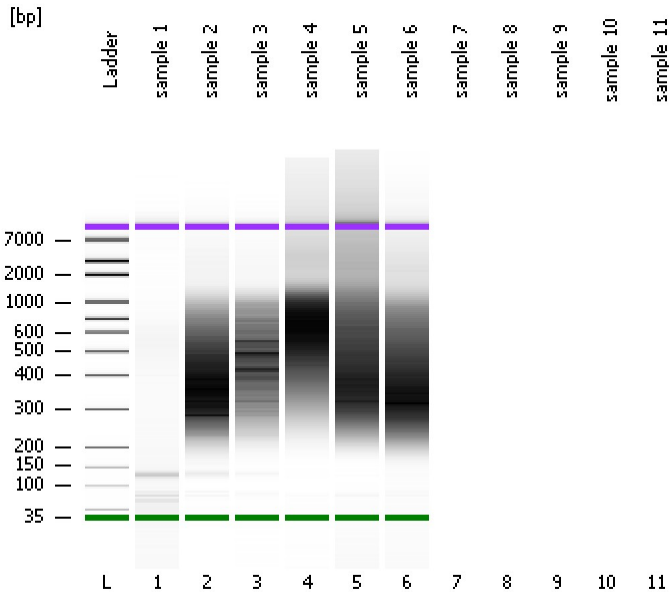


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

Created: 6/2/2014 1:45:51 PM  
Modified: 6/2/2014 2:15:33 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

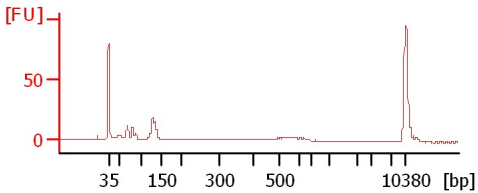
Assay Information:

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

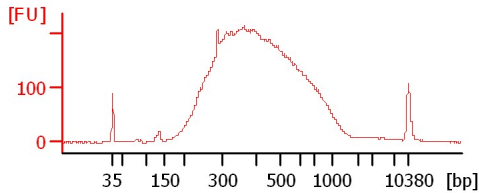
Chip Information:

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

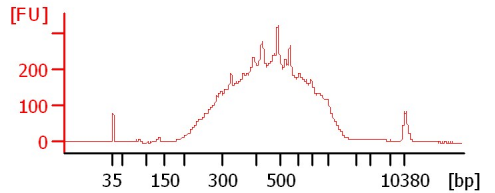
sample 1



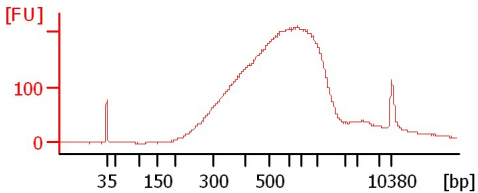
sample 2



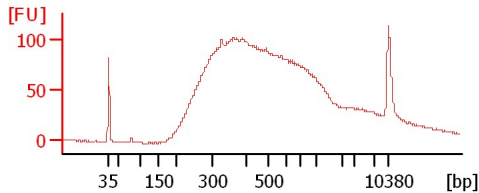
sample 3



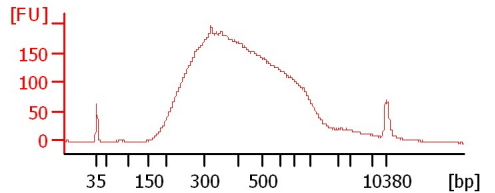
sample 4



sample 5



sample 6



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

Created: 6/2/2014 1:45:51 PM  
Modified: 6/2/2014 2:15:33 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\2014-06-02\2014-06-02\_003.xad

Created: 6/2/2014 1:45:51 PM  
Modified: 6/2/2014 2:15:33 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

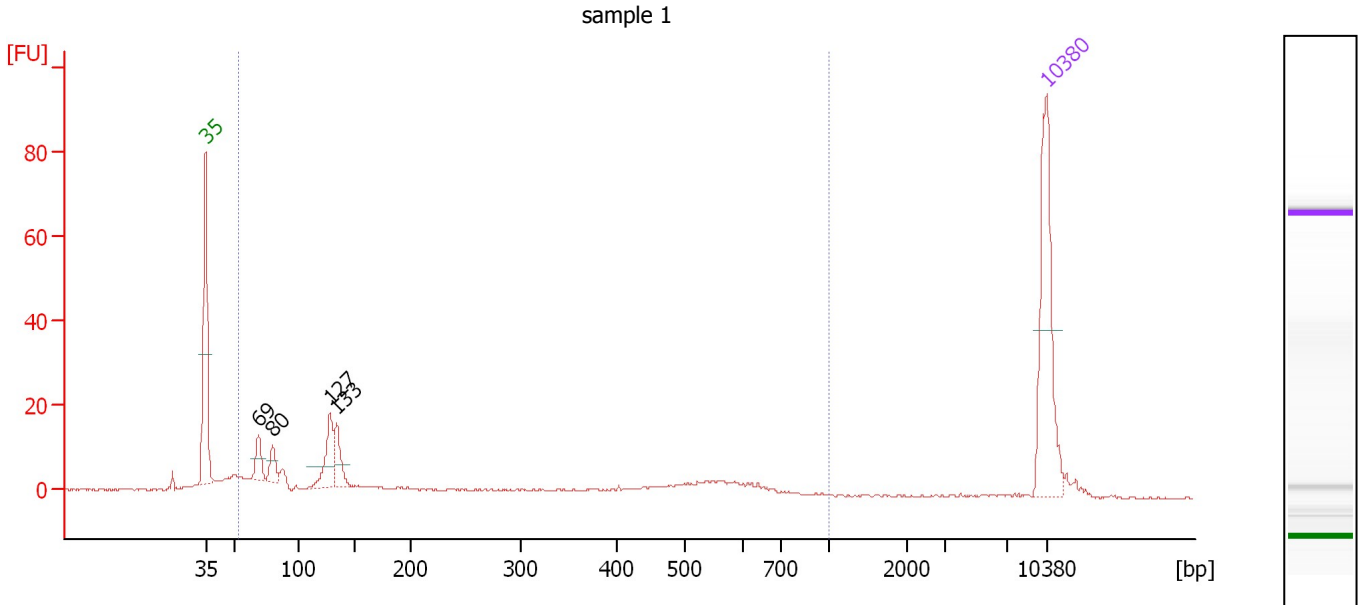
**Ladder**

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\2014-06-02\2014-06-02\_003.xad

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**Electropherogram Summary**



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

Number of peaks found: 4                      Corr. Area 1: 142.9  
 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	69	20.38	449.4	
3	80	17.46	331.7	
4	127	41.58	495.0	
5	133	27.53	312.6	
6	10,380	75.00	10.9	Upper Marker

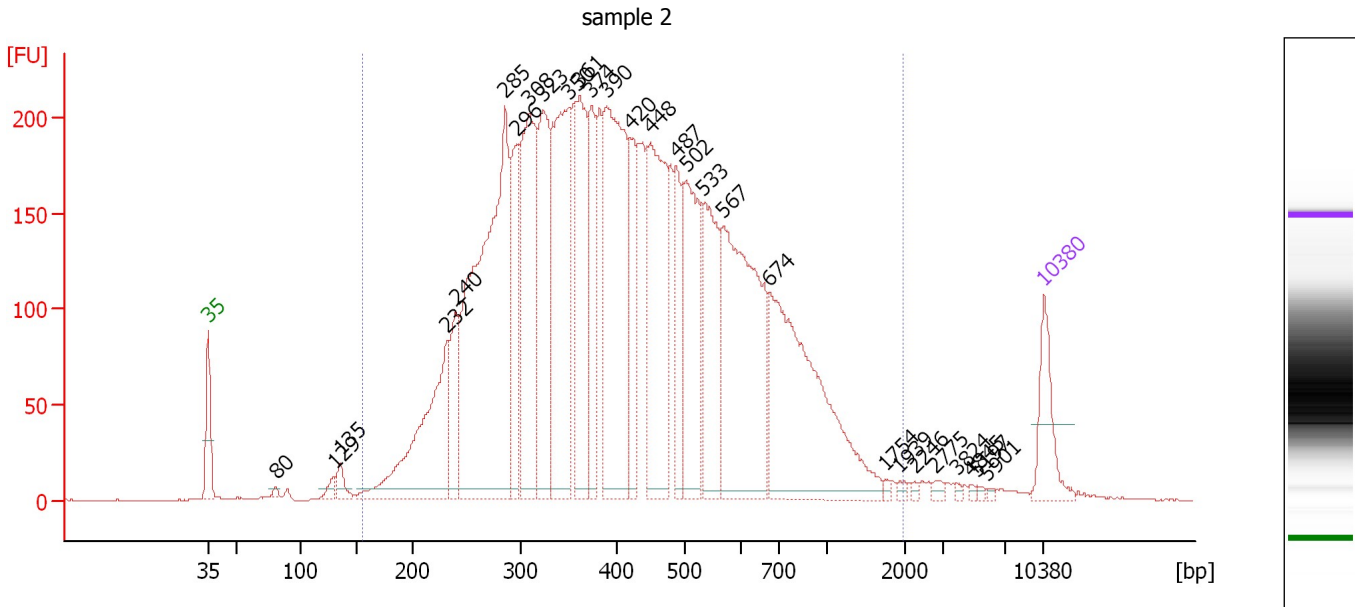
**Region table for sample 1 : sample 1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
54	1,000	257	2,780.0	212.33	142.9	86	79.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 28                      Corr. Area 1: 7,084.2  
 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	80	7.60	143.7	
3	129	18.74	220.2	
4	135	31.69	356.5	
5	232	391.72	2,557.5	
6	240	138.65	875.5	
7	285	936.17	4,973.8	
8	296	189.51	968.4	
9	308	430.77	2,117.4	
10	323	334.25	1,569.6	
11	350	438.70	1,900.1	
12	361	280.77	1,178.8	
13	374	186.12	754.7	
14	390	526.09	2,045.4	
15	420	150.10	541.5	
16	448	375.41	1,269.2	
17	487	129.22	402.4	
18	502	289.39	873.9	
19	533	240.87	684.7	
20	567	501.90	1,341.1	
21	674	524.14	1,178.7	
22	1,754	4.27	3.7	
23	1,939	5.80	4.5	
24	2,246	3.68	2.5	
25	2,775	7.24	4.0	
26	3,824	3.19	1.3	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

Created: 6/2/2014 1:45:51 PM  
Modified: 6/2/2014 2:15:33 PM

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	4,845	3.39	1.1	
28	5,197	3.39	1.0	
29	5,901	3.00	0.8	
30	10,380	75.00	10.9	Upper Marker

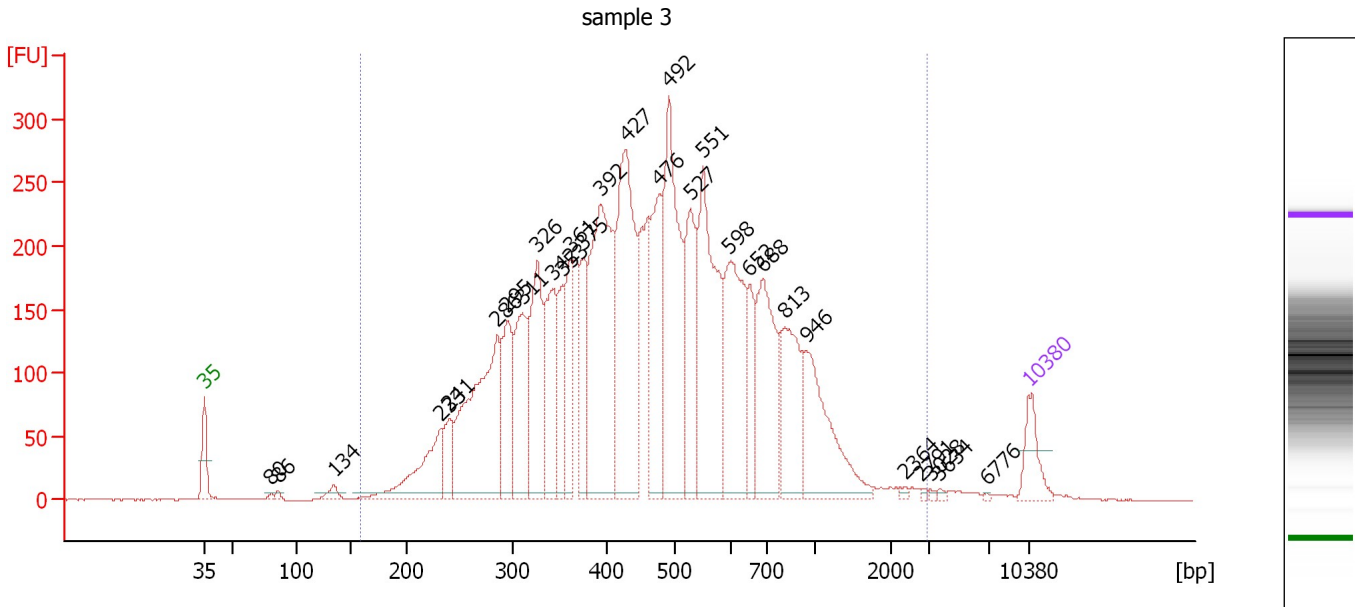
**Region table for sample 2 : sample 2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
155	1,991	455	27,842.2	6,709.81	7,084.2	98	48.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

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 Modified: 6/2/2014 2:15:33 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 29                      Corr. Area 1: 7,452.5  
 Noise: 0.4

**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	80	9.54	179.7	
3	86	11.83	208.9	
4	134	34.27	386.4	
5	233	274.46	1,783.1	
6	241	115.88	729.4	
7	286	686.58	3,642.6	
8	295	268.46	1,378.5	
9	311	306.78	1,495.9	
10	326	382.07	1,776.2	
11	342	288.60	1,277.8	
12	353	169.59	728.1	
13	361	206.39	866.8	
14	375	194.68	787.0	
15	392	737.05	2,847.0	
16	427	664.93	2,358.4	
17	476	342.64	1,089.6	
18	492	606.85	1,870.4	
19	527	302.91	870.4	
20	551	564.12	1,550.5	
21	598	417.81	1,058.1	
22	652	137.34	319.2	
23	688	349.56	770.1	
24	813	277.79	517.4	
25	946	313.93	503.0	
26	2,364	6.30	4.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

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**Electropherogram Summary Continued ...****... Peak table for sample 3 : sample 3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,791	4.23	2.3	
28	3,028	4.03	2.0	
29	3,634	5.11	2.1	
30	6,776	2.49	0.6	
31	10,380	75.00	10.9	Upper Marker

**Region table for sample 3 : sample 3**

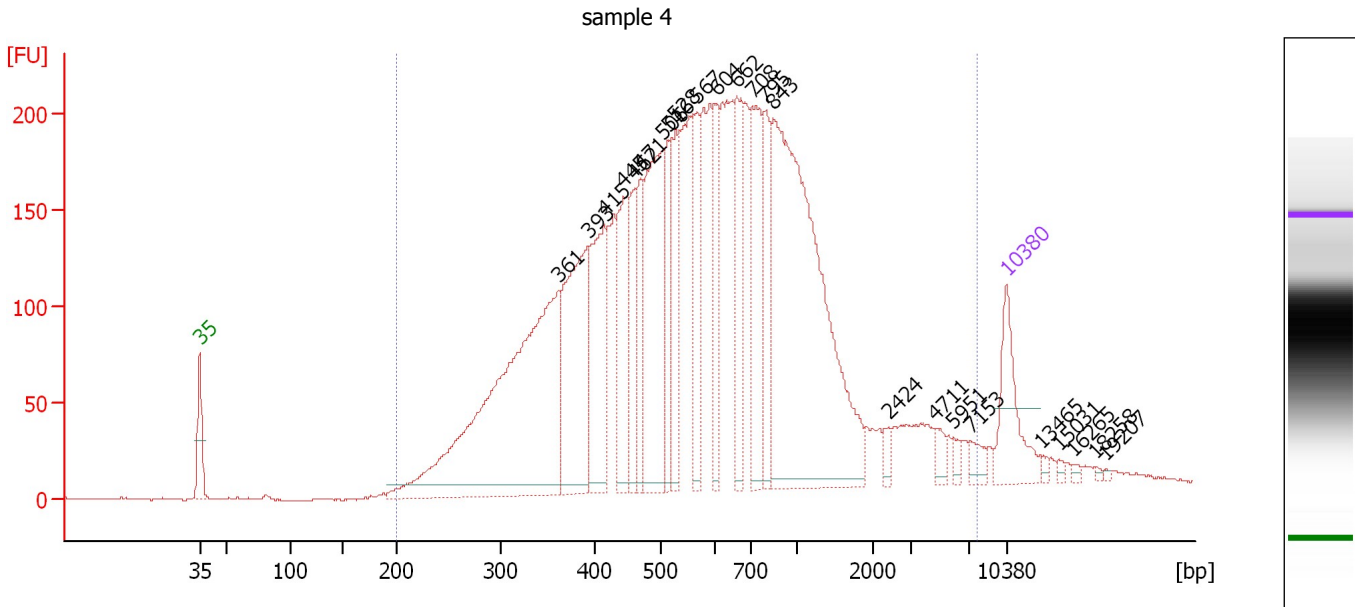
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
159	2,933	517	30,234.3	8,163.79	7,452.5	99	52.3



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 24      Corr. Area 1: 5,984.6  
 Noise: 0.4

**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	361	702.67	2,945.4	
3	393	286.09	1,102.9	
4	415	189.02	689.6	
5	445	132.44	451.4	
6	462	103.25	338.3	
7	471	86.17	277.5	
8	506	266.51	798.7	
9	516	99.52	292.0	
10	528	92.85	266.4	
11	567	106.70	285.0	
12	604	90.17	226.3	
13	662	126.81	290.1	
14	708	165.02	353.2	
15	795	96.34	183.7	
16	843	655.52	1,178.1	
17	2,424	12.27	7.7	
18	4,711	14.52	4.7	
19	5,951	8.86	2.3	
20	7,153	15.66	3.3	
21	10,380	75.00	10.9	Upper Marker
22	13,465	0.00	0.0	
23	15,031	0.00	0.0	
24	16,265	0.00	0.0	
25	18,258	0.00	0.0	
26	19,207	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

Created: 6/2/2014 1:45:51 PM  
Modified: 6/2/2014 2:15:33 PM

**Electropherogram Summary Continued ...**

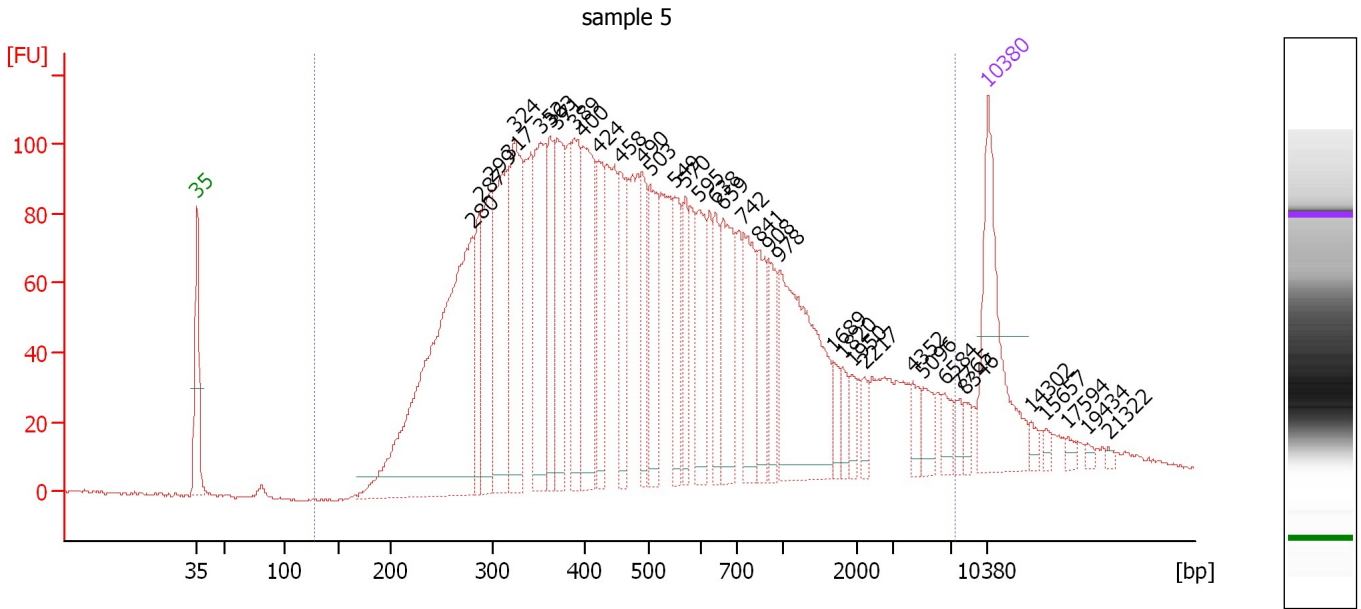
... Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	7,704	820	12,145.9	4,053.93	 5,984.6	98	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

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 Modified: 6/2/2014 2:15:33 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 37      Corr. Area 1: 3,837.5  
 Noise: 0.6

**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	280	366.62	1,984.7	
3	287	51.48	271.6	
4	299	87.10	442.0	
5	317	131.87	630.0	
6	324	116.88	546.3	
7	352	103.00	443.0	
8	363	55.21	230.6	
9	371	91.28	372.8	
10	389	75.66	294.6	
11	400	101.92	386.3	
12	424	57.17	204.5	
13	458	46.88	155.2	
14	490	45.03	139.3	
15	503	60.91	183.5	
16	549	43.94	121.3	
17	570	34.16	90.8	
18	595	51.11	130.2	
19	638	33.09	78.5	
20	659	64.51	148.2	
21	742	54.94	112.2	
22	841	35.63	64.2	
23	908	27.49	45.9	
24	978	126.59	196.0	
25	1,689	10.63	9.5	
26	1,820	10.44	8.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

Created: 6/2/2014 1:45:51 PM  
 Modified: 6/2/2014 2:15:33 PM

### Electropherogram Summary Continued ...

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,950	8.38	6.5	
28	2,217	8.67	5.9	
29	4,352	10.94	3.8	
30	5,096	12.84	3.8	
31	6,584	10.66	2.5	
32	7,765	6.87	1.3	
33	8,346	6.44	1.2	
34	10,380	75.00	10.9	Upper Marker
35	14,302	0.00	0.0	
36	15,657	0.00	0.0	
37	17,594	0.00	0.0	
38	19,434	0.00	0.0	
39	21,322	0.00	0.0	

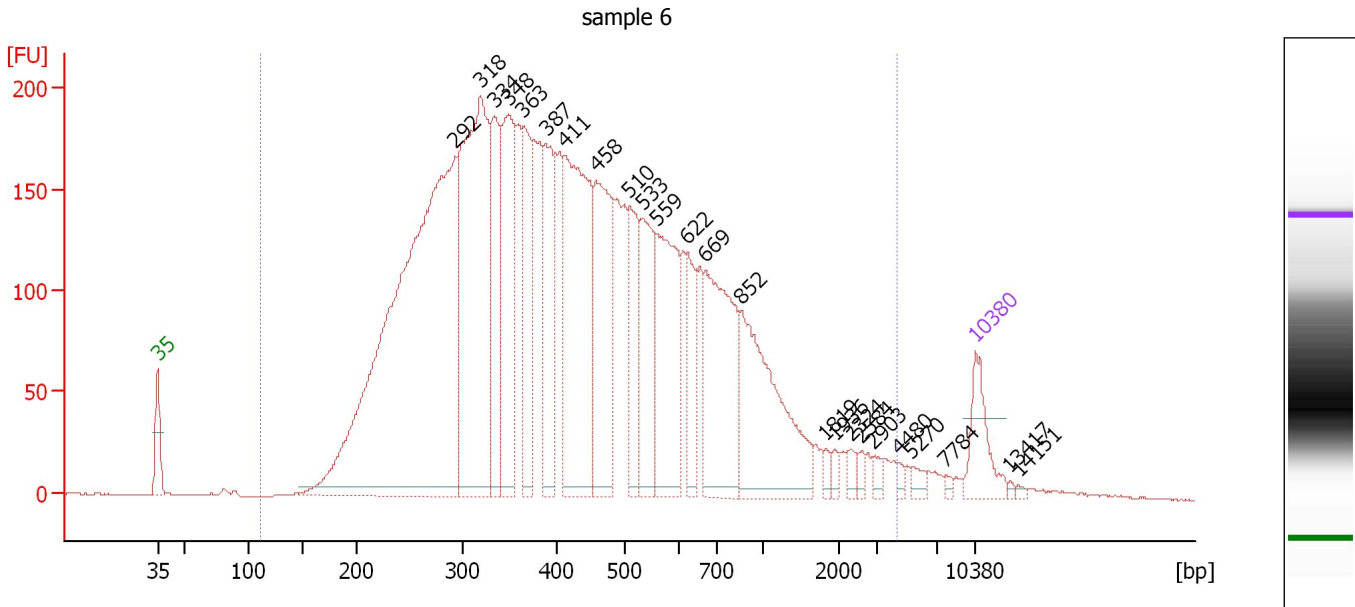
#### Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
127	7,431	800	8,778.4	2,401.53	 3,837.5	97	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

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 Modified: 6/2/2014 2:15:33 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 24                      Corr. Area 1: 6,787.9  
 Noise: 0.5

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


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	292	1,759.60	9,116.1	
3	318	815.70	3,891.8	
4	334	256.81	1,166.5	
5	348	327.66	1,427.5	
6	363	232.64	970.5	
7	387	232.82	910.4	
8	411	541.21	1,996.3	
9	458	337.22	1,116.4	
10	510	160.88	478.3	
11	533	208.03	591.5	
12	559	293.90	796.4	
13	622	116.75	284.3	
14	669	325.11	736.4	
15	852	344.43	612.8	
16	1,819	11.95	10.0	
17	1,936	13.17	10.3	
18	2,324	16.16	10.5	
19	2,584	10.94	6.4	
20	2,903	12.51	6.5	
21	4,480	7.49	2.5	
22	5,270	13.94	4.0	
23	7,784	5.80	1.1	
24	10,380	75.00	10.9	Upper Marker
25	13,417	0.00	0.0	
26	14,151	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

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Modified: 6/2/2014 2:15:33 PM

**Electropherogram Summary Continued ...**

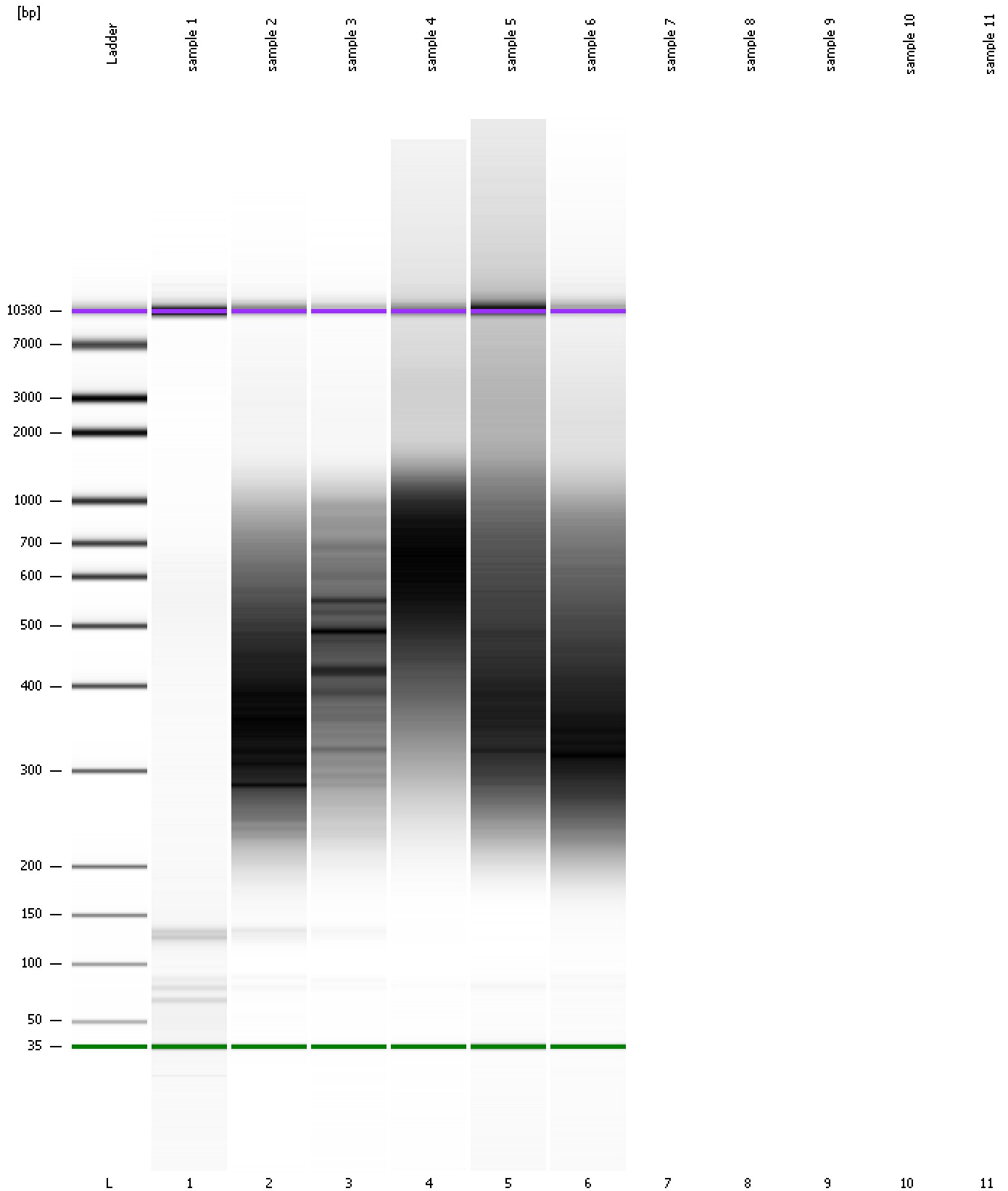
... Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
110	4,295	524	29,343.4	7,059.49	 6,787.9	98	82.8

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

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**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-02\2014-06-02\_003.xad

Created: 6/2/2014 1:45:51 PM  
Modified: 6/2/2014 2:15:33 PM

**Invalid Samples**

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.