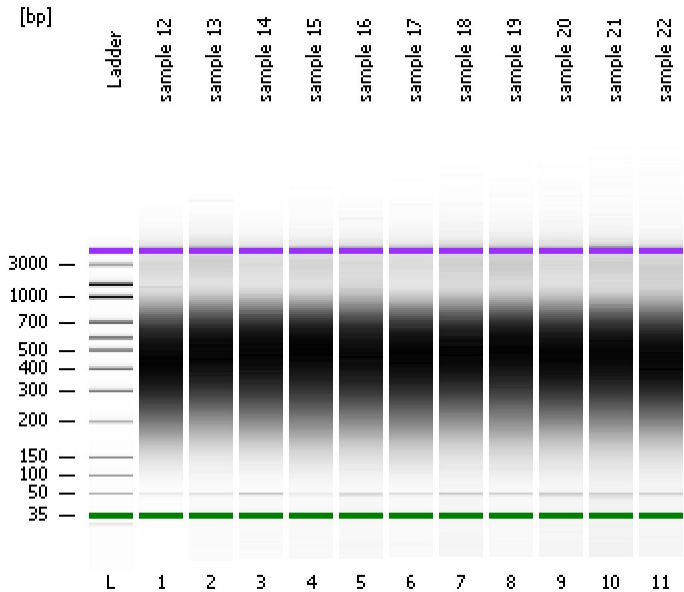


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
Modified: 12/1/2014 12:06:20 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

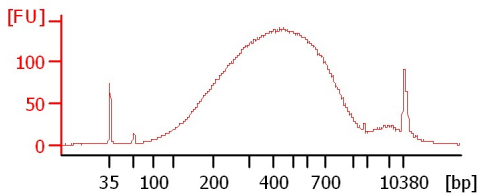
Assay Information:

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

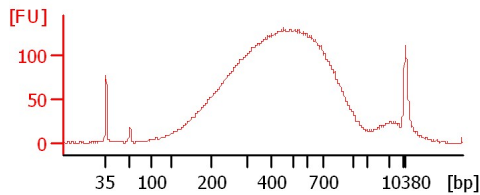
Chip Information:

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

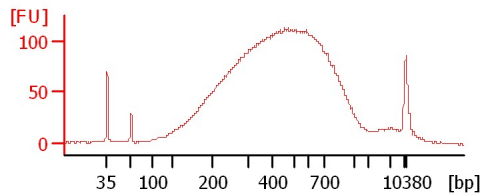
sample 12



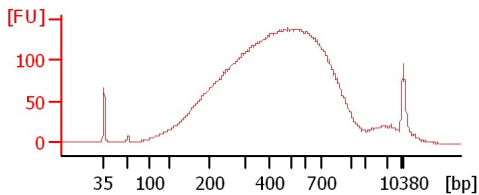
sample 13



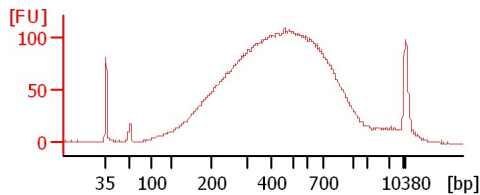
sample 14



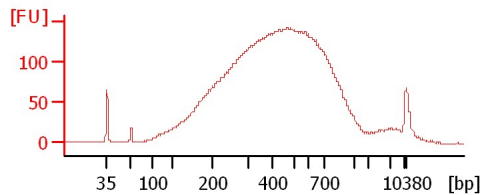
sample 15



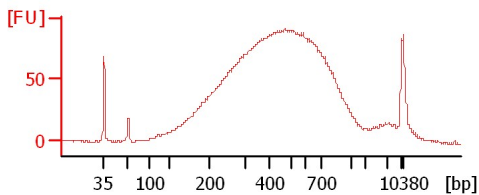
sample 16



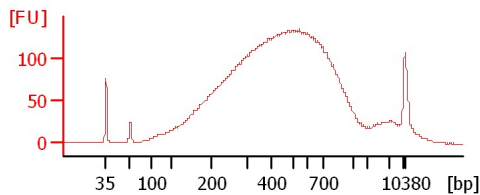
sample 17



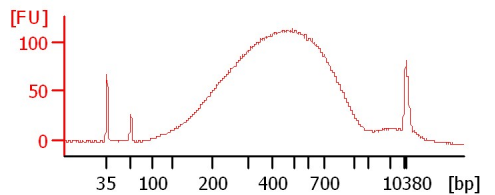
sample 18



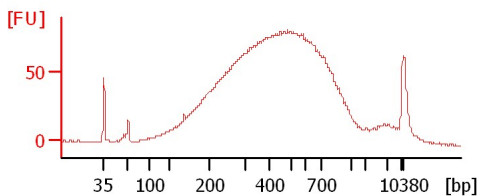
sample 19



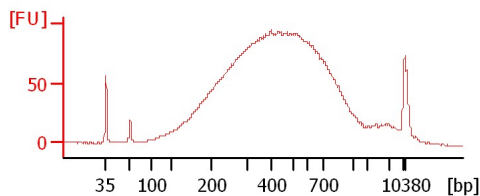
sample 20



sample 21



sample 22



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
Modified: 12/1/2014 12:06:20 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 12		<input type="checkbox"/>	✓			
sample 13		<input type="checkbox"/>	✓			
sample 14		<input type="checkbox"/>	✓			
sample 15		<input type="checkbox"/>	✓			
sample 16		<input type="checkbox"/>	✓			
sample 17		<input type="checkbox"/>	✓			
sample 18		<input type="checkbox"/>	✓			
sample 19		<input type="checkbox"/>	✓			
sample 20		<input type="checkbox"/>	✓			
sample 21		<input type="checkbox"/>	✓			
sample 22		<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\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
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**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

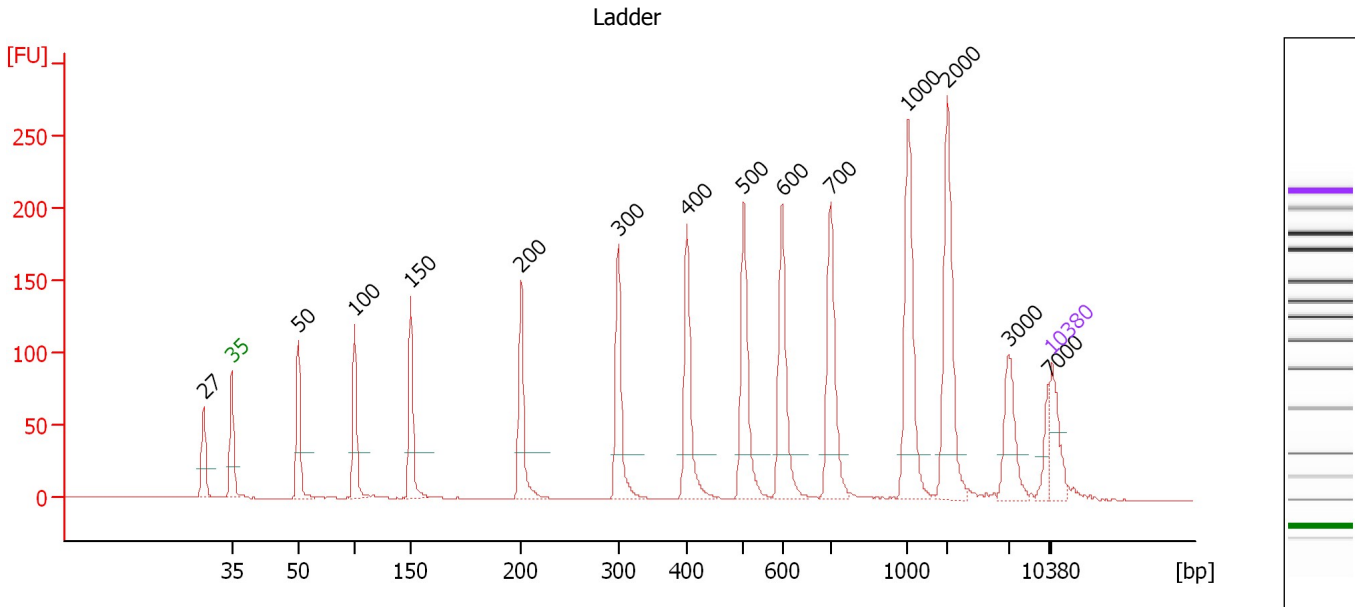
**Ladder**

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\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

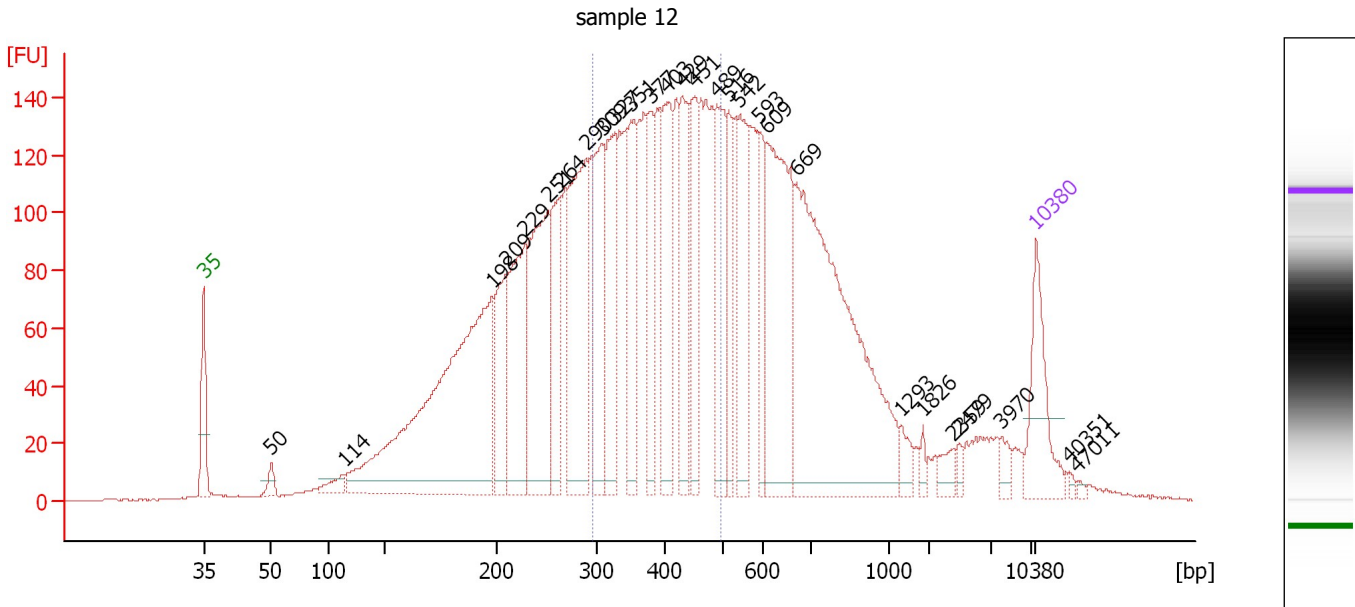
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	27	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	50	150.00	4,545.5	Ladder Peak
4	100	150.00	2,272.7	Ladder Peak
5	150	150.00	1,515.2	Ladder Peak
6	200	150.00	1,136.4	Ladder Peak
7	300	150.00	757.6	Ladder Peak
8	400	150.00	568.2	Ladder Peak
9	500	150.00	454.5	Ladder Peak
10	600	150.00	378.8	Ladder Peak
11	700	150.00	324.7	Ladder Peak
12	1,000	150.00	227.3	Ladder Peak
13	2,000	150.00	113.6	Ladder Peak
14	3,000	150.00	75.8	Ladder Peak
15	7,000	150.00	32.5	Ladder Peak
16	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 12**

Number of peaks found: 28                      Corr. Area 1: 1,829.6  
 Noise: 0.3

**Peak table for sample 1 : sample 12**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	18.64	564.3	
3	114	24.06	320.5	
4	198	723.16	5,545.2	
5	209	142.27	1,033.4	
6	229	218.00	1,444.7	
7	251	287.95	1,735.7	
8	264	145.50	834.0	
9	290	281.26	1,470.5	
10	309	178.43	876.3	
11	327	148.09	686.5	
12	351	132.36	572.1	
13	377	100.68	404.3	
14	403	161.08	605.6	
15	429	118.59	418.8	
16	451	110.50	371.0	
17	489	151.19	468.9	
18	516	81.84	240.3	
19	542	132.17	369.5	
20	593	75.24	192.4	
21	609	264.32	657.3	
22	669	563.21	1,275.9	
23	1,293	18.01	21.1	
24	1,826	7.75	6.4	
25	2,359	15.10	9.7	
26	2,479	6.84	4.2	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 1 : sample 12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	3,970	12.07	4.6	
28	10,380	75.00	10.9	Upper Marker
29	40,351	0.00	0.0	
30	47,011	0.00	0.0	

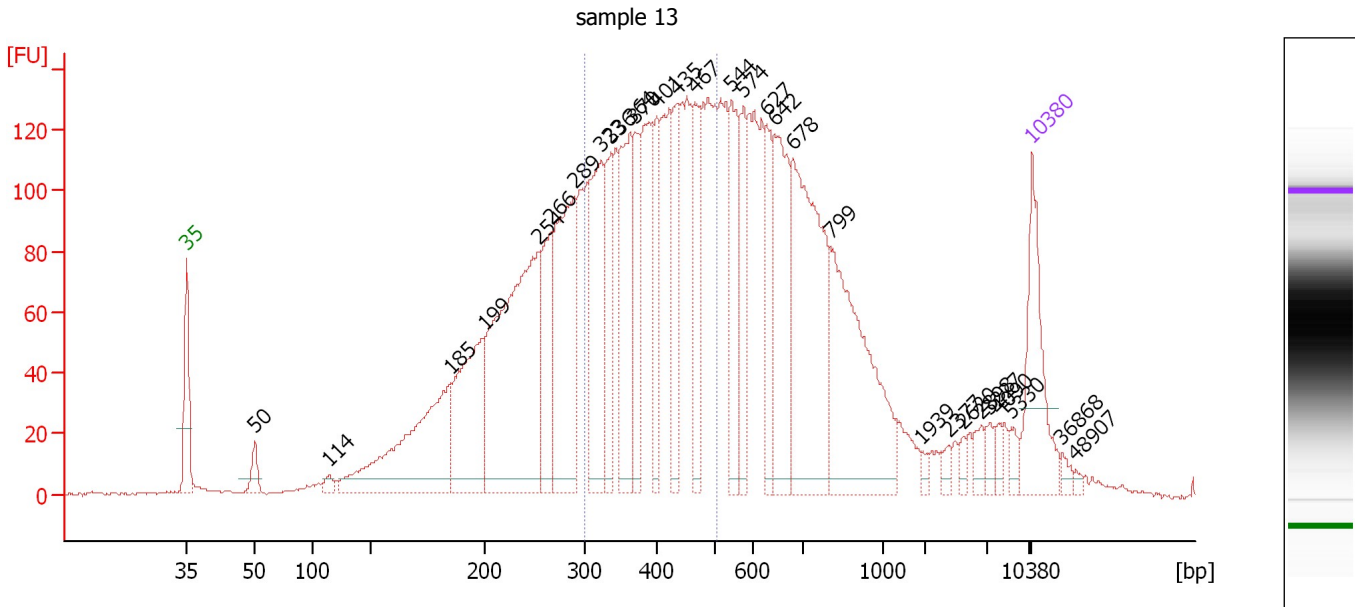
#### Region table for sample 1 : sample 12

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
296	392	496	1,829.6	33	14.7	1,736.58	6,882.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 13**

Number of peaks found: 29                      Corr. Area 1: 1,659.4  
 Noise: 0.5

**Peak table for sample 2 : sample 13**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	23.20	705.4	
3	114	10.13	134.8	
4	185	249.34	2,045.1	
5	199	179.46	1,363.5	
6	254	381.92	2,277.9	
7	266	108.48	617.7	
8	289	209.05	1,095.6	
9	323	138.93	651.1	
10	336	86.41	389.1	
11	364	133.49	555.3	
12	370	75.96	310.7	
13	401	69.06	261.1	
14	435	80.85	281.9	
15	467	68.88	223.7	
16	544	92.03	256.5	
17	574	60.01	158.4	
18	627	59.46	143.8	
19	642	125.96	297.3	
20	678	247.03	551.9	
21	799	211.61	401.2	
22	1,939	4.41	3.4	
23	2,377	7.29	4.6	
24	2,620	6.15	3.6	
25	2,898	11.05	5.8	
26	3,227	9.66	4.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 2 : sample 13

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	4,090	8.09	3.0	
28	5,330	8.31	2.4	
29	10,380	75.00	10.9	Upper Marker
30	36,868	0.00	0.0	
31	48,907	0.00	0.0	

#### Region table for sample 2 : sample 13

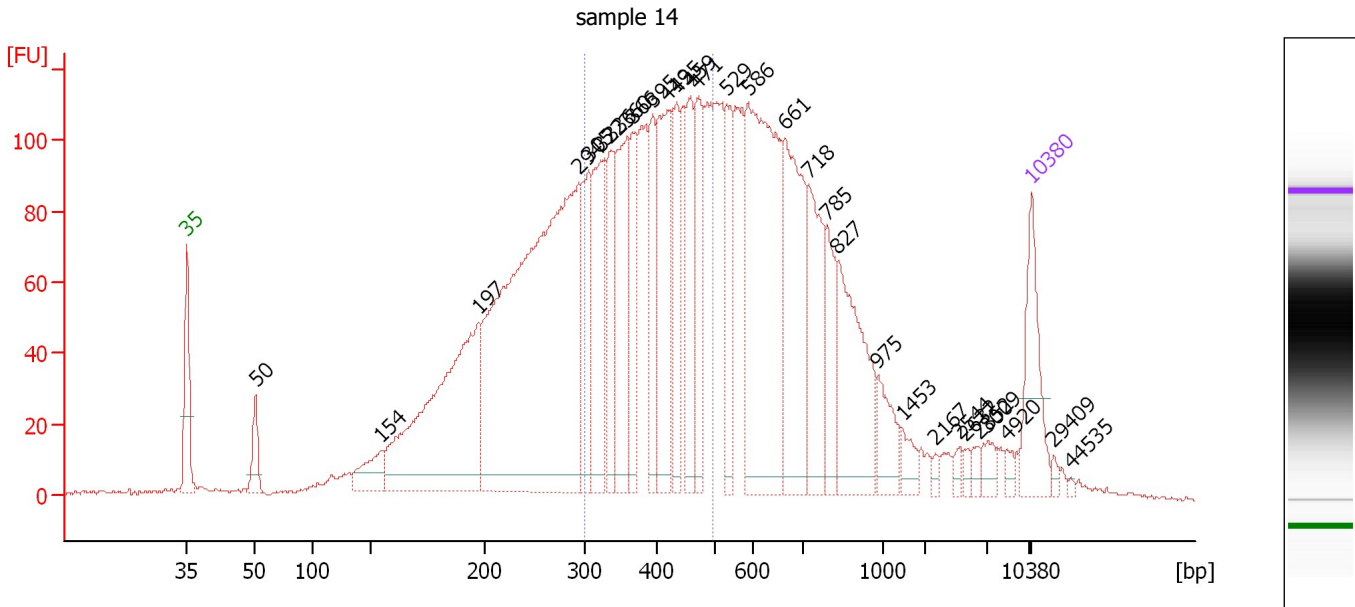
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
300	400	506	1,659.4	34	14.7	1,301.10	5,052.7	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 14**

Number of peaks found: 30      Corr. Area 1: 1,405.8  
 Noise: 0.6

**Peak table for sample 3 : sample 14**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	46.74	1,412.3	
3	154	57.56	565.3	
4	197	474.65	3,650.9	
5	294	955.86	4,932.1	
6	305	121.06	601.1	
7	322	168.69	792.9	
8	336	108.66	489.3	
9	360	159.48	671.3	
10	366	88.05	364.3	
11	395	99.82	382.7	
12	419	158.76	574.2	
13	435	93.67	326.1	
14	459	106.95	353.1	
15	471	106.03	340.8	
16	529	92.63	265.1	
17	586	369.61	956.3	
18	661	207.99	476.9	
19	718	137.09	289.2	
20	785	69.02	133.2	
21	827	165.93	304.1	
22	975	46.20	71.8	
23	1,453	18.35	19.1	
24	2,167	5.73	4.0	
25	2,544	7.64	4.6	
26	2,632	6.06	3.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 3 : sample 14

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,852	7.67	4.1	
28	3,009	14.59	7.3	
29	4,920	7.38	2.3	
30	10,380	75.00	10.9	Upper Marker
31	29,409	0.00	0.0	
32	44,535	0.00	0.0	

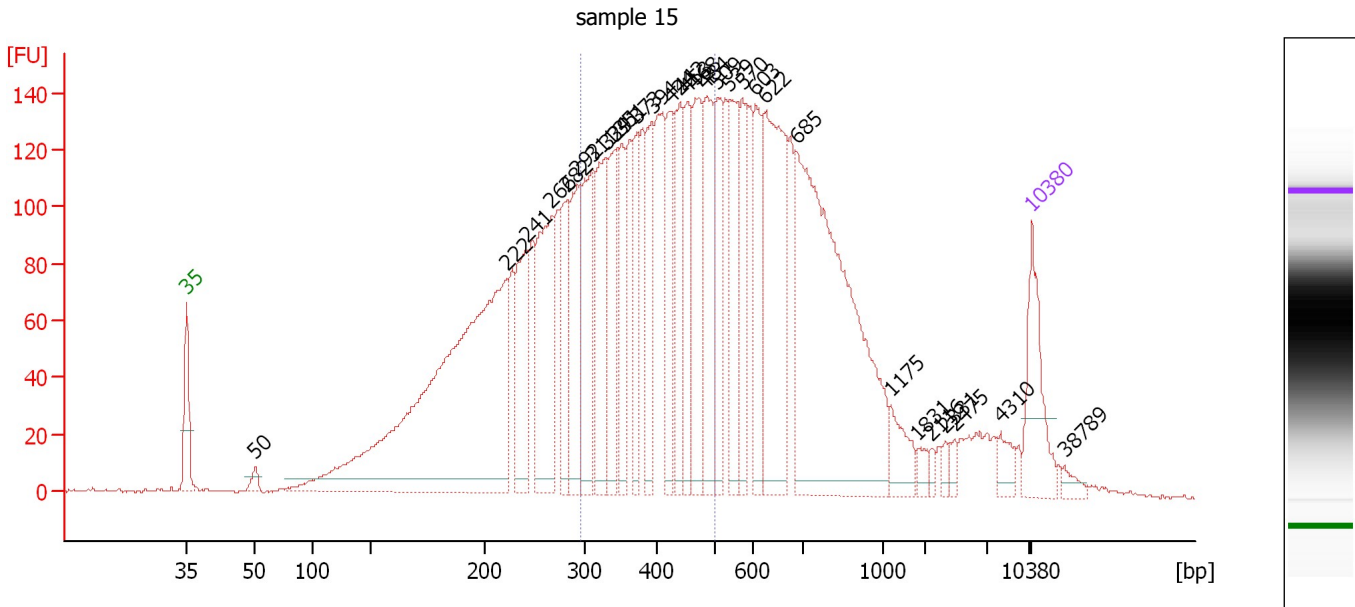
#### Region table for sample 3 : sample 14

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
299	397	499	1,405.8	32	14.5	1,583.57	6,188.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 15**

Number of peaks found: 30                      Corr. Area 1: 1,787.9  
 Noise: 0.5

**Peak table for sample 4 : sample 15**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	15.26	462.6	
3	222	915.56	6,262.2	
4	241	154.83	971.9	
5	266	211.77	1,204.8	
6	282	112.13	603.3	
7	292	142.34	737.6	
8	311	150.15	731.7	
9	329	137.00	630.3	
10	341	130.56	579.6	
11	351	94.36	407.4	
12	373	93.06	377.7	
13	394	113.08	434.7	
14	424	100.03	357.5	
15	442	114.48	392.9	
16	453	100.36	335.5	
17	468	136.41	441.8	
18	484	142.34	445.2	
19	509	104.64	311.8	
20	539	126.85	356.8	
21	570	95.45	253.6	
22	603	96.49	242.6	
23	622	255.27	622.0	
24	685	584.58	1,292.4	
25	1,175	39.58	51.0	
26	1,831	10.70	8.9	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : sample 15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,116	6.62	4.7	
28	2,331	7.45	4.8	
29	2,475	8.33	5.1	
30	4,310	17.58	6.2	
31	10,380	75.00	10.9	Upper Marker
32	38,789	0.00	0.0	

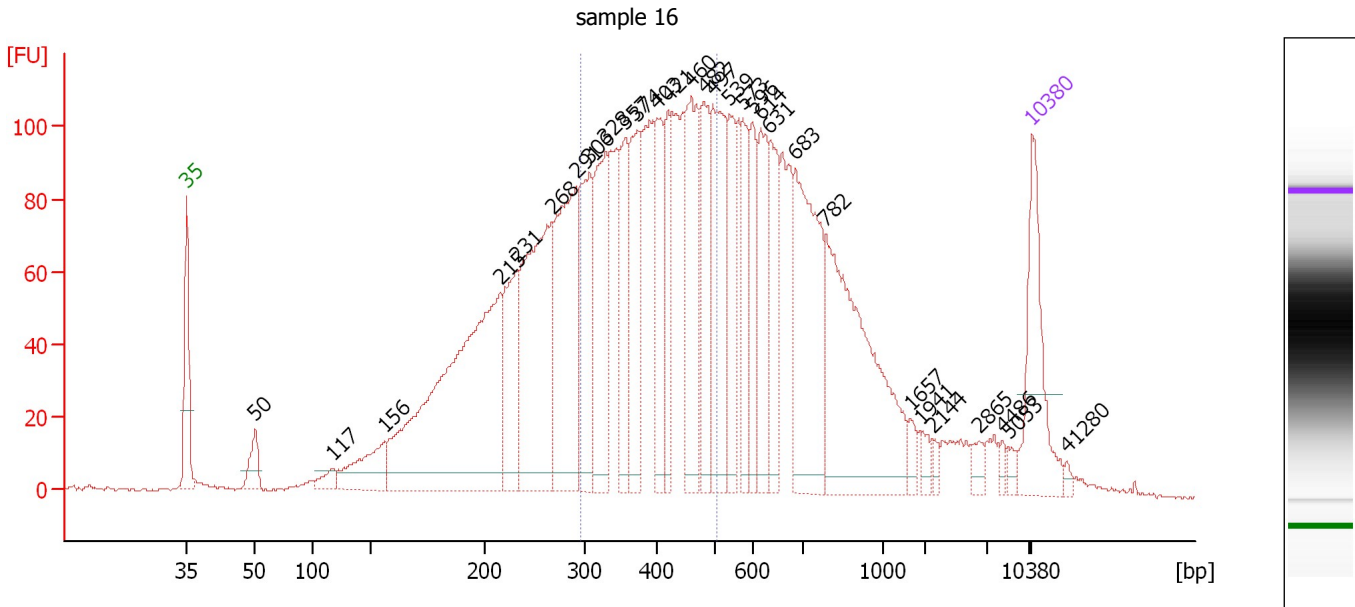
#### Region table for sample 4 : sample 15

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
296	396	503	1,787.9	33	15.0	1,707.63	6,703.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 16**

Number of peaks found: 30                      Corr. Area 1: 1,385.2  
 Noise: 0.4

**Peak table for sample 5 : sample 16**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	31.47	953.9	
3	117	16.08	208.8	
4	156	68.87	668.8	
5	215	472.68	3,327.5	
6	231	113.13	740.9	
7	268	258.22	1,461.6	
8	291	208.15	1,084.7	
9	306	122.00	604.8	
10	328	133.15	614.3	
11	357	82.12	348.6	
12	374	111.66	452.4	
13	403	85.57	321.7	
14	421	65.62	236.3	
15	460	126.38	416.0	
16	482	89.65	281.8	
17	497	140.82	429.3	
18	539	72.43	203.5	
19	573	63.98	169.3	
20	596	56.92	144.7	
21	614	79.55	196.3	
22	631	69.38	166.5	
23	683	175.41	388.9	
24	782	242.21	469.6	
25	1,657	9.95	9.1	
26	1,941	9.43	7.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 : sample 16

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,144	5.39	3.8	
28	2,865	8.97	4.7	
29	4,486	4.97	1.7	
30	5,053	5.23	1.6	
31	10,380	75.00	10.9	Upper Marker
32	41,280	0.00	0.0	

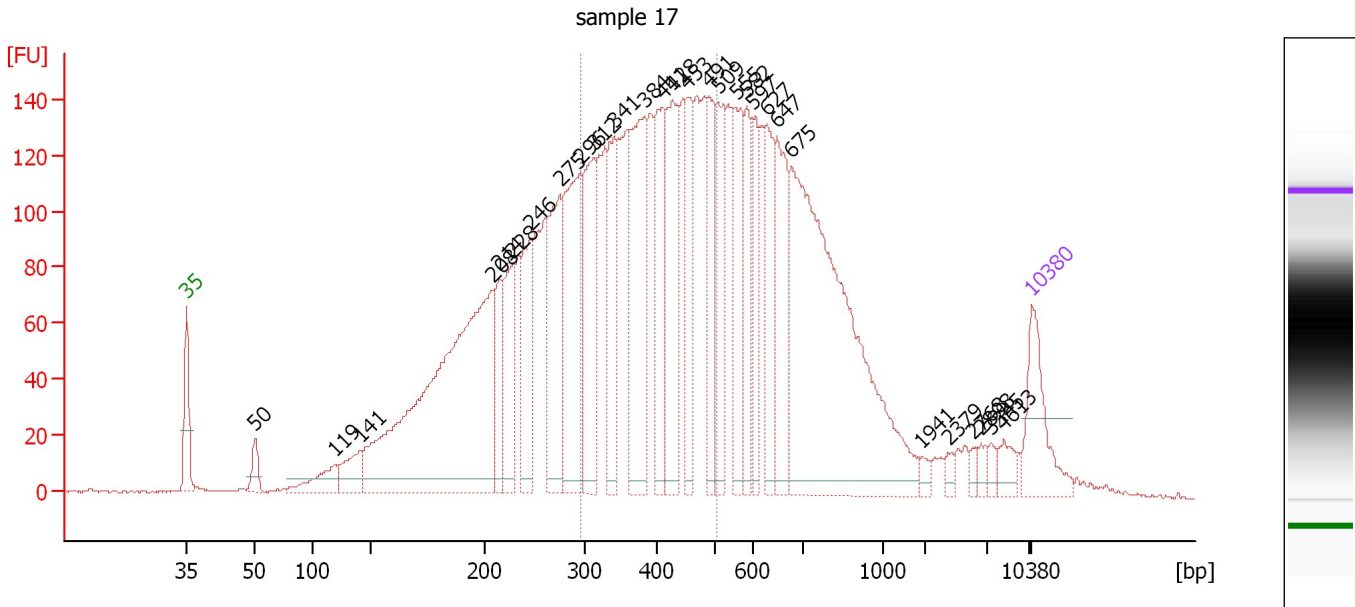
#### Region table for sample 5 : sample 16

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
296	397	504	1,385.2	34	15.0	1,187.76	4,654.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 17**

Number of peaks found: 29      Corr. Area 1: 1,843.3  
 Noise: 0.4

**Peak table for sample 6 : sample 17**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	31.92	967.9	
3	119	54.52	695.9	
4	141	57.55	619.1	
5	208	809.83	5,901.1	
6	214	91.61	647.5	
7	228	120.72	802.8	
8	246	135.97	837.5	
9	275	202.94	1,117.0	
10	296	265.03	1,357.7	
11	312	197.58	958.8	
12	341	149.59	664.4	
13	384	249.70	985.0	
14	411	136.61	503.9	
15	428	185.50	656.8	
16	453	104.91	350.9	
17	491	110.11	339.6	
18	509	137.19	408.1	
19	555	134.56	367.2	
20	582	88.39	230.2	
21	597	84.87	215.5	
22	627	113.71	274.9	
23	647	136.87	320.8	
24	675	673.30	1,512.1	
25	1,941	8.78	6.9	
26	2,379	8.56	5.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 6 : sample 17

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,768	7.89	4.3	
28	2,898	9.91	5.2	
29	3,345	9.43	4.3	
30	4,613	18.47	6.1	
31	10,380	75.00	10.9	Upper Marker

#### Region table for sample 6 : sample 17

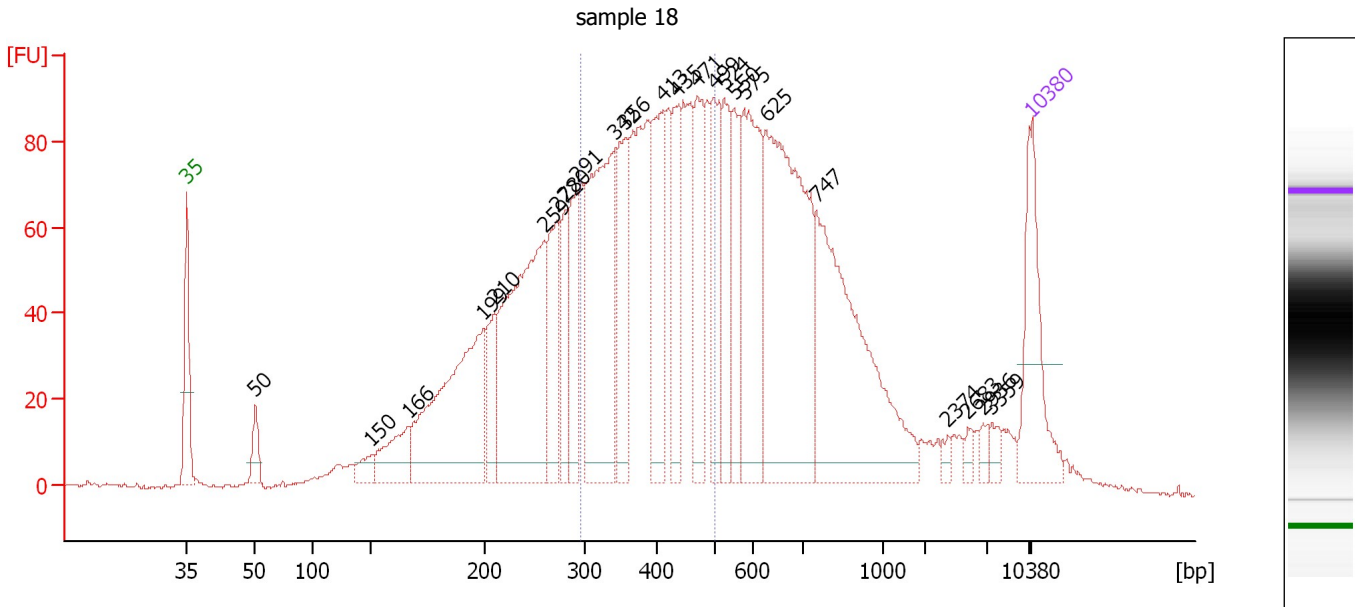
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
296	397	504	1,843.3	34	15.0	1,880.55	7,374.6	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
 Modified: 12/1/2014 12:06:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 18**

Number of peaks found: 24                      Corr. Area 1: 1,159.9  
 Noise: 0.4

**Peak table for sample 7 : sample 18**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	28.76	871.2	
3	150	21.25	214.5	
4	166	61.91	565.2	
5	199	272.36	2,073.6	
6	210	59.29	428.6	
7	259	314.21	1,840.0	
8	272	84.46	470.9	
9	280	64.76	350.4	
10	291	81.20	422.3	
11	342	248.01	1,098.6	
12	356	100.39	427.0	
13	413	108.62	398.7	
14	435	74.65	259.9	
15	471	94.07	302.7	
16	499	92.27	280.0	
17	524	78.90	228.0	
18	550	66.10	182.2	
19	575	154.04	405.7	
20	625	309.42	749.6	
21	747	273.05	553.9	
22	2,374	6.05	3.9	
23	2,683	6.66	3.8	
24	2,936	6.87	3.5	
25	3,359	8.45	3.8	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
Modified: 12/1/2014 12:06:20 PM

**Electropherogram Summary Continued ...**

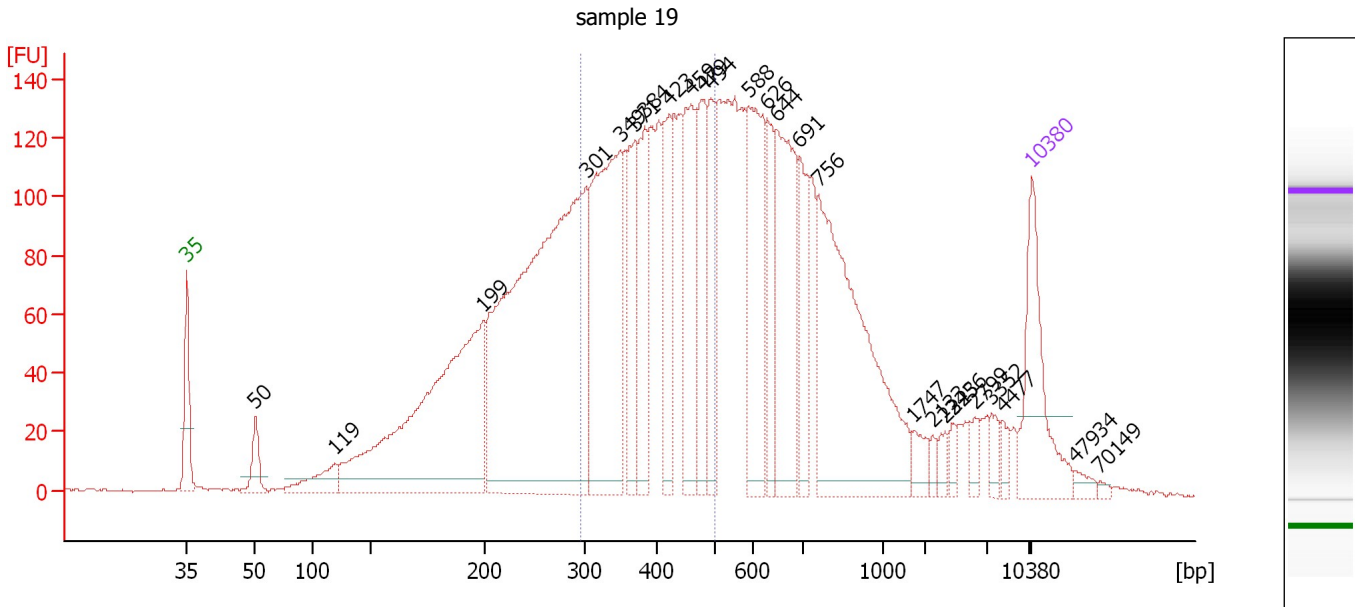
... Region table for sample 7 : sample 18

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Color
296	395	501	1,159.9	35	14.9	1,150.11	4,523.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
 Modified: 12/1/2014 12:06:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 19**

Number of peaks found: 25      Corr. Area 1: 1,662.5  
 Noise: 0.4

**Peak table for sample 8 : sample 19**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	32.24	977.3	
3	119	39.09	499.3	
4	199	438.63	3,334.8	
5	301	673.73	3,391.5	
6	349	268.28	1,163.4	
7	371	95.10	388.8	
8	384	85.42	336.8	
9	423	95.59	342.3	
10	459	121.01	399.2	
11	479	90.95	287.7	
12	494	75.46	231.2	
13	588	143.42	369.8	
14	626	58.06	140.4	
15	644	145.98	343.2	
16	691	62.32	136.6	
17	756	292.58	586.2	
18	1,747	14.65	12.7	
19	2,133	6.01	4.3	
20	2,323	8.19	5.3	
21	2,456	7.68	4.7	
22	2,799	8.25	4.5	
23	3,352	10.87	4.9	
24	4,477	7.69	2.6	
25	10,380	75.00	10.9	Upper Marker
26	47,934	0.00	0.0	


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
Modified: 12/1/2014 12:06:20 PM

**Electropherogram Summary Continued ...****... Peak table for sample 8 :**      sample 19

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	70,149	0.00	0.0	

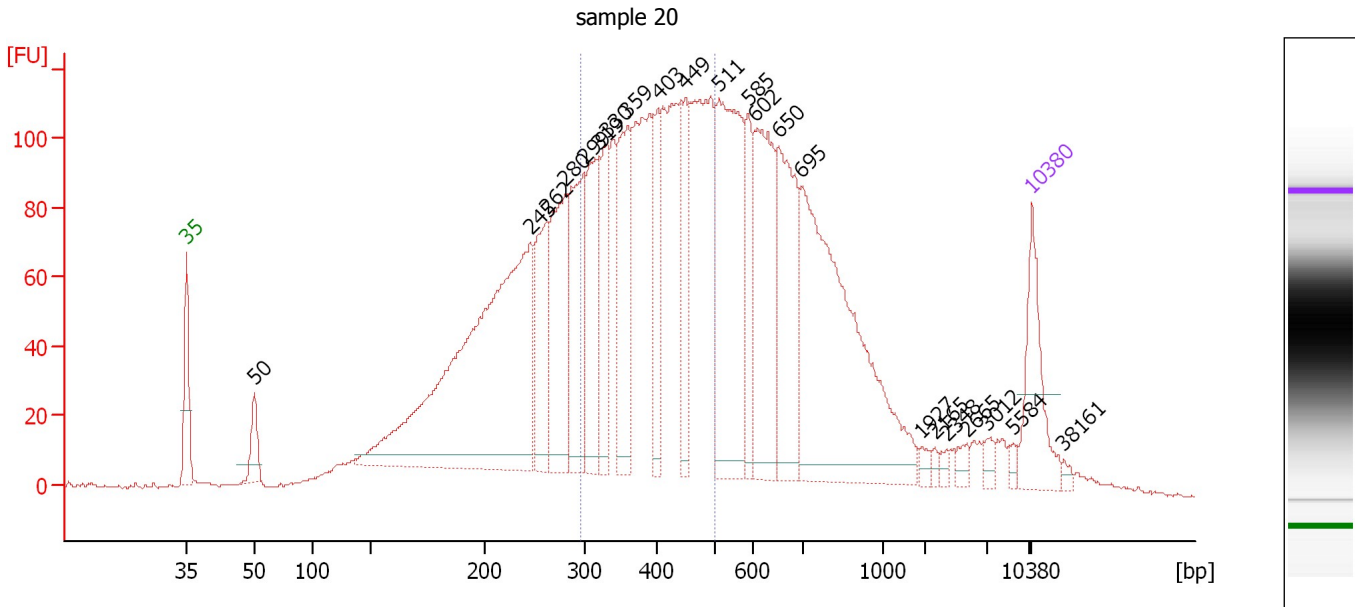
**Region table for sample 8 :**      sample 19

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
296	397	502	1,662.5	33	14.9	1,117.00	4,375.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
 Modified: 12/1/2014 12:06:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 20**

Number of peaks found: 22                      Corr. Area 1: 1,455.5  
 Noise: 0.5

**Peak table for sample 9 : sample 20**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	46.93	1,429.6	
3	245	745.42	4,607.2	
4	262	143.21	829.6	
5	280	188.33	1,019.9	
6	299	171.30	867.3	
7	319	150.05	713.4	
8	330	93.50	429.5	
9	359	166.12	701.1	
10	403	85.05	319.5	
11	449	85.34	287.8	
12	511	295.51	875.6	
13	585	81.11	210.0	
14	602	189.04	476.1	
15	650	178.25	415.4	
16	695	453.77	988.9	
17	1,927	7.47	5.9	
18	2,165	4.89	3.4	
19	2,348	6.22	4.0	
20	2,665	9.51	5.4	
21	3,012	8.71	4.4	
22	5,584	7.04	1.9	
23	10,380	75.00	10.9	Upper Marker
24	38,161	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
Modified: 12/1/2014 12:06:20 PM

**Electropherogram Summary Continued ...**

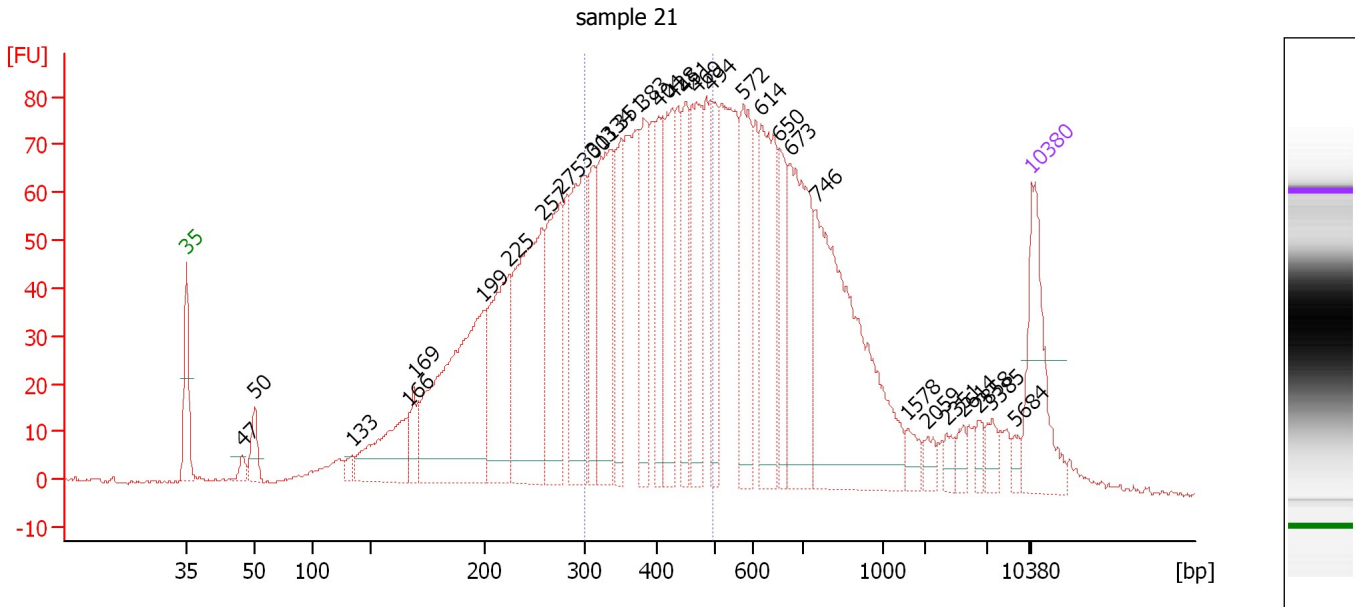
... Region table for sample 9 : sample 20

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Color
295	395	501	1,455.5	35	15.1	1,528.78	6,031.6	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
 Modified: 12/1/2014 12:06:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : sample 21**

Number of peaks found: 31                      Corr. Area 1: 976.3  
 Noise: 0.4

**Peak table for sample 10 : sample 21**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	12.14	390.6	
3	50	31.97	973.2	
4	133	10.08	114.8	
5	166	103.61	943.1	
6	169	28.82	259.0	
7	199	308.94	2,350.3	
8	225	156.87	1,058.5	
9	257	246.03	1,449.7	
10	275	151.87	836.8	
11	300	149.88	756.3	
12	311	71.42	348.3	
13	334	153.37	695.5	
14	351	76.98	332.7	
15	383	82.34	326.0	
16	404	75.22	281.9	
17	428	96.58	342.3	
18	451	70.17	235.9	
19	469	112.36	363.2	
20	494	74.32	227.9	
21	572	98.09	259.8	
22	614	127.72	315.4	
23	650	60.19	140.2	
24	673	155.65	350.6	
25	746	287.54	584.2	
26	1,578	14.26	13.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad


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 Modified: 12/1/2014 12:06:20 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 10 : sample 21**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,059	9.52	7.0	
28	2,351	9.10	5.9	
29	2,614	9.07	5.3	
30	2,858	8.39	4.4	
31	3,385	12.10	5.4	
32	5,684	6.84	1.8	
33	10,380	75.00	10.9	Upper Marker

**Region table for sample 10 : sample 21**

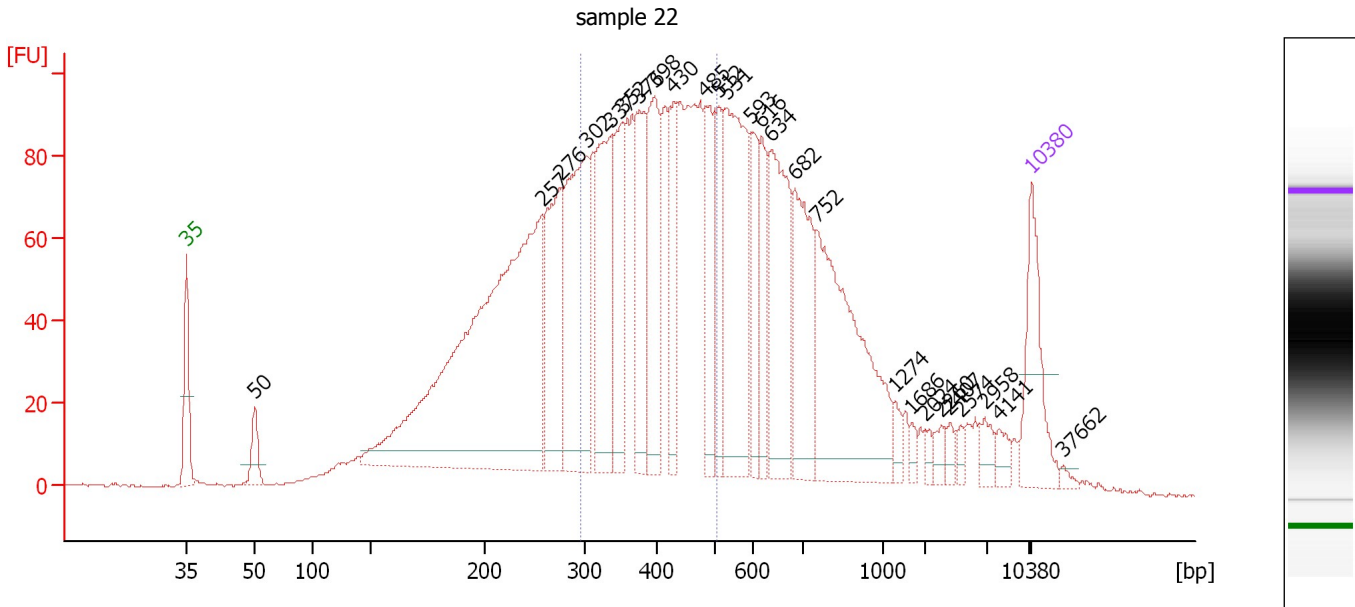
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
301	397	498	976.3	32	14.3	1,138.63	4,445.3	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 22**

Number of peaks found: 26                      Corr. Area 1: 1,232.0  
 Noise: 0.4

**Peak table for sample 11 : sample 22**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	37.97	1,152.6	
3	257	806.60	4,758.9	
4	276	186.89	1,025.8	
5	302	267.80	1,343.0	
6	337	175.71	789.6	
7	352	131.92	567.7	
8	376	119.10	480.3	
9	398	142.55	542.0	
10	430	82.76	291.5	
11	485	97.68	305.4	
12	512	83.30	246.6	
13	531	237.54	678.3	
14	593	70.05	178.9	
15	616	62.65	154.1	
16	634	171.05	408.5	
17	682	141.39	314.3	
18	752	286.05	576.3	
19	1,274	13.74	16.3	
20	1,686	7.94	7.1	
21	2,024	7.46	5.6	
22	2,260	10.56	7.1	
23	2,407	9.22	5.8	
24	2,574	7.40	4.4	
25	2,958	15.59	8.0	
26	4,141	12.38	4.5	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
Modified: 12/1/2014 12:06:20 PM

**Electropherogram Summary Continued ...****... Peak table for sample 11 : sample 22**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	10,380	75.00	10.9	Upper Marker
28	37,662	0.00	0.0	

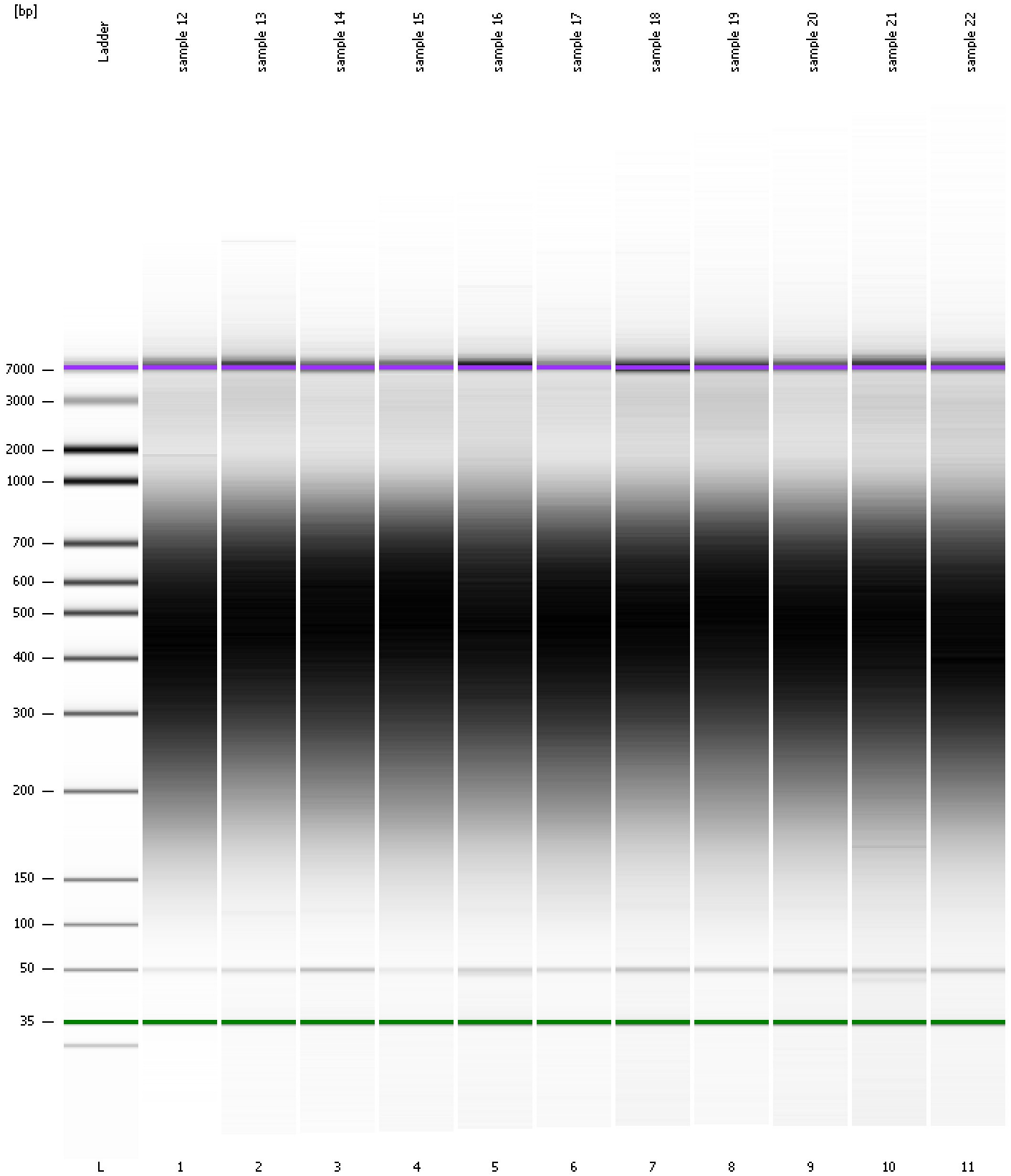
**Region table for sample 11 : sample 22**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
296	396	506	1,232.0	35	15.1	1,473.87	5,797.9	■

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
Modified: 12/1/2014 12:06:20 PM

**Gel Image**

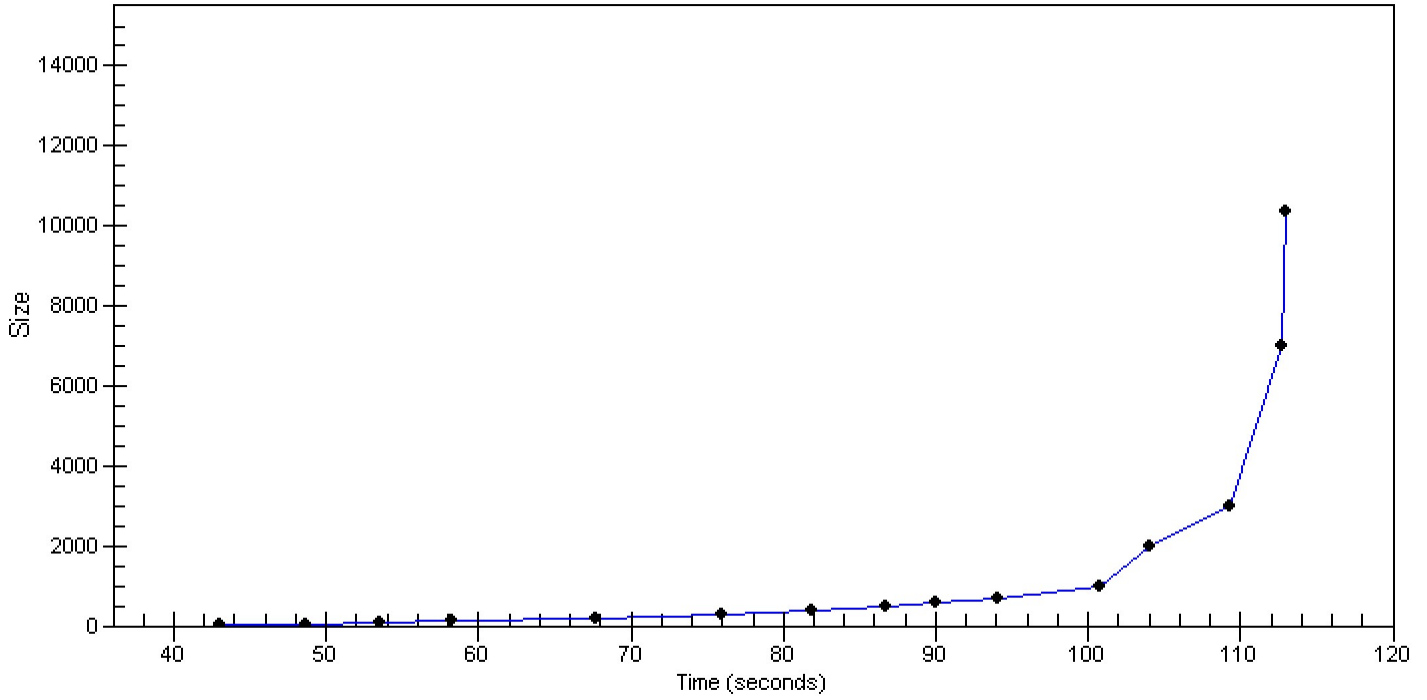


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
Modified: 12/1/2014 12:06:20 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-01\2014-12-01\_002.xad

Created: 12/1/2014 11:22:01 AM  
 Modified: 12/1/2014 12:06:20 PM

**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		12/1/2014 12:02:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-12-01\2014-12-01_002.xad)		Instrument	Run		12/1/2014 11:22:06 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/1/2014 11:22:06 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/1/2014 11:22:06 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/1/2014 11:22:06 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/1/2014 11:22:06 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/1/2014 11:22:06 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/1/2014 11:22:06 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1