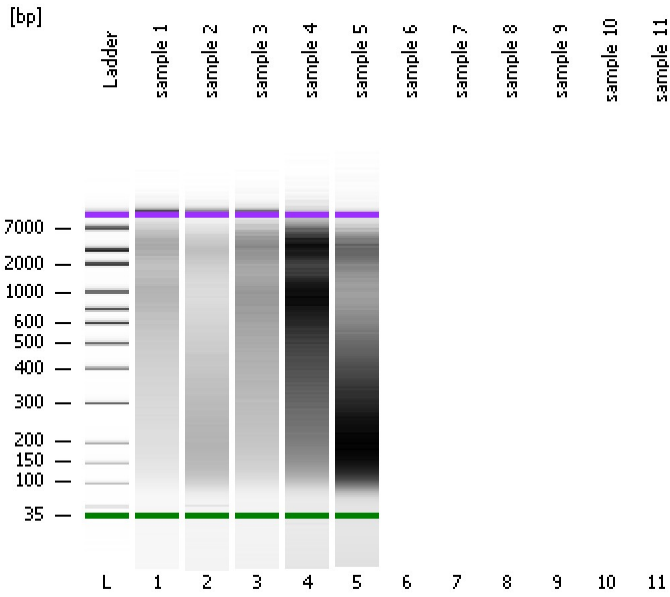


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
Modified: 5/16/2014 2:01:59 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 #:

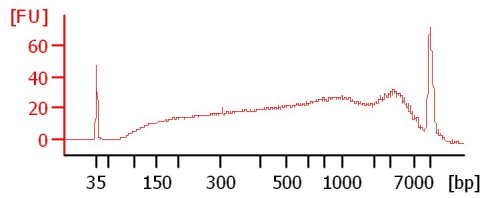
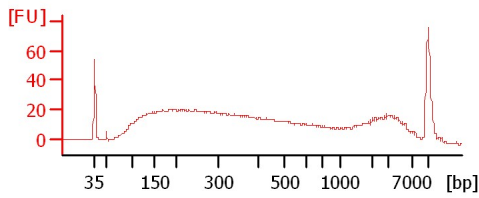
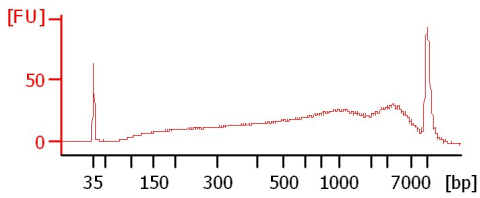
Reagent Kit Lot #:

Chip Comments:

sample 1

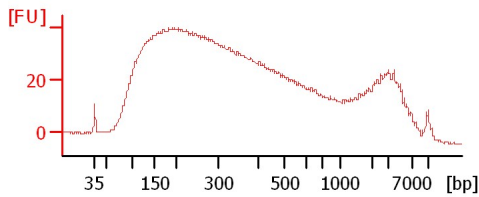
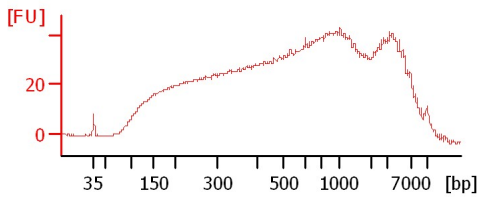
sample 2

sample 3



sample 4

sample 5



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
 Modified: 5/16/2014 2:01:59 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>	✗			
sample 7		<input type="checkbox"/>				
sample 8		<input type="checkbox"/>				
sample 9		<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:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
Modified: 5/16/2014 2:01:59 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

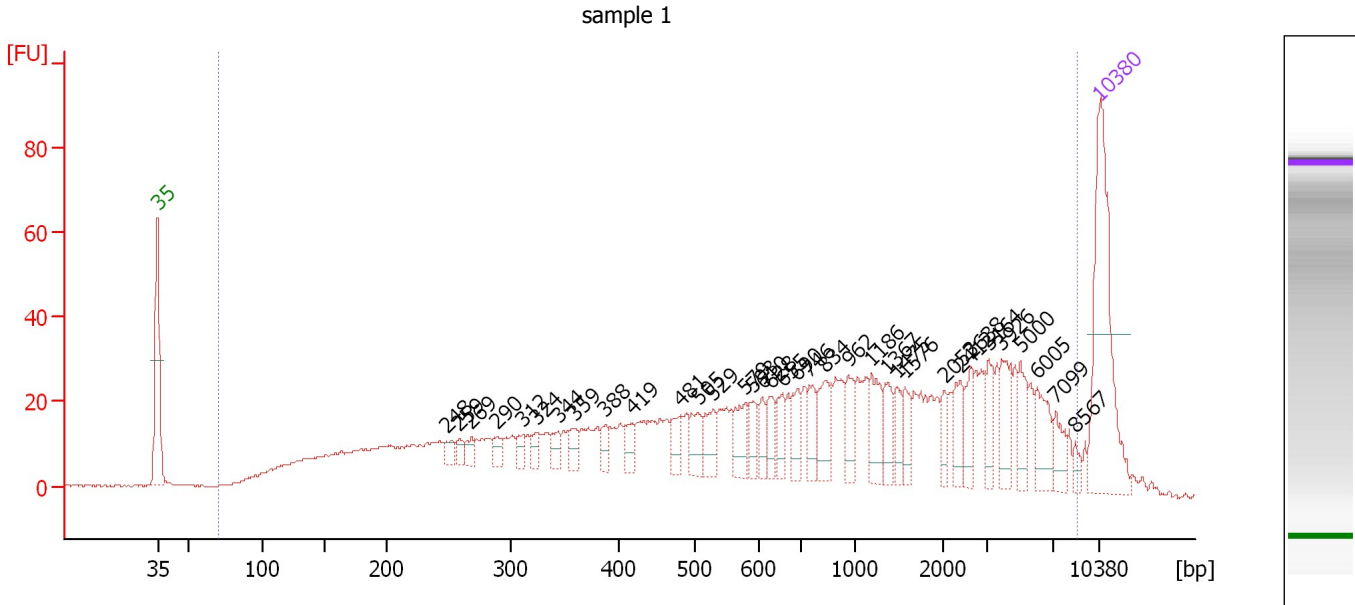
Ladder

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:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
 Modified: 5/16/2014 2:01:59 PM

Electropherogram Summary



Overall Results for sample 1 : sample 1

Number of peaks found: 35 Corr. Area 1: 1,331.8
 Noise: 0.2

Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	248	7.95	48.6	
3	259	5.61	32.8	
4	269	7.13	40.2	
5	290	7.61	39.8	
6	312	6.98	33.9	
7	324	6.75	31.5	
8	344	8.88	39.1	
9	359	10.10	42.6	
10	388	7.62	29.8	
11	419	9.61	34.7	
12	481	12.79	40.3	
13	505	14.85	44.5	
14	529	17.59	50.4	
15	579	18.27	47.8	
16	593	11.43	29.2	
17	610	10.09	25.1	
18	628	12.04	29.1	
19	655	12.41	28.7	
20	690	15.11	33.2	
21	746	13.75	27.9	
22	834	21.62	39.3	
23	962	14.31	22.5	
24	1,186	19.96	25.5	
25	1,367	12.44	13.8	
26	1,475	10.24	10.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
 Modified: 5/16/2014 2:01:59 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,576	9.87	9.5	
28	2,053	8.48	6.3	
29	2,412	14.00	8.8	
30	2,638	12.85	7.4	
31	3,164	12.52	6.0	
32	3,926	17.92	6.9	
33	5,000	13.40	4.1	
34	6,005	18.23	4.6	
35	7,099	10.81	2.3	
36	8,567	3.75	0.7	
37	▶ 10,380	75.00	10.9	Upper Marker

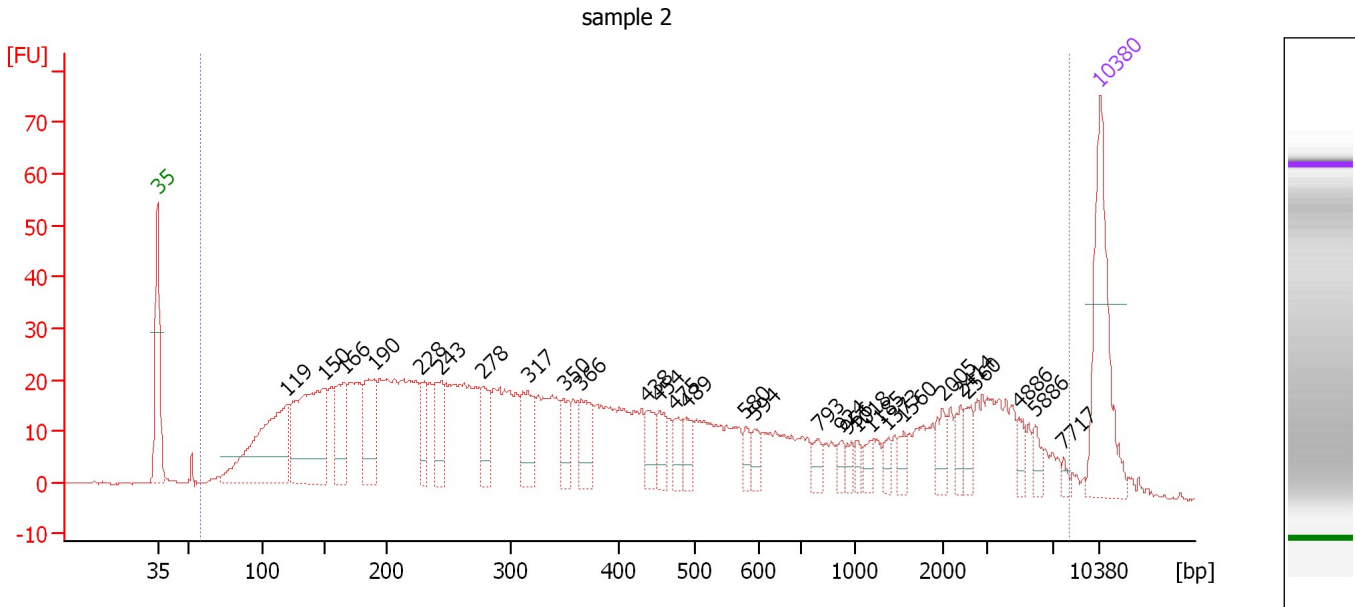
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
70	8,739	1,530	4,852.1	1,179.69	■ 1,331.8	98	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
 Modified: 5/16/2014 2:01:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 29 Corr. Area 1: 1,353.3
 Noise: 0.2

Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	119	153.55	1,956.5	
3	150	158.97	1,608.1	
4	166	52.02	475.8	
5	190	60.01	479.8	
6	228	28.90	192.1	
7	243	40.49	252.3	
8	278	29.68	161.5	
9	317	41.63	199.3	
10	350	20.87	90.3	
11	366	34.31	142.0	
12	438	20.28	70.1	
13	454	18.59	62.0	
14	475	14.24	45.4	
15	489	16.82	52.2	
16	580	9.24	24.1	
17	594	10.36	26.4	
18	793	10.41	19.9	
19	924	7.48	12.3	
20	956	6.24	9.9	
21	1,018	6.19	9.2	
22	1,185	7.88	10.1	
23	1,373	7.53	8.3	
24	1,560	7.54	7.3	
25	2,005	12.80	9.7	
26	2,414	10.53	6.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
 Modified: 5/16/2014 2:01:59 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,560	10.81	6.4	
28	4,886	8.54	2.6	
29	5,886	7.84	2.0	
30	7,717	3.39	0.7	
31	10,380	75.00	10.9	Upper Marker

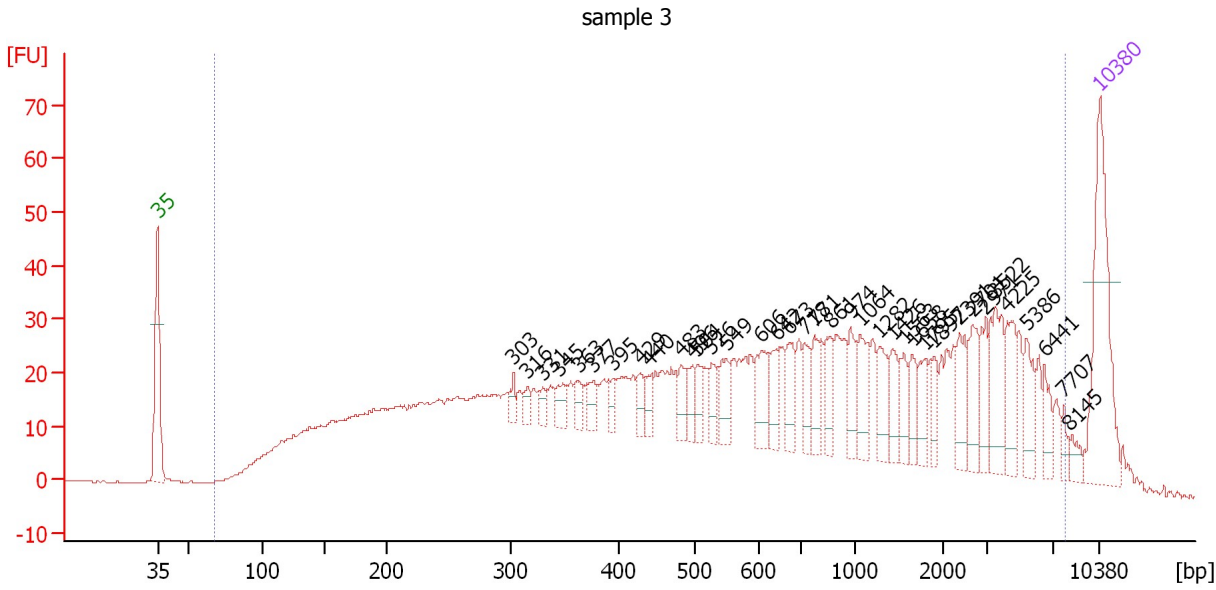
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
58	8,145	963	11,871.9	1,865.55	1,353.3	98	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
 Modified: 5/16/2014 2:01:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 37 Corr. Area 1: 1,614.9
 Noise: 0.2

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	303	8.40	42.0	
3	316	7.68	36.8	
4	331	7.91	36.2	
5	345	13.65	60.0	
6	363	11.02	46.0	
7	377	13.77	55.4	
8	395	10.14	38.9	
9	429	11.04	39.0	
10	440	11.15	38.4	
11	483	15.31	48.0	
12	496	12.75	38.9	
13	504	14.09	42.4	
14	526	13.85	39.9	
15	549	20.42	56.4	
16	606	24.96	62.4	
17	642	20.58	48.6	
18	673	19.56	44.1	
19	718	15.90	33.6	
20	771	23.75	46.7	
21	861	18.45	32.5	
22	974	17.92	27.9	
23	1,064	21.71	30.9	
24	1,282	19.24	22.7	
25	1,426	17.41	18.5	
26	1,563	12.84	12.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
 Modified: 5/16/2014 2:01:59 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,658	12.54	11.5	
28	1,795	15.63	13.2	
29	1,897	11.32	9.0	
30	2,391	20.56	13.0	
31	2,701	20.89	11.7	
32	2,971	17.80	9.1	
33	3,522	33.55	14.4	
34	4,225	22.04	7.9	
35	5,386	19.77	5.6	
36	6,441	12.60	3.0	
37	7,707	5.70	1.1	
38	8,145	7.01	1.3	
39	▶ 10,380	75.00	10.9	Upper Marker

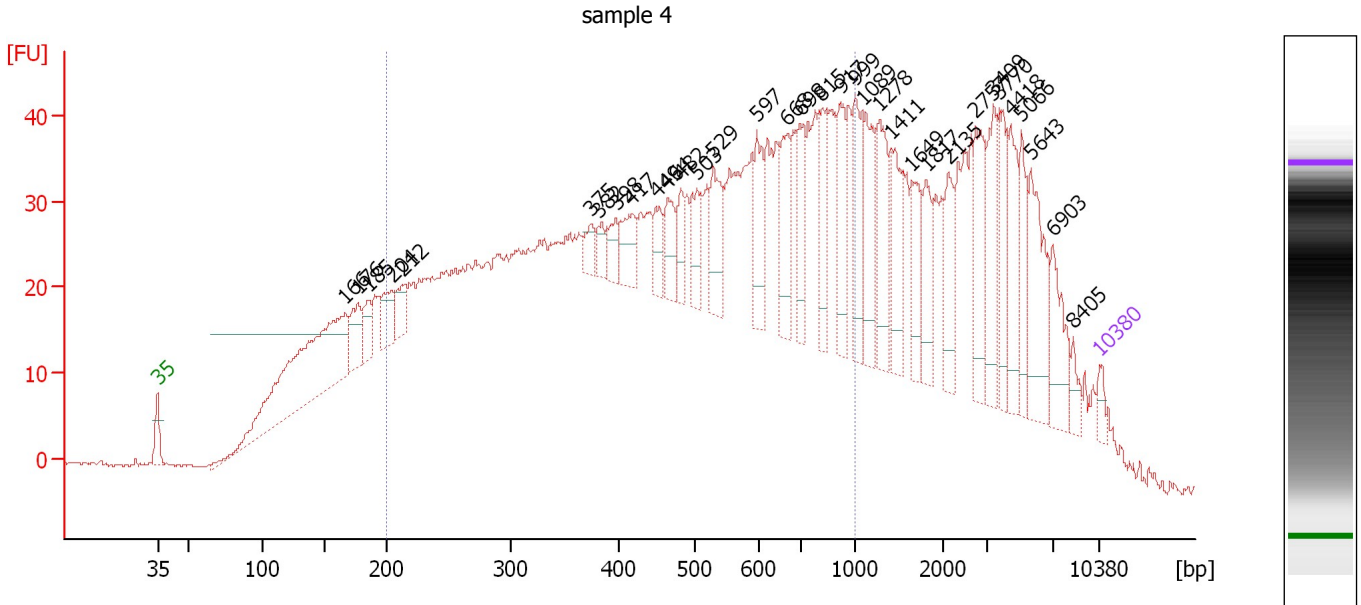
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
67	7,872	1,305	9,407.1	2,098.16	■ 1,614.9	98	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
 Modified: 5/16/2014 2:01:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 34 Corr. Area 1: 1,416.5
 Noise: 0.2

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	166	2,269.02	20,770.9	
3	176	328.65	2,825.1	
4	185	218.49	1,788.9	
5	204	264.10	1,964.5	
6	212	194.14	1,386.5	
7	375	142.92	577.2	
8	382	121.97	483.9	
9	398	177.94	677.0	
10	417	275.66	1,000.6	
11	449	205.50	693.0	
12	464	266.79	870.4	
13	482	191.80	603.0	
14	503	294.96	888.1	
15	529	388.01	1,111.1	
16	597	382.99	971.7	
17	668	402.22	912.1	
18	698	383.15	831.7	
19	815	344.47	640.7	
20	917	413.43	683.1	
21	999	404.44	613.4	
22	1,089	521.48	725.6	
23	1,278	449.85	533.4	
24	1,411	434.55	466.7	
25	1,649	310.30	285.2	
26	1,817	299.18	249.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
 Modified: 5/16/2014 2:01:59 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,135	291.49	206.8	
28	2,757	431.45	237.2	
29	3,409	403.37	179.3	
30	3,770	347.61	139.7	
31	4,418	389.91	133.7	
32	5,066	321.53	96.2	
33	5,643	558.76	150.0	
34	6,903	346.03	75.9	
35	8,405	94.98	17.1	
36	▶ 10,380	75.00	10.9	Upper Marker

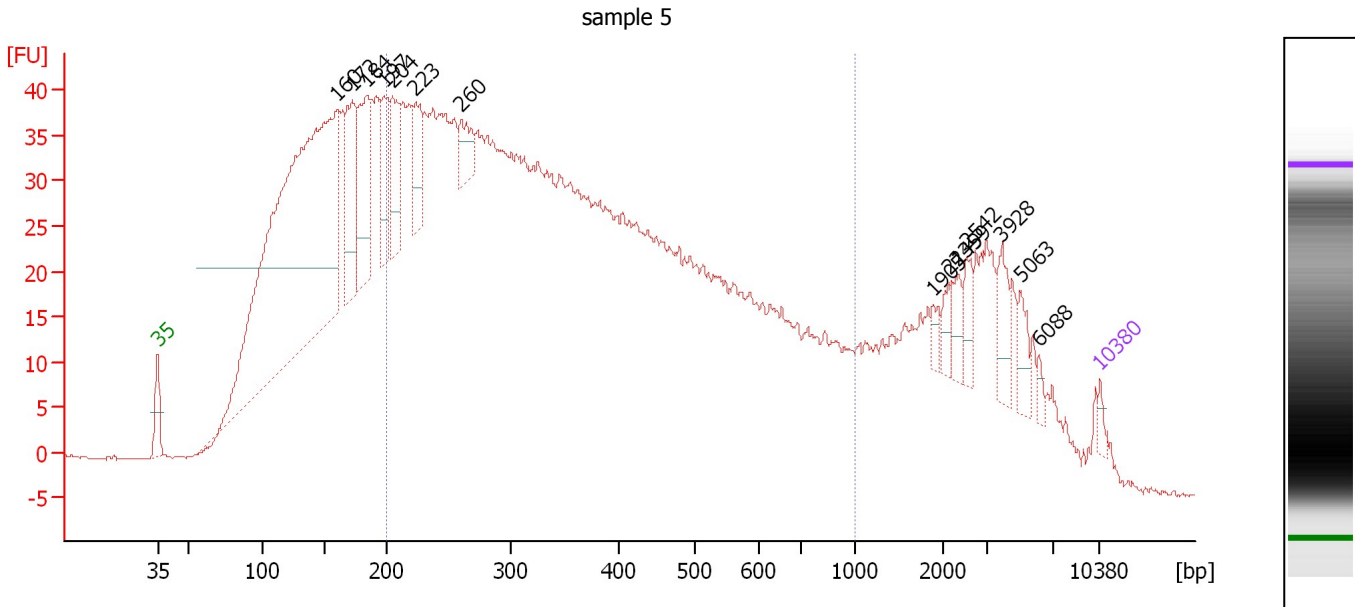
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
200	1,000	493	120,528.1	30,452.11	■ 1,416.5	61	41.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
 Modified: 5/16/2014 2:01:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 14 Corr. Area 1: 1,367.1
 Noise: 0.2

Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	160	11,501.59	108,896.1	
3	172	1,466.34	12,883.8	
4	184	1,623.49	13,378.6	
5	197	850.78	6,534.5	
6	204	883.91	6,555.3	
7	223	718.40	4,880.5	
8	260	455.29	2,648.4	
9	1,905	116.03	92.3	
10	2,149	175.60	123.8	
11	2,359	211.77	136.0	
12	2,542	236.35	140.9	
13	3,928	352.51	136.0	
14	5,063	258.66	77.4	
15	6,088	80.65	20.1	
16	10,380	75.00	10.9	Upper Marker

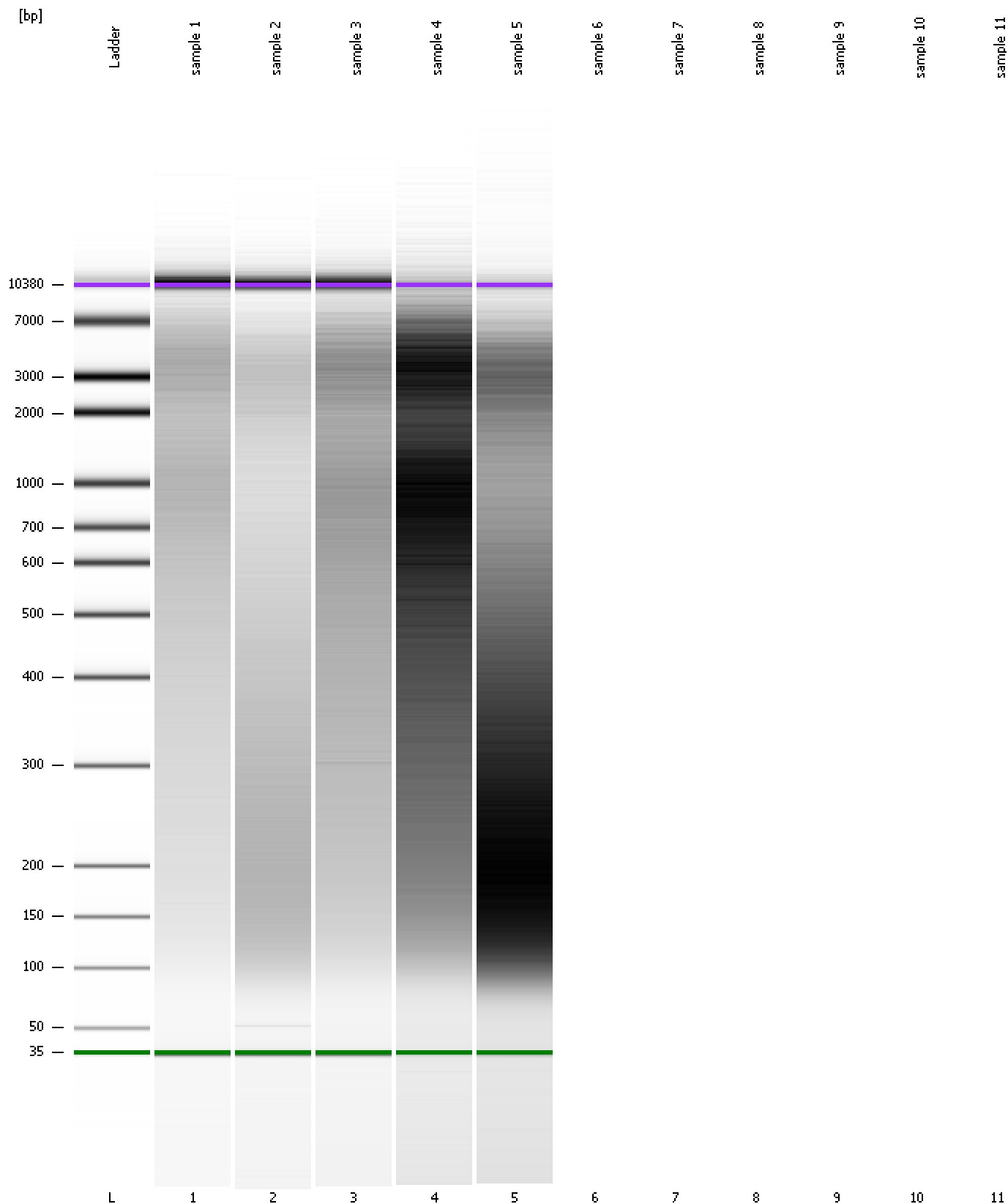
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	398	229,650.7	48,801.03	1,367.1	57	43.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
Modified: 5/16/2014 2:01:59 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-16\2014-05-16_004.xad

Created: 5/16/2014 1:37:43 PM
Modified: 5/16/2014 2:01:59 PM

Invalid Samples

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.