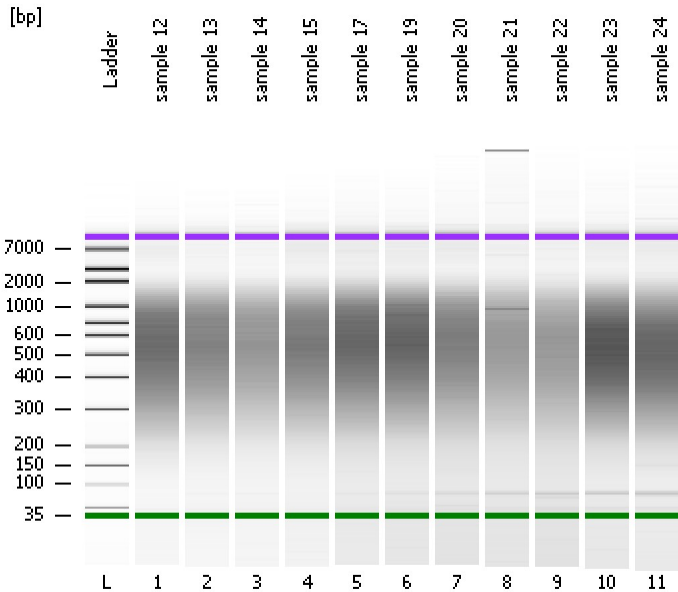


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
Modified: 11/16/2015 2:39:39 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

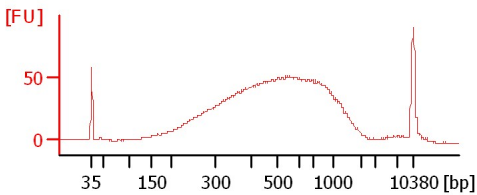
Assay Information:

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

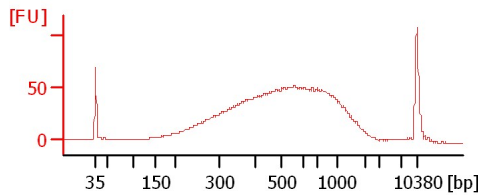
Chip Information:

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

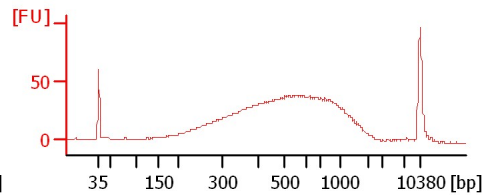
sample 12



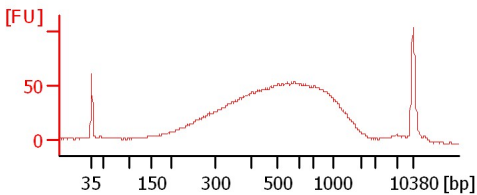
sample 13



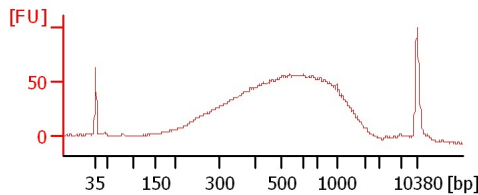
sample 14



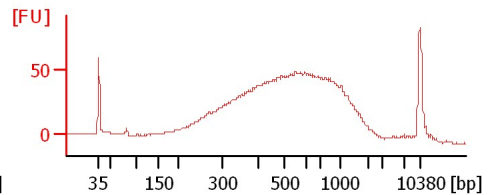
sample 15



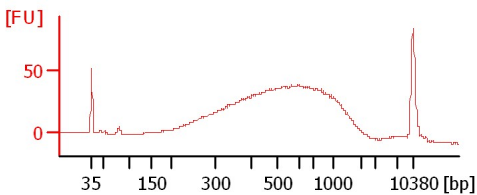
sample 17



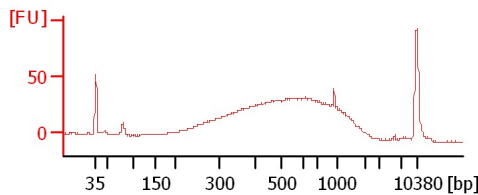
sample 19



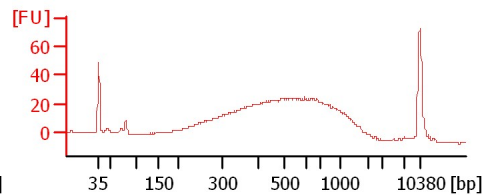
sample 20



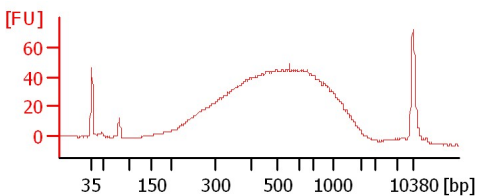
sample 21



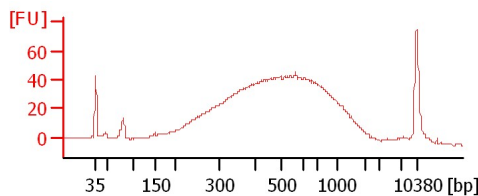
sample 22



sample 23



sample 24



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
 Modified: 11/16/2015 2:39:39 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 17		<input type="checkbox"/>	✓			
sample 19		<input type="checkbox"/>	✓			
sample 20		<input type="checkbox"/>	✓			
sample 21		<input type="checkbox"/>	✓			
sample 22		<input type="checkbox"/>	✓			
sample 23		<input type="checkbox"/>	✓			
sample 24		<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\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
 Modified: 11/16/2015 2:39:39 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

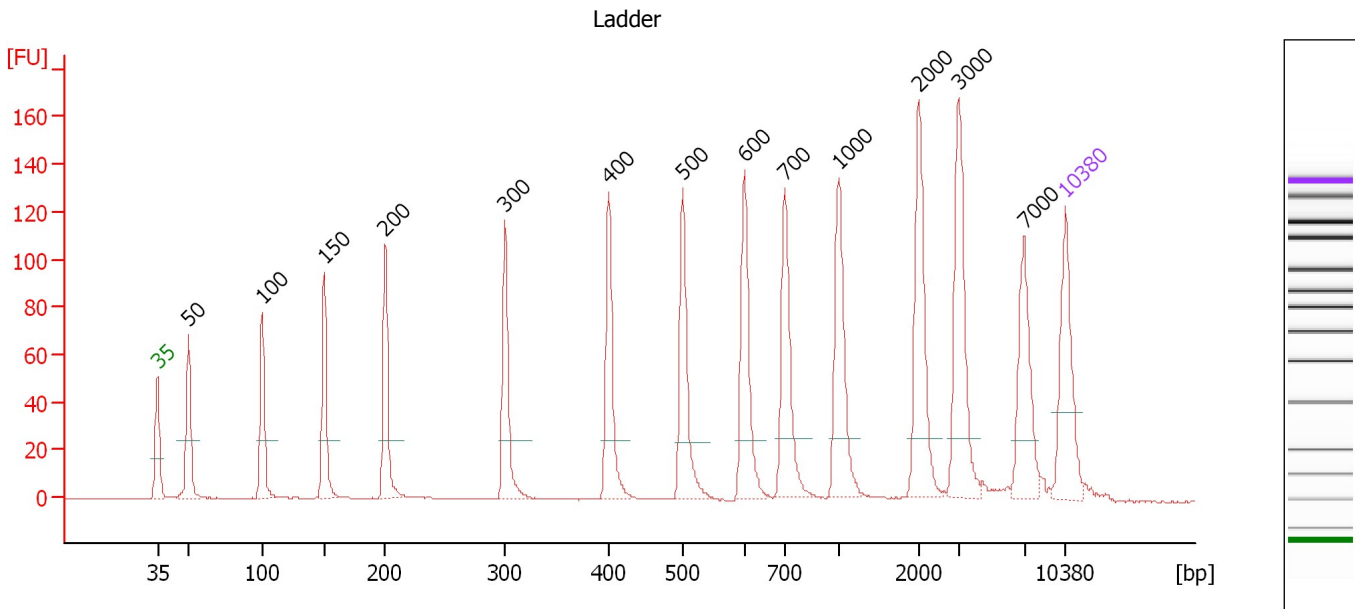
**Ladder**

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\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
 Modified: 11/16/2015 2:39:39 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

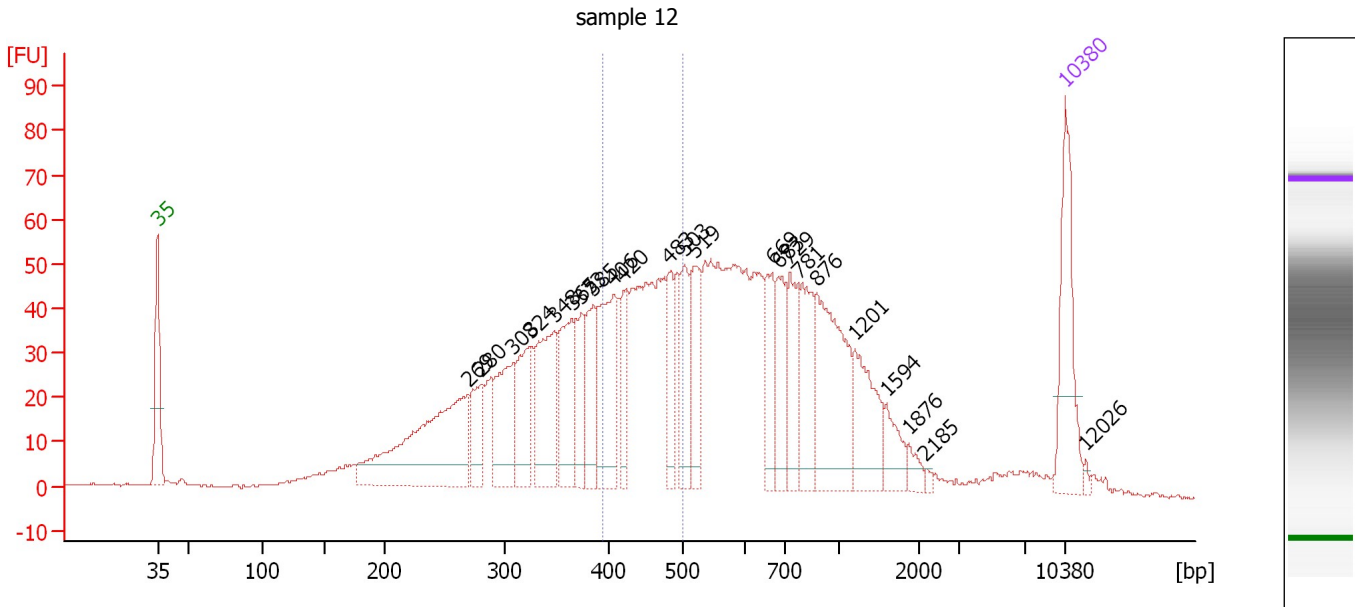
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.41
3	100	150.00	2,272.7	Ladder Peak	51.05
4	150	150.00	1,515.2	Ladder Peak	55.83
5	200	150.00	1,136.4	Ladder Peak	60.56
6	300	150.00	757.6	Ladder Peak	69.79
7	400	150.00	568.2	Ladder Peak	77.80
8	500	150.00	454.5	Ladder Peak	83.48
9	600	150.00	378.8	Ladder Peak	88.26
10	700	150.00	324.7	Ladder Peak	91.35
11	1,000	150.00	227.3	Ladder Peak	95.53
12	2,000	150.00	113.6	Ladder Peak	101.67
13	3,000	150.00	75.8	Ladder Peak	104.72
14	7,000	150.00	32.5	Ladder Peak	109.82
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

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 Modified: 11/16/2015 2:39:39 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 23                      Corr. Area 1: 365.6  
 Noise: 0.2

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	269	242.39	1,364.5		66.94
3	280	52.27	282.8		67.94
4	308	93.49	459.5		70.45
5	324	75.06	350.8		71.73
6	348	108.51	473.0		73.60
7	365	89.46	371.7		74.97
8	373	50.94	206.8		75.65
9	385	57.95	227.9		76.61
10	406	103.88	387.3		78.16
11	420	43.87	158.2		78.93
12	483	45.79	143.7		82.49
13	503	60.01	180.7		83.63
14	519	65.96	192.4		84.41
15	669	56.87	128.9		90.38
16	683	56.29	124.8		90.84
17	729	54.45	113.2		91.75
18	781	69.97	135.7		92.48
19	876	137.39	237.7		93.80
20	1,201	67.67	85.4		96.77
21	1,594	26.79	25.5		99.18
22	1,876	10.00	8.1		100.92
23	2,185	2.93	2.0		102.24
24	10,380	75.00	10.9	Upper Marker	113.00
25	12,026	0.00	0.0		114.55

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
Modified: 11/16/2015 2:39:39 PM

**Electropherogram Summary Continued ...**

... Region table for sample 1 :

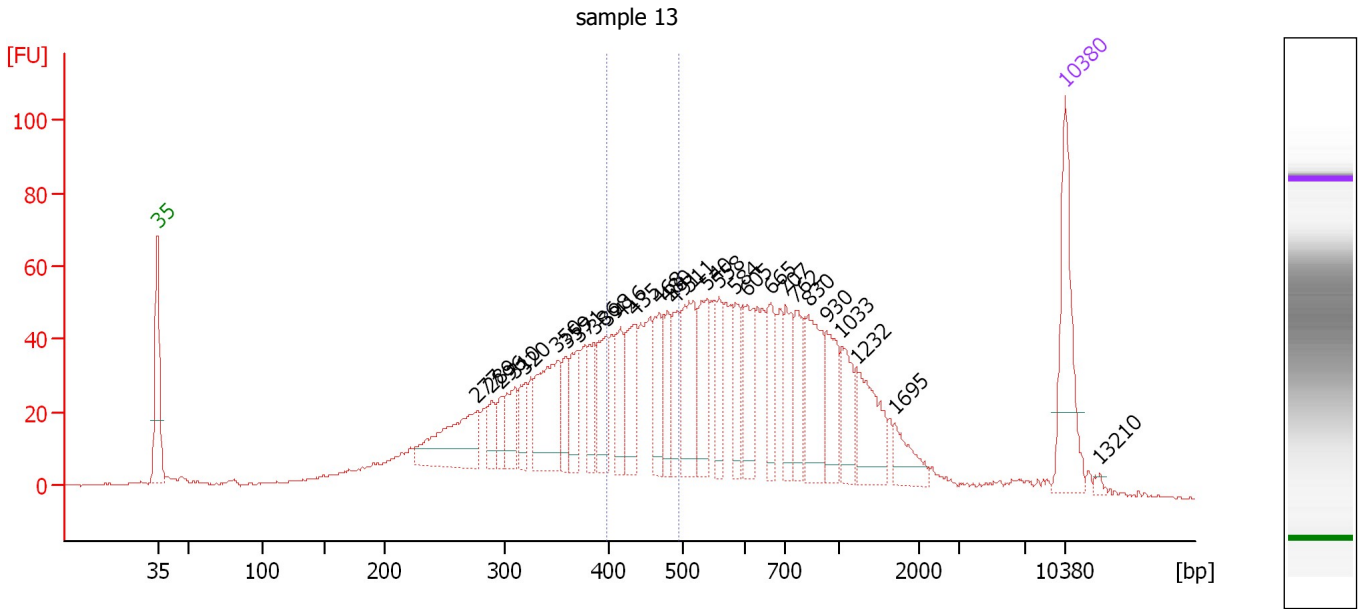
sample 12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
394	501	447	365.6	1,607.9	473.90	19	7.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
 Modified: 11/16/2015 2:39:39 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 29                      Corr. Area 1: 322.7  
 Noise: 0.2

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	277	99.81	545.8		67.67
3	289	25.19	132.1		68.76
4	296	20.67	105.8		69.44
5	310	38.81	189.5		70.61
6	320	27.00	127.9		71.38
7	350	95.20	411.7		73.82
8	359	28.49	120.3		74.50
9	371	40.56	165.8		75.45
10	386	30.43	119.5		76.67
11	398	52.45	199.5		77.66
12	416	42.31	154.1		78.70
13	435	55.65	193.9		79.79
14	468	45.64	147.9		81.64
15	480	35.23	111.3		82.32
16	491	35.26	108.9		82.95
17	511	80.23	238.1		83.99
18	540	51.35	144.1		85.39
19	558	37.35	101.4		86.25
20	584	32.71	84.8		87.51
21	605	48.69	121.9		88.42
22	665	41.66	94.9		90.27
23	707	40.85	87.6		91.44
24	762	36.93	73.4		92.21
25	830	68.75	125.5		93.16

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
 Modified: 11/16/2015 2:39:39 PM

### Electropherogram Summary Continued ...

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	930	44.94	73.2		94.56
27	1,033	36.17	53.0		95.74
28	1,232	54.78	67.4		96.96
29	1,695	23.85	21.3		99.80
30	10,380	75.00	10.9	Upper Marker	113.00
31	13,210	0.00	0.0		115.67

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

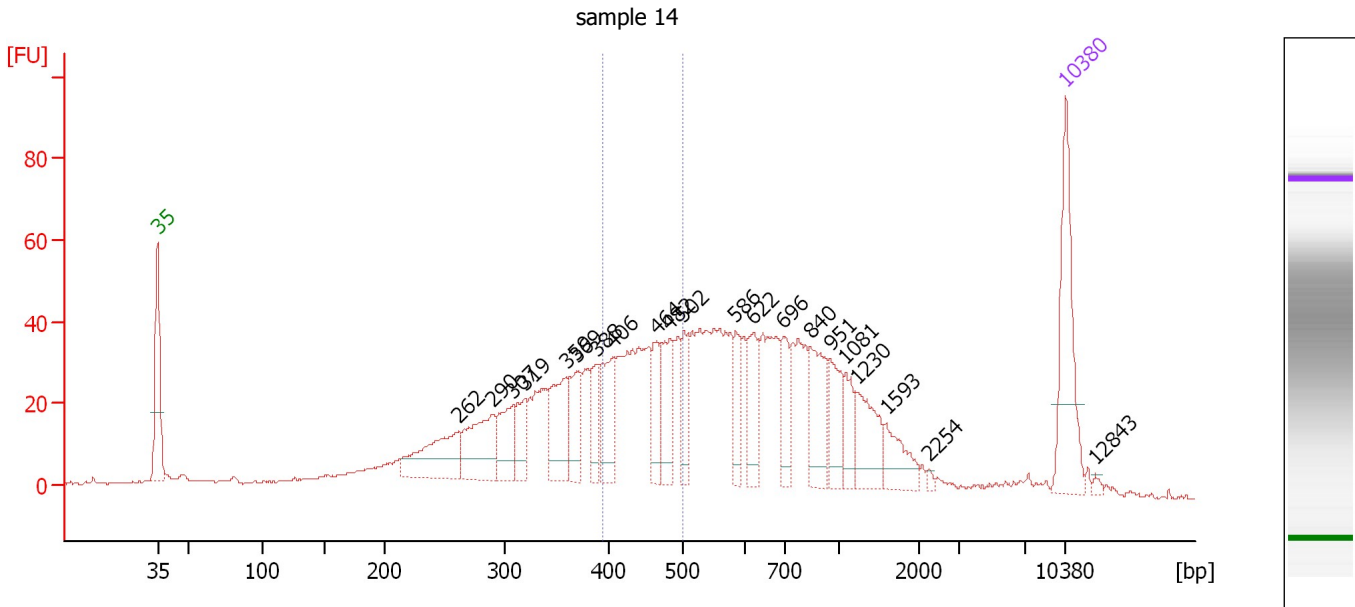
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
399	494	446	322.7	1,198.9	352.99	16	6.3



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

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 Modified: 11/16/2015 2:39:39 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 21                      Corr. Area 1: 274.8  
 Noise: 0.2

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


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	262	81.21	469.5		66.29
3	290	74.80	391.3		68.83
4	307	43.30	213.4		70.38
5	319	34.20	162.3		71.34
6	359	63.82	269.7		74.47
7	369	44.11	181.2		75.29
8	388	31.15	121.6		76.84
9	406	52.47	196.0		78.11
10	464	34.71	113.4		81.43
11	482	48.80	153.3		82.48
12	502	31.35	94.6		83.57
13	586	27.86	72.1		87.57
14	622	41.62	101.4		88.94
15	696	32.91	71.7		91.21
16	840	55.39	99.9		93.31
17	951	34.98	55.7		94.85
18	1,081	23.73	33.2		96.03
19	1,230	43.86	54.0		96.94
20	1,593	28.36	27.0		99.17
21	2,254	2.57	1.7		102.45
22	10,380	75.00	10.9	Upper Marker	113.00
23	12,843	0.00	0.0		115.32

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
Modified: 11/16/2015 2:39:39 PM

**Electropherogram Summary Continued ...**

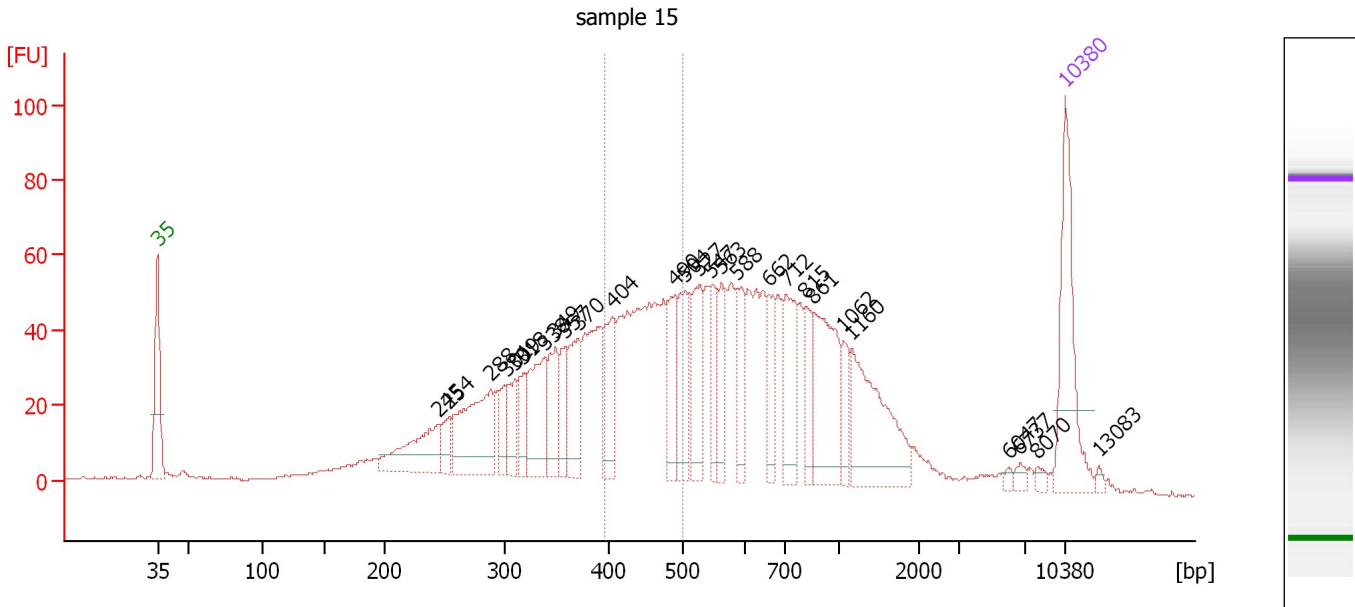
... Region table for sample 3 : sample 14

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
395	501	447	274.8	1,108.8	 326.92	18	7.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 27                      Corr. Area 1: 367.8  
 Noise: 0.2

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	245	72.17	446.3		64.71
3	254	18.60	111.1		65.50
4	288	106.46	559.8		68.69
5	301	23.61	118.7		69.90
6	309	31.99	156.6		70.55
7	318	27.92	133.2		71.19
8	338	69.53	311.3		72.86
9	349	45.64	198.3		73.69
10	357	30.17	127.9		74.39
11	370	52.14	213.4		75.41
12	404	56.30	210.9		78.05
13	490	47.82	147.9		82.91
14	504	53.90	161.9		83.69
15	527	56.22	161.7		84.76
16	547	36.04	99.8		85.73
17	563	35.05	94.4		86.47
18	588	38.84	100.1		87.68
19	662	34.64	79.3		90.18
20	712	56.08	119.3		91.52
21	815	30.37	56.5		92.95
22	861	90.86	159.8		93.60
23	1,062	21.68	30.9		95.92
24	1,160	95.13	124.2		96.52
25	6,047	3.07	0.8		108.60

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
 Modified: 11/16/2015 2:39:39 PM

### Electropherogram Summary Continued ...

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,737	4.65	1.0		109.48
27	8,070	4.22	0.8		110.82
28	10,380	75.00	10.9	Upper Marker	113.00
29	13,083	0.00	0.0		115.55

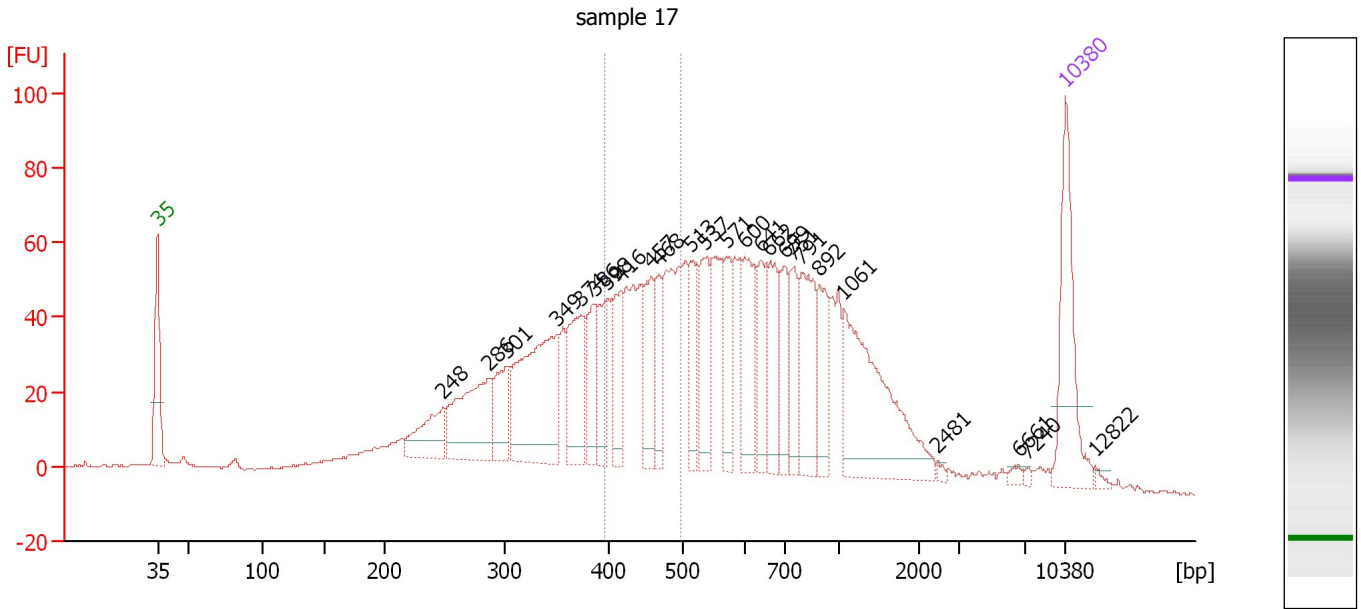
#### Region table for sample 4 : sample 15

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
396	501	448	367.8	1,272.2	375.67	18	6.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

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 Modified: 11/16/2015 2:39:39 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 17**

Number of peaks found: 25                      Corr. Area 1: 395.1  
 Noise: 0.3

**Peak table for sample 5 : sample 17**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	248	54.54	333.5		64.97
3	286	112.28	594.9		68.49
4	301	52.66	265.3		69.85
5	349	165.63	718.1		73.75
6	374	82.08	333.0		75.68
7	386	48.67	191.1		76.66
8	398	46.55	177.1		77.65
9	416	51.28	187.0		78.68
10	457	53.82	178.5		81.03
11	468	39.61	128.1		81.69
12	513	44.19	130.6		84.08
13	537	61.50	173.5		85.25
14	571	41.68	110.7		86.85
15	600	64.96	164.0		88.26
16	641	44.99	106.3		89.53
17	662	58.66	134.2		90.18
18	699	38.76	84.0		91.31
19	751	42.60	85.9		92.06
20	791	75.42	144.4		92.62
21	892	42.54	72.2		94.03
22	1,061	152.54	217.8		95.91
23	2,481	2.24	1.4		103.14
24	6,661	3.93	0.9		109.38
25	7,240	1.93	0.4		110.04

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

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 Modified: 11/16/2015 2:39:39 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 : sample 17

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00
27	12,822	0.00	0.0		115.30

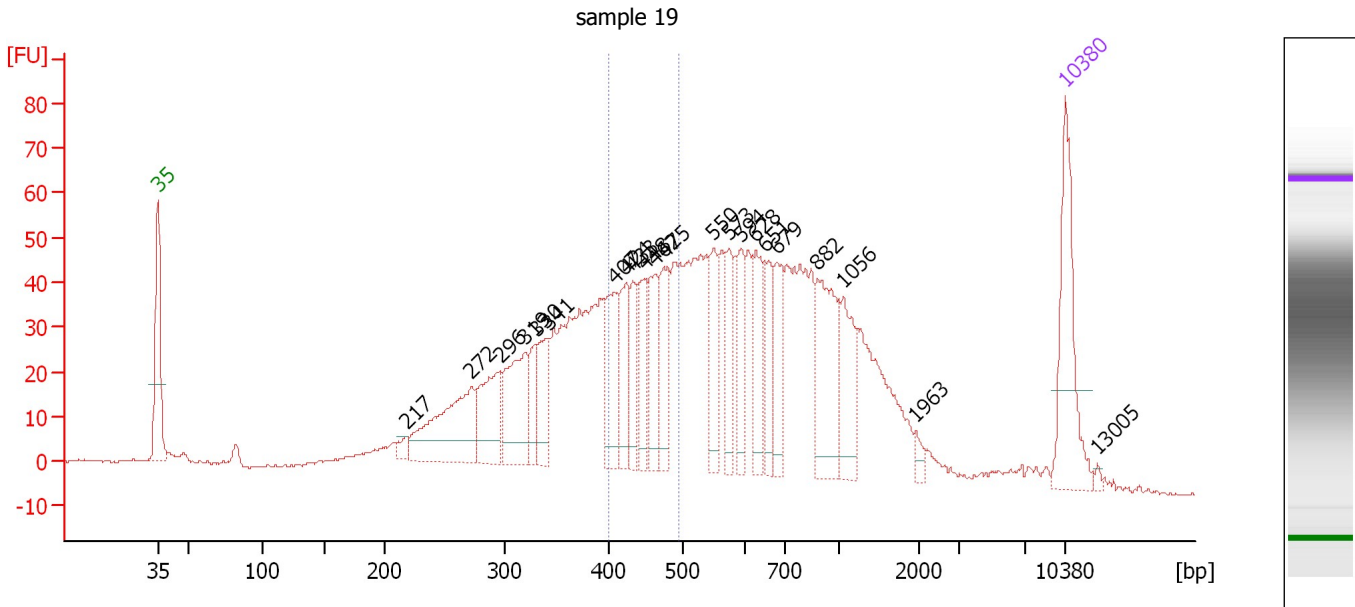
#### Region table for sample 5 : sample 17

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
396	499	448	395.1	1,371.5	404.96	18	6.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 19**

Number of peaks found: 22                      Corr. Area 1: 310.1  
 Noise: 0.3

**Peak table for sample 6 : sample 19**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	217	8.53	59.4		62.16
3	272	116.11	646.8		67.21
4	296	69.11	354.1		69.39
5	319	86.01	408.0		71.34
6	330	33.64	154.4		72.20
7	341	44.11	195.8		73.10
8	407	64.77	241.2		78.19
9	424	52.15	186.5		79.14
10	433	38.42	134.5		79.66
11	448	44.58	150.8		80.52
12	462	51.18	167.8		81.33
13	475	49.61	158.3		82.04
14	550	43.46	119.8		85.85
15	573	38.86	102.7		86.99
16	594	43.61	111.2		87.99
17	628	51.24	123.6		89.13
18	651	36.27	84.4		89.84
19	679	47.14	105.2		90.70
20	882	89.22	153.3		93.88
21	1,056	50.94	73.1		95.88
22	1,963	7.06	5.5		101.44
23	10,380	75.00	10.9	Upper Marker	113.00
24	13,005	0.00	0.0		115.47


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
Modified: 11/16/2015 2:39:39 PM

**Electropherogram Summary Continued ...**

... Region table for sample 6 :

sample 19

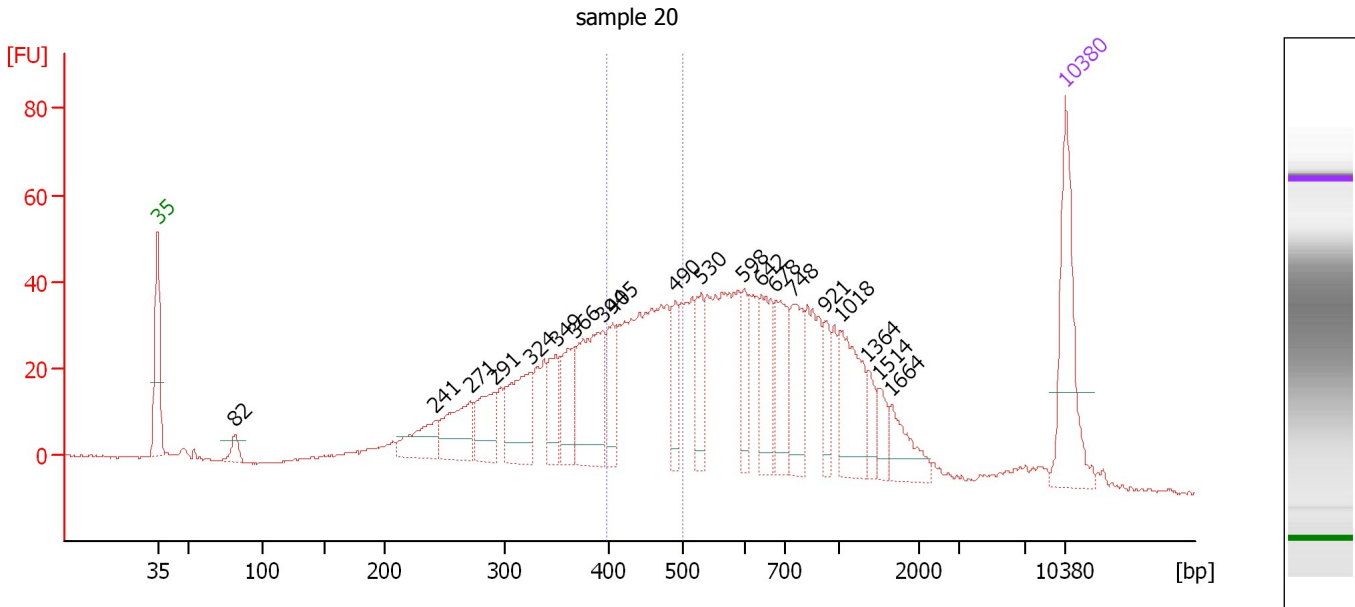
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
400	496	449	310.1	1,237.3	 366.22	17	6.3



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
 Modified: 11/16/2015 2:39:39 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 20**

Number of peaks found: 20                      Corr. Area 1: 270.9  
 Noise: 0.3

**Peak table for sample 7 : sample 20**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	82	14.31	265.1		48.99
3	241	42.34	265.9		64.37
4	271	57.09	319.1		67.12
5	291	47.45	247.1		68.96
6	324	72.34	338.2		71.72
7	349	34.81	150.9		73.75
8	366	45.91	189.9		75.10
9	394	101.22	389.1		77.32
10	405	38.35	143.4		78.10
11	490	32.64	100.9		82.93
12	530	37.54	107.3		84.91
13	598	30.61	77.6		88.15
14	642	57.01	134.6		89.55
15	678	53.77	120.2		90.67
16	748	49.45	100.2		92.02
17	921	24.53	40.3		94.44
18	1,018	63.71	94.8		95.65
19	1,364	16.27	18.1		97.77
20	1,514	15.00	15.0		98.69
21	1,664	27.74	25.3		99.61
22	10,380	75.00	10.9	Upper Marker	113.00


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
Modified: 11/16/2015 2:39:39 PM

**Electropherogram Summary Continued ...**

... Region table for sample 7 :

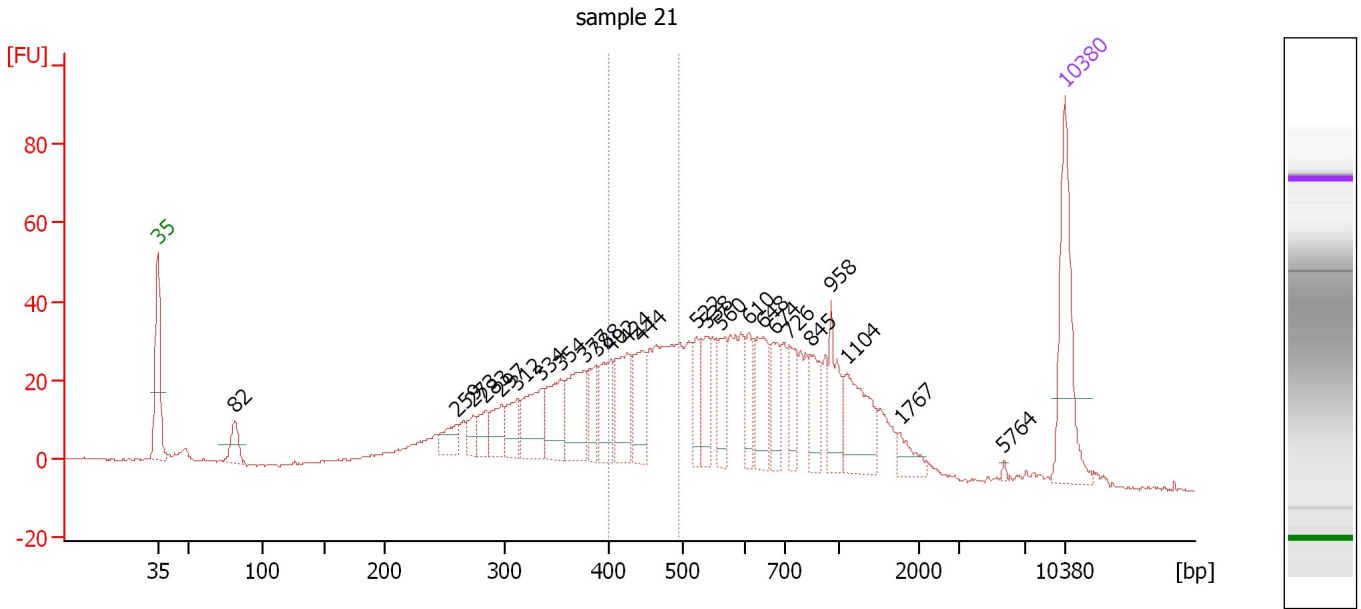
sample 20

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
399	501	451	270.9	1,031.1	 306.55	18	6.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 21**

Number of peaks found: 25                      Corr. Area 1: 202.6  
 Noise: 0.2

**Peak table for sample 8 : sample 21**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	82	27.09	502.5		48.98
3	259	21.56	126.1		66.01
4	273	15.26	84.6		67.33
5	283	19.18	102.5		68.26
6	297	26.83	137.0		69.49
7	312	29.35	142.4		70.76
8	334	50.05	226.9		72.53
9	354	47.89	205.1		74.10
10	377	60.25	242.1		75.96
11	388	25.64	100.2		76.80
12	402	37.72	142.0		77.93
13	424	51.46	184.0		79.15
14	444	45.03	153.7		80.28
15	522	28.09	81.5		84.55
16	538	30.10	84.8		85.28
17	560	35.50	96.0		86.36
18	610	26.29	65.3		88.57
19	648	43.83	102.4		89.75
20	674	31.16	70.1		90.53
21	726	25.97	54.2		91.71
22	845	30.43	54.5		93.38
23	958	39.31	62.2		94.95
24	1,104	56.65	77.7		96.17
25	1,767	14.88	12.8		100.25

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

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Modified: 11/16/2015 2:39:39 PM

**Electropherogram Summary Continued ...****... Peak table for sample 8 : sample 21**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	5,764	1.53	0.4		108.24
27	10,380	75.00	10.9	Upper Marker	113.00

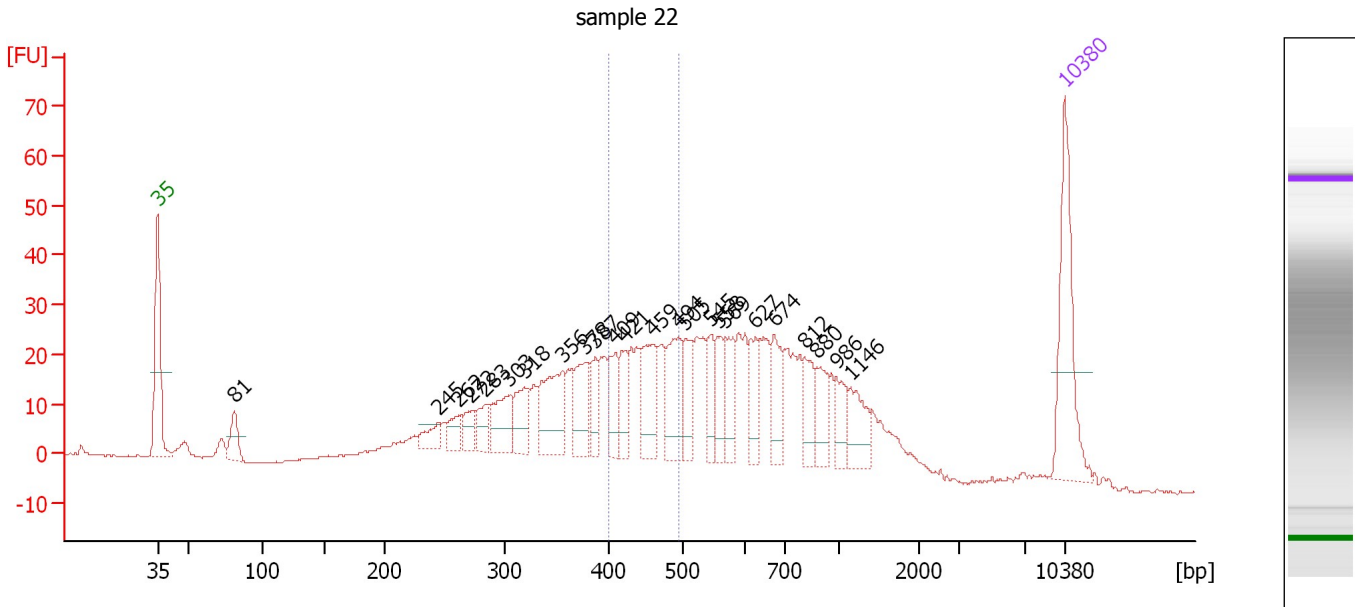
**Region table for sample 8 : sample 21**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
401	496	449	202.6	811.8	240.53	18	6.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 22**

Number of peaks found: 24                      Corr. Area 1: 171.9  
 Noise: 0.2

**Peak table for sample 9 : sample 22**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	81	27.12	505.7		48.94
3	245	18.53	114.8		64.67
4	262	17.51	101.4		66.25
5	272	16.18	90.2		67.19
6	283	20.24	108.3		68.23
7	303	41.91	209.3		70.06
8	318	35.96	171.2		71.25
9	356	63.97	272.3		74.27
10	378	43.87	176.1		76.00
11	387	23.78	93.1		76.74
12	409	27.86	103.1		78.32
13	421	26.75	96.4		78.96
14	459	49.87	164.7		81.14
15	494	57.08	175.2		83.12
16	505	30.64	91.9		83.71
17	545	27.82	77.3		85.64
18	558	27.30	74.2		86.24
19	569	28.72	76.5		86.78
20	627	31.15	75.2		89.11
21	674	34.23	77.0		90.54
22	812	26.20	48.9		92.92
23	880	24.78	42.7		93.86
24	986	20.31	31.2		95.34
25	1,146	30.01	39.7		96.43

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
Modified: 11/16/2015 2:39:39 PM

**Electropherogram Summary Continued ...****... Peak table for sample 9 : sample 22**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

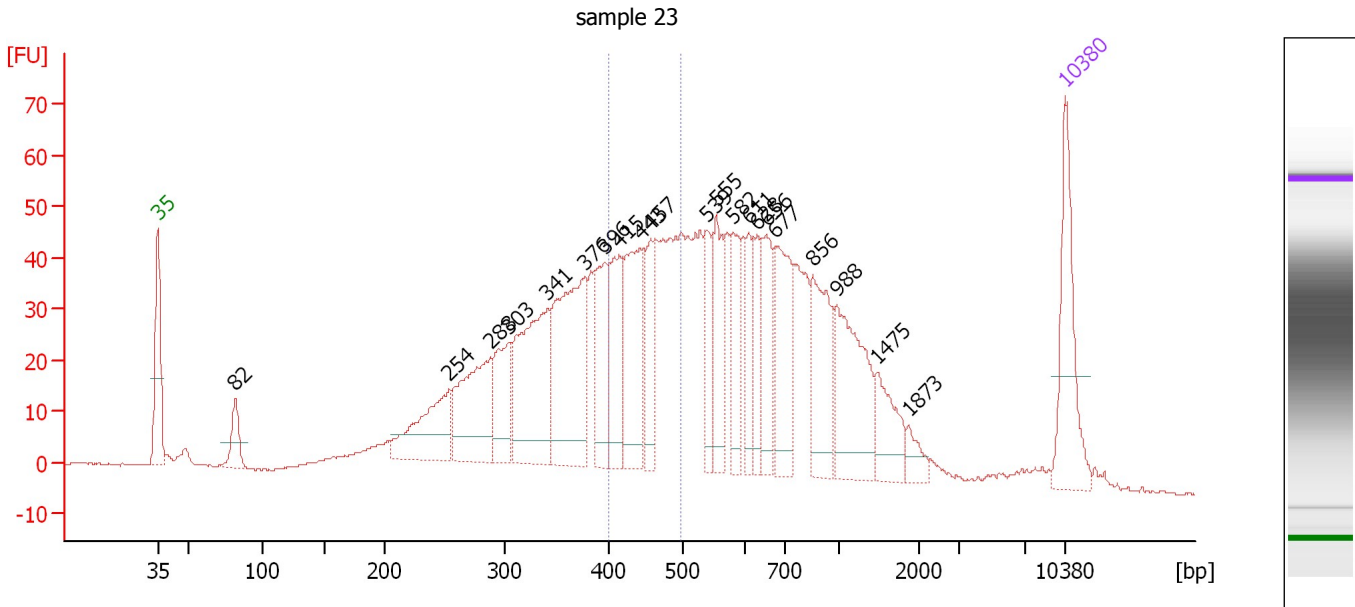
**Region table for sample 9 : sample 22**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
400	496	448	171.9	842.1	249.17	17	6.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : sample 23**

Number of peaks found: 21                      Corr. Area 1: 305.5  
 Noise: 0.1

**Peak table for sample 10 : sample 23**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	82	35.08	651.2		48.98
3	254	94.65	565.1		65.52
4	288	123.86	652.2		68.66
5	303	70.70	353.2		70.05
6	341	161.13	716.7		73.04
7	376	175.25	706.0		75.88
8	396	72.90	278.9		77.48
9	415	77.74	284.1		78.62
10	443	111.20	380.7		80.22
11	457	51.88	172.2		81.01
12	539	46.65	131.1		85.35
13	555	63.70	174.0		86.10
14	582	50.32	131.0		87.39
15	611	42.42	105.2		88.59
16	628	42.42	102.3		89.14
17	656	55.21	127.6		89.98
18	677	92.33	206.7		90.63
19	856	84.88	150.3		93.52
20	988	104.57	160.4		95.36
21	1,475	42.06	43.2		98.45
22	1,873	14.11	11.4		100.89
23	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

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**Electropherogram Summary Continued ...**

... Region table for sample 10 :

sample 23

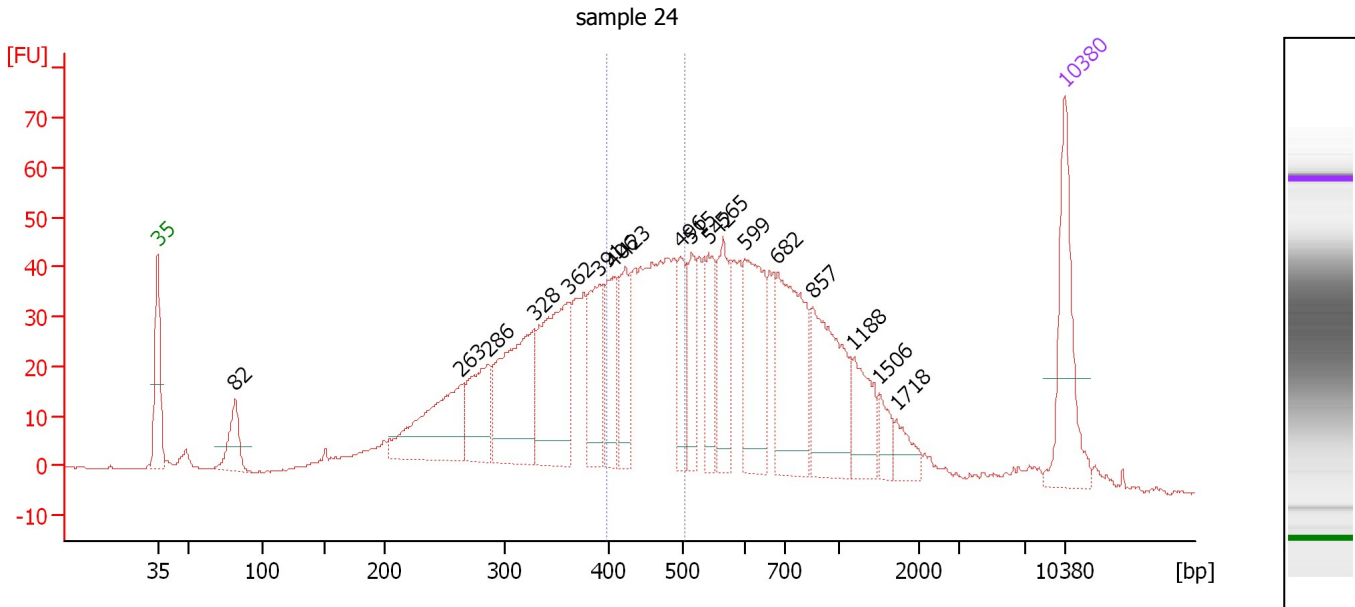
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
400	497	448	305.5	1,436.4	425.15	18	6.3



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 24**

Number of peaks found: 18                      Corr. Area 1: 315.4  
 Noise: 0.2

**Peak table for sample 11 : sample 24**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	82	48.51	897.8		49.00
3	263	121.21	698.5		66.37
4	286	76.31	404.7		68.47
5	328	147.41	681.2		72.02
6	362	147.74	619.0		74.72
7	391	73.62	285.3		77.07
8	406	54.50	203.5		78.13
9	423	55.79	200.1		79.08
10	496	47.58	145.2		83.28
11	515	40.69	119.8		84.18
12	542	54.42	152.2		85.48
13	565	68.26	183.1		86.58
14	599	100.09	253.0		88.23
15	682	128.69	286.0		90.78
16	857	108.97	192.7		93.54
17	1,188	44.01	56.1		96.69
18	1,506	16.74	16.8		98.64
19	1,718	18.88	16.7		99.94
20	10,380	75.00	10.9	Upper Marker	113.00

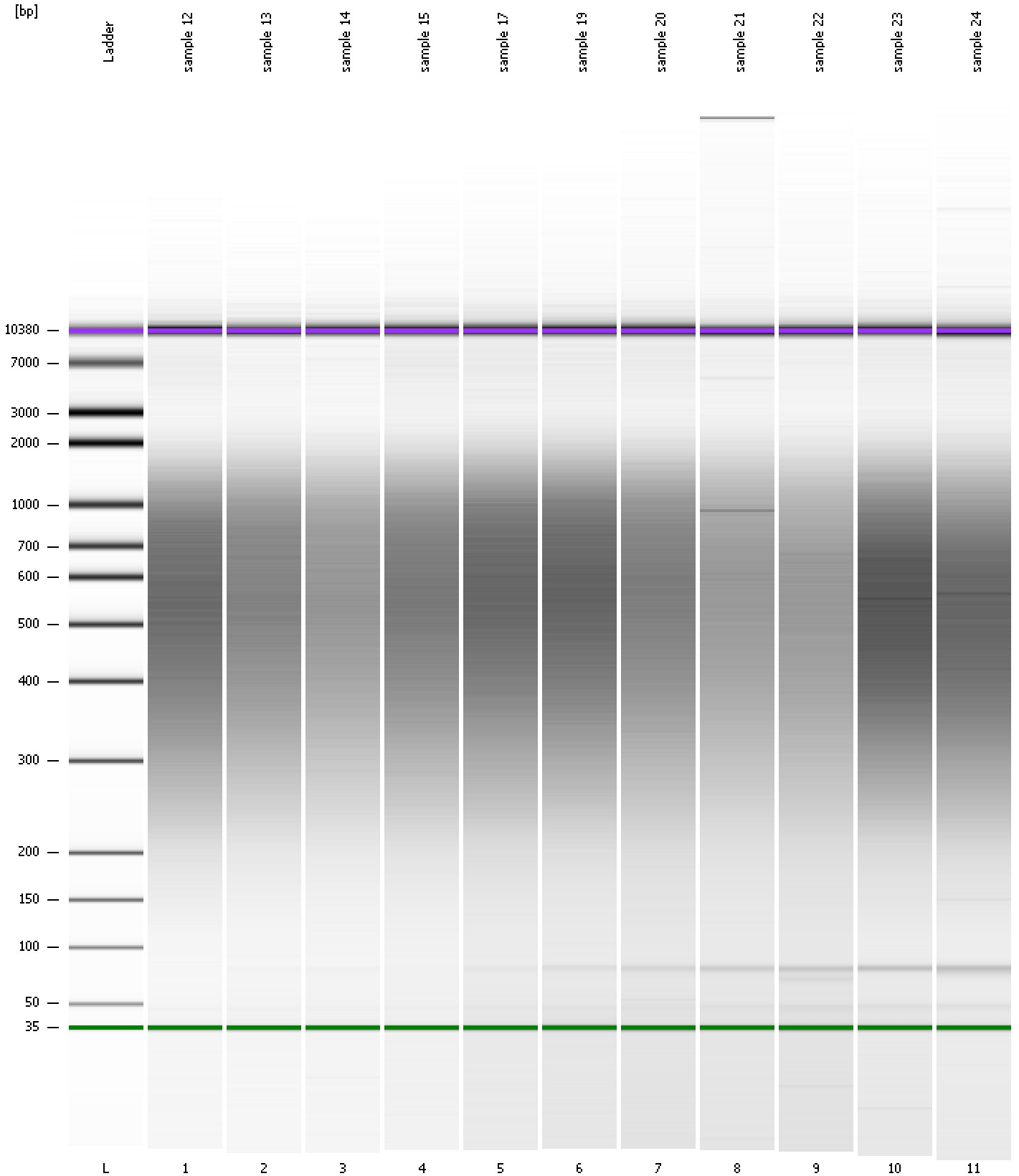
**Region table for sample 11 : sample 24**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
397	503	450	315.4	1,362.7	403.95	19	6.9

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
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**Gel Image**

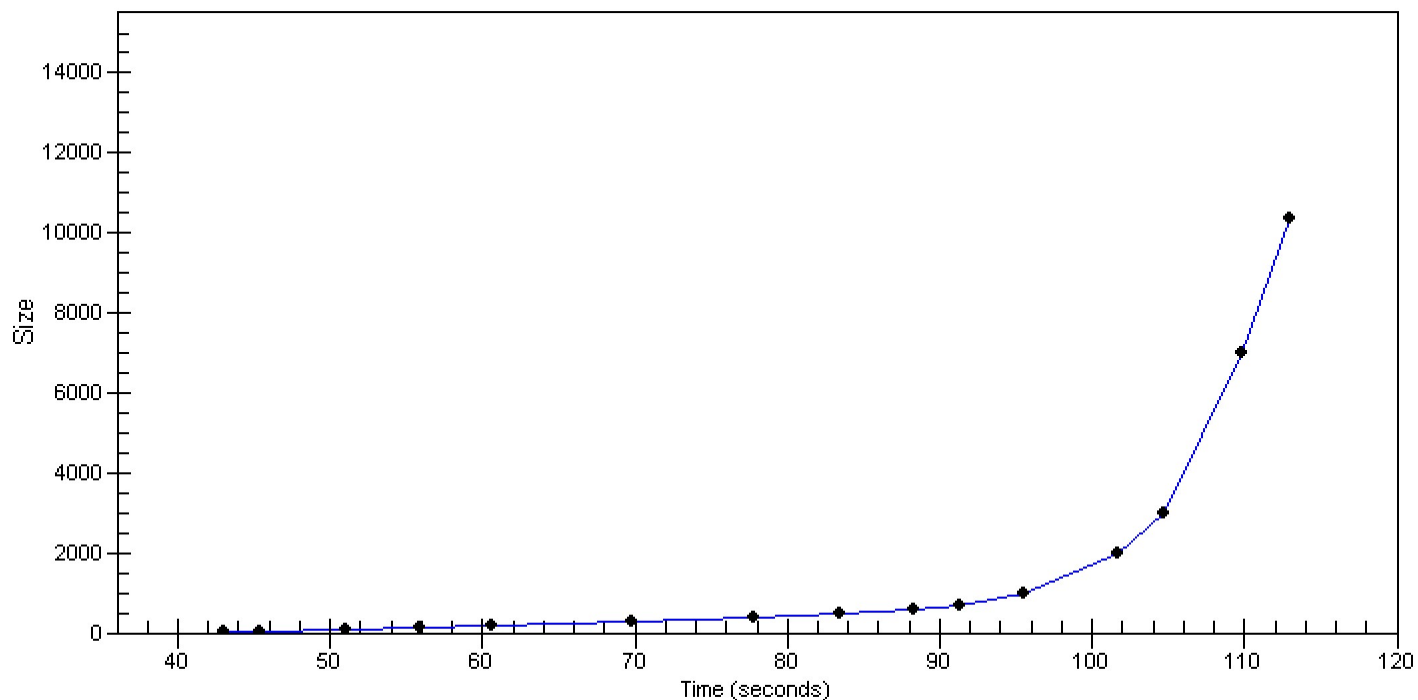


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
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**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16\_002.xad

Created: 11/16/2015 1:33:47 PM  
 Modified: 11/16/2015 2:39:39 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		11/16/2015 2:14:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-16\2015-11-16_002.xad)		Instrument	Run		11/16/2015 1:33:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/16/2015 1:33:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/16/2015 1:33:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/16/2015 1:33:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/16/2015 1:33:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/16/2015 1:33:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/16/2015 1:33:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1