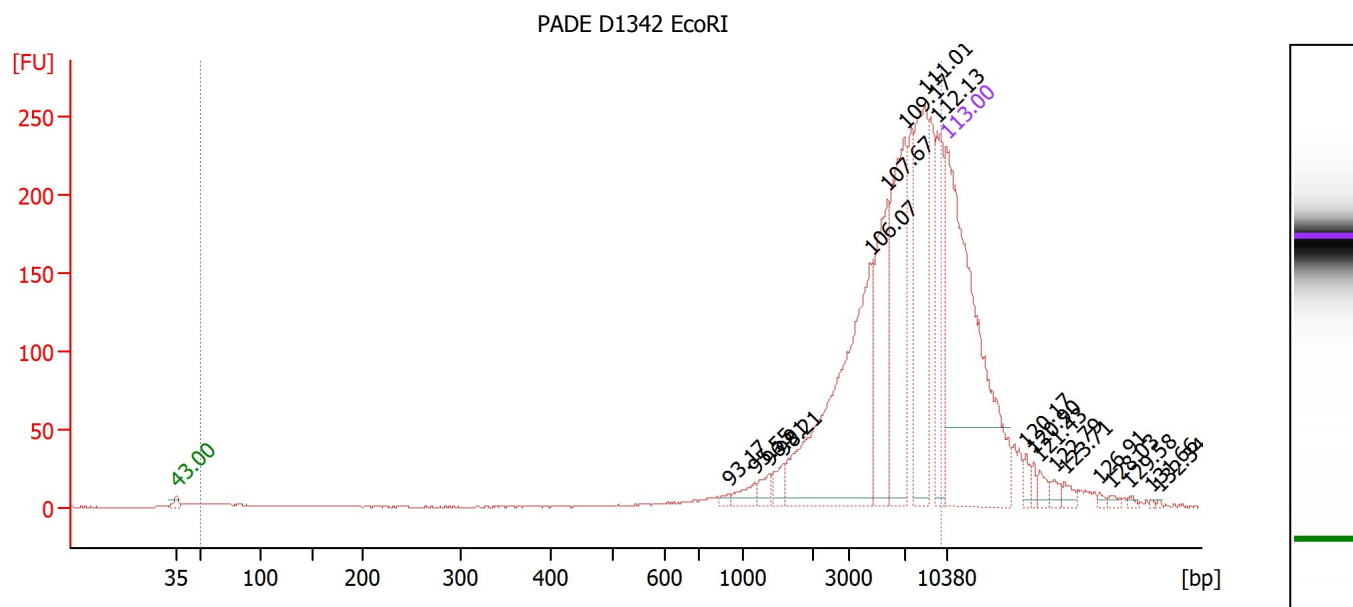
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	10,000	1,963.3	92	4,610	65.3	218.21	424.0	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 8 : PADE D1342 EcoRI

Number of peaks found: 19      Corr. Area 1: 2,031.6  
 Noise: 0.4

### Peak table for sample 8 : PADE D1342 EcoRI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	900	0.94	1.6	
3	1,167	3.12	4.1	
4	1,381	2.97	3.3	
5	1,588	3.43	3.3	
6	4,524	68.87	23.1	
7	5,767	29.05	7.6	
8	6,934	40.18	8.8	
9	8,586	37.15	6.6	
10	9,592	20.96	3.3	
11	10,380	75.00	10.9	Upper Marker
12	16,856	0.00	0.0	
13	17,512	0.00	0.0	
14	17,993	0.00	0.0	
15	19,219	0.00	0.0	
16	20,050	0.00	0.0	
17	22,938	0.00	0.0	
18	23,944	0.00	0.0	
19	25,344	0.00	0.0	
20	27,226	0.00	0.0	
21	27,838	0.00	0.0	

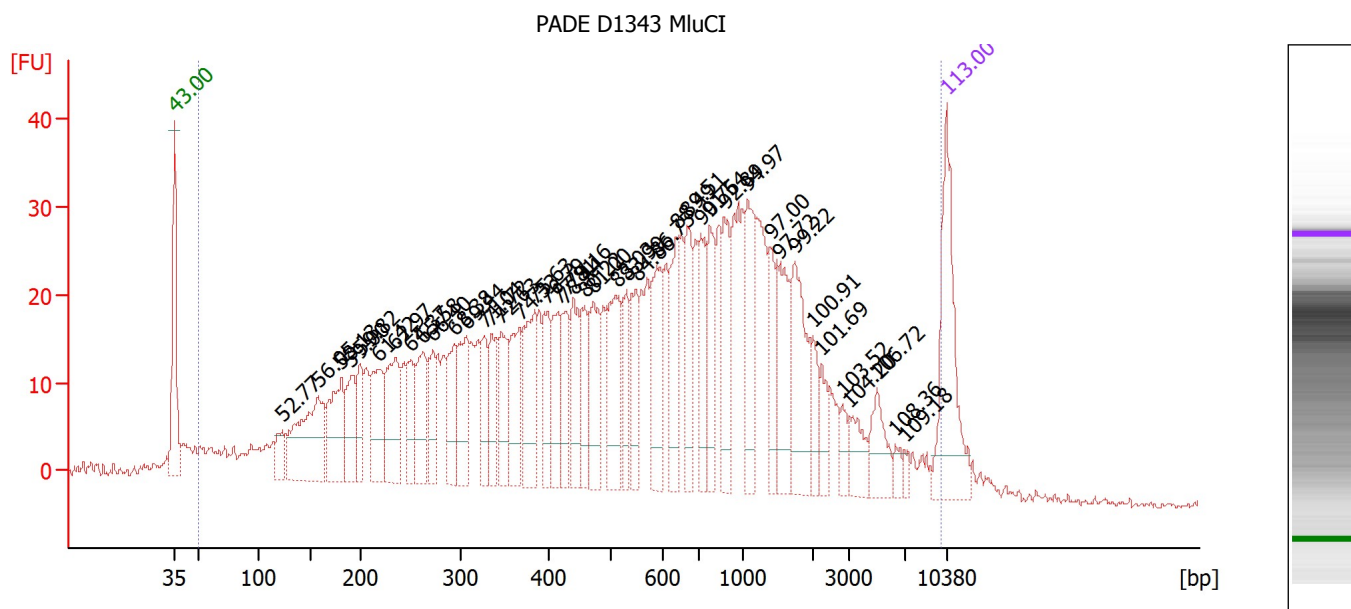
### Region table for sample 8 : PADE D1342 EcoRI

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	10,000	2,031.6	90	5,781	45.3	241.04	187.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 9 : PADE D1343 MluCI

Number of peaks found: 43      Corr. Area 1: 1,305.2  
 Noise: 0.5

### Peak table for sample 9 : PADE D1343 MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	123	25.49	314.8	
3	158	120.83	1,157.2	
4	181	72.29	605.7	
5	190	46.14	367.4	
6	199	32.22	245.0	
7	217	58.70	410.1	
8	234	71.81	464.9	
9	250	30.71	186.4	
10	263	49.64	286.0	
11	272	33.05	184.0	
12	294	41.94	216.1	
13	307	53.25	263.2	
14	326	30.41	141.2	
15	335	39.49	178.7	
16	346	43.62	190.9	
17	367	46.92	193.5	
18	384	60.99	241.0	
19	398	42.22	160.8	
20	415	37.06	135.3	
21	426	34.87	124.0	
22	439	44.75	154.5	
23	458	32.46	107.4	
24	471	50.81	163.3	
25	509	58.44	174.1	
26	529	30.18	86.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad


Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 9 : PADE D1343 MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	548	38.83	107.4	
28	588	55.13	142.2	
29	636	46.70	111.2	
30	668	47.35	107.4	
31	717	43.43	91.7	
32	776	45.30	88.4	
33	879	44.53	76.8	
34	1,076	51.28	72.2	
35	1,396	32.37	35.1	
36	1,510	44.19	44.3	
37	1,746	56.03	48.6	
38	2,026	17.55	13.1	
39	2,262	14.93	10.0	
40	2,823	10.59	5.7	
41	3,074	18.43	9.1	
42	5,027	23.68	7.1	
43	6,304	6.12	1.5	
44	6,942	4.51	1.0	
45	10,380	75.00	10.9	Upper Marker

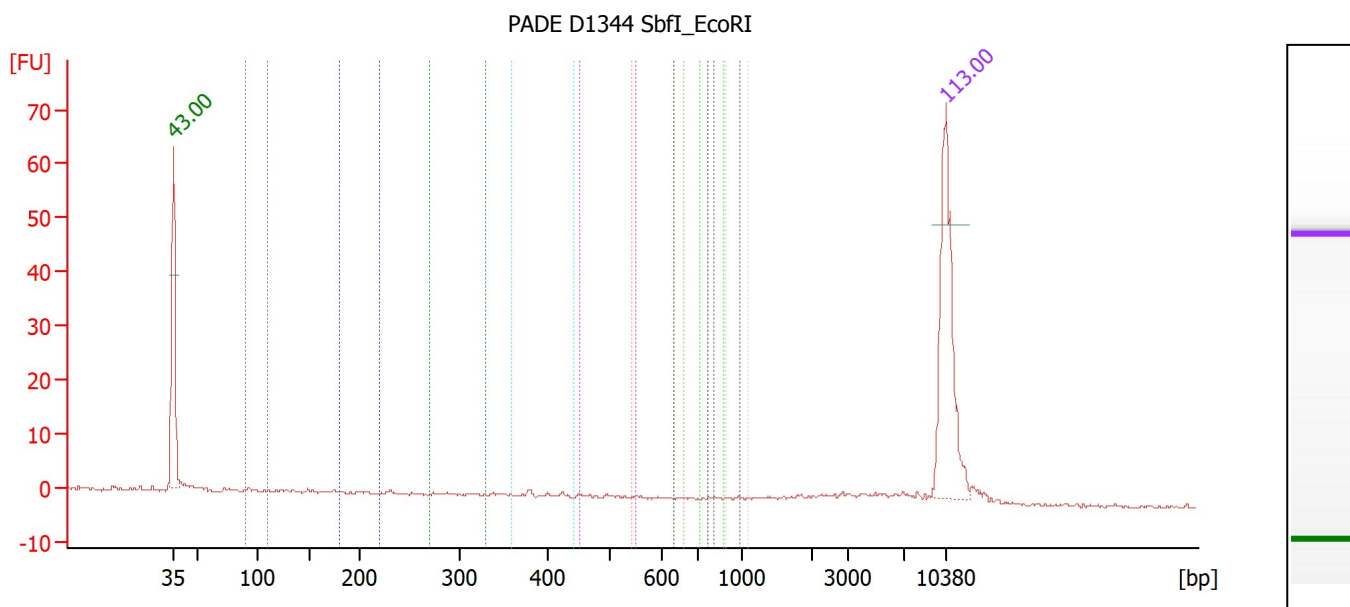
#### Region table for sample 9 : PADE D1343 MluCI

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	10,000	1,305.2	98	1,018	100.0	2,426.16	11,288.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 10 : PADE D1344 SbfI EcoRI

Number of peaks found:	0	Corr. Area 5:	0.7
Noise:	0.3	Corr. Area 6:	0.3
Corr. Area 1:	0.4	Corr. Area 7:	0.1
Corr. Area 2:	0.1	Corr. Area 8:	0.3
Corr. Area 3:	0.4	Corr. Area 9:	0.5
Corr. Area 4:	1.3	Corr. Area 10:	0.5

### Peak table for sample 10 : PADE D1344 SbfI EcoRI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

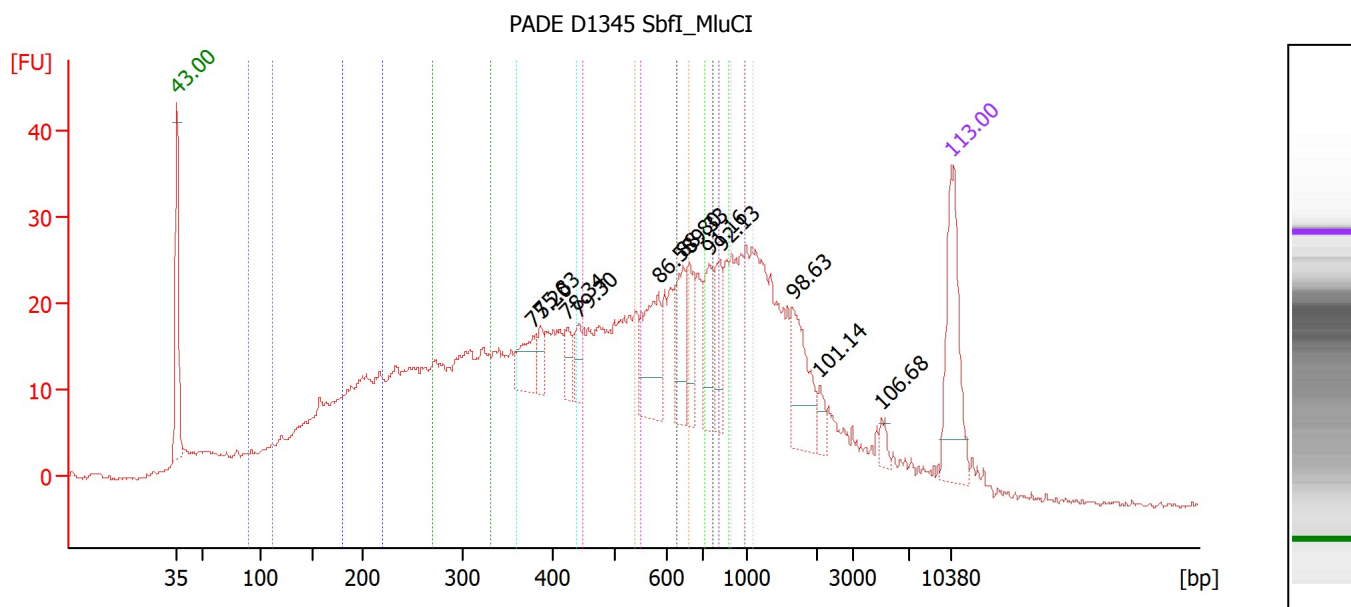
### Region table for sample 10 : PADE D1344 SbfI EcoRI

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
90	110	0.4	1	94	4.6	0.69	11.2	Blue
180	220	0.1	0	202	3.2	0.22	1.6	Dark Blue
270	330	0.4	1	298	5.6	0.55	2.8	Green
360	440	1.3	4	397	5.0	1.63	6.2	Cyan
450	550	0.7	2	490	6.0	0.93	2.9	Magenta
540	660	0.3	1	577	5.7	0.39	1.0	Orange
630	770	0.1	0	685	5.2	0.10	0.2	Black
720	880	0.3	1	807	3.9	0.39	0.7	Red
810	990	0.5	2	900	6.9	0.57	1.0	Purple
900	1,100	0.5	2	980	5.2	0.58	0.9	Light Purple

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 11 : PADE D1345 SbfI MluCI

Number of peaks found:	12	Corr. Area 5:	124.6
Noise:	0.3	Corr. Area 6:	126.3
Corr. Area 1:	15.3	Corr. Area 7:	91.3
Corr. Area 2:	75.3	Corr. Area 8:	62.3
Corr. Area 3:	115.1	Corr. Area 9:	70.2
Corr. Area 4:	130.5	Corr. Area 10:	58.0

### Peak table for sample 11 : PADE D1345 SbfI MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	378	35.28	141.4	
3	386	16.50	64.8	
4	424	21.91	78.2	
5	441	19.27	66.2	
6	584	68.38	177.4	
7	646	46.66	109.5	
8	662	36.07	82.5	
9	748	44.55	90.3	
10	821	33.81	62.4	
11	1,654	55.32	50.7	
12	2,095	10.99	7.9	
13	5,003	7.13	2.2	
14	10,380	75.00	10.9	Upper Marker

### Region table for sample 11 : PADE D1345 SbfI MluCI

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
90	110	15.3	1	99	6.0	53.23	814.1	Blue
180	220	75.3	6	200	5.8	226.47	1,722.3	Dark Blue
270	330	115.1	9	299	5.9	309.19	1,572.3	Green
360	440	130.5	10	397	5.7	314.95	1,207.9	Cyan







Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

### Electropherogram Summary Continued ...

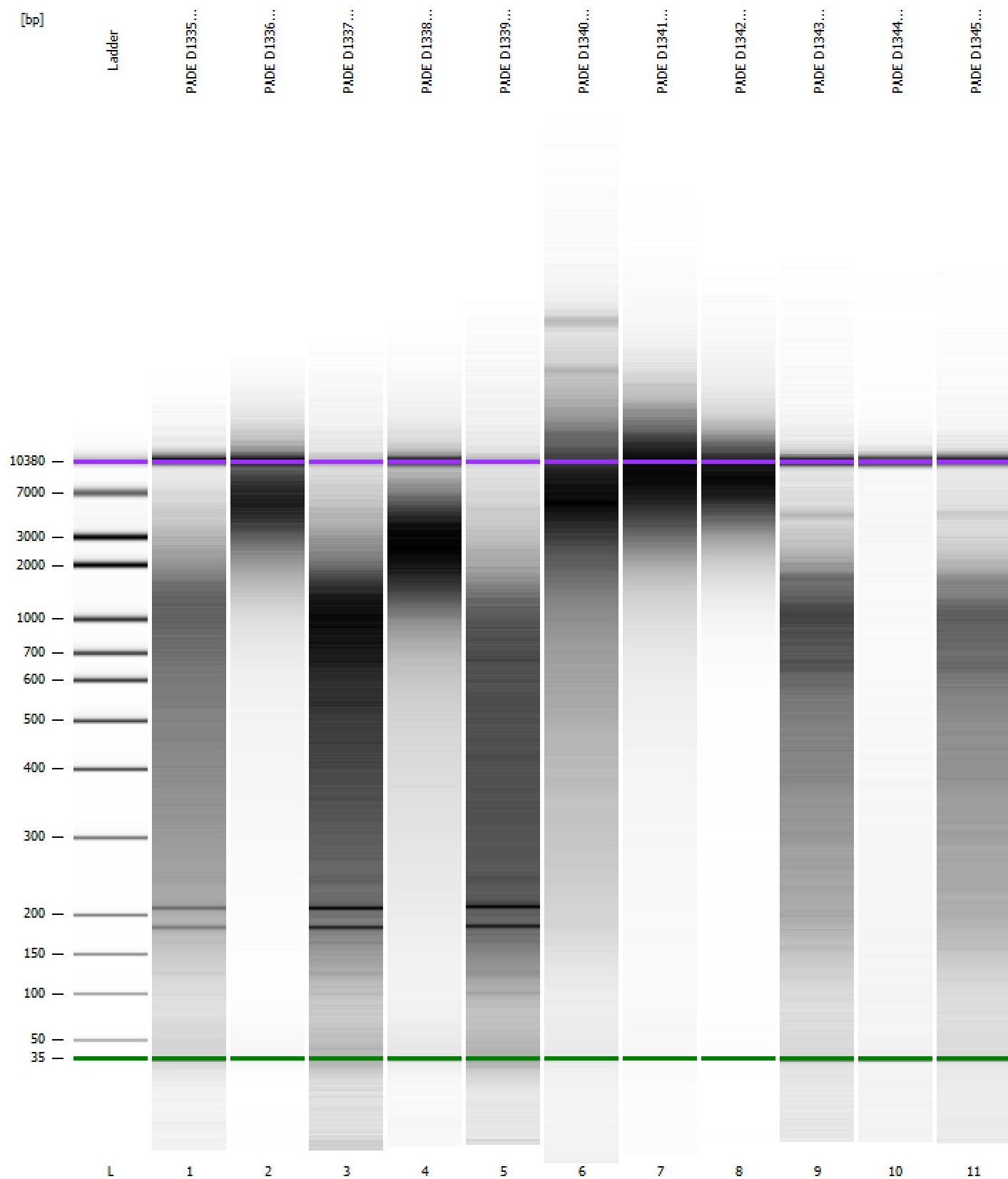
... Region table for sample 11 :

#### PADE D1345 SbfI MluCI

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Co lor
450	550	124.6	10	498	5.9	292.38	893.4	
540	660	126.3	10	595	5.8	278.67	712.2	
630	770	91.3	7	684	5.5	203.01	451.2	
720	880	62.3	5	796	6.0	134.83	257.8	
810	990	70.2	6	896	5.9	145.55	247.1	
900	1,100	58.0	5	979	5.6	116.64	181.2	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
Modified: 3/2/2015 1:41:07 PM

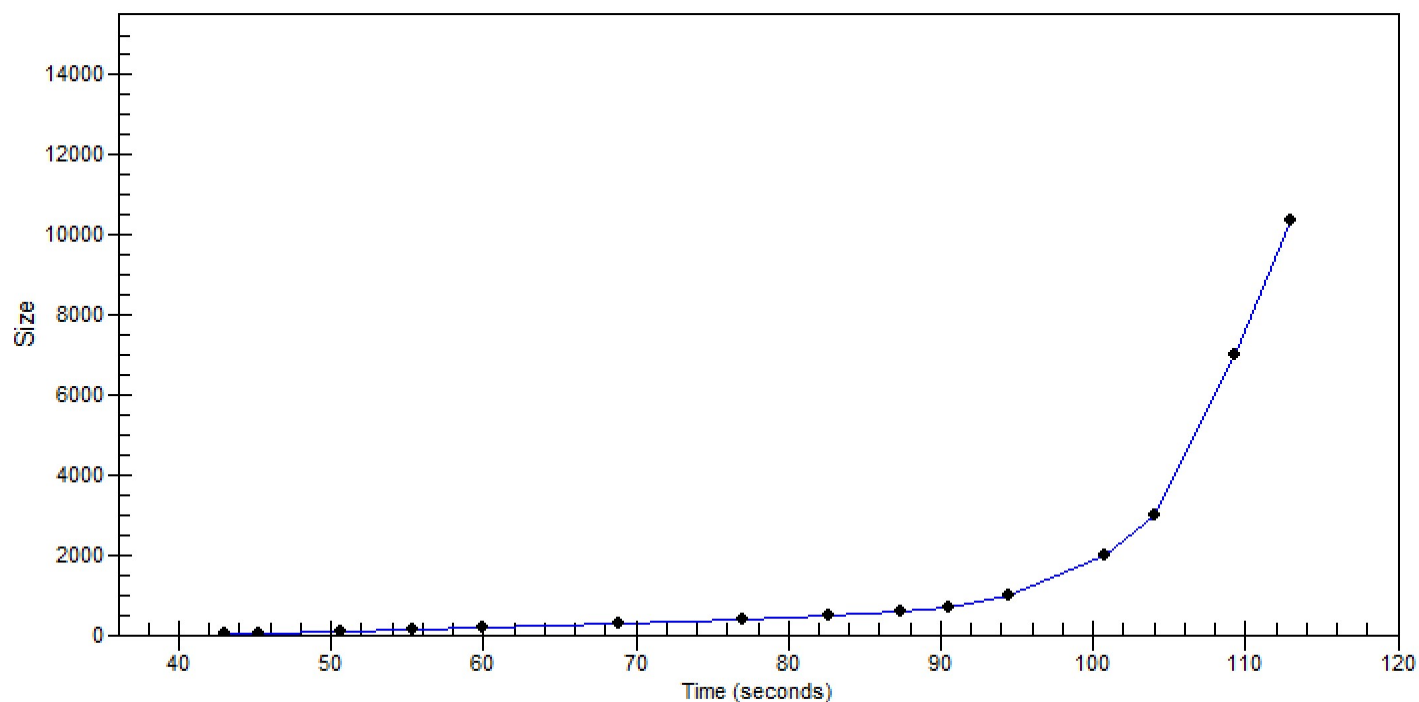
**Gel Image**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

## Curves

### Standard Curve





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_15-21-48.xad

Created: 12/15/2014 3:21:48 PM  
 Modified: 3/2/2015 1:41:07 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 4 (Number of wells acquired: 12)		Instrument	Run		12/15/2014 4:02:16 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Run started on port 4 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\Data\2014-12-15\2100 expert_High Sensitivity DNA Assay_DE04103186_2014-12-15_15-21-48.xad)		Instrument	Run		12/15/2014 3:21:53 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Product Number : G2939A		Instrument	Run		12/15/2014 3:21:53 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Name :		Instrument	Run		12/15/2014 3:21:53 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Vendor : Agilent Technologies		Instrument	Run		12/15/2014 3:21:53 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Serial# : DE04103186		Instrument	Run		12/15/2014 3:21:53 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Firmware : C.01.069		Instrument	Run		12/15/2014 3:21:53 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Cartridge : Electrode		Instrument	Run		12/15/2014 3:21:53 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP