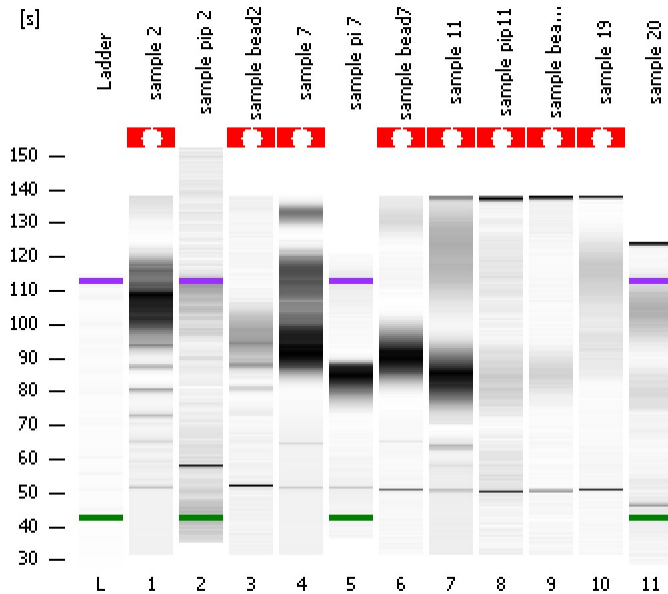


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

Created: 2/4/2014 2:00:41 PM  
Modified: 2/4/2014 2:42:23 PM

### Electrophoresis File Run Summary



#### Instrument Information:

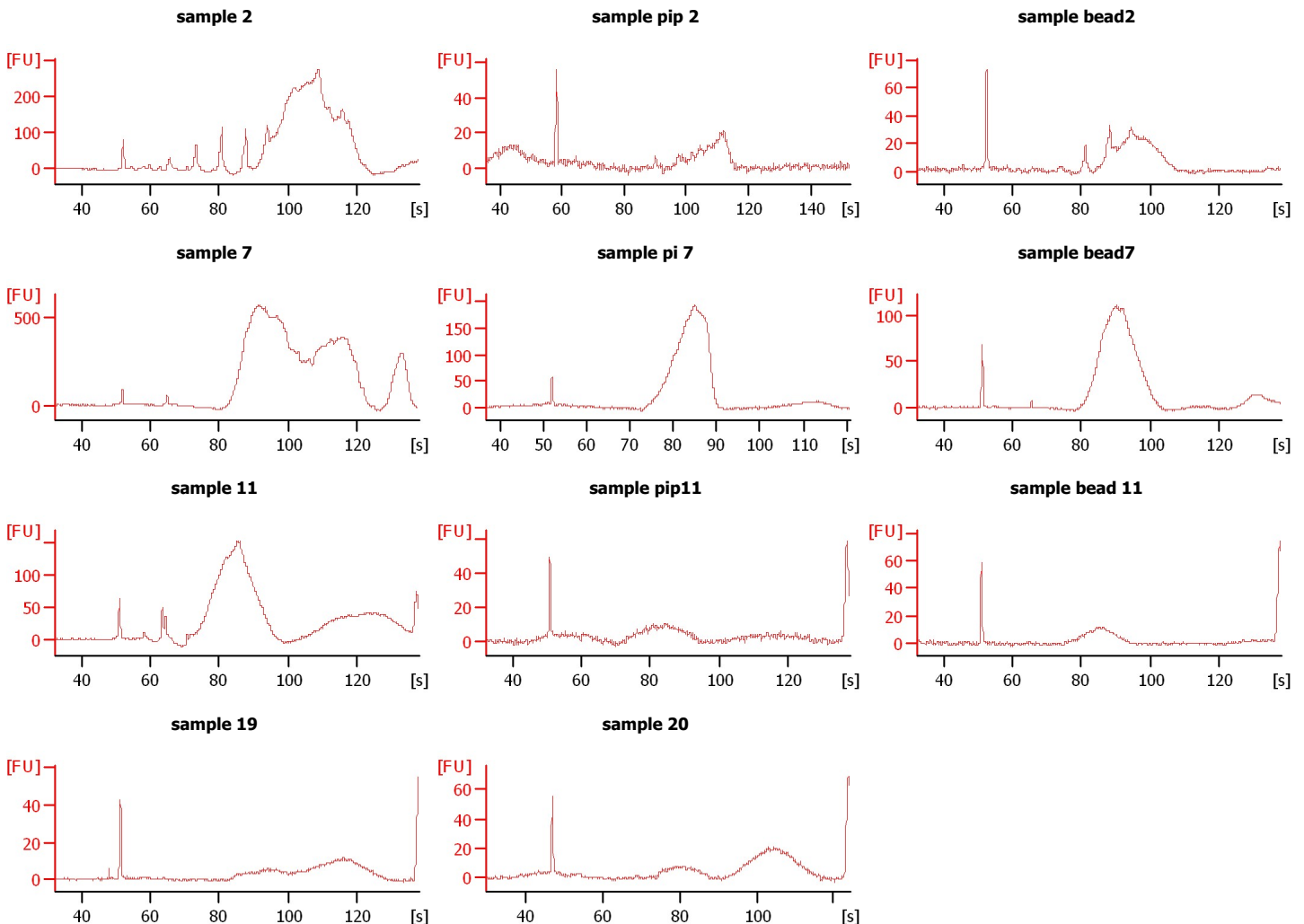
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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:



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

Created: 2/4/2014 2:00:41 PM  
Modified: 2/4/2014 2:42:23 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 2		<input type="checkbox"/>	✓			
sample pip 2		<input type="checkbox"/>	✓			
sample bead2		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample pi 7		<input type="checkbox"/>	✓			
sample bead7		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>	✓			
sample pip11		<input type="checkbox"/>	✓			
sample bead 11		<input type="checkbox"/>	✓			
sample 19		<input type="checkbox"/>	✓			
sample 20		<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\2014-02-04\2014-02-04\_006.xad

Created: 2/4/2014 2:00:41 PM  
 Modified: 2/4/2014 2:42:23 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

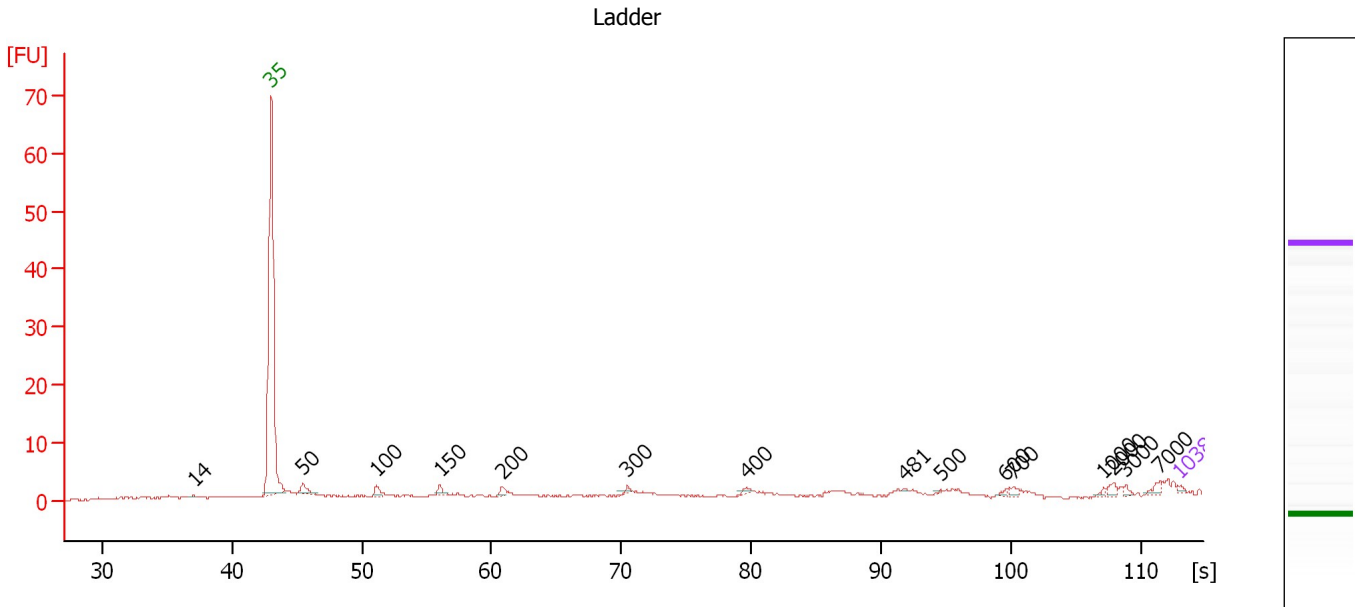
**Ladder**

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\2014-02-04\2014-02-04\_006.xad

Created: 2/4/2014 2:00:41 PM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

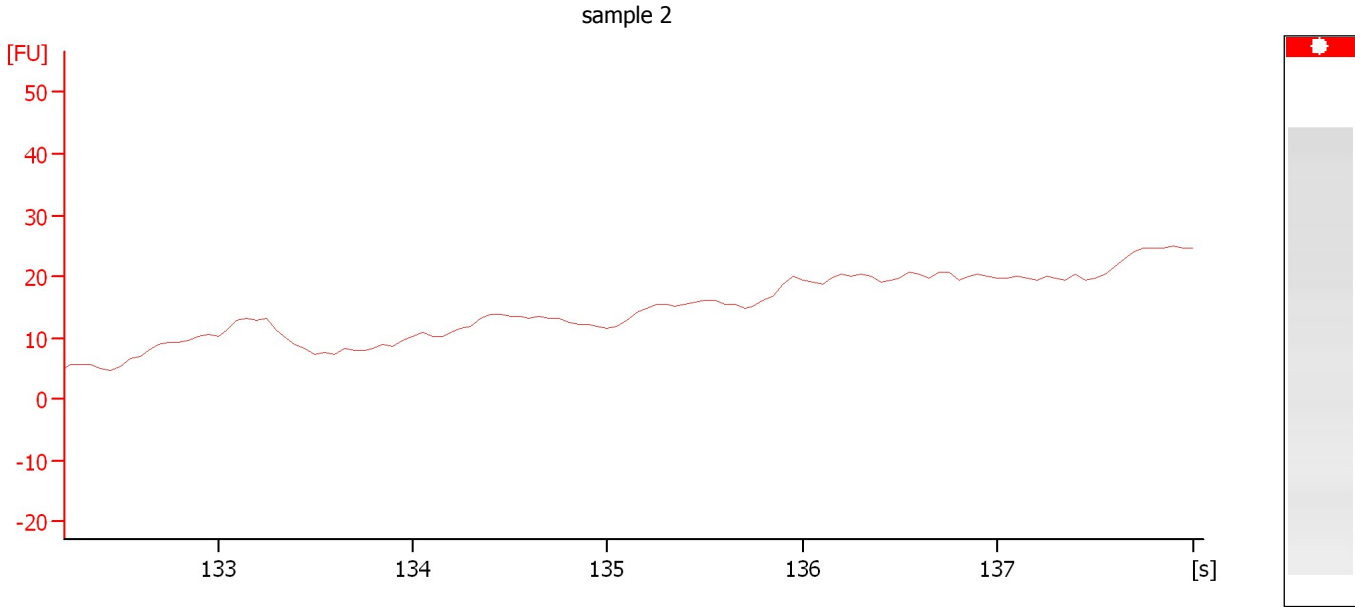
**Peak table for Ladder**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	37.04	14	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	45.44	50	150.00	4,545.5	Ladder Peak
4	51.11	100	150.00	2,272.7	Ladder Peak
5	56.00	150	150.00	1,515.2	Ladder Peak
6	60.88	200	150.00	1,136.4	Ladder Peak
7	70.49	300	150.00	757.6	Ladder Peak
8	79.64	400	150.00	568.2	Ladder Peak
9	91.81	481	0.00	0.0	
10	94.58	500	150.00	454.5	Ladder Peak
11	99.63	600	150.00	378.8	Ladder Peak
12	100.25	700	150.00	324.7	Ladder Peak
13	107.16	1,000	150.00	227.3	Ladder Peak
14	107.95	2,000	150.00	113.6	Ladder Peak
15	108.86	3,000	150.00	75.8	Ladder Peak
16	111.47	7,000	150.00	32.5	Ladder Peak
17	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 2**

Number of peaks found: 0                      Noise: 0.2

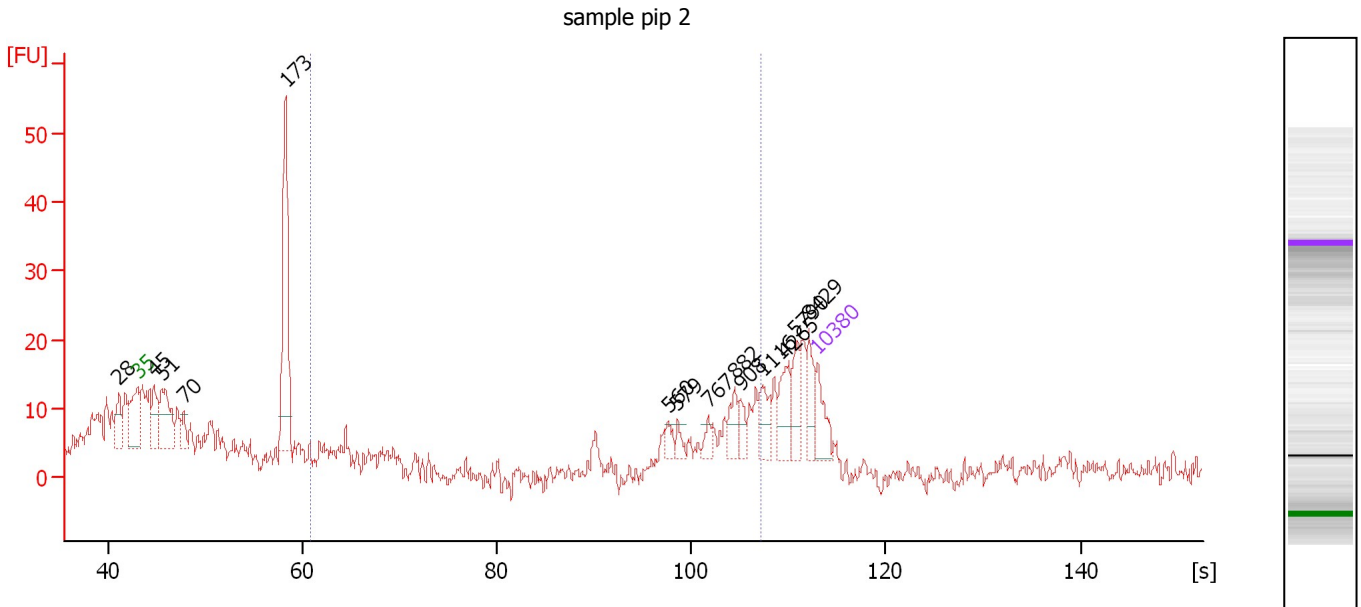
**Peak table for sample 1 : sample 2**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	52.05	0	0.00	0.0	
2	54.30	0	0.00	0.0	
3	59.70	0	0.00	0.0	
4	62.95	0	0.00	0.0	
5	65.65	0	0.00	0.0	
6	73.30	0	0.00	0.0	
7	80.75	0	0.00	0.0	
8	87.70	0	0.00	0.0	
9	94.05	0	0.00	0.0	
10	99.55	0	0.00	0.0	
11	100.85	0	0.00	0.0	
12	101.65	0	0.00	0.0	
13	103.95	0	0.00	0.0	
14	105.70	0	0.00	0.0	
15	108.75	0	0.00	0.0	
16	111.70	0	0.00	0.0	
17	114.65	0	0.00	0.0	
18	115.70	0	0.00	0.0	
19	117.55	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

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 Modified: 2/4/2014 2:42:23 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 14      Corr. Area 1: 42.3  
 Noise: 1.7

**Peak table for sample 2 : sample pip 2**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	41.12	28	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	44.66	45	165.83	5,561.4	
4	45.54	51	291.86	8,692.4	
5	47.75	70	67.36	1,450.6	
6	58.25	173	589.55	5,162.3	
7	97.59	560	32.12	87.0	
8	98.58	579	28.98	75.8	
9	101.78	767	33.66	66.5	
10	104.44	882	65.13	111.9	
11	105.04	908	43.59	72.7	
12	107.25	1,116	74.85	101.7	
13	109.69	4,265	100.75	35.8	
14	110.68	5,790	78.80	20.6	
15	112.12	8,429	79.51	14.3	
16	113.00	10,380	75.00	10.9	Upper Marker

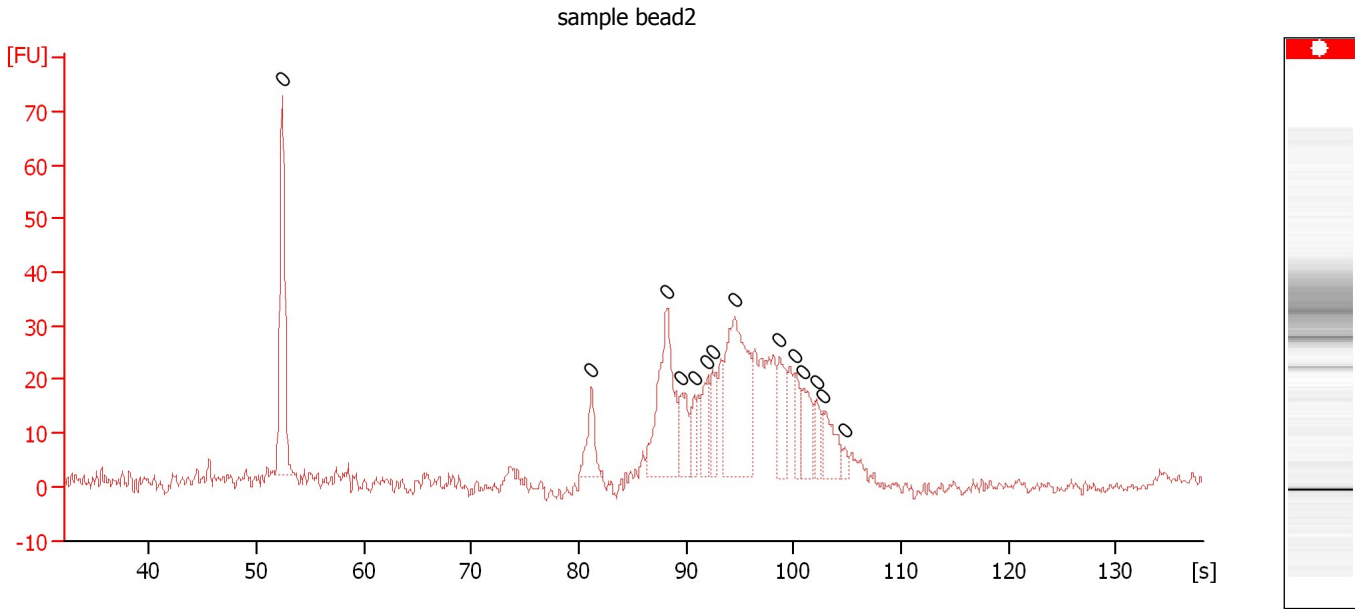
**Region table for sample 2 : sample pip 2**

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	807	667.3	313.47	42.3	15	21.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample bead2**

Number of peaks found: 0 Noise: 1.2

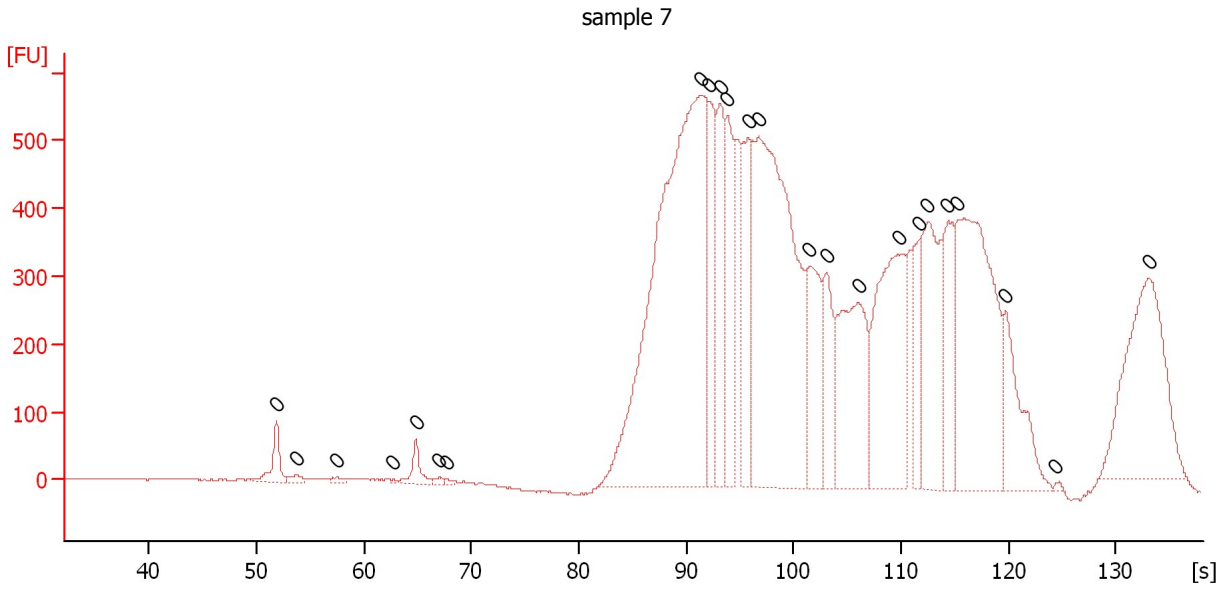
**Peak table for sample 3 : sample bead2**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	52.40	0	0.00	0.0	
2	81.20	0	0.00	0.0	
3	88.25	0	0.00	0.0	
4	89.55	0	0.00	0.0	
5	90.75	0	0.00	0.0	
6	92.00	0	0.00	0.0	
7	92.45	0	0.00	0.0	
8	94.50	0	0.00	0.0	
9	98.65	0	0.00	0.0	
10	100.10	0	0.00	0.0	
11	100.95	0	0.00	0.0	
12	102.15	0	0.00	0.0	
13	102.80	0	0.00	0.0	
14	104.75	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 7**

Number of peaks found: 0                      Noise: 0.9

**Peak table for sample 4 : sample 7**

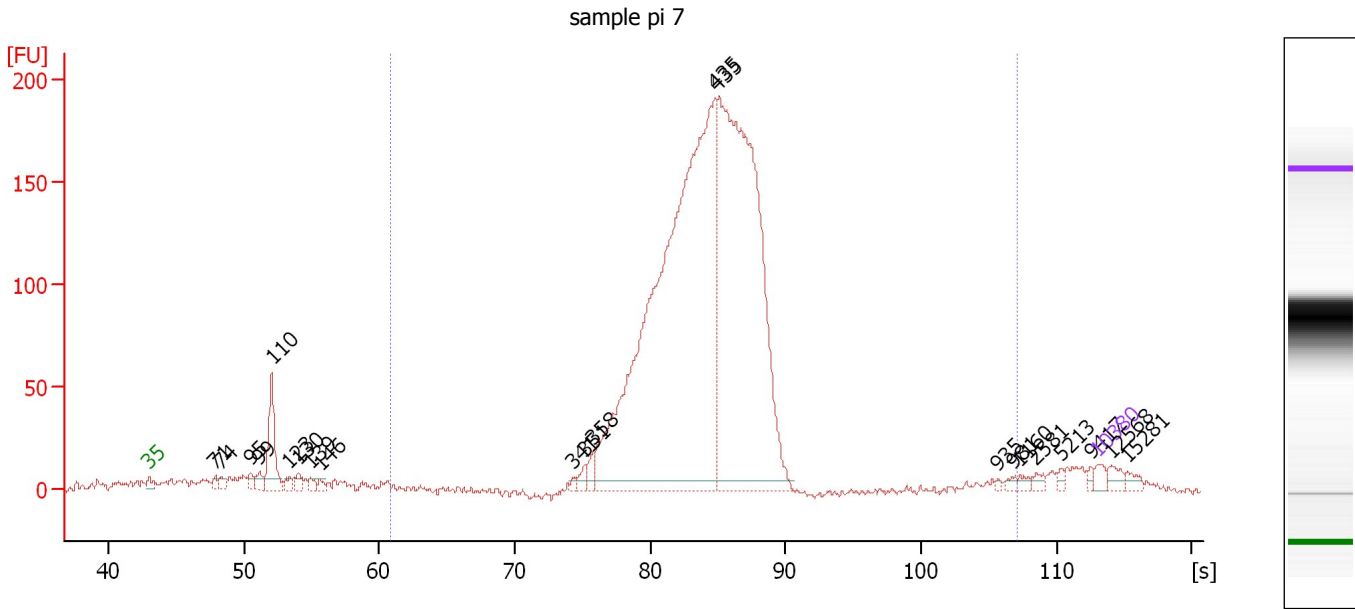
Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	51.85	0	0.00	0.0	
2	53.70	0	0.00	0.0	
3	57.50	0	0.00	0.0	
4	62.65	0	0.00	0.0	
5	64.85	0	0.00	0.0	
6	66.95	0	0.00	0.0	
7	67.65	0	0.00	0.0	
8	91.40	0	0.00	0.0	
9	92.10	0	0.00	0.0	
10	93.20	0	0.00	0.0	
11	93.85	0	0.00	0.0	
12	95.80	0	0.00	0.0	
13	96.75	0	0.00	0.0	
14	101.50	0	0.00	0.0	
15	103.05	0	0.00	0.0	
16	106.00	0	0.00	0.0	
17	109.75	0	0.00	0.0	
18	111.60	0	0.00	0.0	
19	112.50	0	0.00	0.0	
20	114.35	0	0.00	0.0	
21	115.25	0	0.00	0.0	
22	119.70	0	0.00	0.0	
23	124.40	0	0.00	0.0	
24	133.05	0	0.00	0.0	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample pi 7**

Number of peaks found: 22                      Corr. Area 1: 2,226.1  
 Noise: 2.0

**Peak table for sample 5 : sample pi 7**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	47.88	71	106.06	2,248.2	
3	48.20	74	116.63	2,379.3	
4	50.50	95	139.94	2,242.4	
5	51.05	99	169.05	2,575.5	
6	52.04	110	998.06	13,809.0	
7	53.35	123	97.78	1,205.4	
8	54.03	130	116.87	1,364.1	
9	54.90	139	88.57	967.2	
10	55.61	146	67.93	704.8	
11	74.25	341	42.04	186.7	
12	75.16	351	109.69	473.3	
13	75.76	358	122.55	519.2	
14	84.84	435	11,472.44	39,974.5	
15	84.92	435	8,545.21	29,738.6	
16	105.66	935	22.45	36.4	
17	106.73	981	47.01	72.6	
18	107.29	1,160	54.70	71.5	
19	108.48	2,581	56.35	33.1	
20	110.30	5,213	39.93	11.6	
21	112.56	9,417	40.79	6.6	
22	113.00	10,380	75.00	10.9	Upper Marker
23	113.99	12,568	0.00	0.0	
24	115.22	15,281	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

Created: 2/4/2014 2:00:41 PM  
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**Electropherogram Summary Continued ...**

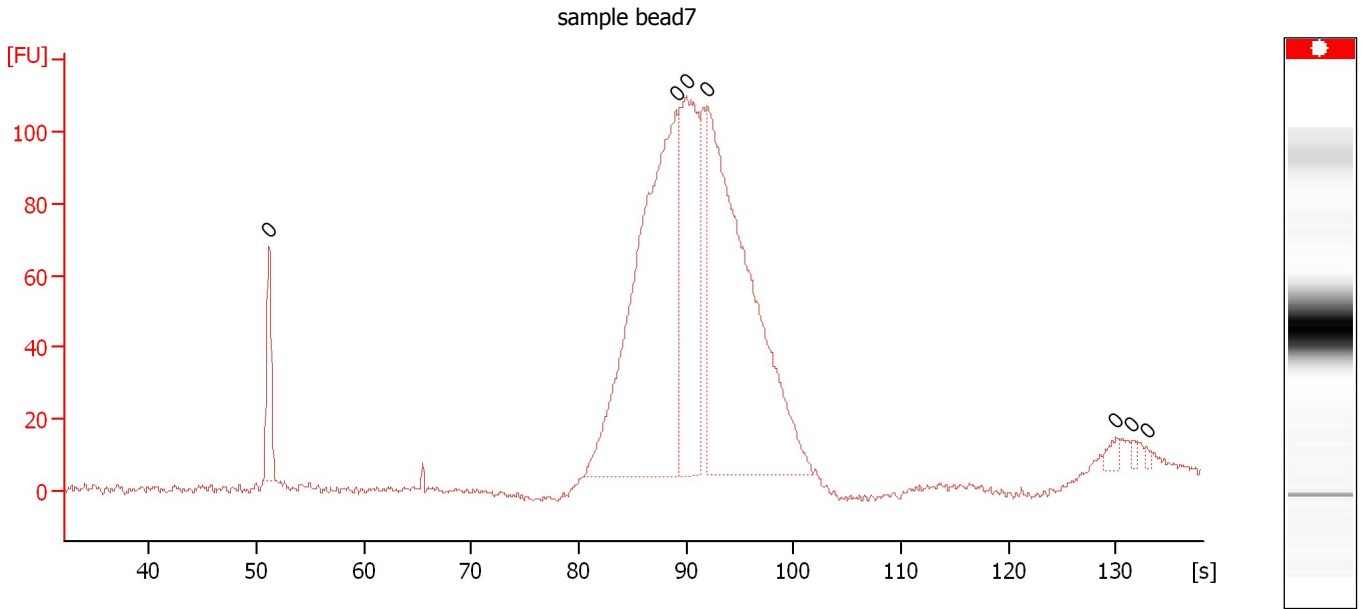
... Region table for sample 5 : sample pi 7

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	431	73,403.8	20,660.64	2,226.1	87	12.2	■

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample bead7**

Number of peaks found: 0 Noise: 1.0

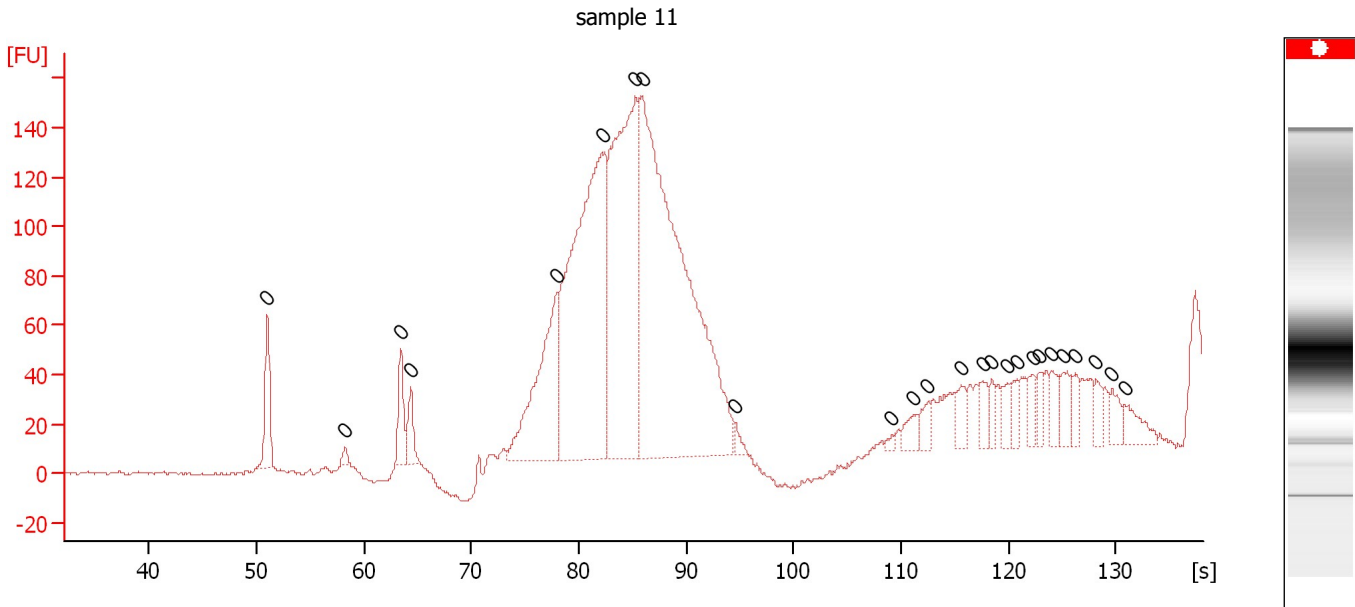
**Peak table for sample 6 : sample bead7**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	51.15	0	0.00	0.0	
2	89.05	0	0.00	0.0	
3	90.00	0	0.00	0.0	
4	91.95	0	0.00	0.0	
5	130.00	0	0.00	0.0	
6	131.50	0	0.00	0.0	
7	132.85	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 11**

Number of peaks found: 0                      Noise: 0.6

**Peak table for sample 7 : sample 11**

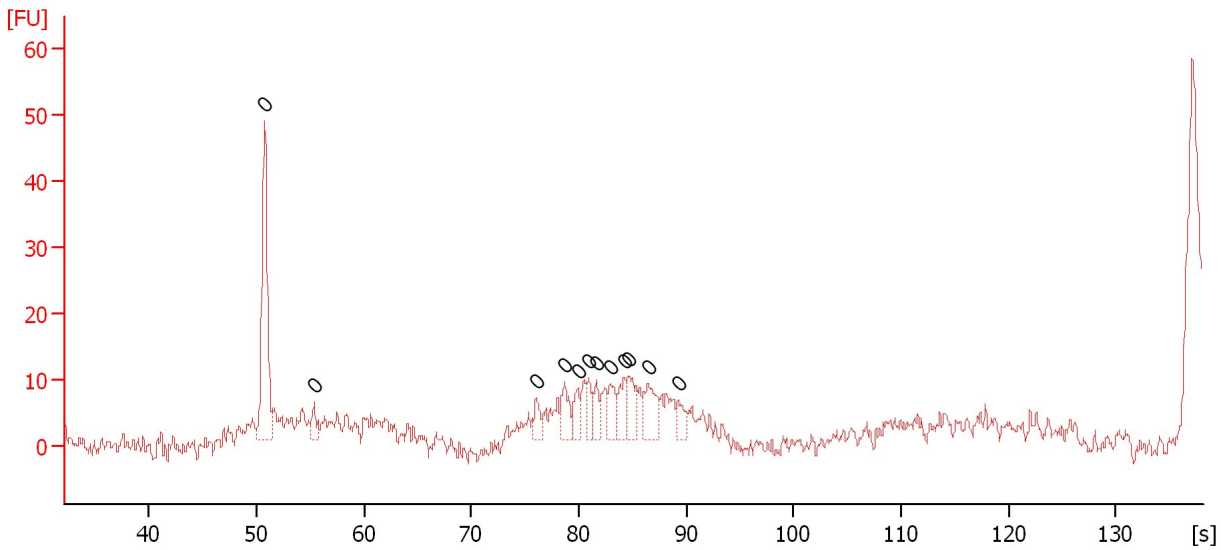
Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	51.00	0	0.00	0.0	
2	58.25	0	0.00	0.0	
3	63.40	0	0.00	0.0	
4	64.35	0	0.00	0.0	
5	78.00	0	0.00	0.0	
6	82.15	0	0.00	0.0	
7	85.25	0	0.00	0.0	
8	85.90	0	0.00	0.0	
9	94.60	0	0.00	0.0	
10	109.15	0	0.00	0.0	
11	111.20	0	0.00	0.0	
12	112.50	0	0.00	0.0	
13	115.60	0	0.00	0.0	
14	117.60	0	0.00	0.0	
15	118.45	0	0.00	0.0	
16	119.85	0	0.00	0.0	
17	120.80	0	0.00	0.0	
18	122.25	0	0.00	0.0	
19	122.85	0	0.00	0.0	
20	123.95	0	0.00	0.0	
21	125.15	0	0.00	0.0	
22	126.25	0	0.00	0.0	
23	128.15	0	0.00	0.0	
24	129.60	0	0.00	0.0	
25	130.80	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

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**Electropherogram Summary Continued ...**

sample pip11



**Overall Results for sample 8 : sample pip11**

Number of peaks found: 0                      Noise: 1.6

**Peak table for sample 8 : sample pip11**

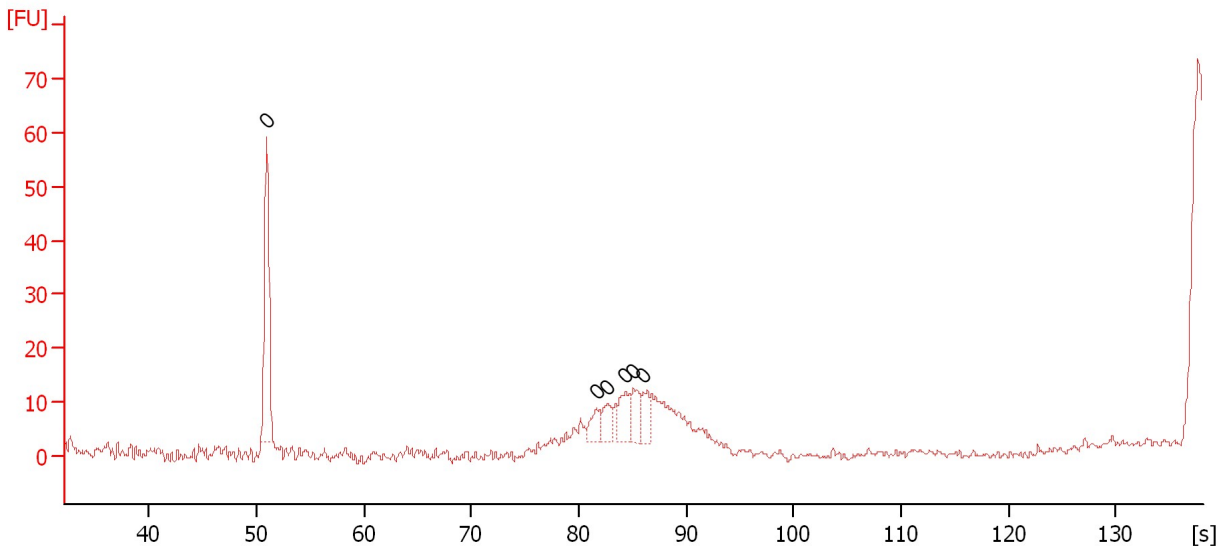
Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	50.75	0	0.00	0.0	
2	55.35	0	0.00	0.0	
3	76.00	0	0.00	0.0	
4	78.65	0	0.00	0.0	
5	79.90	0	0.00	0.0	
6	80.90	0	0.00	0.0	
7	81.65	0	0.00	0.0	
8	82.90	0	0.00	0.0	
9	84.20	0	0.00	0.0	
10	84.60	0	0.00	0.0	
11	86.45	0	0.00	0.0	
12	89.25	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

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**Electropherogram Summary Continued ...**

sample bead 11



**Overall Results for sample 9 : sample bead 11**

Number of peaks found: 0                      Noise: 0.6

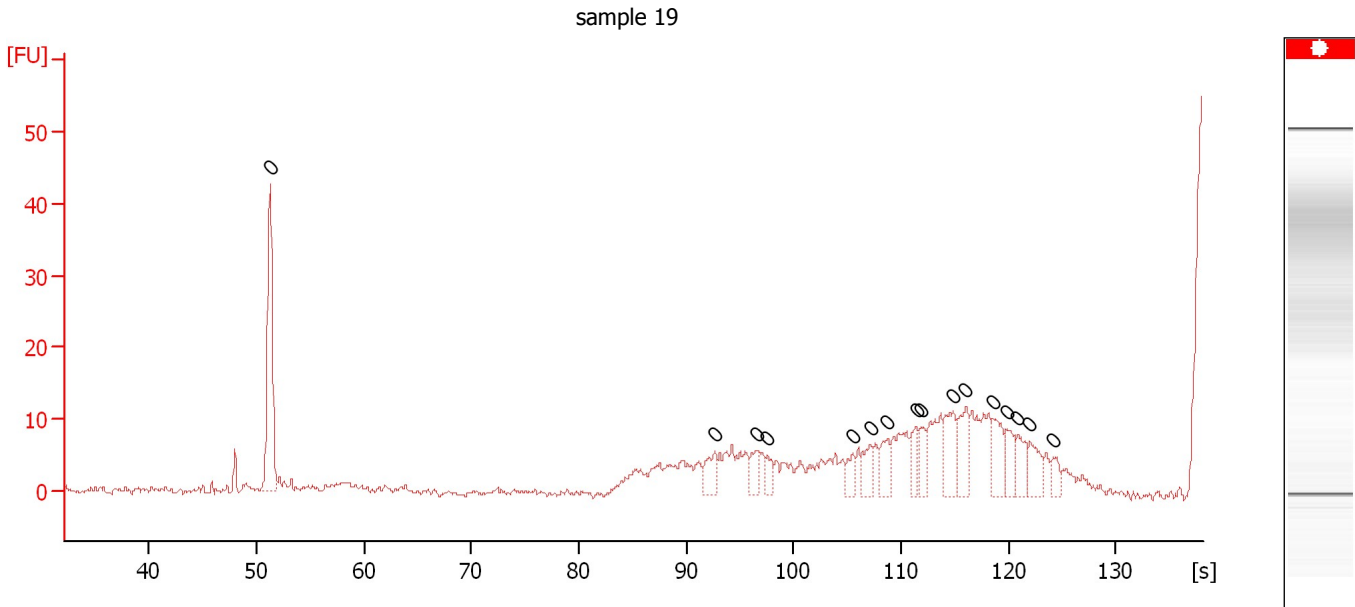
**Peak table for sample 9 : sample bead 11**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	50.95	0	0.00	0.0	
2	81.65	0	0.00	0.0	
3	82.65	0	0.00	0.0	
4	84.35	0	0.00	0.0	
5	85.10	0	0.00	0.0	
6	86.05	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 10 : sample 19**

End Analysis Time Range [s] : 106.05

**Overall Results for sample 10 : sample 19**

Number of peaks found: 0                      Noise: 0.4

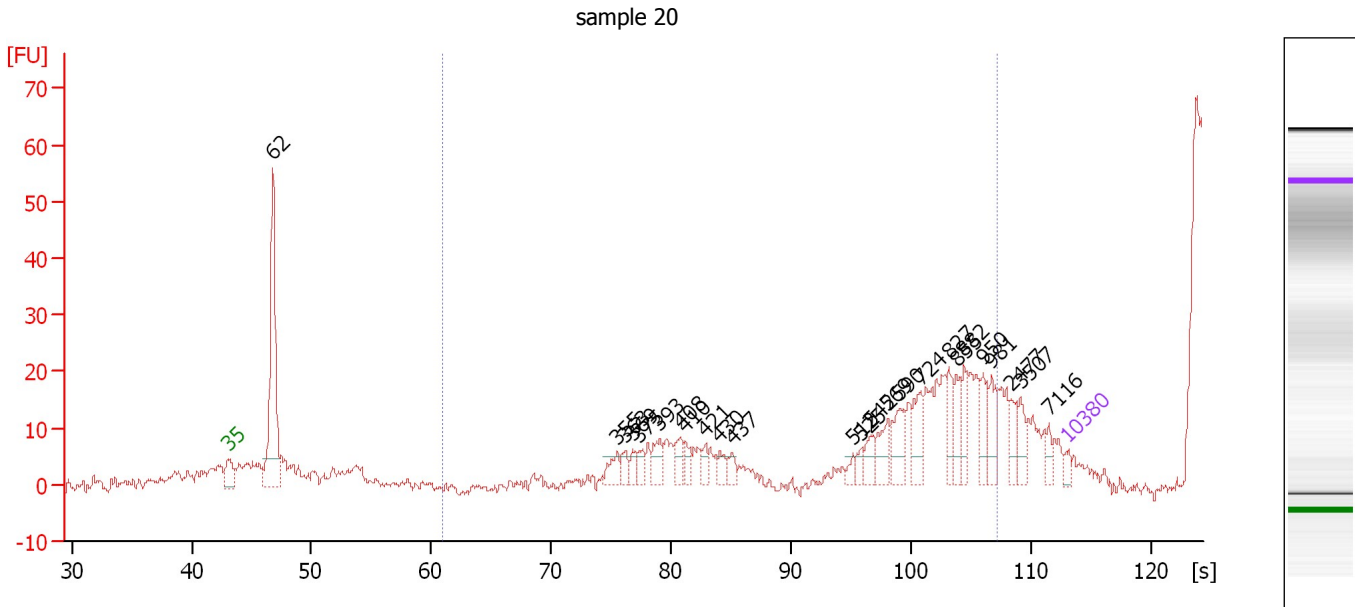
**Peak table for sample 10 : sample 19**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	51.25	0	0.00	0.0	
2	92.70	0	0.00	0.0	
3	96.60	0	0.00	0.0	
4	97.60	0	0.00	0.0	
5	105.55	0	0.00	0.0	
6	107.15	0	0.00	0.0	
7	108.75	0	0.00	0.0	
8	111.40	0	0.00	0.0	
9	111.95	0	0.00	0.0	
10	114.80	0	0.00	0.0	
11	116.05	0	0.00	0.0	
12	118.60	0	0.00	0.0	
13	119.85	0	0.00	0.0	
14	120.90	0	0.00	0.0	
15	122.00	0	0.00	0.0	
16	124.15	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 20**

Number of peaks found: 25                      Corr. Area 1: 0.0  
 Noise: 0.9

**Peak table for sample 11 : sample 20**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	46.76	62	3,258.75	80,081.5	
3	75.49	355	271.17	1,158.3	
4	76.21	363	193.52	808.8	
5	76.79	369	149.86	615.5	
6	77.37	375	184.61	745.4	
7	79.03	393	318.58	1,227.0	
8	80.78	408	256.02	951.6	
9	81.18	410	185.22	683.9	
10	82.84	421	160.20	575.9	
11	84.05	430	173.28	611.2	
12	85.13	437	180.77	627.1	
13	95.16	512	118.34	350.5	
14	95.84	525	143.05	412.9	
15	96.69	542	245.66	687.0	
16	98.08	569	384.91	1,024.5	
17	99.11	590	465.56	1,196.3	
18	100.81	724	445.50	931.9	
19	103.19	827	339.72	622.1	
20	103.81	855	320.93	569.0	
21	104.44	882	333.26	572.6	
22	106.01	950	345.39	550.9	
23	106.73	981	383.90	592.9	
24	108.38	2,477	202.89	124.1	
25	109.19	3,507	232.15	100.3	




Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

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Modified: 2/4/2014 2:42:23 PM

**Electropherogram Summary Continued ...****... Peak table for sample 11 : sample 20**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
26	111.52	7,116	125.70	26.8	
27	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 11 : sample 20**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	0	0.0	0.00	0.0	0	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-04\2014-02-04\_006.xad

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**Gel Image**

