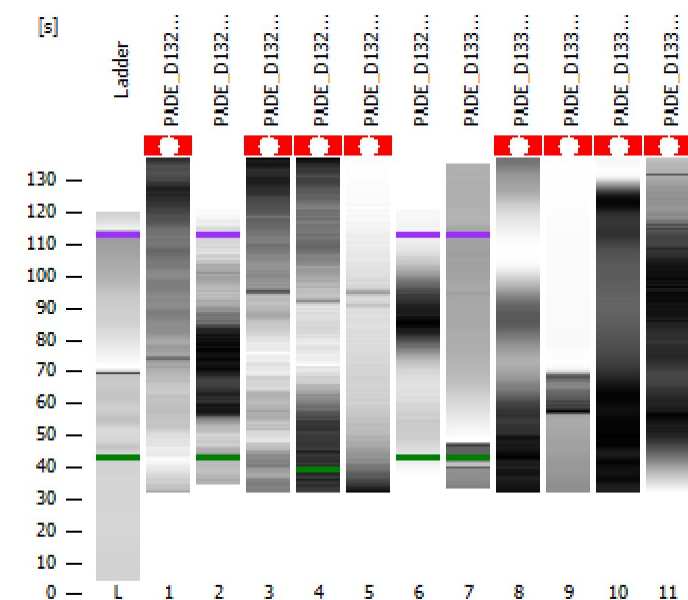


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE72901330
Serial#: DE72901330

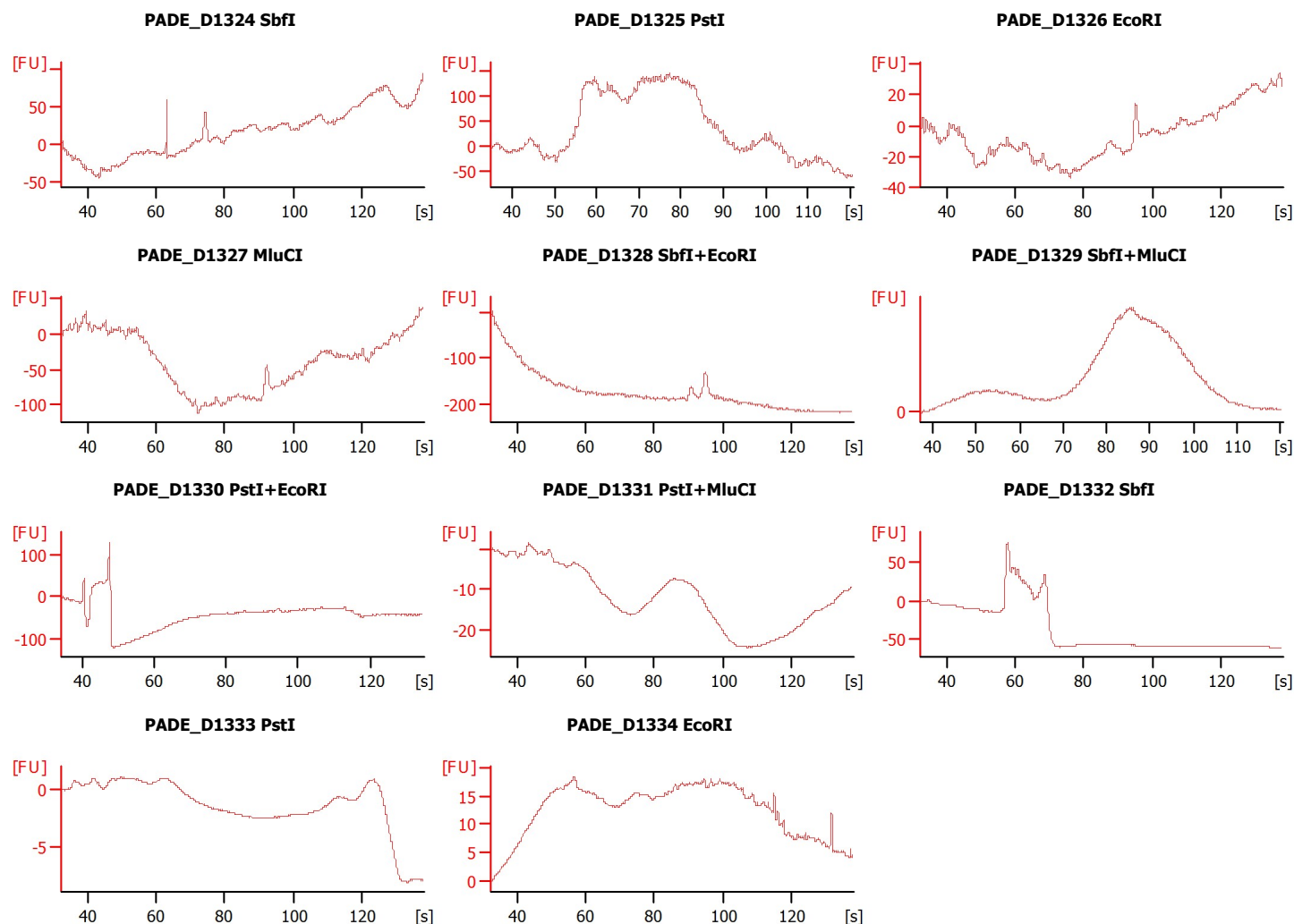
Firmware: C.01.069
Type: G2939A

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 #:
Reagent Kit Lot #:
Chip Comments:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

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 #**Reagent Kit Lot #****Chip Comments :**

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ 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

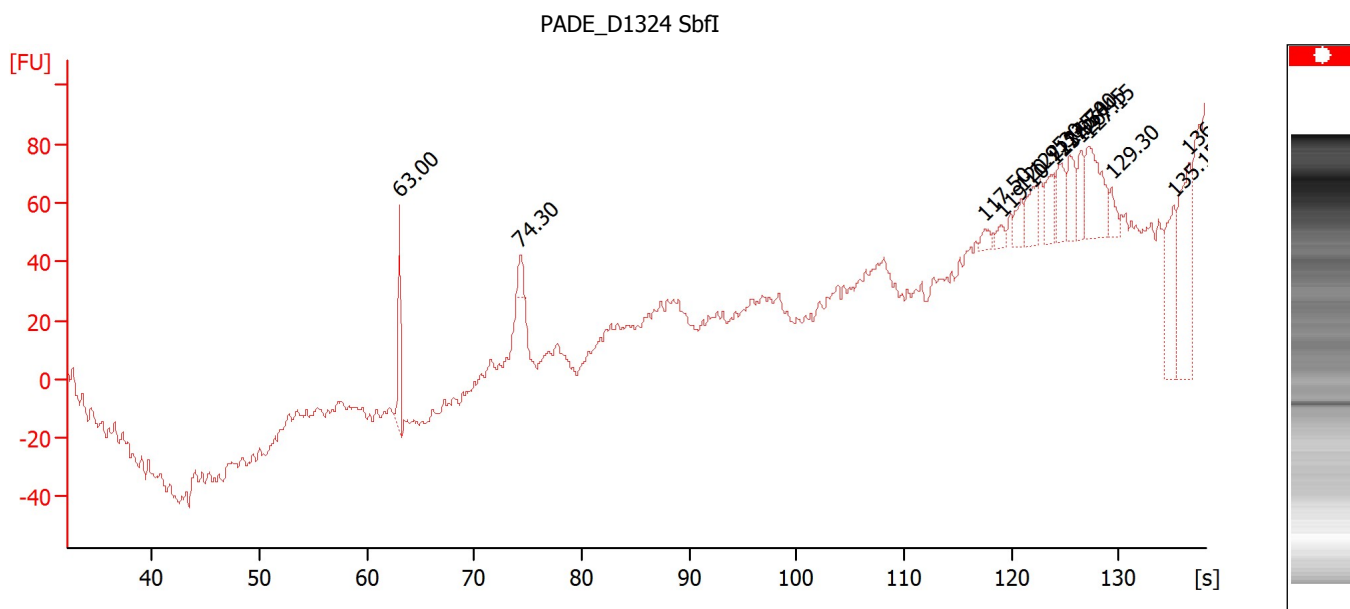
Ladder

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_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

Electropherogram Summary



Overall Results for sample 1 : PADE_D1324 SbfI

Number of peaks found: 0 Noise: 1.7

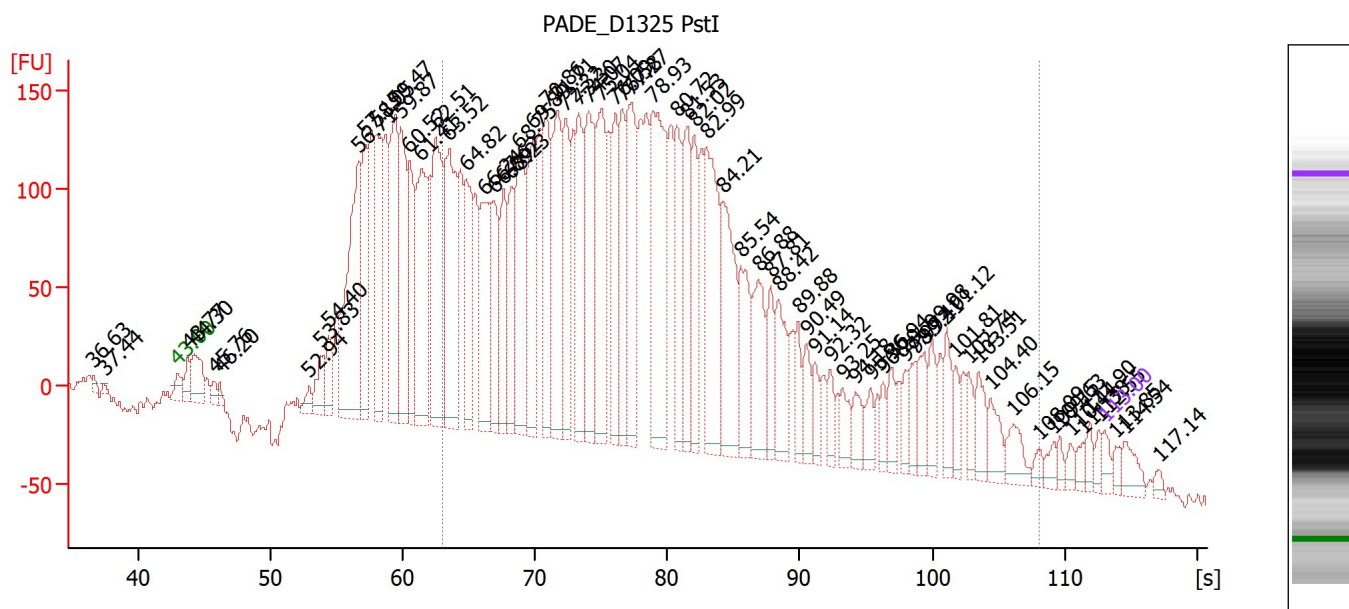
Peak table for sample 1 : PADE_D1324 SbfI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
 Modified: 11/24/2014 11:52:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : PADE_D1325 PstI

Number of peaks found: 73 Corr. Area 1: 6,154.9
 Noise: 5.0

Peak table for sample 2 : PADE_D1325 PstI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	13	0.00	0.0	
2	16	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	38	229.11	9,071.4	
5	41	490.68	18,356.0	
6	47	106.72	3,463.1	
7	49	71.23	2,221.6	
8	87	133.35	2,323.4	
9	92	331.36	5,450.2	
10	95	352.34	5,595.9	
11	111	2,176.73	29,813.3	
12	114	1,063.07	14,124.5	
13	120	1,262.43	15,938.5	
14	130	1,589.75	18,533.9	
15	133	1,253.05	14,295.8	
16	137	971.54	10,716.9	
17	144	1,540.37	16,251.4	
18	162	1,735.58	16,224.9	
19	207	1,606.83	11,783.0	
20	226	924.32	6,188.0	
21	248	1,017.52	6,219.7	
22	258	795.69	4,677.8	
23	269	660.92	3,725.3	
24	278	624.71	3,404.2	
25	286	1,144.21	6,060.6	
26	301	1,018.00	5,129.1	


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
 Modified: 11/24/2014 11:52:32 AM

Electropherogram Summary Continued ...**... Peak table for sample 2 : PADE_D1325 PstI**

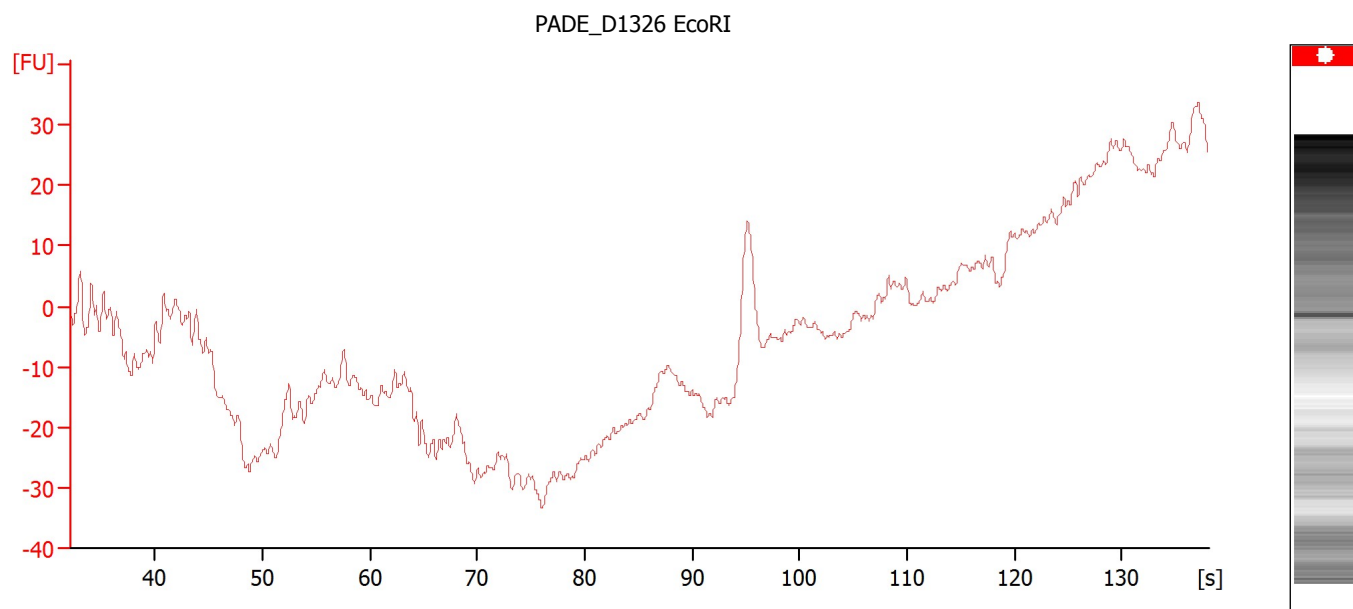
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	304	924.03	4,606.4	
28	307	1,200.56	5,930.1	
29	309	840.24	4,123.3	
30	312	894.07	4,342.2	
31	315	1,225.19	5,902.2	
32	318	1,104.22	5,265.6	
33	321	754.95	3,561.0	
34	323	710.01	3,332.3	
35	325	1,146.23	5,342.0	
36	331	1,713.79	7,854.4	
37	336	726.84	3,272.8	
38	339	810.28	3,619.6	
39	341	597.16	2,655.0	
40	344	1,300.12	5,726.4	
41	348	1,069.67	4,656.9	
42	352	610.47	2,624.4	
43	357	620.73	2,635.4	
44	360	345.62	1,454.9	
45	362	487.38	2,040.2	
46	367	226.59	936.0	
47	369	250.75	1,030.2	
48	371	181.14	739.9	
49	375	170.60	689.6	
50	378	192.75	772.8	
51	381	196.07	779.8	
52	385	171.07	673.4	
53	388	124.88	487.7	
54	390	198.64	771.5	
55	394	148.40	571.3	
56	396	200.76	768.1	
57	398	253.46	964.3	
58	403	238.28	895.4	
59	483	253.20	793.6	
60	516	149.19	438.3	
61	548	162.90	450.3	
62	575	215.05	566.9	
63	606	209.25	523.2	
64	669	210.32	476.5	
65	998	61.50	93.4	
66	1,549	70.15	68.6	
67	1,805	50.65	42.5	
68	2,424	55.95	35.0	
69	4,549	60.62	20.2	
70	6,971	73.31	15.9	
71	8,995	57.02	9.6	
72	10,380	75.00	10.9	Upper Marker
73	13,024	0.00	0.0	
74	15,165	0.00	0.0	
75	23,224	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
200	1,000	6,154.9	73	336	23.3	33,680.53	161,988.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

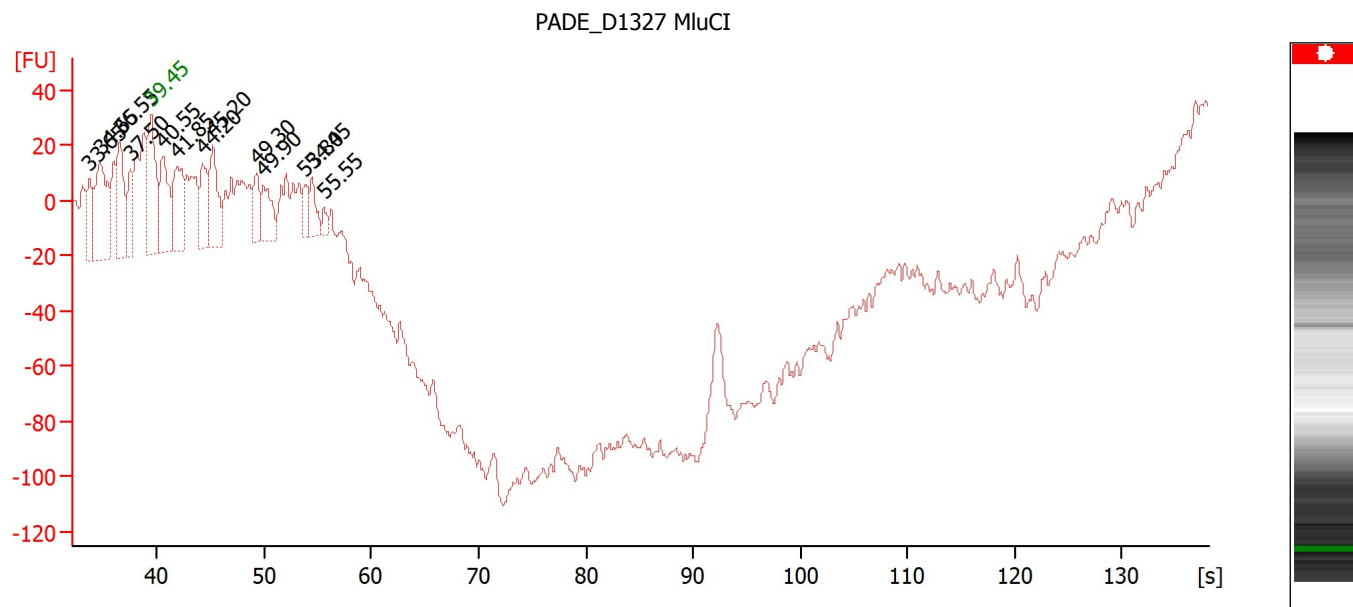
Electropherogram Summary Continued ...

Overall Results for sample 3 : PADE_D1326 EcoRI

Noise: 1.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

Electropherogram Summary Continued ...**Overall Results for sample 4 : PADE_D1327 MluCI**

Number of peaks found: 13 Noise: 2.8

Peak table for sample 4 : PADE_D1327 MluCI

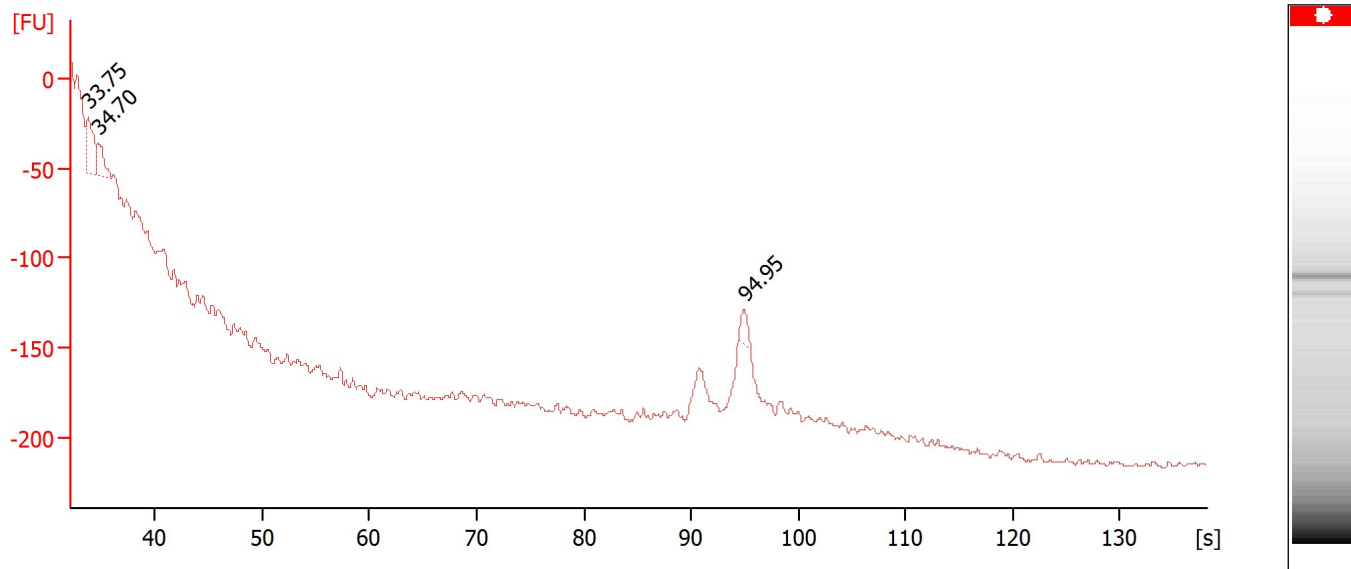
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	Lower Marker
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

Electropherogram Summary Continued ...

PADE_D1328 SbfI+EcoRI

**Overall Results for sample 5 : PADE_D1328 SbfI+EcoRI**

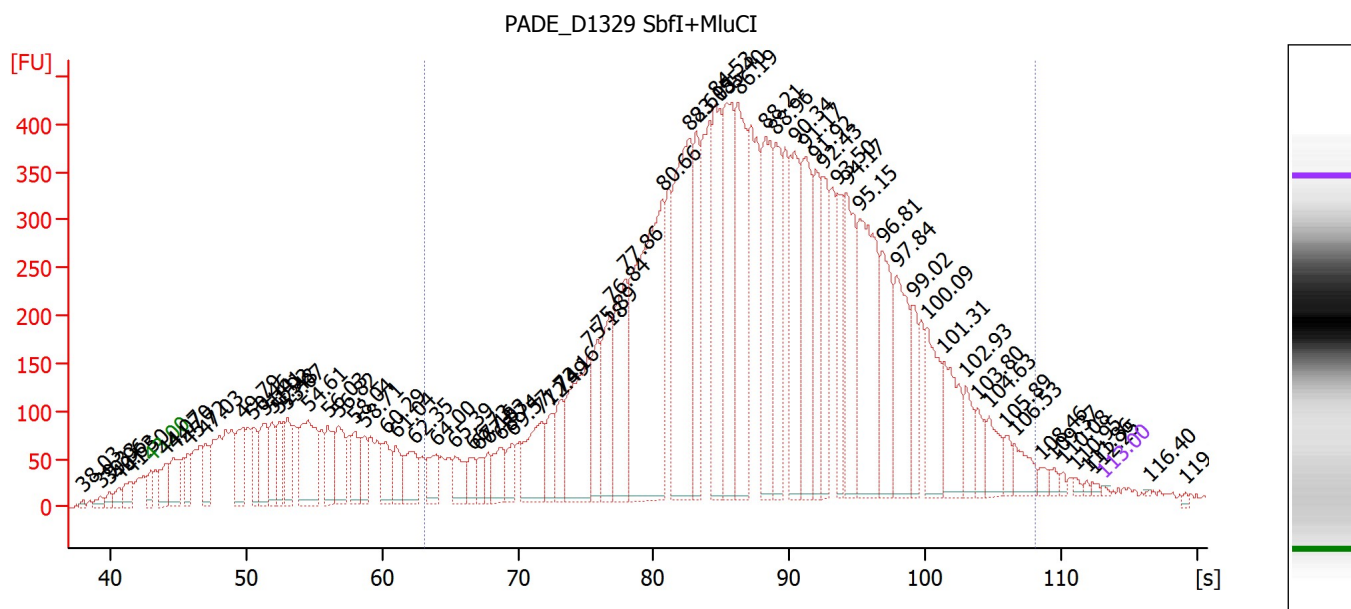
Number of peaks found: 0 Noise: 1.6

Peak table for sample 5 : PADE_D1328 SbfI+EcoRI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

Electropherogram Summary Continued ...**Overall Results for sample 6 : PADE_D1329 SbfI+MluCI**

Number of peaks found: 70 Corr. Area 1: 12,399.3
Noise: 4.6

Peak table for sample 6 : PADE_D1329 SbfI+MluCI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	18	0.00	0.0	
2	22	0.00	0.0	
3	24	0.00	0.0	
4	27	0.00	0.0	
5	30	0.00	0.0	
6	35	125.00	5,411.3	Lower Marker
7	40	2,952.49	113,196.8	
8	42	3,512.72	126,128.5	
9	47	2,247.08	73,141.0	
10	53	2,537.04	72,768.8	
11	69	4,089.24	90,067.0	
12	73	2,914.85	60,775.0	
13	78	4,298.22	83,340.4	
14	81	2,951.97	55,144.8	
15	84	2,955.68	53,122.6	
16	88	3,443.79	59,481.4	
17	97	8,242.37	129,255.6	
18	106	3,618.29	51,787.0	
19	111	4,039.28	54,939.0	
20	120	2,660.91	33,602.8	
21	125	2,349.15	28,546.1	
22	136	2,756.75	30,766.7	
23	141	2,101.52	22,579.1	
24	151	3,243.89	32,450.7	
25	214	2,159.02	15,290.1	
26	235	1,996.01	12,873.3	


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
 Modified: 11/24/2014 11:52:32 AM

Electropherogram Summary Continued ...**... Peak table for sample 6 : PADE_D1329 SbfI+MluCI**

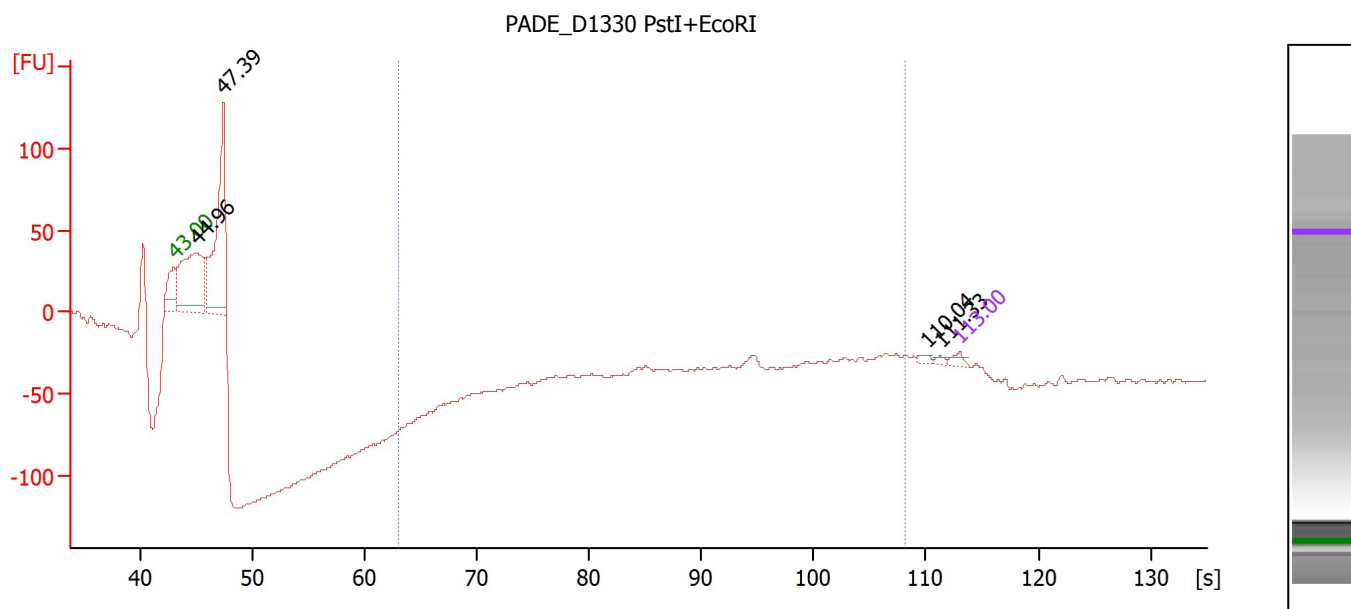
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	255	1,400.81	8,313.3	
28	262	1,037.07	5,999.7	
29	272	1,005.03	5,596.6	
30	286	2,090.85	11,081.5	
31	298	1,534.71	7,790.9	
32	307	4,405.67	21,754.8	
33	309	1,954.32	9,572.9	
34	312	2,482.59	12,074.0	
35	318	8,111.81	38,626.6	
36	321	3,908.09	18,473.1	
37	324	5,583.34	26,136.5	
38	327	7,193.19	33,323.3	
39	336	21,750.46	97,986.6	
40	343	16,094.47	71,153.8	
41	345	5,904.57	25,965.8	
42	349	8,831.84	38,330.7	
43	352	10,146.01	43,675.2	
44	355	10,569.59	45,163.8	
45	361	8,359.21	35,061.1	
46	364	6,666.55	27,771.0	
47	368	8,083.56	33,256.4	
48	371	7,147.97	29,190.1	
49	374	5,209.54	21,133.0	
50	375	5,046.55	20,379.3	
51	379	4,159.99	16,642.9	
52	381	6,449.52	25,652.4	
53	384	10,907.36	43,014.8	
54	390	5,436.41	21,137.8	
55	393	6,061.78	23,366.0	
56	397	2,678.93	10,224.5	
57	411	4,229.75	15,599.0	
58	497	4,087.28	12,452.4	
59	555	1,764.10	4,817.8	
60	585	1,212.66	3,141.3	
61	614	1,687.35	4,162.6	
62	660	760.03	1,745.6	
63	682	1,490.18	3,308.5	
64	1,188	362.66	462.4	
65	1,665	269.14	244.9	
66	2,070	173.66	127.1	
67	2,910	152.35	79.3	
68	6,741	105.95	23.8	
69	8,051	132.52	24.9	
70	10,380	75.00	10.9	Upper Marker
71	20,922	0.00	0.0	
72	29,257	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
200	1,000	12,399.3	77	370	19.4	246,771.61	1,051,117.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
 Modified: 11/24/2014 11:52:32 AM

Electropherogram Summary Continued ...**Overall Results for sample 7 : PADE_D1330 PstI+EcoRI**

Number of peaks found: 4 Corr. Area 1: 12.7
 Noise: 0.8

Peak table for sample 7 : PADE_D1330 PstI+EcoRI

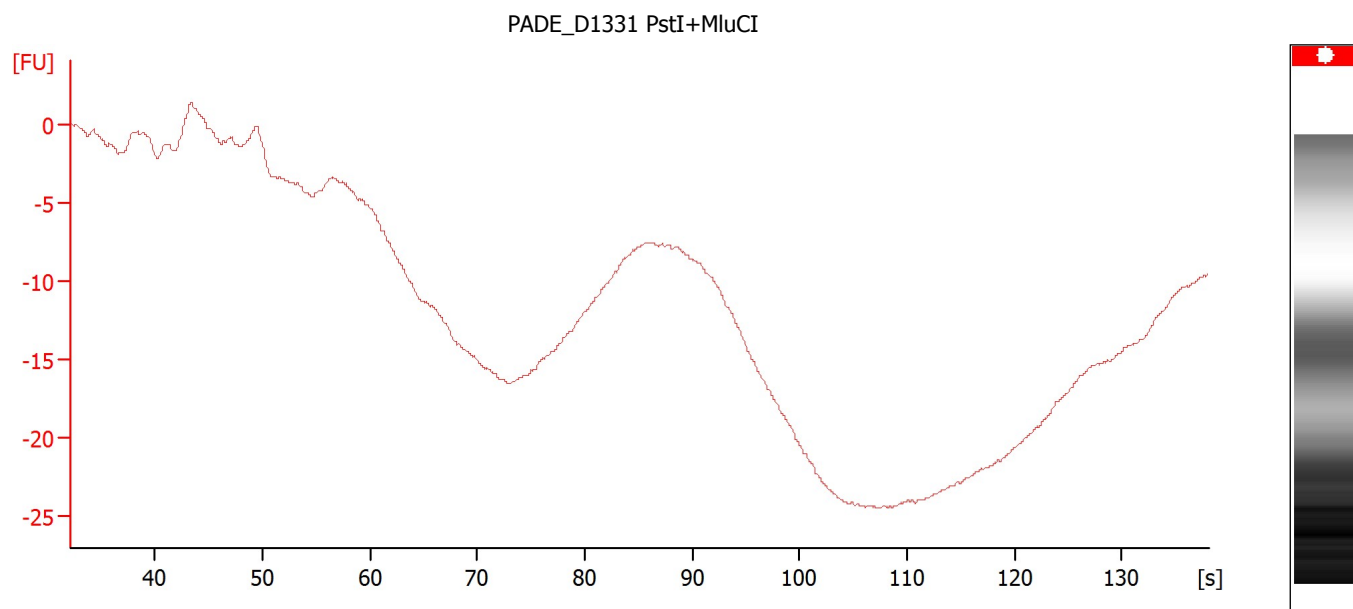
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	3,608.04	126,252.7	
3	55	4,276.69	117,947.2	
4	2,032	52.46	39.1	Upper Marker
5	4,324	40.18	14.1	
6	10,380	75.00	10.9	

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
200	1,000	12.7	2	719	14.5	136.62	293.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

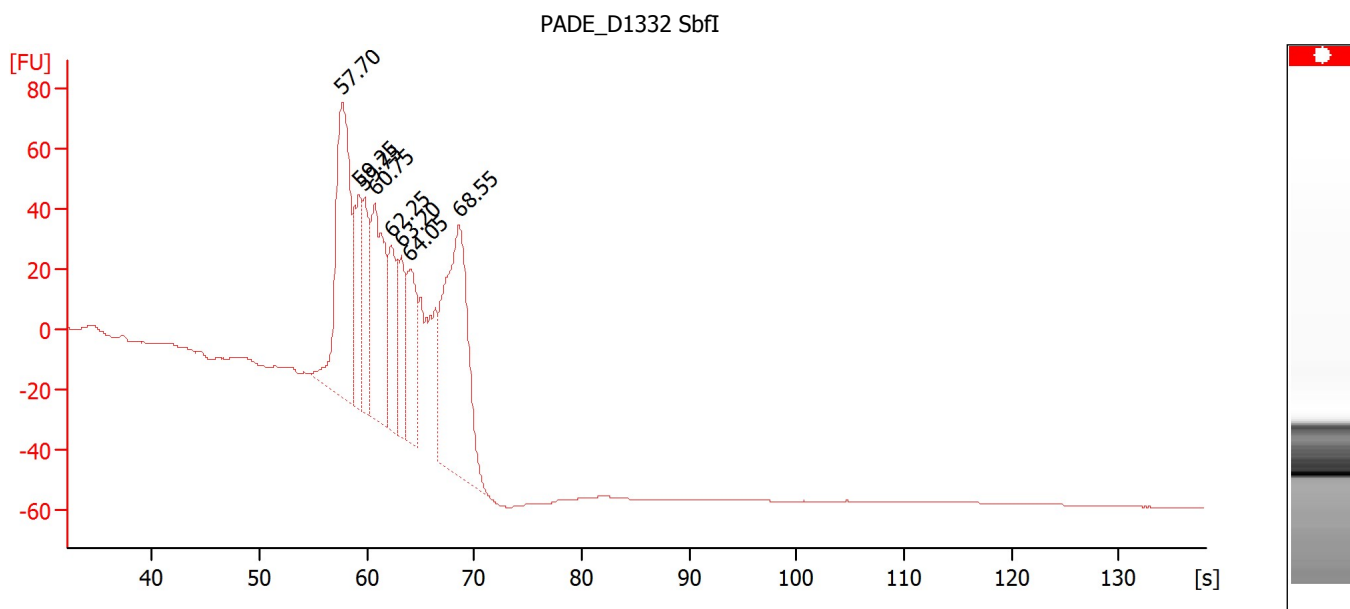
Electropherogram Summary Continued ...

Overall Results for sample 8 : PADE_D1331 PstI+MluCI

Noise: 0.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

Electropherogram Summary Continued ...**Overall Results for sample 9 : PADE_D1332 SbfI**

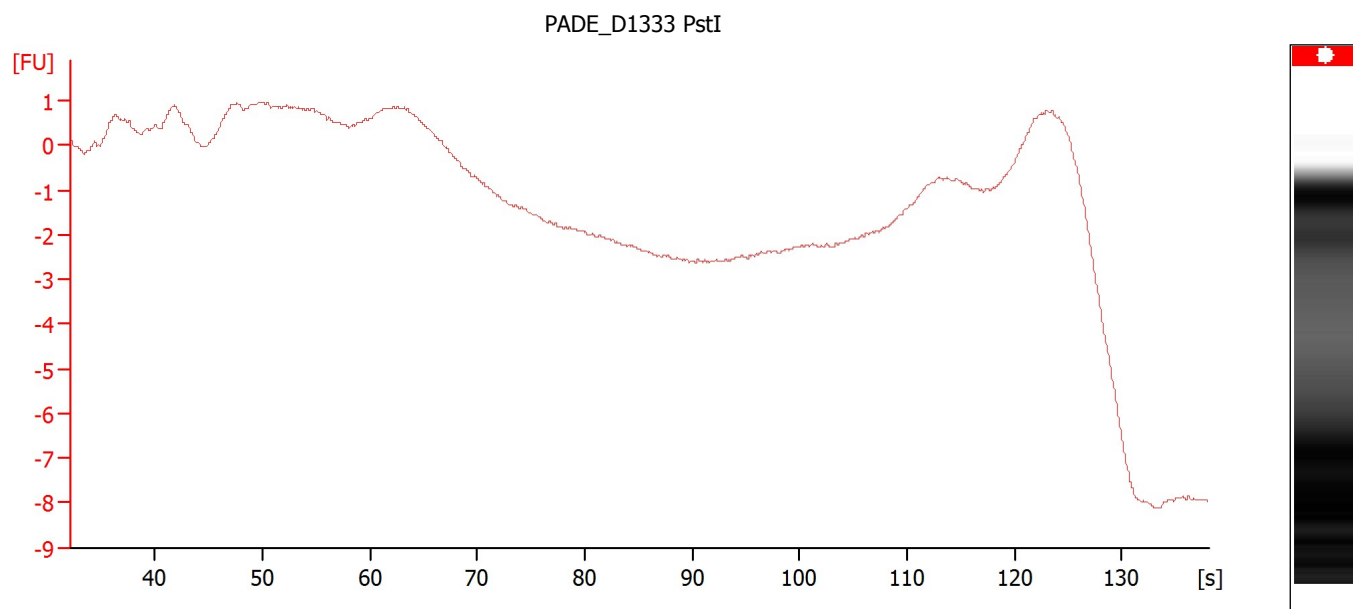
Number of peaks found: 0 Noise: 0.0

Peak table for sample 9 : PADE_D1332 SbfI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

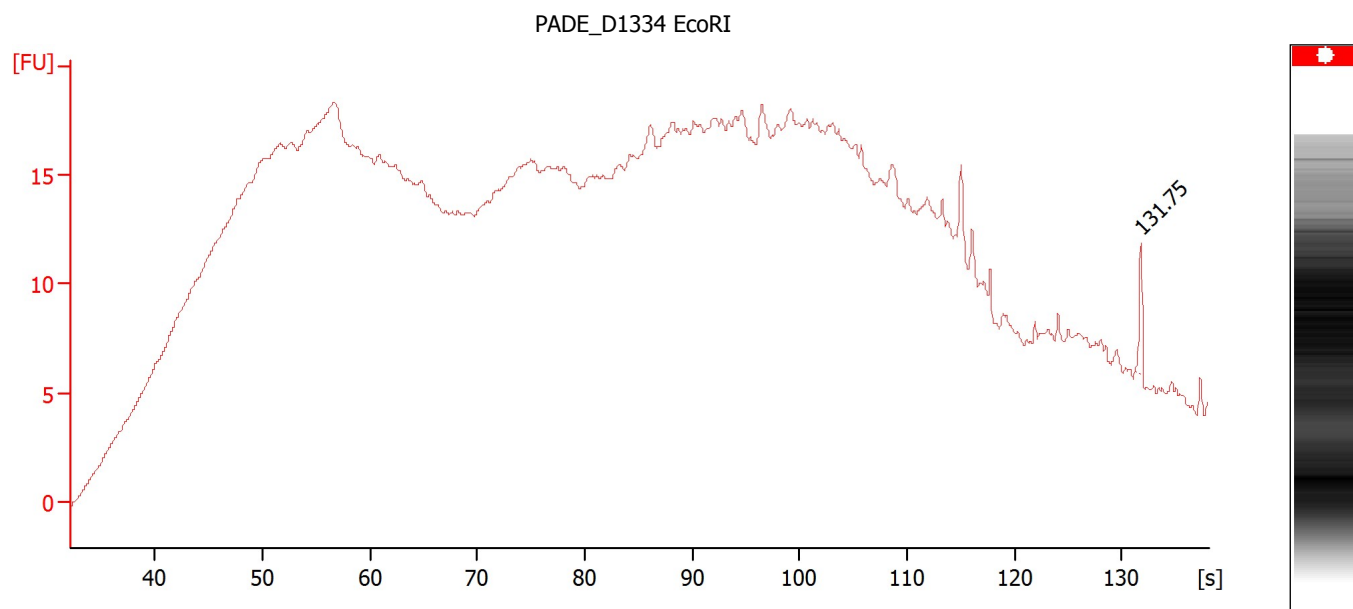
Electropherogram Summary Continued ...

Overall Results for sample 10 : PADE_D1333 PstI

Noise: 0.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

Electropherogram Summary Continued ...**Overall Results for sample 11 : PADE_D1334 EcoRI**

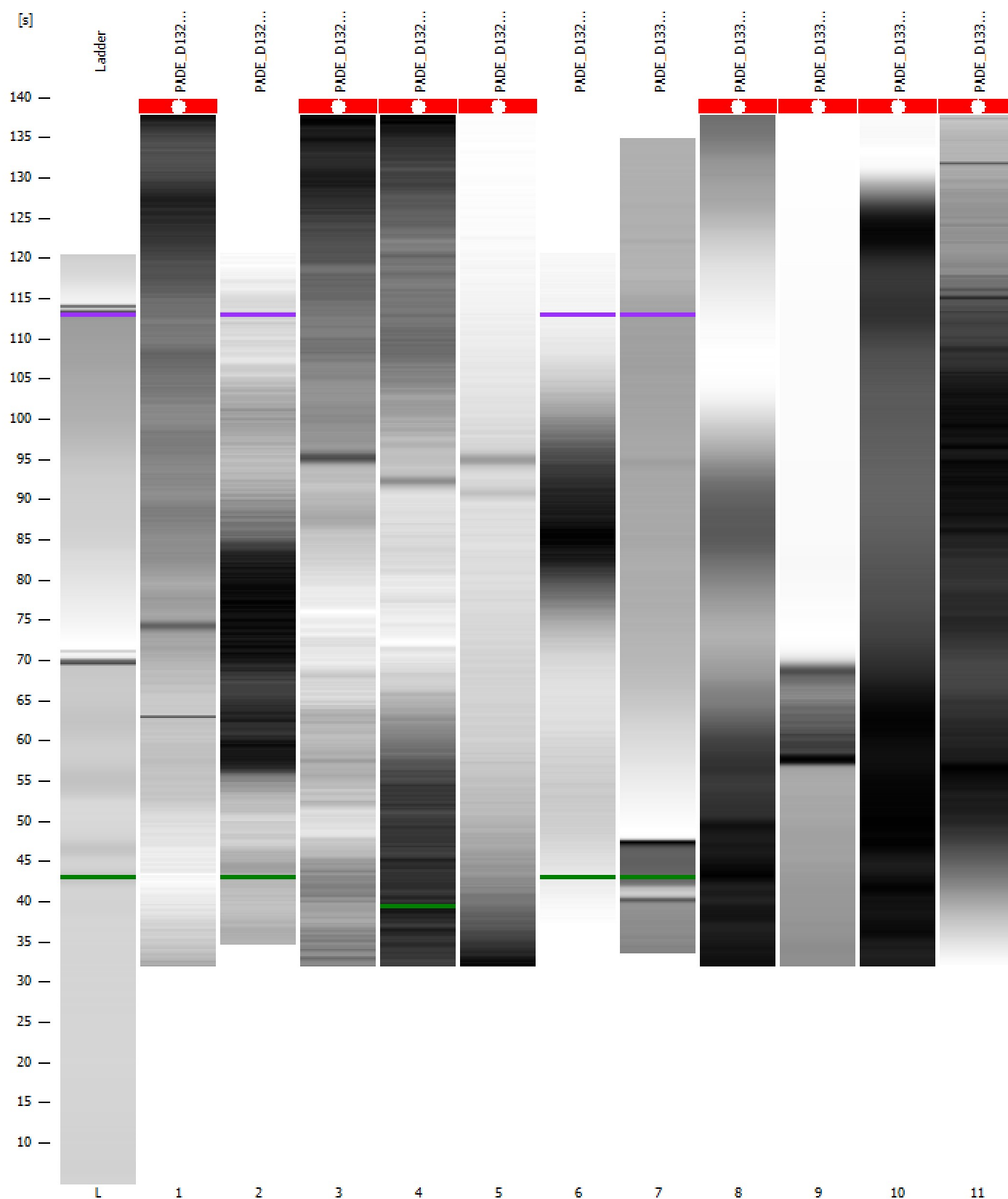
Number of peaks found: 0 Noise: 0.1

Peak table for sample 11 : PADE_D1334 EcoRI

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

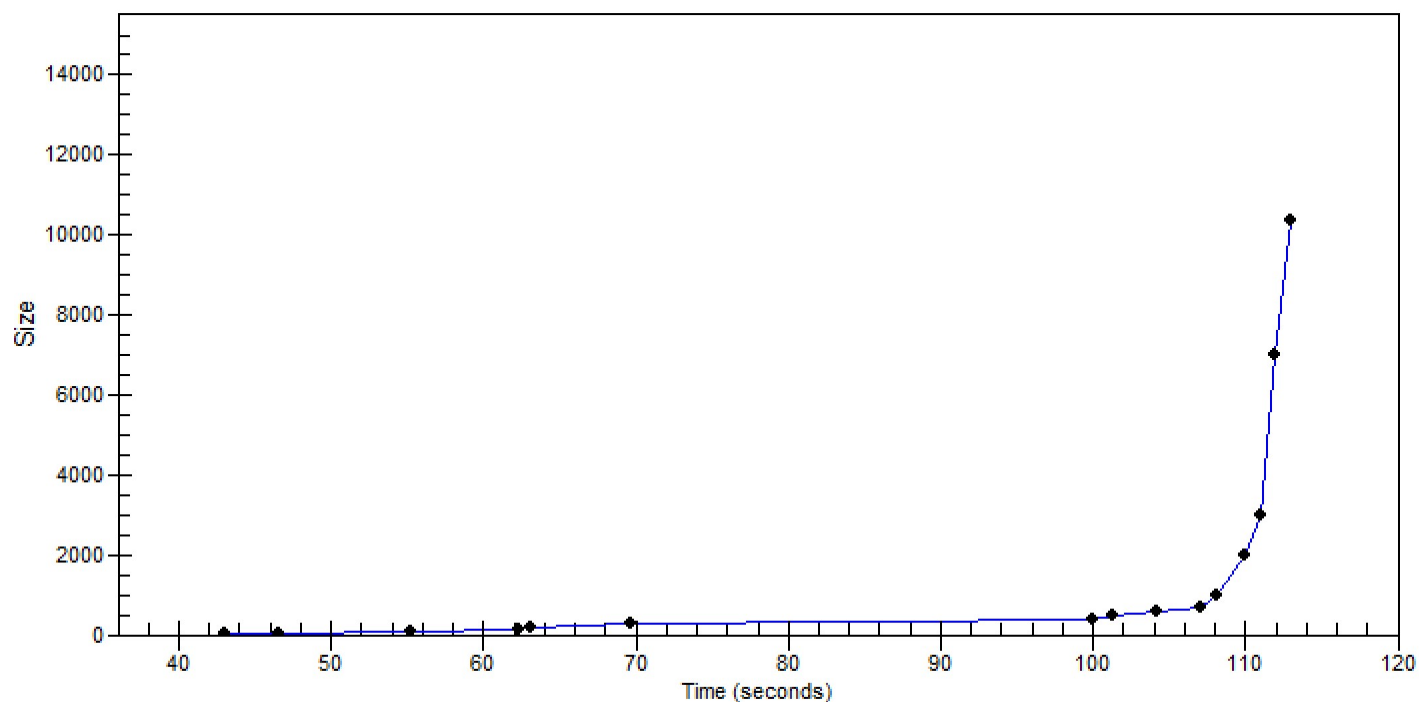
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
Modified: 11/24/2014 11:52:32 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad

Created: 11/24/2014 11:11:11 AM
 Modified: 11/24/2014 11:52:32 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		11/24/2014 11:52:29 AM	(GMT --05:00) Eastern Standard Time	foran103	platereader
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\Data\2014-11-24\Pinsky_High Sensitivity DNA Assay_DE72901330_2014-11-24_11-11-11.xad)		Instrument	Run		11/24/2014 11:11:16 AM	(GMT --05:00) Eastern Standard Time	foran103	platereader
Product Number : G2939A		Instrument	Run		11/24/2014 11:11:16 AM	(GMT --05:00) Eastern Standard Time	foran103	platereader
Name :		Instrument	Run		11/24/2014 11:11:16 AM	(GMT --05:00) Eastern Standard Time	foran103	platereader
Vendor : Agilent Technologies		Instrument	Run		11/24/2014 11:11:16 AM	(GMT --05:00) Eastern Standard Time	foran103	platereader
Serial# : DE72901330		Instrument	Run		11/24/2014 11:11:16 AM	(GMT --05:00) Eastern Standard Time	foran103	platereader
Firmware : C.01.069		Instrument	Run		11/24/2014 11:11:16 AM	(GMT --05:00) Eastern Standard Time	foran103	platereader
Cartridge : Electrode		Instrument	Run		11/24/2014 11:11:16 AM	(GMT --05:00) Eastern Standard Time	foran103	platereader