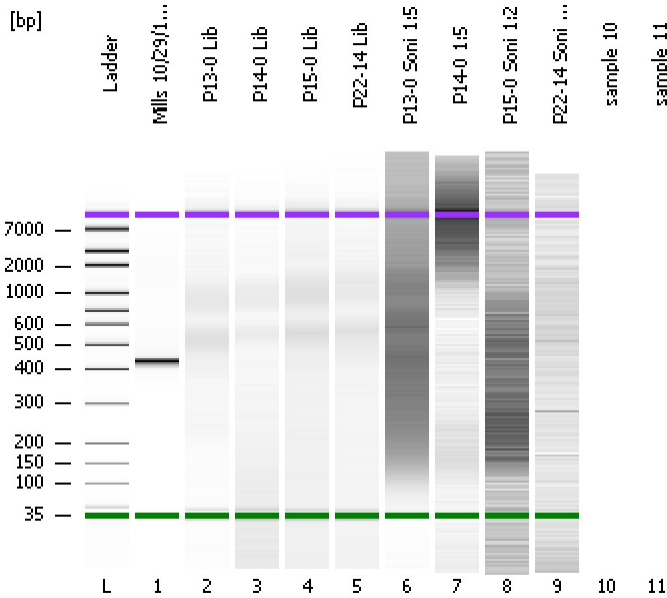


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
Modified: 11/1/2013 4:46:21 PM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\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

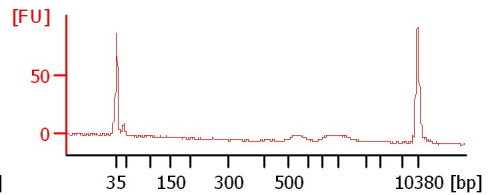
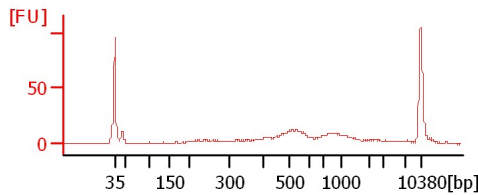
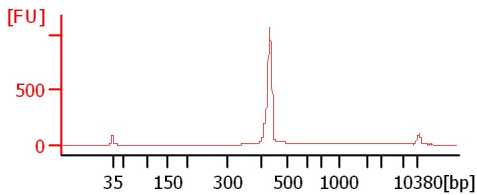
Chip Information:

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

**Mills 10/29/13 Lib 1:30**

**P13-0 Lib**

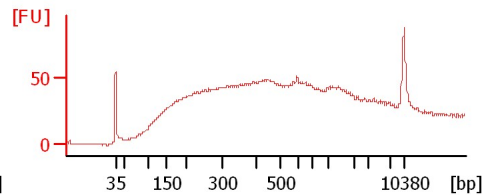
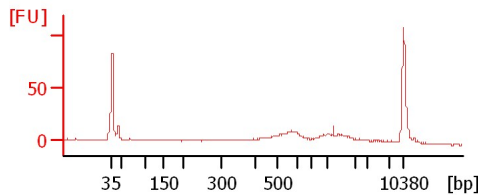
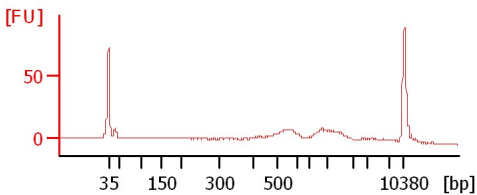
**P14-0 Lib**



**P15-0 Lib**

**P22-14 Lib**

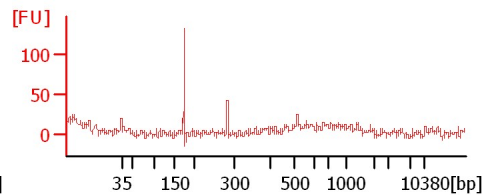
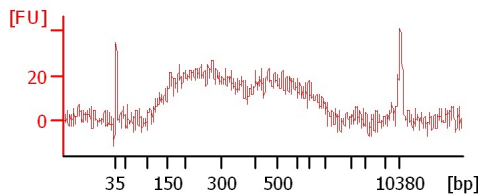
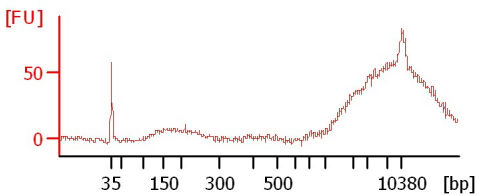
**P13-0 Soni 1:5**



**P14-0 1:5**

**P15-0 Soni 1:2**

**P22-14 Soni 1:4**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
Modified: 11/1/2013 4:46:21 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Mills 10/29/13 Lib 1:30		<input type="checkbox"/>	✓			
P13-0 Lib		<input type="checkbox"/>	✓			
P14-0 Lib		<input type="checkbox"/>	✓			
P15-0 Lib		<input type="checkbox"/>	✓			
P22-14 Lib		<input type="checkbox"/>	✓			
P13-0 Soni 1:5		<input type="checkbox"/>	✓			
P14-0 1:5		<input type="checkbox"/>	✓			
P15-0 Soni 1:2		<input type="checkbox"/>	✓			
P22-14 Soni 1:4		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
Modified: 11/1/2013 4:46:21 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/μl] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/μl] : 125  
Upper Marker Concentration [pg/μl] : 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

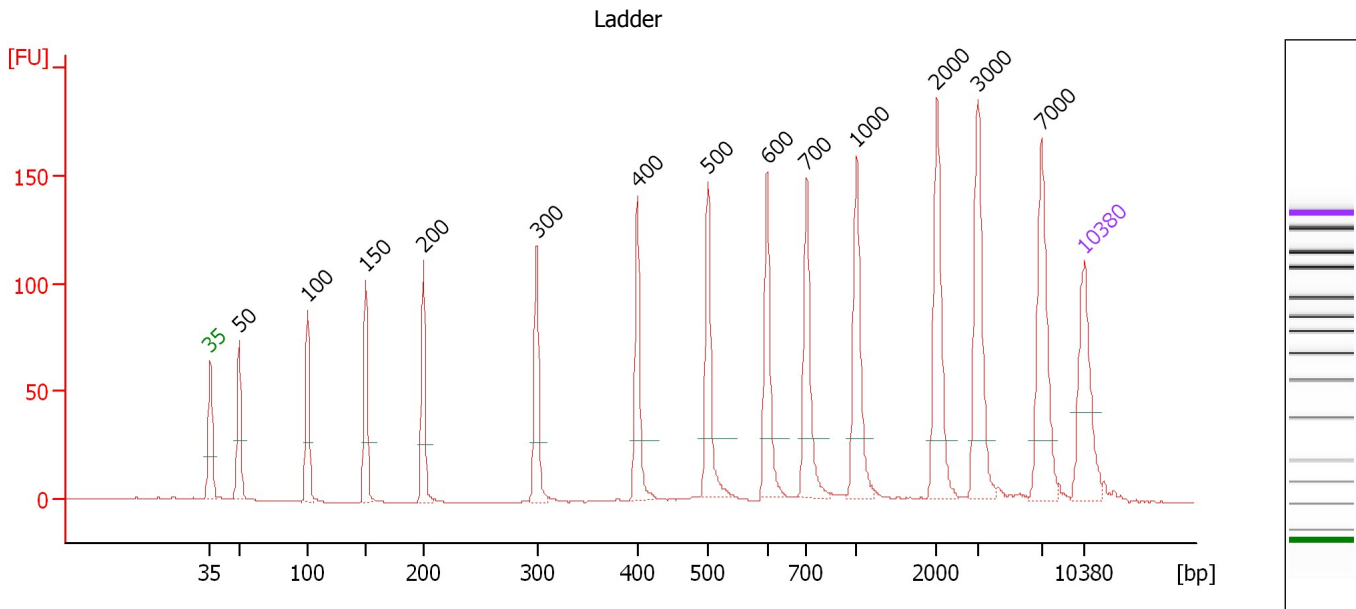
**Ladder**

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:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
 Modified: 11/1/2013 4:46:21 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

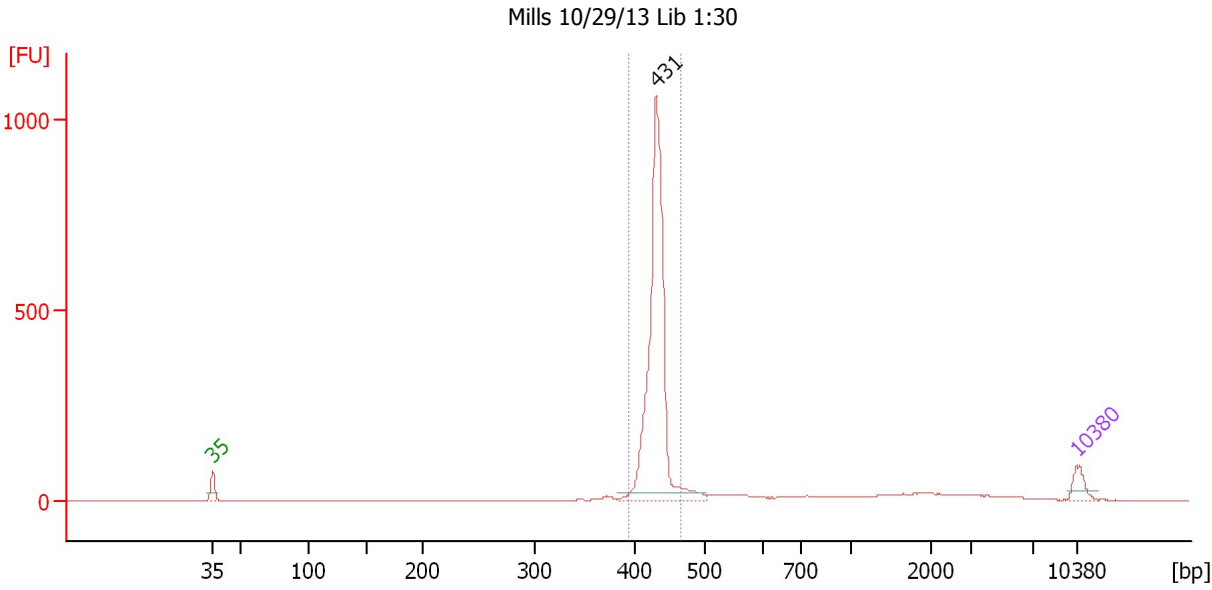
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
 Modified: 11/1/2013 4:46:21 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : Mills 10/29/13 Lib 1:30**

Height Threshold [FU] : 20

**Overall Results for sample 1 : Mills 10/29/13 Lib 1:30**

Number of peaks found: 1                      Corr. Area 1: 1,767.3  
 Noise: 0.2

**Peak table for sample 1 : Mills 10/29/13 Lib 1:30**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	431	2,050.82	7,213.0	
3	10,380	75.00	10.9	Upper Marker

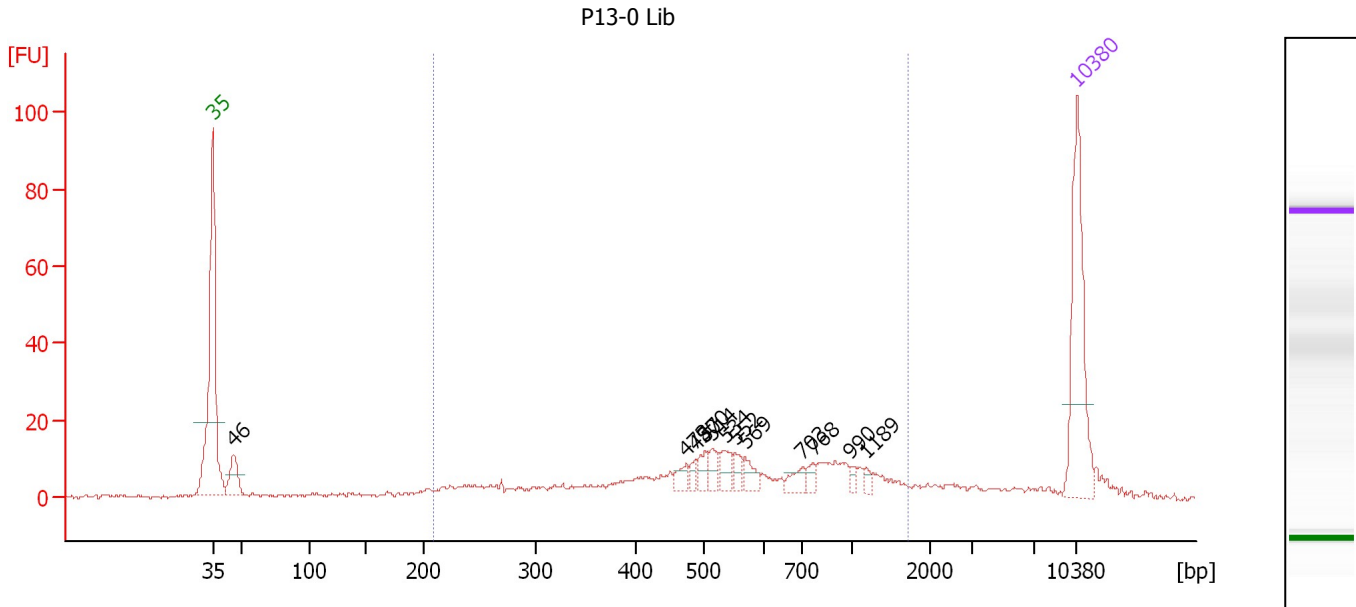
**Region table for sample 1 : Mills 10/29/13 Lib 1:30**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
393	467	430	6,948.0	1,972.04	1,767.3	77	2.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
 Modified: 11/1/2013 4:46:21 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : P13-0 Lib**

Number of peaks found: 12                      Corr. Area 1: 284.6  
 Noise: 0.5

**Peak table for sample 2 : P13-0 Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	29.65	977.6	
3	473	9.14	29.3	
4	487	6.07	18.9	
5	500	10.27	31.1	
6	514	9.50	28.0	
7	534	12.71	36.0	
8	552	8.48	23.3	
9	569	10.14	27.0	
10	703	9.45	20.4	
11	768	6.77	13.4	
12	990	3.78	5.8	
13	1,189	3.94	5.0	
14	10,380	75.00	10.9	Upper Marker

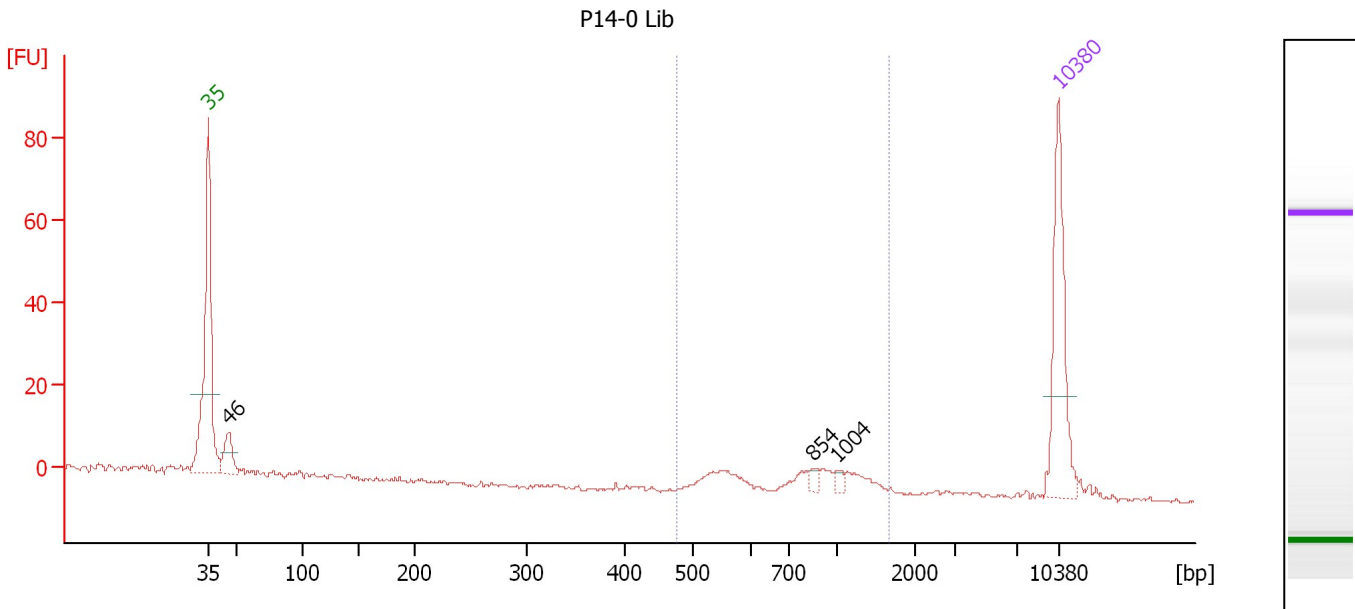
**Region table for sample 2 : P13-0 Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
210	1,706	627	974.6	293.92	284.6	72	50.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
 Modified: 11/1/2013 4:46:21 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : P14-0 Lib**

Number of peaks found: 3                      Corr. Area 1: 53.7  
 Noise: 0.4

**Peak table for sample 3 : P14-0 Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	33.97	1,129.5	
3	854	5.03	8.9	
4	1,004	4.50	6.8	
5	10,380	75.00	10.9	Upper Marker

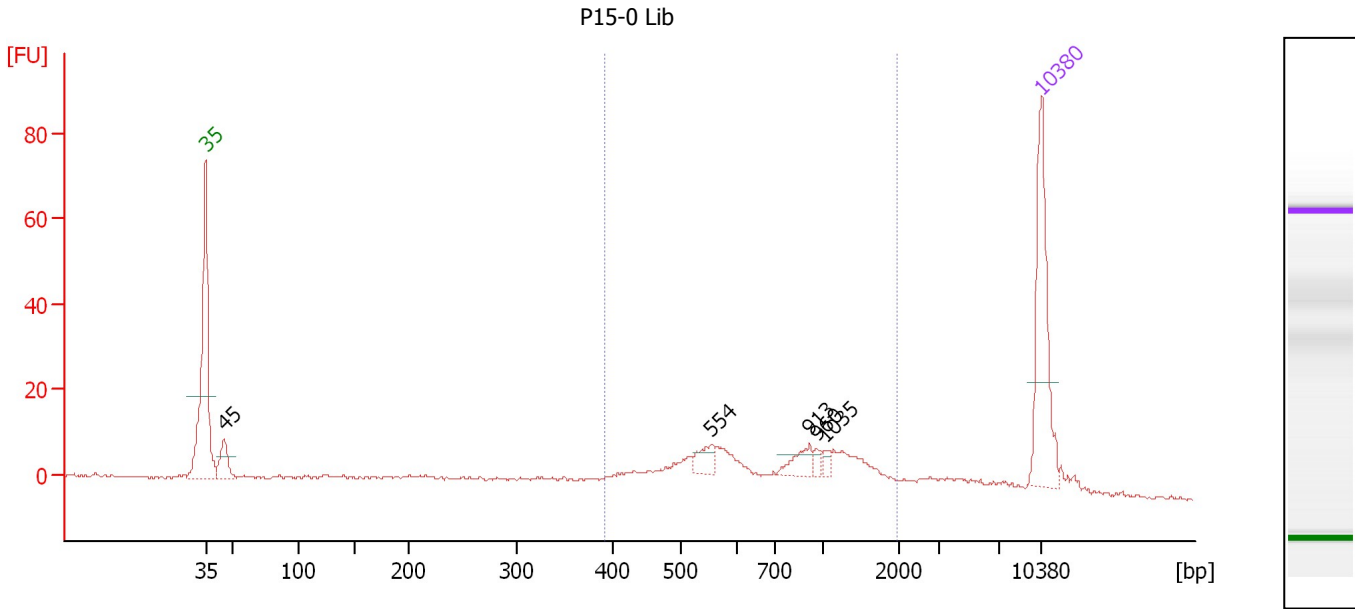
**Region table for sample 3 : P14-0 Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
478	1,669	889	109.0	55.70	53.7	57	33.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
 Modified: 11/1/2013 4:46:21 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : P15-0 Lib**

Number of peaks found: 5                      Corr. Area 1: 173.1  
 Noise: 0.4

**Peak table for sample 4 : P15-0 Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	29.97	1,005.3	
3	554	15.63	42.7	
4	913	15.22	25.2	
5	960	4.59	7.2	
6	1,035	5.03	7.4	
7	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : P15-0 Lib**

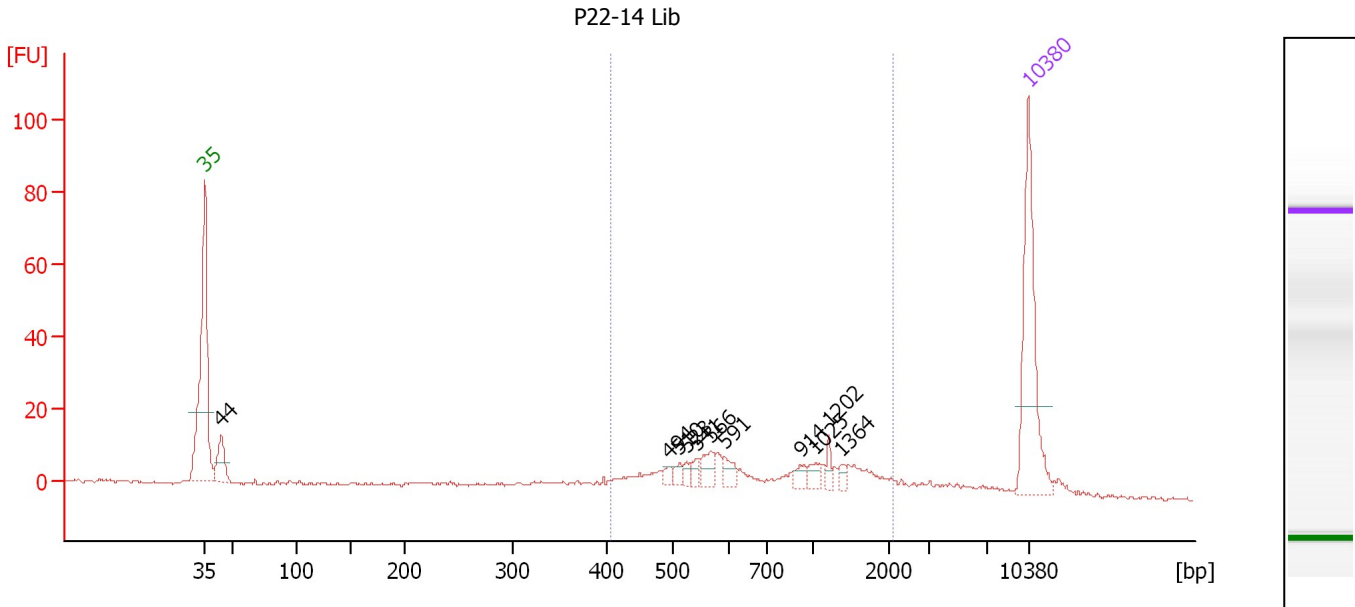
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
390	1,980	851	437.8	194.54	173.1	63	46.6	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
 Modified: 11/1/2013 4:46:21 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : P22-14 Lib**

Number of peaks found: 11      Corr. Area 1: 162.1  
 Noise: 0.4

**Peak table for sample 5 : P22-14 Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	32.14	1,103.2	
3	494	5.17	15.8	
4	510	5.59	16.6	
5	523	4.42	12.8	
6	541	6.70	18.8	
7	566	12.18	32.6	
8	591	9.62	24.6	
9	914	6.68	11.1	
10	1,025	7.33	10.8	
11	1,202	5.12	6.5	
12	1,364	3.93	4.4	
13	10,380	75.00	10.9	Upper Marker

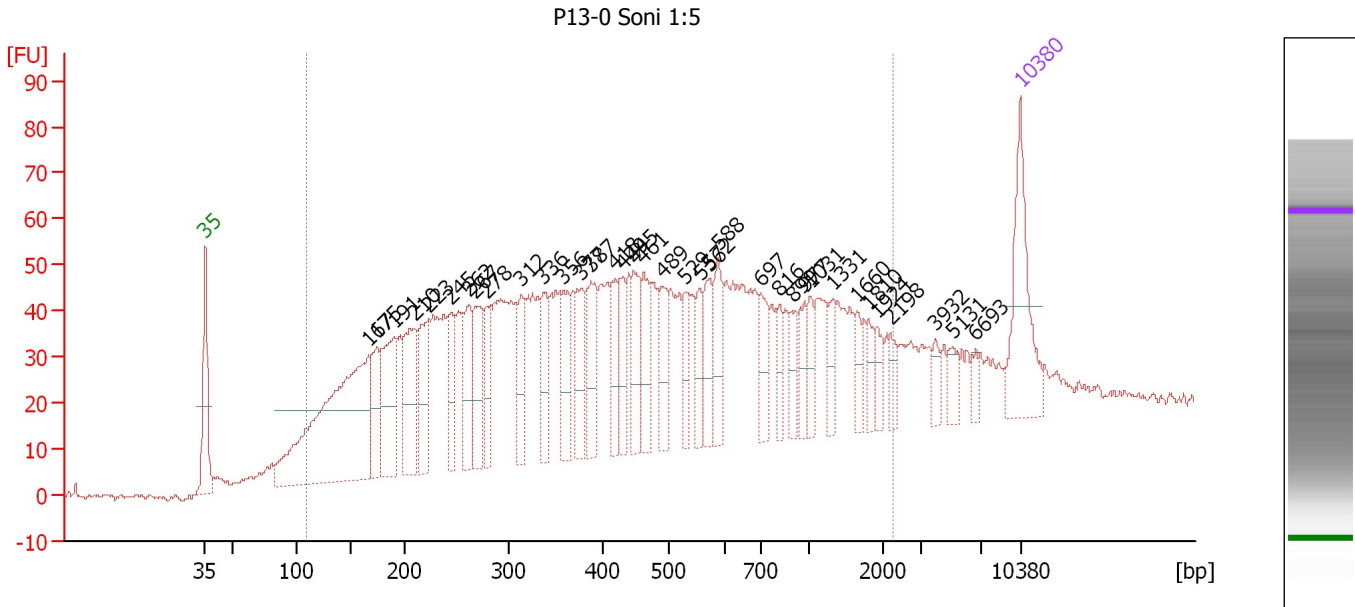
**Region table for sample 5 : P22-14 Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
405	2,114	879	330.0	147.46	162.1	68	50.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
 Modified: 11/1/2013 4:46:21 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 6 : P13-0 Soni 1:5**

Height Threshold [FU] : 15

**Overall Results for sample 6 : P13-0 Soni 1:5**

Number of peaks found: 36                      Corr. Area 1: 2,059.2  
 Noise: 0.6

**Peak table for sample 6 : P13-0 Soni 1:5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	167	384.76	3,488.0	
3	175	61.59	533.0	
4	191	111.77	886.8	
5	210	98.99	714.4	
6	223	73.68	500.5	
7	245	50.98	315.0	
8	262	64.32	372.3	
9	267	67.22	381.0	
10	278	48.27	262.7	
11	312	45.93	223.1	
12	336	46.69	210.7	
13	356	50.56	215.0	
14	377	51.65	207.8	
15	387	59.90	234.6	
16	418	38.87	141.0	
17	429	38.84	137.2	
18	445	47.37	161.2	
19	461	48.10	158.2	
20	489	44.05	136.5	
21	529	28.91	82.9	
22	556	29.95	81.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
 Modified: 11/1/2013 4:46:21 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 6 : P13-0 Soni 1:5**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
23	572	37.36	98.9	
24	588	43.19	111.2	
25	697	36.98	80.4	
26	816	20.65	38.3	
27	899	20.47	34.5	
28	977	24.64	38.2	
29	1,031	19.25	28.3	
30	1,331	20.54	23.4	
31	1,660	16.83	15.4	
32	1,810	15.03	12.6	
33	1,924	15.15	11.9	
34	2,198	12.10	8.3	
35	3,932	11.20	4.3	
36	5,131	14.68	4.3	
37	6,693	8.69	2.0	
38	10,380	75.00	10.9	Upper Marker

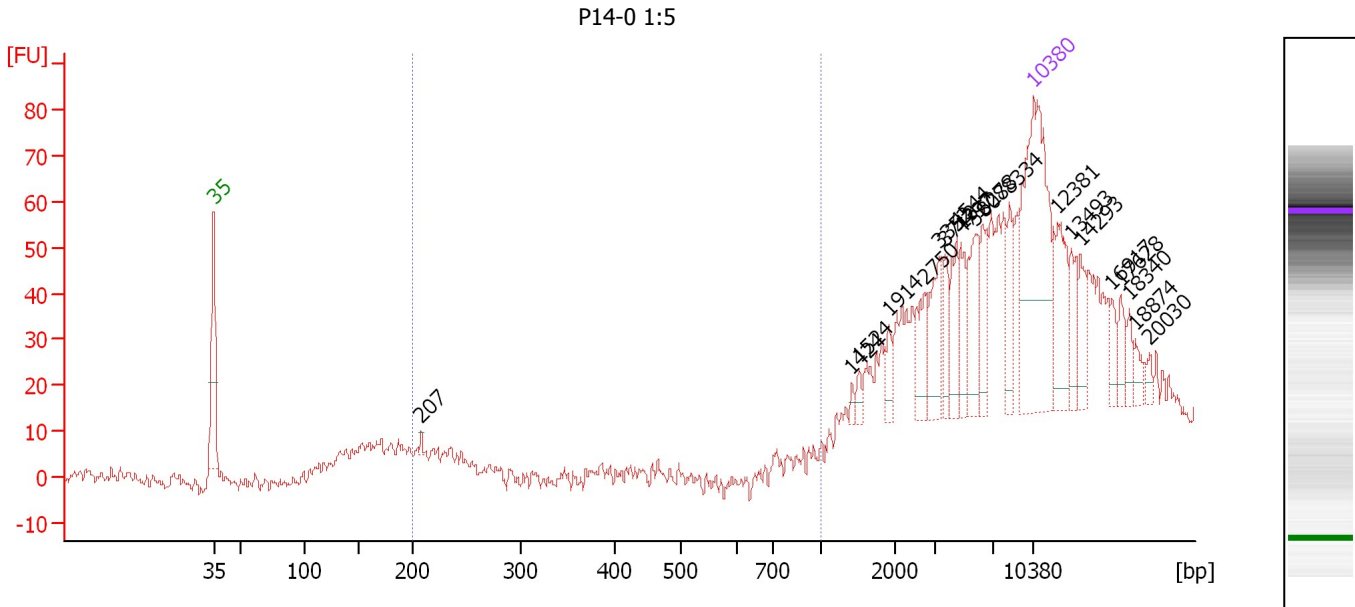
**Region table for sample 6 : P13-0 Soni 1:5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
109	2,288	548	13,699.3	2,696.09	2,059.2	90	78.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
 Modified: 11/1/2013 4:46:21 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : P14-0 1:5**

Number of peaks found: 20      Corr. Area 1: 3.4  
 Noise: 1.6

**Peak table for sample 7 : P14-0 1:5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	207	1.85	13.5	
3	1,424	2.15	2.3	
4	1,524	3.49	3.5	
5	1,914	6.41	5.1	
6	2,750	12.81	7.1	
7	3,352	19.51	8.8	
8	3,713	11.11	4.5	
9	4,544	14.78	4.9	
10	4,797	11.59	3.7	
11	5,808	19.35	5.0	
12	6,278	14.12	3.4	
13	8,334	12.48	2.3	
14	10,380	75.00	10.9	Upper Marker
15	12,381	0.00	0.0	
16	13,493	0.00	0.0	
17	14,293	0.00	0.0	
18	16,917	0.00	0.0	
19	17,628	0.00	0.0	
20	18,340	0.00	0.0	
21	18,874	0.00	0.0	
22	20,030	0.00	0.0	

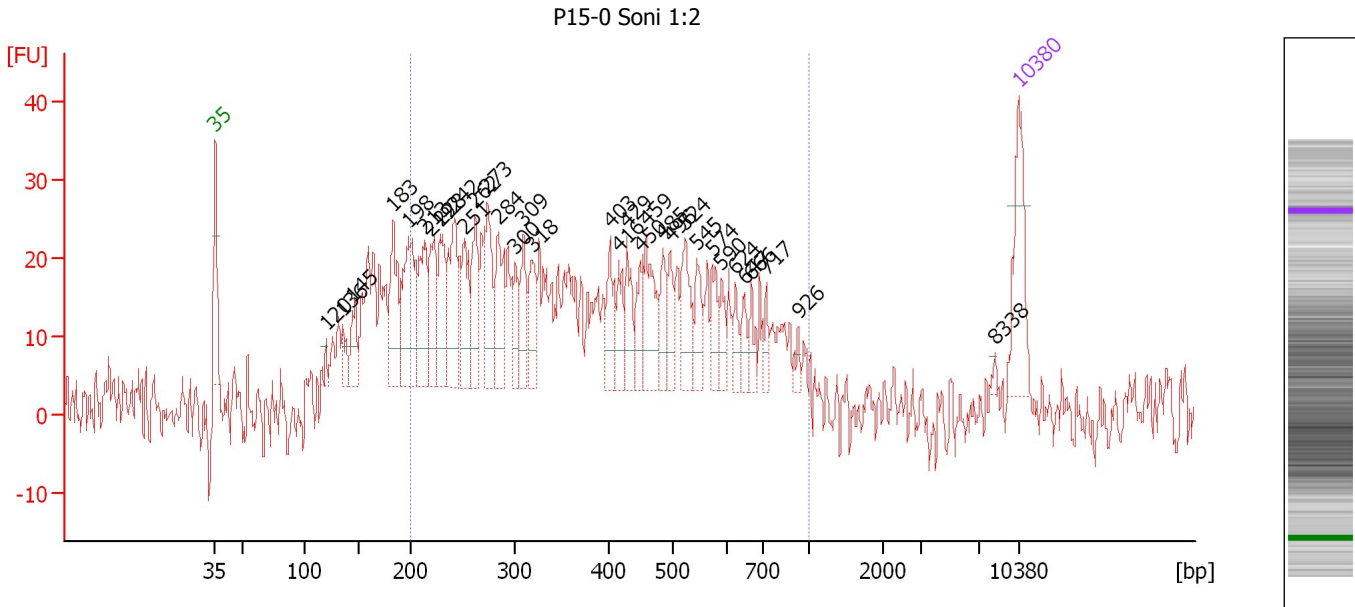
**Region table for sample 7 : P14-0 1:5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	214	21.5	3.03	3.4	1	5.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
 Modified: 11/1/2013 4:46:21 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : P15-0 Soni 1:2**

Number of peaks found: 33                      Corr. Area 1: 876.0  
 Noise: 3.3

**Peak table for sample 8 : P15-0 Soni 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	120	15.61	196.6	
3	136	26.60	296.9	
4	145	50.22	523.9	
5	183	109.42	903.7	
6	198	140.40	1,074.1	
7	213	95.37	677.3	
8	219	78.83	545.5	
9	228	83.04	551.5	
10	242	115.03	720.4	
11	251	81.67	493.8	
12	262	73.35	424.4	
13	273	85.72	475.6	
14	284	84.42	450.7	
15	300	42.42	214.1	
16	309	53.36	261.8	
17	318	53.22	253.6	
18	403	48.88	183.8	
19	416	38.56	140.4	
20	429	46.58	164.4	
21	450	39.07	131.6	
22	459	78.16	258.1	
23	485	36.57	114.2	
24	496	36.87	112.6	
25	524	60.81	176.0	
26	545	39.57	110.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
 Modified: 11/1/2013 4:46:21 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 8 : P15-0 Soni 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	574	33.87	89.5	
28	590	23.12	59.3	
29	624	21.52	52.3	
30	647	22.97	53.8	
31	666	20.40	46.4	
32	717	17.68	37.3	
33	926	9.37	15.3	
34	8,338	3.87	0.7	
35	▶ 10,380	75.00	10.9	Upper Marker

**Region table for sample 8 : P15-0 Soni 1:2**

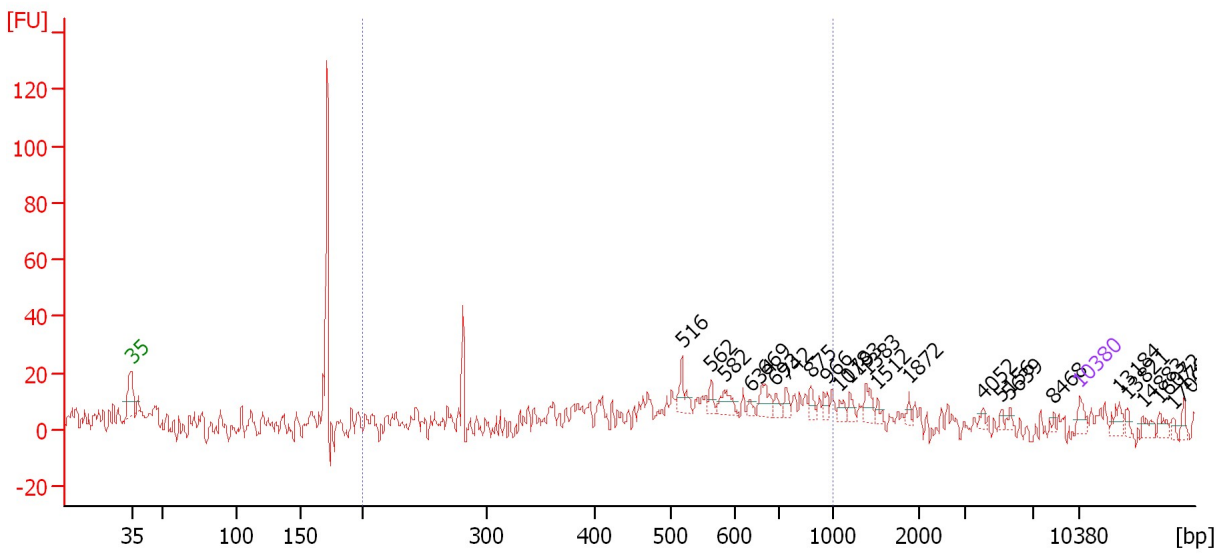
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	420	12,758.5	2,832.93	876.0	66	41.8	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
 Modified: 11/1/2013 4:46:21 PM

**Electropherogram Summary Continued ...**

P22-14 Soni 1:4



**Overall Results for sample 9 : P22-14 Soni 1:4**

Number of peaks found: 24                      Corr. Area 1: 43.2  
 Noise: 5.9

**Peak table for sample 9 : P22-14 Soni 1:4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	516	177.65	521.6	
3	562	75.13	202.6	
4	582	147.49	383.9	
5	634	43.99	105.2	
6	669	161.25	365.0	
7	693	68.34	149.5	
8	742	81.44	166.4	
9	875	76.12	131.8	
10	966	63.31	99.3	
11	1,078	59.14	83.1	
12	1,193	62.33	79.2	
13	1,383	107.79	118.1	
14	1,512	41.83	41.9	
15	1,872	37.35	30.2	
16	4,052	33.95	12.7	
17	5,156	26.23	7.7	
18	5,639	31.35	8.4	
19	8,468	25.88	4.6	
20	10,380	75.00	10.9	Upper Marker
21	13,184	0.00	0.0	
22	13,821	0.00	0.0	
23	14,883	0.00	0.0	
24	16,072	0.00	0.0	
25	17,092	0.00	0.0	
26	17,856	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
Modified: 11/1/2013 4:46:21 PM

**Electropherogram Summary Continued ...**

... Region table for sample 9 : P22-14 Soni 1:4

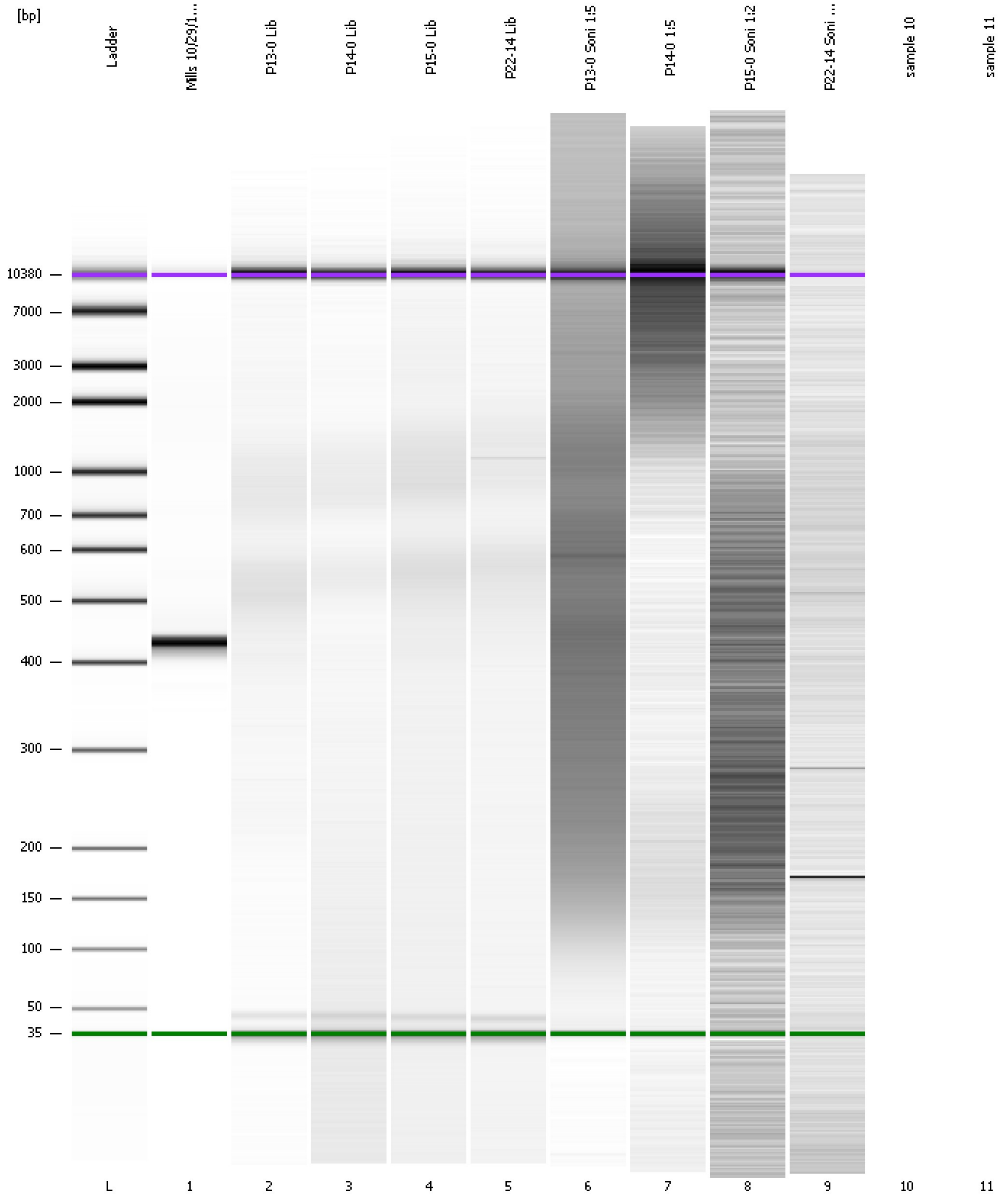
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	627	1,894.1	641.11	43.2	39	31.4	■



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
Modified: 11/1/2013 4:46:21 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_006.xad

Created: 11/1/2013 4:03:17 PM  
Modified: 11/1/2013 4:46:21 PM

**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.