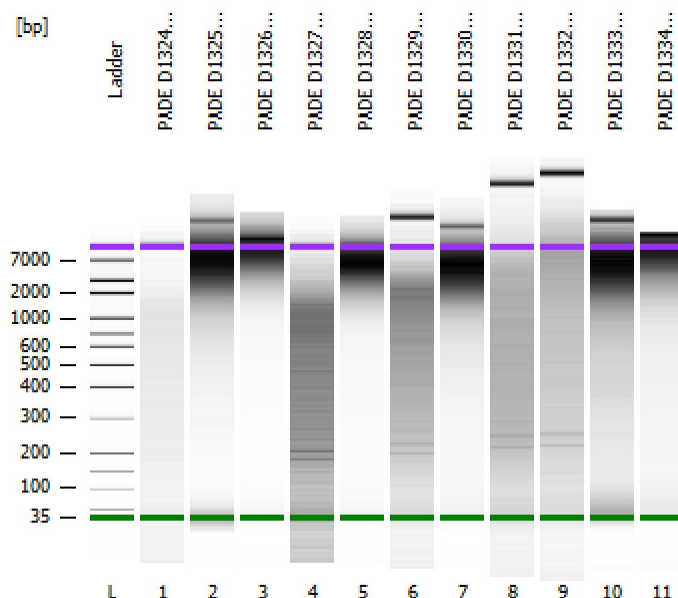


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

Created: 12/15/2014 2:07:02 PM  
Modified: 3/2/2015 1:40:56 PM

### Electrophoresis File Run Summary



#### Instrument Information:

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

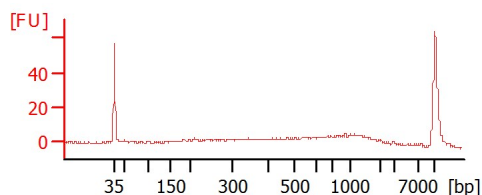
#### Assay Information:

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

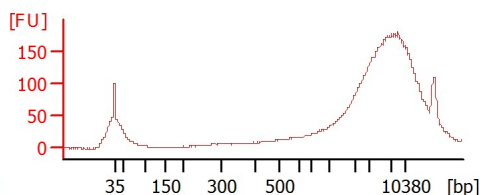
#### Chip Information:

Chip Lot #: RM24BK50  
Reagent Kit Lot #: 1349  
Chip Comments: Chip #1 of 3 for Pinsky lab, summer flounder digests.  
Reagents provided by Pinsky lab

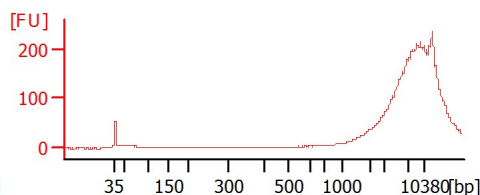
PADE D1324 SbfI



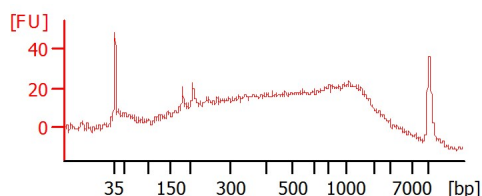
PADE D1325 PstI



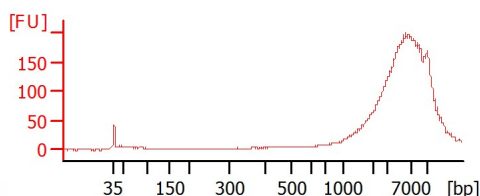
PADE D1326 EcoRI



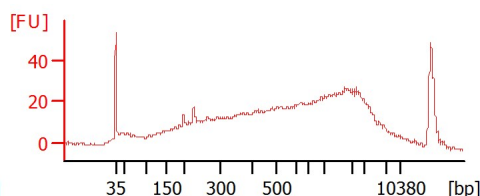
PADE D1327 MluCI



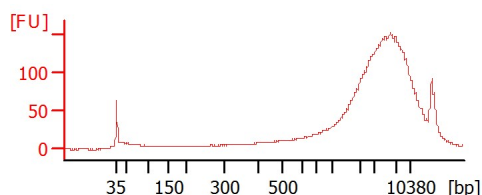
PADE D1328 SbfI\_EcoRI



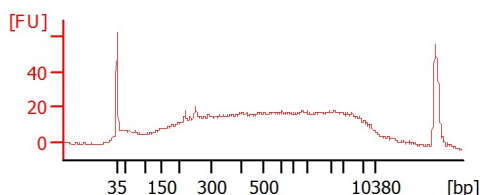
PADE D1329 SbfI\_MluCI



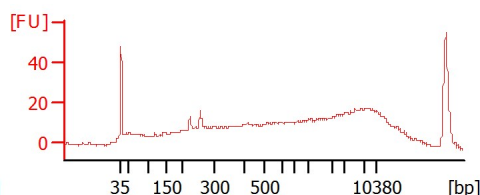
PADE D1330 PstI\_EcoRI



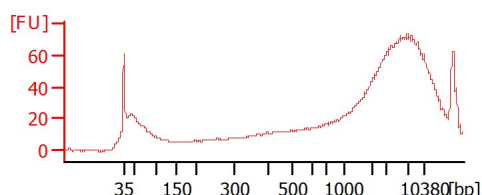
PADE D1331 PstI\_MluCI



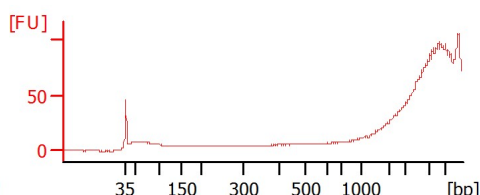
PADE D1332 SbfI



PADE D1333 PstI



PADE D1334 EcoRI



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

Created: 12/15/2014 2:07:02 PM  
 Modified: 3/2/2015 1:40:56 PM

### Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
PADE D1324 SbfI		<input type="checkbox"/>	✓			
PADE D1325 PstI		<input type="checkbox"/>	✓			
PADE D1326 EcoRI		<input type="checkbox"/>	✓			
PADE D1327 MluCI		<input type="checkbox"/>	✓			
PADE D1328 SbfI_EcoRI		<input type="checkbox"/>	✓			
PADE D1329 SbfI_MluCI		<input type="checkbox"/>	✓			
PADE D1330 PstI_EcoRI		<input type="checkbox"/>	✓			
PADE D1331 PstI_MluCI		<input type="checkbox"/>	✓			
PADE D1332 SbfI		<input type="checkbox"/>	✓			
PADE D1333 PstI		<input type="checkbox"/>	✓			
PADE D1334 EcoRI		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

#### Chip Lot #

RM24BK50

#### Reagent Kit Lot #

1349

#### Chip Comments :

Chip #1 of 3 for Pinsky lab, summer flounder digests. Reagents provided by Pinsky lab

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

Created: 12/15/2014 2:07:02 PM  
Modified: 3/2/2015 1:40:56 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

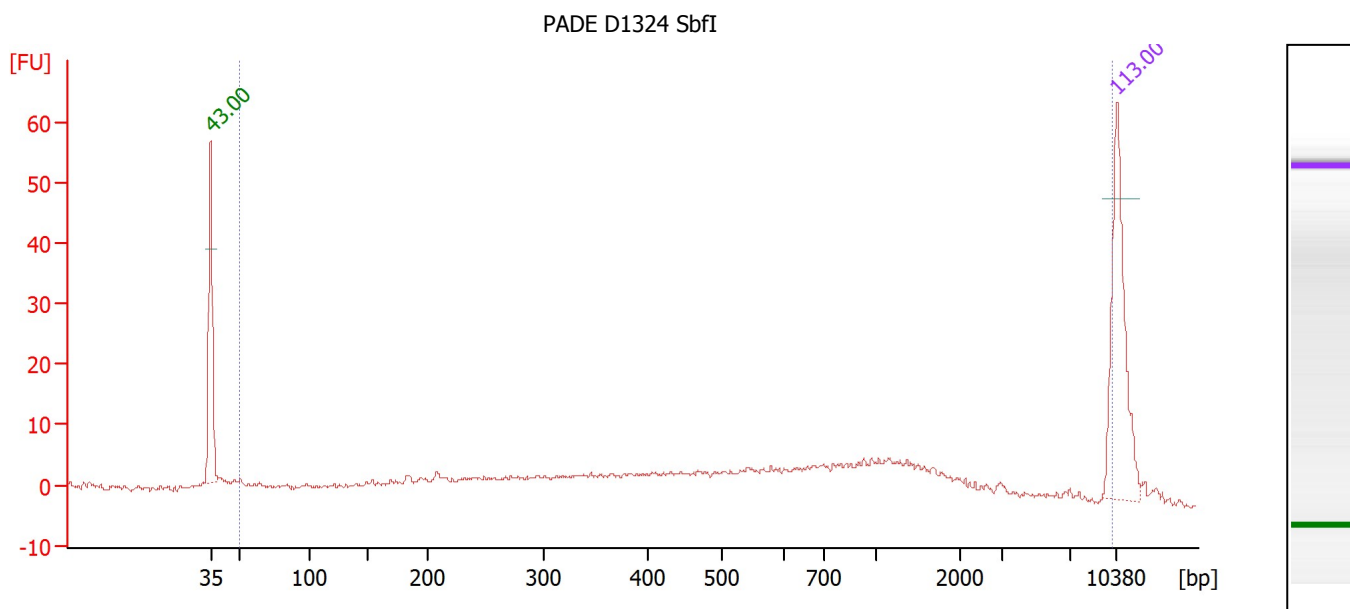
### Ladder

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\_14-07-02.xad

Created: 12/15/2014 2:07:02 PM  
 Modified: 3/2/2015 1:40:56 PM

### Electropherogram Summary



### Overall Results for sample 1 : PADE D1324 SbfI

Number of peaks found: 0      Corr. Area 1: 285.7  
 Noise: 0.3

### Peak table for sample 1 : PADE D1324 SbfI

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

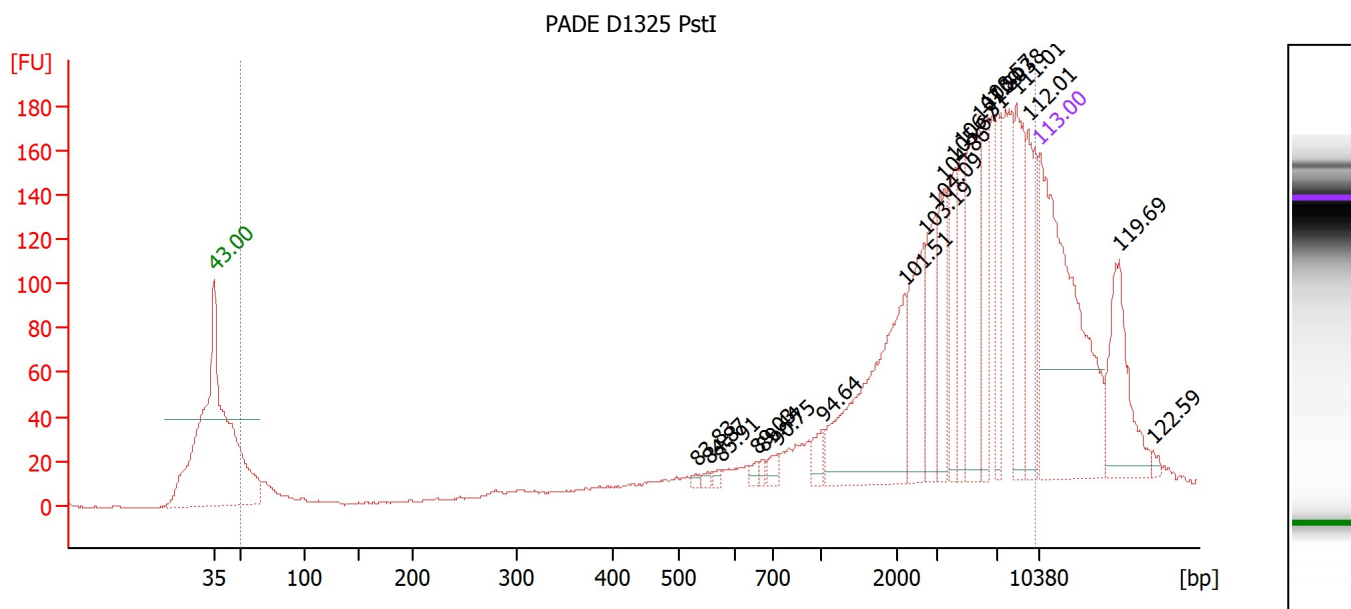
### Region table for sample 1 : PADE D1324 SbfI

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	285.7	94	1,370	100.0	435.41	2,127.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

Created: 12/15/2014 2:07:02 PM  
 Modified: 3/2/2015 1:40:56 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 2 : PADE D1325 PstI

Number of peaks found: 20      Corr. Area 1: 2,149.5  
 Noise: 0.4

### Peak table for sample 2 : PADE D1325 PstI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	529	1.32	3.8	
3	551	1.50	4.1	
4	573	1.51	4.0	
5	657	2.06	4.7	
6	669	1.65	3.7	
7	724	3.33	7.0	
8	1,029	5.21	7.7	
9	2,185	57.17	39.6	
10	2,691	24.83	14.0	
11	2,965	18.89	9.7	
12	3,503	18.10	7.8	
13	4,130	16.35	6.0	
14	4,618	13.97	4.6	
15	5,767	36.08	9.5	
16	6,360	18.98	4.5	
17	6,987	16.89	3.7	
18	8,512	26.04	4.6	
19	9,446	22.53	3.6	
20	10,380	75.00	10.9	Upper Marker
21	16,663	0.00	0.0	
22	19,380	0.00	0.0	

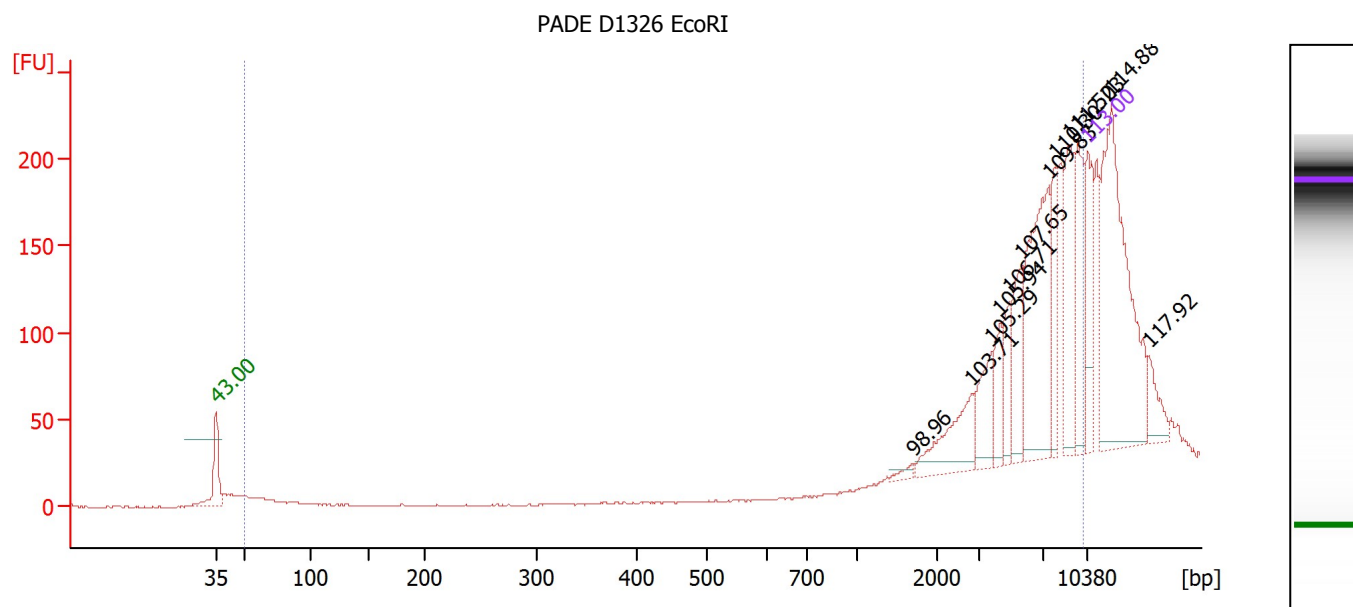
### Region table for sample 2 : PADE D1325 PstI

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	2,149.5	91	4,472	63.7	387.64	559.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

Created: 12/15/2014 2:07:02 PM  
 Modified: 3/2/2015 1:40:56 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 3 : PADE D1326 EcoRI

Number of peaks found: 12      Corr. Area 1: 1,058.2  
 Noise: 0.4

### Peak table for sample 3 : PADE D1326 EcoRI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,699	8.16	7.3	
3	2,849	83.36	44.3	
4	3,836	53.06	21.0	
5	4,331	42.32	14.8	
6	4,925	41.83	12.9	
7	5,651	68.38	18.3	
8	7,406	207.18	42.4	
9	7,848	60.49	11.7	
10	8,973	96.15	16.2	
11	9,657	89.16	14.0	
12	10,380	75.00	10.9	Upper Marker
13	12,148	0.00	0.0	
14	15,002	0.00	0.0	

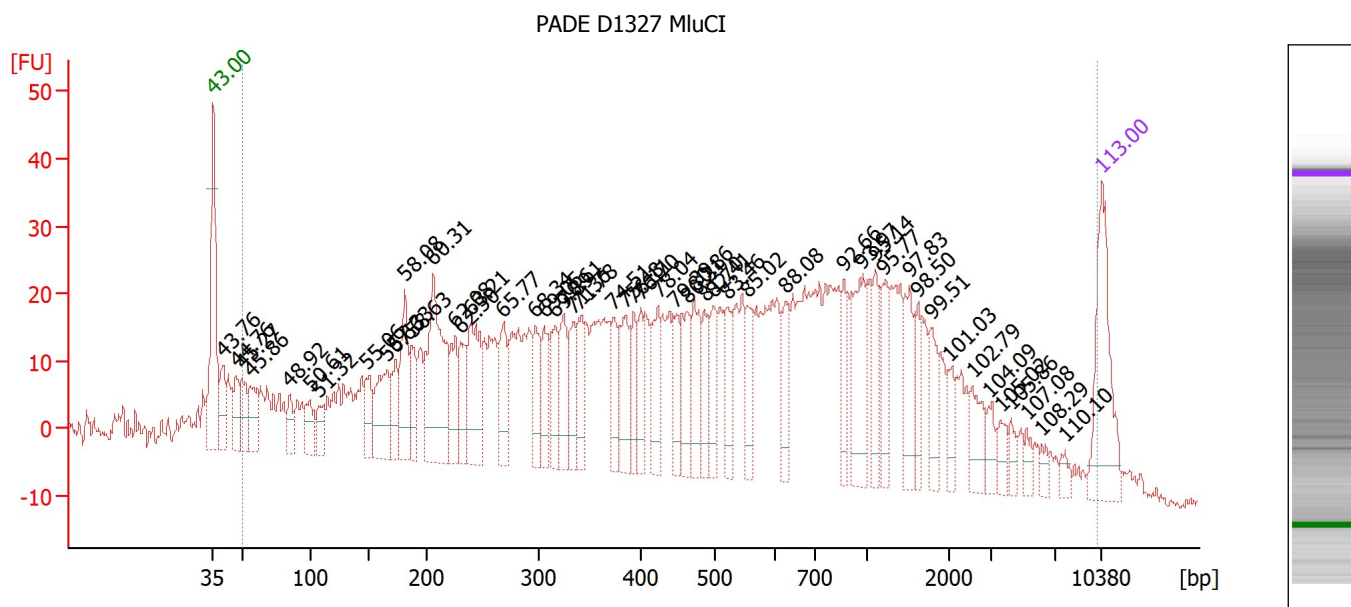
### Region table for sample 3 : PADE D1326 EcoRI

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	1,058.2	64	6,646	33.0	747.35	253.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

Created: 12/15/2014 2:07:02 PM  
 Modified: 3/2/2015 1:40:56 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 4 : PADE D1327 MluCI

Number of peaks found: 51      Corr. Area 1: 1,537.2  
 Noise: 1.2

### Peak table for sample 4 : PADE D1327 MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	49.53	1,871.0	
3	47	41.81	1,349.8	
4	50	39.57	1,187.9	
5	56	44.52	1,205.6	
6	85	27.46	491.9	
7	100	35.64	538.4	
8	108	24.28	340.5	
9	149	39.37	401.3	
10	166	75.49	688.5	
11	173	40.44	353.1	
12	182	76.39	636.7	
13	188	40.23	324.6	
14	206	166.02	1,219.3	
15	226	50.12	336.0	
16	231	44.16	290.1	
17	239	94.98	603.0	
18	267	56.46	320.1	
19	296	45.40	232.5	
20	304	38.94	193.9	
21	315	41.57	200.1	
22	324	50.38	235.9	
23	333	40.79	185.6	
24	338	42.51	190.4	
25	372	39.06	159.0	
26	384	51.18	201.8	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

Created: 12/15/2014 2:07:02 PM  
 Modified: 3/2/2015 1:40:56 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : PADE D1327 MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	392	32.99	127.5	
28	399	33.77	128.1	
29	423	45.42	162.8	
30	446	32.63	110.7	
31	463	50.05	163.9	
32	472	50.91	163.4	
33	487	32.24	100.3	
34	500	40.28	122.2	
35	521	36.83	107.0	
36	554	35.90	98.2	
37	627	36.65	88.6	
38	866	30.49	53.3	
39	964	67.11	105.5	
40	1,107	33.51	45.9	
41	1,205	34.23	43.1	
42	1,524	37.43	37.2	
43	1,628	24.08	22.4	
44	1,785	26.00	22.1	
45	2,038	17.41	12.9	
46	2,571	25.27	14.9	
47	2,965	13.48	6.9	
48	3,623	12.81	5.4	
49	4,271	9.63	3.4	
50	5,209	8.79	2.6	
51	6,148	6.54	1.6	
52	7,658	7.82	1.5	
53	10,380	75.00	10.9	Upper Marker

#### Region table for sample 4 : PADE D1327 MluCI

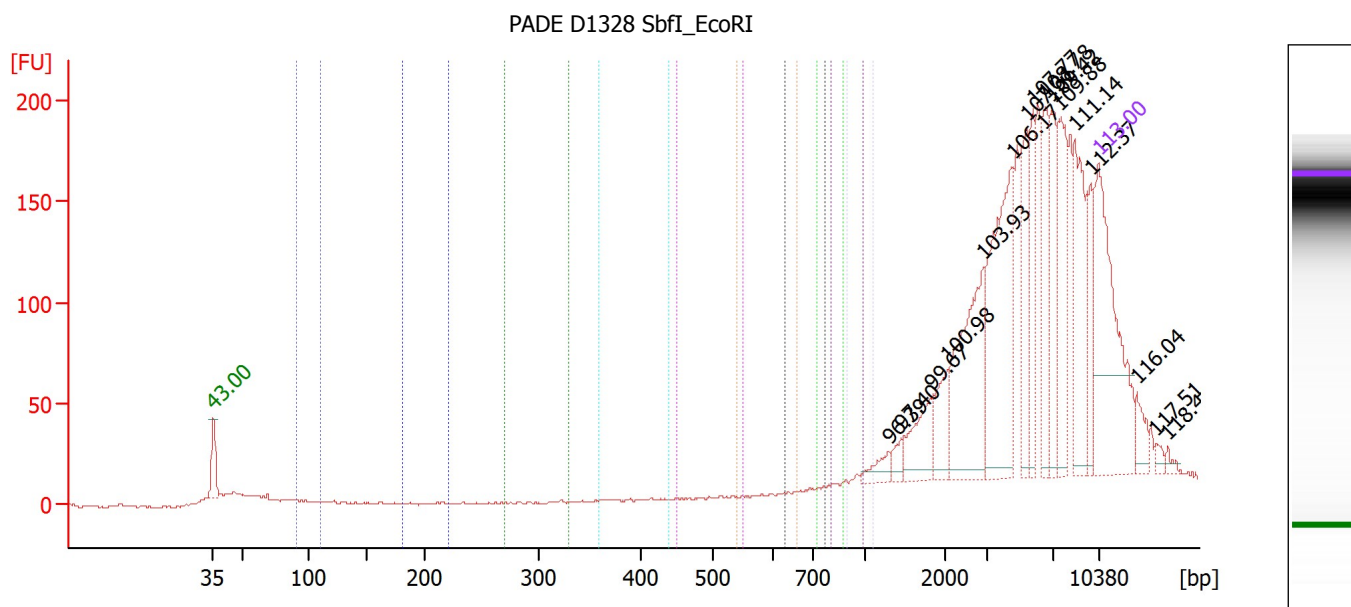
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
50	10,000	1,537.2	96	945	100.0	3,031.21	16,713.8	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

Created: 12/15/2014 2:07:02 PM  
 Modified: 3/2/2015 1:40:56 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 5 : PADE D1328 SbfI EcoRI

Number of peaks found:	16	Corr. Area 5:	0.0
Noise:	0.6	Corr. Area 6:	0.0
Corr. Area 1:	0.0	Corr. Area 7:	0.0
Corr. Area 2:	0.0	Corr. Area 8:	0.1
Corr. Area 3:	0.0	Corr. Area 9:	3.6
Corr. Area 4:	0.0	Corr. Area 10:	8.2

### Peak table for sample 5 : PADE D1328 SbfI EcoRI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,300	7.12	8.3	
3	1,457	6.01	6.3	
4	1,810	21.00	17.6	
5	2,025	17.62	13.2	
6	2,917	63.93	33.2	
7	4,511	82.35	27.7	
8	5,388	29.29	8.2	
9	5,745	26.66	7.0	
10	6,525	33.47	7.8	
11	7,015	28.89	6.2	
12	7,451	37.59	7.6	
13	8,638	43.81	7.7	
14	9,786	19.57	3.0	
15	10,380	75.00	10.9	Upper Marker
16	13,230	0.00	0.0	
17	14,616	0.00	0.0	
18	15,487	0.00	0.0	











Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

Created: 12/15/2014 2:07:02 PM  
 Modified: 3/2/2015 1:40:56 PM

### Electropherogram Summary Continued ...

... Region table for sample 5 :

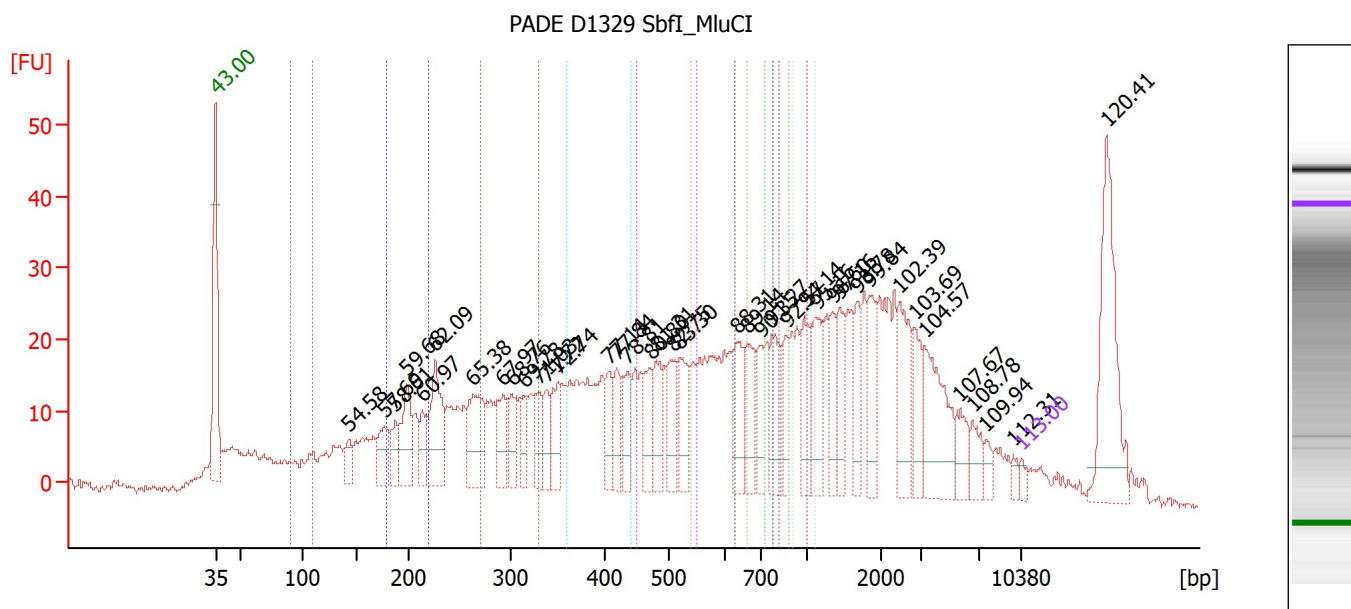
PADE D1328 SbfI EcoRI

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
90	110	0.0	0	0	0.0	0.00	0.0	
180	220	0.0	0	0	0.0	0.00	0.0	
270	330	0.0	0	0	0.0	0.00	0.0	
360	440	0.0	0	0	0.0	0.00	0.0	
450	550	0.0	0	0	0.0	0.00	0.0	
540	660	0.0	0	0	0.0	0.00	0.0	
630	770	0.0	0	0	0.0	0.00	0.0	
720	880	0.1	0	874	0.3	0.03	0.0	
810	990	3.6	0	951	3.1	1.16	1.9	
900	1,100	8.2	0	1,005	5.0	2.60	3.9	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

Created: 12/15/2014 2:07:02 PM  
 Modified: 3/2/2015 1:40:56 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 6 : PADE D1329 SbfI MluCI

Number of peaks found:	39	Corr. Area 5:	116.5
Noise:	0.7	Corr. Area 6:	109.5
Corr. Area 1:	15.1	Corr. Area 7:	76.0
Corr. Area 2:	63.0	Corr. Area 8:	51.1
Corr. Area 3:	98.3	Corr. Area 9:	59.5
Corr. Area 4:	116.7	Corr. Area 10:	50.9

### Peak table for sample 6 : PADE D1329 SbfI MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	143	400.89	4,233.7	
3	177	620.78	5,301.4	
4	188	394.11	3,183.5	
5	199	953.25	7,248.9	
6	214	466.67	3,308.6	
7	226	1,399.38	9,376.7	
8	263	1,238.09	7,137.2	
9	292	684.67	3,555.2	
10	301	586.90	2,957.8	
11	313	437.34	2,114.8	
12	329	433.33	1,996.3	
13	338	466.93	2,096.0	
14	350	679.37	2,939.2	
15	407	518.49	1,930.2	
16	419	486.68	1,759.0	
17	436	506.92	1,760.4	
18	471	550.28	1,769.1	
19	480	681.99	2,151.7	
20	507	681.11	2,037.4	
21	518	674.25	1,971.6	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad











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 Modified: 3/2/2015 1:40:56 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 6 : PADE D1329 SbfI MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
22	634	783.59	1,872.5	
23	660	675.05	1,549.9	
24	697	533.73	1,159.8	
25	763	855.99	1,700.7	
26	859	447.67	789.2	
27	977	665.61	1,032.3	
28	1,110	729.64	995.7	
29	1,333	449.71	511.2	
30	1,419	585.00	624.5	
31	1,671	443.94	402.6	
32	1,836	585.89	483.5	
33	2,451	818.09	505.8	
34	2,843	529.17	282.0	
35	3,278	1,153.93	533.4	
36	5,669	341.95	91.4	
37	6,526	284.95	66.2	
38	7,510	147.29	29.7	
39	9,728	84.69	13.2	
40	10,380	75.00	10.9	Upper Marker
41	17,338	0.00	0.0	

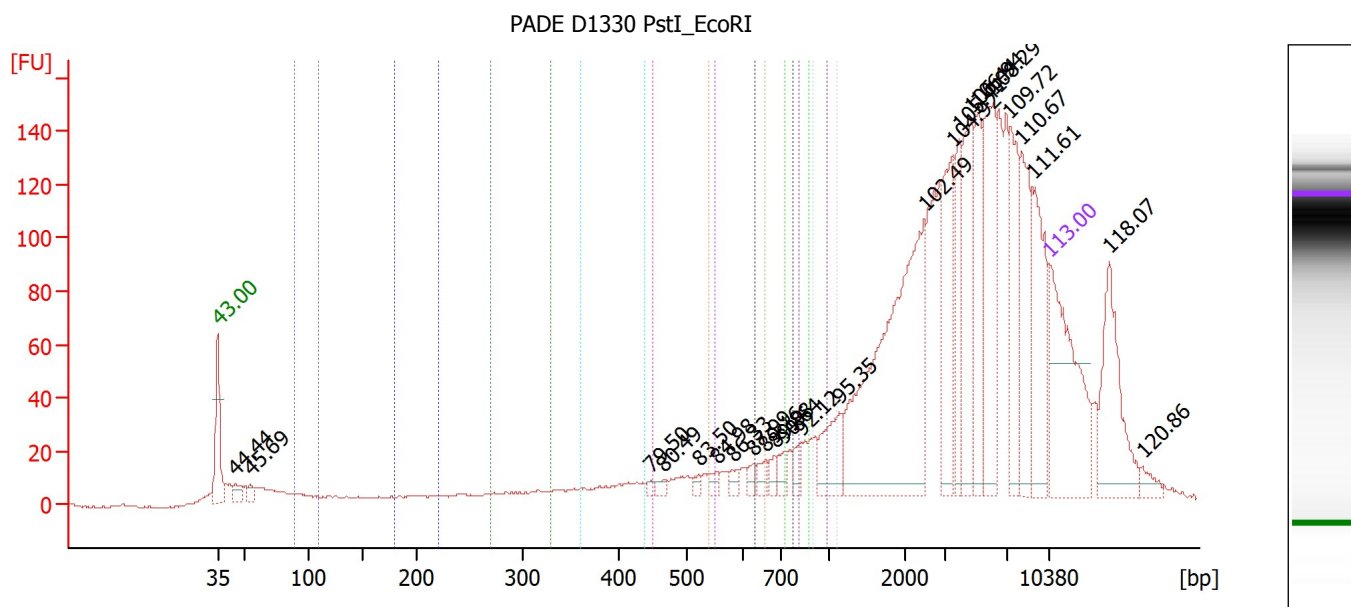
#### Region table for sample 6 : PADE D1329 SbfI MluCI

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
90	110	15.1	1	100	6.1	779.65	11,906.4	
180	220	63.0	5	200	5.6	2,811.18	21,358.4	
270	330	98.3	7	299	5.8	3,918.43	19,926.2	
360	440	116.7	9	397	5.8	4,179.35	16,016.7	
450	550	116.5	9	498	5.8	4,055.93	12,393.2	
540	660	109.5	8	595	5.8	3,583.25	9,164.7	
630	770	76.0	6	684	5.5	2,507.92	5,577.6	
720	880	51.1	4	798	5.9	1,641.65	3,131.3	
810	990	59.5	4	900	5.9	1,828.97	3,093.7	
900	1,100	50.9	4	981	5.7	1,517.79	2,352.3	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

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### Electropherogram Summary Continued ...



### Overall Results for sample 7 : PADE D1330 PstI EcoRI

Number of peaks found:	24	Corr. Area 5:	56.0
Noise:	0.4	Corr. Area 6:	66.5
Corr. Area 1:	13.2	Corr. Area 7:	57.0
Corr. Area 2:	15.5	Corr. Area 8:	47.4
Corr. Area 3:	27.0	Corr. Area 9:	60.9
Corr. Area 4:	42.3	Corr. Area 10:	55.4

### Peak table for sample 7 : PADE D1330 PstI EcoRI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	9.02	305.7	
3	54	6.01	167.4	
4	448	2.42	8.2	
5	466	4.15	13.5	
6	522	3.41	9.9	
7	553	4.70	12.9	
8	582	4.61	12.0	
9	624	4.71	11.4	
10	660	6.49	14.9	
11	683	5.11	11.3	
12	715	7.36	15.6	
13	826	7.61	14.0	
14	1,140	26.74	35.5	
15	2,482	175.09	106.9	
16	3,547	49.45	21.1	
17	3,927	29.78	11.5	
18	4,723	47.66	15.3	
19	5,104	39.26	11.7	
20	6,142	67.16	16.6	
21	7,303	43.01	8.9	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad











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### Electropherogram Summary Continued ...

#### ... Peak table for sample 7 : PADE D1330 PstI EcoRI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
22	8,188	47.04	8.7	
23	9,073	50.31	8.4	
24	10,380	75.00	10.9	Upper Marker
25	15,143	0.00	0.0	
26	17,756	0.00	0.0	

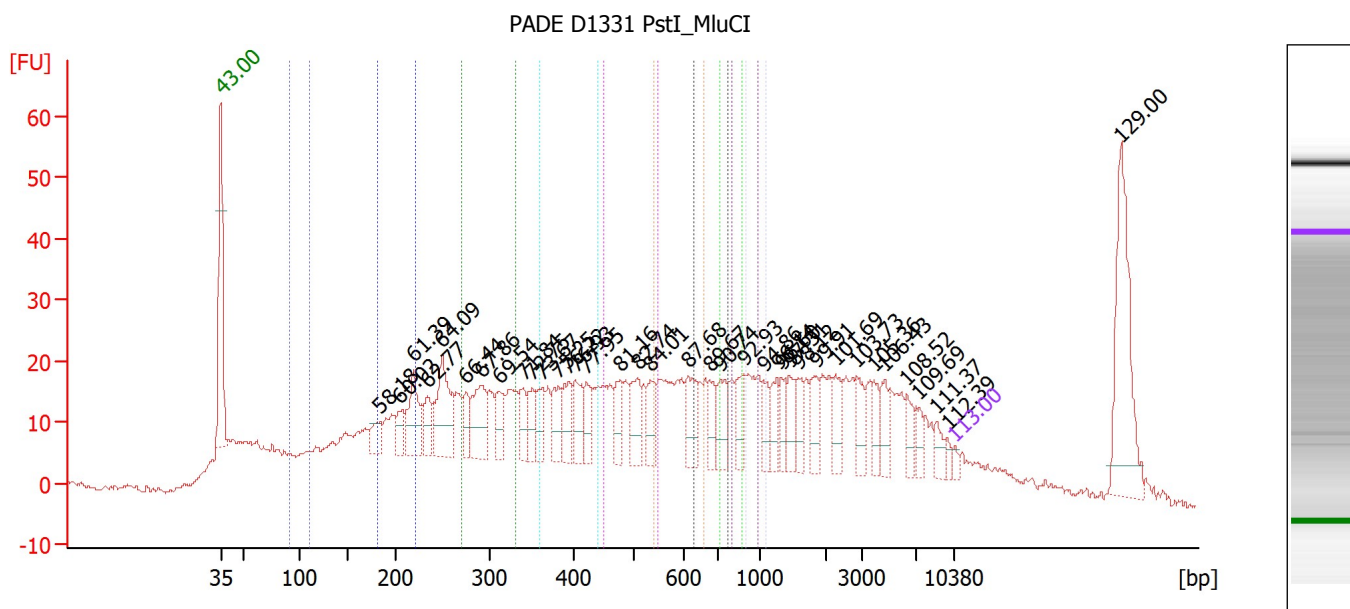
#### Region table for sample 7 : PADE D1330 PstI EcoRI

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
90	110	13.2	1	98	5.8	10.39	160.4	
180	220	15.5	1	200	5.9	10.59	80.6	
270	330	27.0	1	300	5.8	16.48	83.6	
360	440	42.3	2	399	5.7	23.19	88.5	
450	550	56.0	2	500	5.7	29.83	90.8	
540	660	66.5	3	597	5.8	33.35	85.0	
630	770	57.0	2	687	5.5	28.82	63.7	
720	880	47.4	2	799	5.9	23.31	44.4	
810	990	60.9	3	900	5.9	28.63	48.4	
900	1,100	55.4	2	983	5.6	25.27	39.1	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

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### Electropherogram Summary Continued ...



### Overall Results for sample 8 : PADE D1331 PstI MluCI

Number of peaks found:	37	Corr. Area 5:	110.1
Noise:	0.5	Corr. Area 6:	98.1
Corr. Area 1:	20.5	Corr. Area 7:	62.5
Corr. Area 2:	72.3	Corr. Area 8:	42.3
Corr. Area 3:	113.8	Corr. Area 9:	48.0
Corr. Area 4:	119.0	Corr. Area 10:	39.3

### Peak table for sample 8 : PADE D1331 PstI MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	183	456.93	3,786.1	
3	203	405.31	3,025.0	
4	218	1,082.32	7,509.9	
5	234	521.00	3,377.6	
6	249	1,633.06	9,957.1	
7	275	429.30	2,368.2	
8	291	1,110.60	5,790.9	
9	310	518.01	2,528.4	
10	339	446.29	1,995.1	
11	350	438.12	1,894.8	
12	362	469.59	1,966.8	
13	381	543.23	2,158.1	
14	393	596.60	2,297.5	
15	403	627.79	2,358.7	
16	421	396.25	1,425.5	
17	478	431.80	1,370.0	
18	506	645.95	1,933.1	
19	533	531.22	1,510.2	
20	615	675.30	1,664.9	
21	676	390.00	873.9	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad











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### Electropherogram Summary Continued ...

#### ... Peak table for sample 8 : PADE D1331 PstI MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
22	723	584.94	1,226.6	
23	886	459.22	785.2	
24	1,064	330.68	471.1	
25	1,261	369.37	443.8	
26	1,332	308.15	350.5	
27	1,443	397.72	417.6	
28	1,569	319.83	308.8	
29	1,846	419.57	344.4	
30	2,239	390.86	264.5	
31	2,855	351.07	186.3	
32	3,886	303.36	118.3	
33	4,710	341.00	109.7	
34	6,320	267.79	64.2	
35	7,271	187.71	39.1	
36	8,850	206.78	35.4	
37	9,806	95.15	14.7	
38	10,380	75.00	10.9	Upper Marker
39	25,398	0.00	0.0	

#### Region table for sample 8 : PADE D1331 PstI MluCI

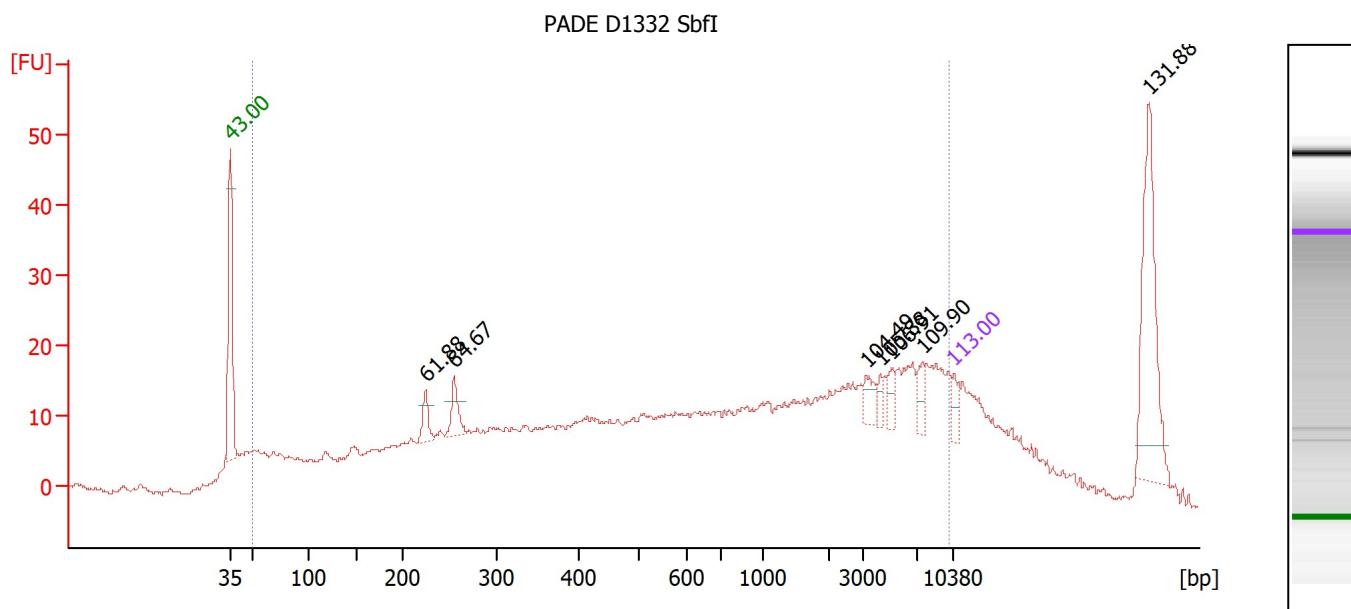
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
90	110	20.5	1	99	6.0	1,158.45	17,703.5	
180	220	72.3	5	201	5.9	3,527.60	26,705.5	
270	330	113.8	8	299	5.8	4,970.59	25,301.2	
360	440	119.0	9	396	5.8	4,667.58	17,923.6	
450	550	110.1	8	497	5.8	4,198.70	12,850.9	
540	660	98.1	7	593	5.8	3,519.13	9,021.4	
630	770	62.5	4	683	5.4	2,258.84	5,024.7	
720	880	42.3	3	795	6.0	1,487.79	2,846.6	
810	990	48.0	3	896	5.8	1,615.90	2,743.5	
900	1,100	39.3	3	979	5.7	1,282.58	1,992.6	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

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### Electropherogram Summary Continued ...



### Overall Results for sample 9 : PADE D1332 SbfI

Number of peaks found: 7      Corr. Area 1: 839.1  
 Noise: 0.4

### Peak table for sample 9 : PADE D1332 SbfI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	224	167.09	1,131.2	
3	255	222.65	1,323.4	
4	3,216	118.29	55.7	
5	4,289	64.98	23.0	Upper Marker
6	5,084	77.54	23.1	
7	7,474	103.27	20.9	
8	10,380	75.00	10.9	
9	28,104	0.00	0.0	

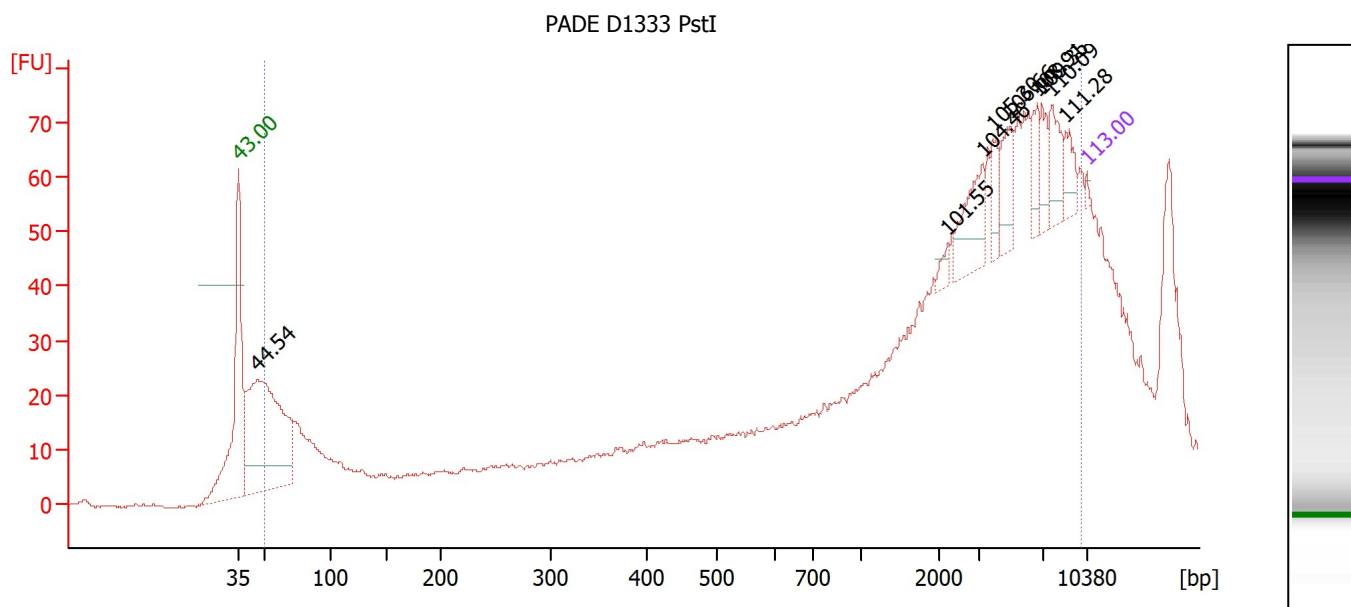
### Region table for sample 9 : PADE D1332 SbfI

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	839.1	82	1,956	100.0	17,531.91	94,439.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

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### Electropherogram Summary Continued ...



### Overall Results for sample 10 : PADE D1333 PstI

Number of peaks found: 9      Corr. Area 1: 1,167.1  
 Noise: 0.2

### Peak table for sample 10 : PADE D1333 PstI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	14,048.39	468,671.1	
3	2,197	290.69	200.4	
4	3,193	1,582.08	750.6	
5	3,838	695.42	274.5	
6	4,889	1,086.48	336.7	
7	6,619	699.19	160.0	
8	6,959	685.19	149.2	
9	7,652	987.85	195.6	
10	8,768	633.13	109.4	
11	10,380	75.00	10.9	Upper Marker

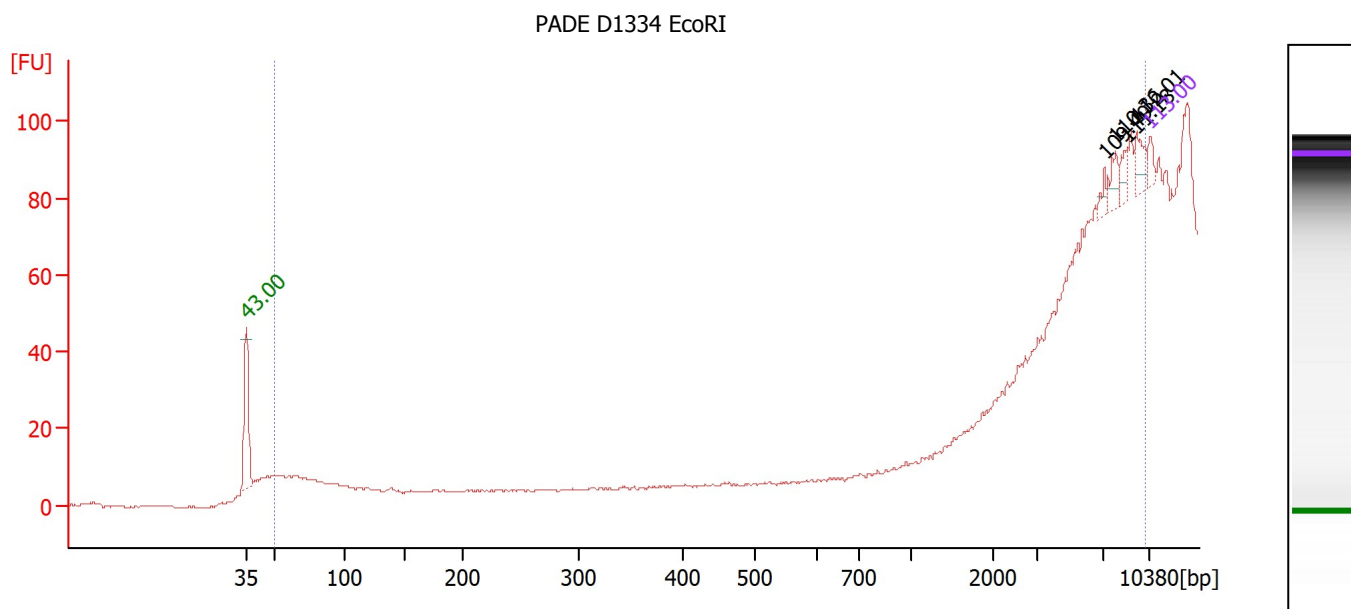
### Region table for sample 10 : PADE D1333 PstI

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	1,167.1	81	3,607	81.6	65,424.98	385,005.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

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### Electropherogram Summary Continued ...



### Overall Results for sample 11 : PADE D1334 EcoRI

Number of peaks found: 4                      Corr. Area 1: 27.2  
 Noise: 0.2

### Peak table for sample 11 : PADE D1334 EcoRI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	7,083	91.82	19.6	
3	7,897	132.63	25.4	
4	8,673	116.52	20.4	
5	9,449	162.69	26.1	
6	10,380	75.00	10.9	Upper Marker

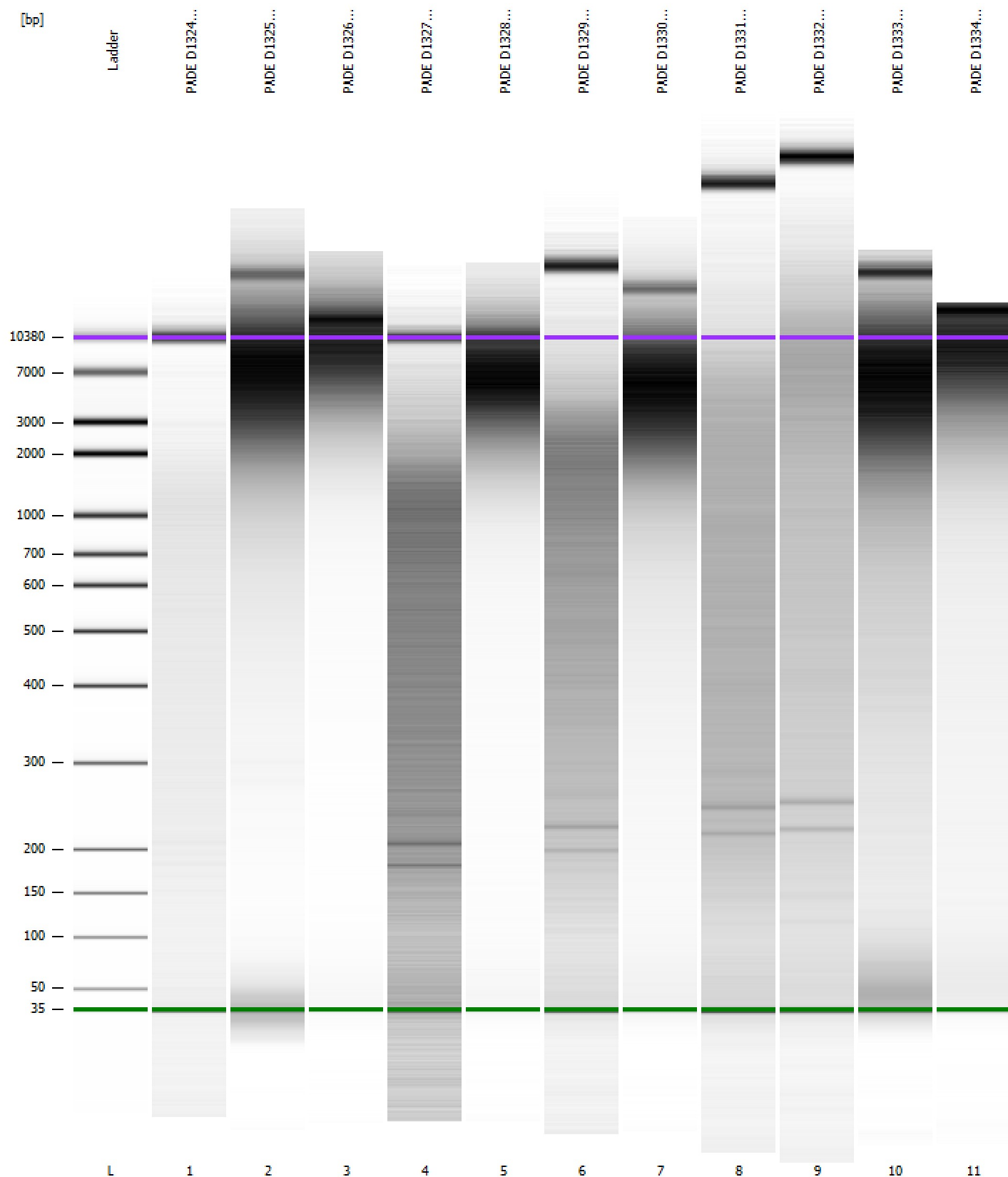
### Region table for sample 11 : PADE D1334 EcoRI

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	27.2	68	8,668	9.4	388.66	68.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

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**Gel Image**

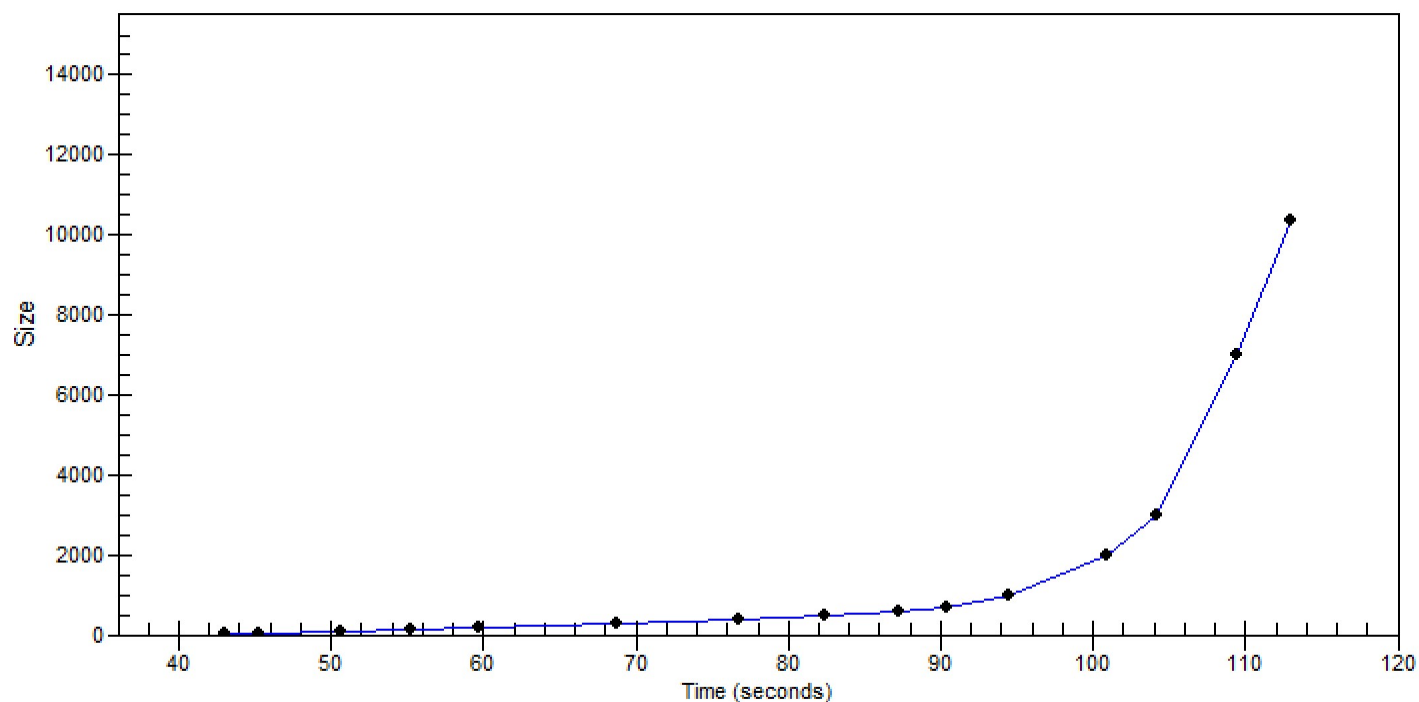


Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

Created: 12/15/2014 2:07:02 PM  
 Modified: 3/2/2015 1:40:56 PM

## Curves

### Standard Curve



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE04103186\_2014-12-15\_14-07-02.xad

Created: 12/15/2014 2:07:02 PM  
 Modified: 3/2/2015 1:40:56 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 2:48:21 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_14-07-02.xad)		Instrument	Run		12/15/2014 2:07:07 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Product Number : G2939A		Instrument	Run		12/15/2014 2:07:07 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Name :		Instrument	Run		12/15/2014 2:07:07 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Vendor : Agilent Technologies		Instrument	Run		12/15/2014 2:07:07 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Serial# : DE04103186		Instrument	Run		12/15/2014 2:07:07 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Firmware : C.01.069		Instrument	Run		12/15/2014 2:07:07 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP
Cartridge : Electrode		Instrument	Run		12/15/2014 2:07:07 PM	(GMT --05:00) Eastern Standard Time	Divino	Bioanalyzer-HP