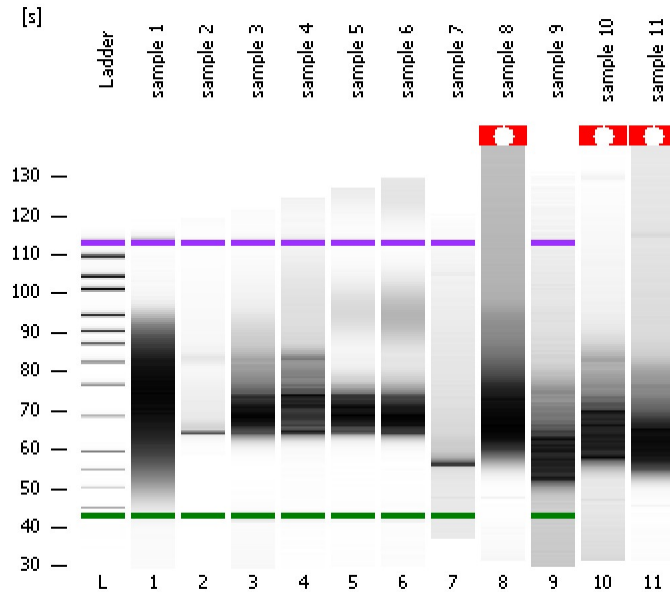


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
Modified: 4/21/2014 11:14:49 AM

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

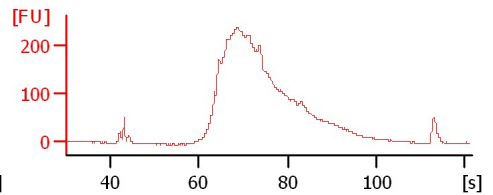
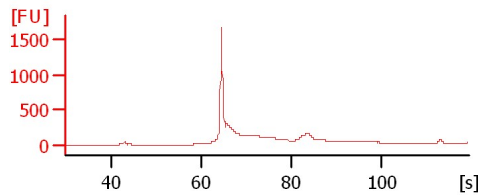
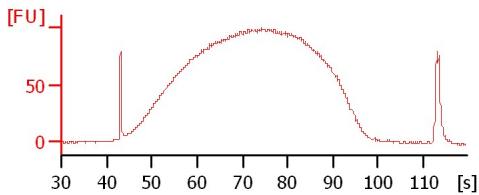
Chip Information:

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

sample 1

sample 2

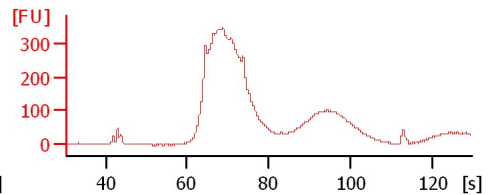
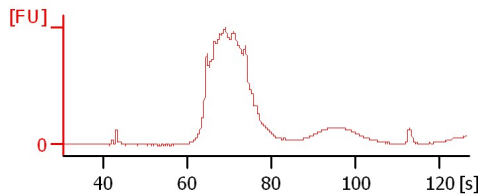
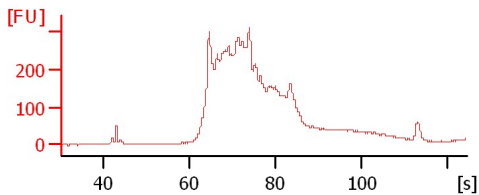
sample 3



sample 4

sample 5

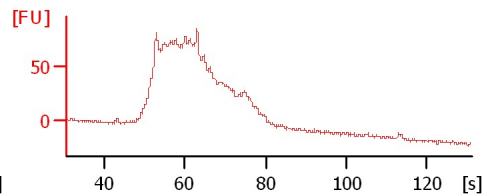
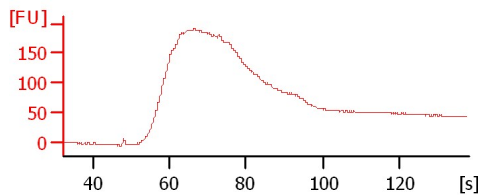
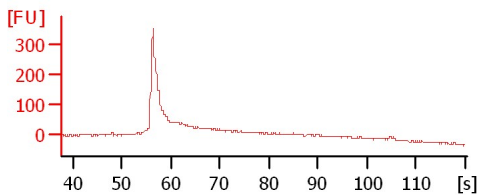
sample 6



sample 7

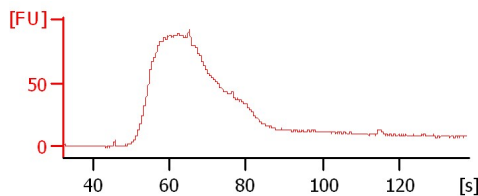
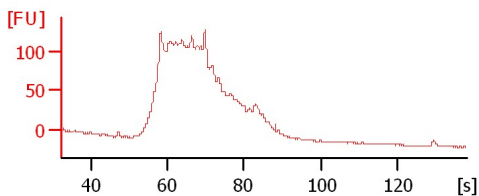
sample 8

sample 9



sample 10

sample 11



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
 Modified: 4/21/2014 11:14:49 AM

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:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
Modified: 4/21/2014 11:14:49 AM

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

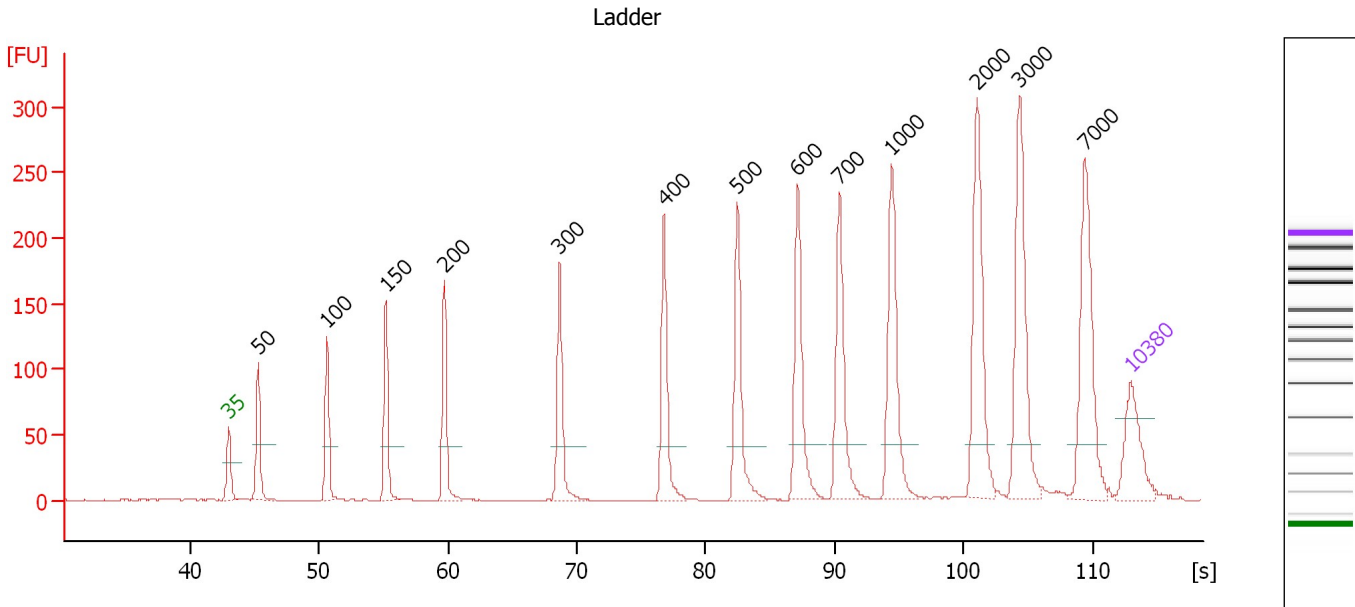
Ladder

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\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
 Modified: 4/21/2014 11:14:49 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

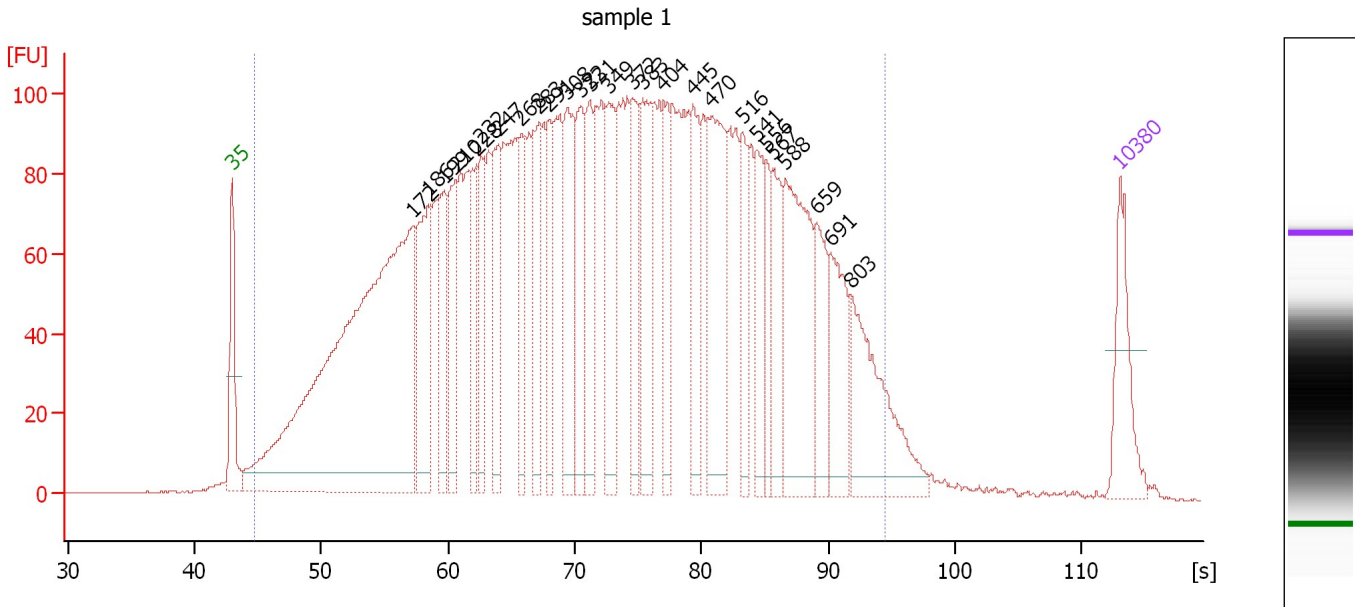
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.29	50	150.00	4,545.5	Ladder Peak
3	50.62	100	150.00	2,272.7	Ladder Peak
4	55.21	150	150.00	1,515.2	Ladder Peak
5	59.75	200	150.00	1,136.4	Ladder Peak
6	68.67	300	150.00	757.6	Ladder Peak
7	76.79	400	150.00	568.2	Ladder Peak
8	82.46	500	150.00	454.5	Ladder Peak
9	87.17	600	150.00	378.8	Ladder Peak
10	90.42	700	150.00	324.7	Ladder Peak
11	94.42	1,000	150.00	227.3	Ladder Peak
12	101.08	2,000	150.00	113.6	Ladder Peak
13	104.37	3,000	150.00	75.8	Ladder Peak
14	109.42	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
 Modified: 4/21/2014 11:14:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 27 Corr. Area 1: 5,257.6
 Noise: 0.2

Peak table for sample 1 : sample 1


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	57.19	172	1,302.19	11,485.9	
3	58.46	186	222.99	1,818.8	
4	59.68	199	139.09	1,057.5	
5	60.62	210	147.67	1,066.8	
6	62.23	228	115.52	768.5	
7	62.61	232	117.68	768.4	
8	63.96	247	150.18	920.3	
9	65.78	268	115.11	651.6	
10	67.18	283	137.56	735.6	
11	67.90	291	104.72	544.5	
12	69.34	308	189.77	932.7	
13	70.44	322	131.21	617.7	
14	71.20	331	121.81	557.2	
15	72.69	349	153.72	666.5	
16	74.51	372	112.44	458.1	
17	75.40	383	150.37	595.2	
18	77.00	404	84.62	317.6	
19	79.33	445	117.12	398.9	
20	80.73	470	212.74	686.5	
21	83.23	516	86.20	252.9	
22	84.37	541	89.08	249.6	
23	85.09	556	61.04	166.4	
24	85.60	567	89.42	239.1	
25	86.62	588	235.94	607.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad


Created: 4/21/2014 10:34:17 AM
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Electropherogram Summary Continued ...

... Peak table for sample 1 : sample 1

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
26	89.07	659	90.53	208.3	
27	90.13	691	115.58	253.3	
28	91.78	803	184.81	348.9	
29	 113.00	10,380	75.00	10.9	Upper Marker

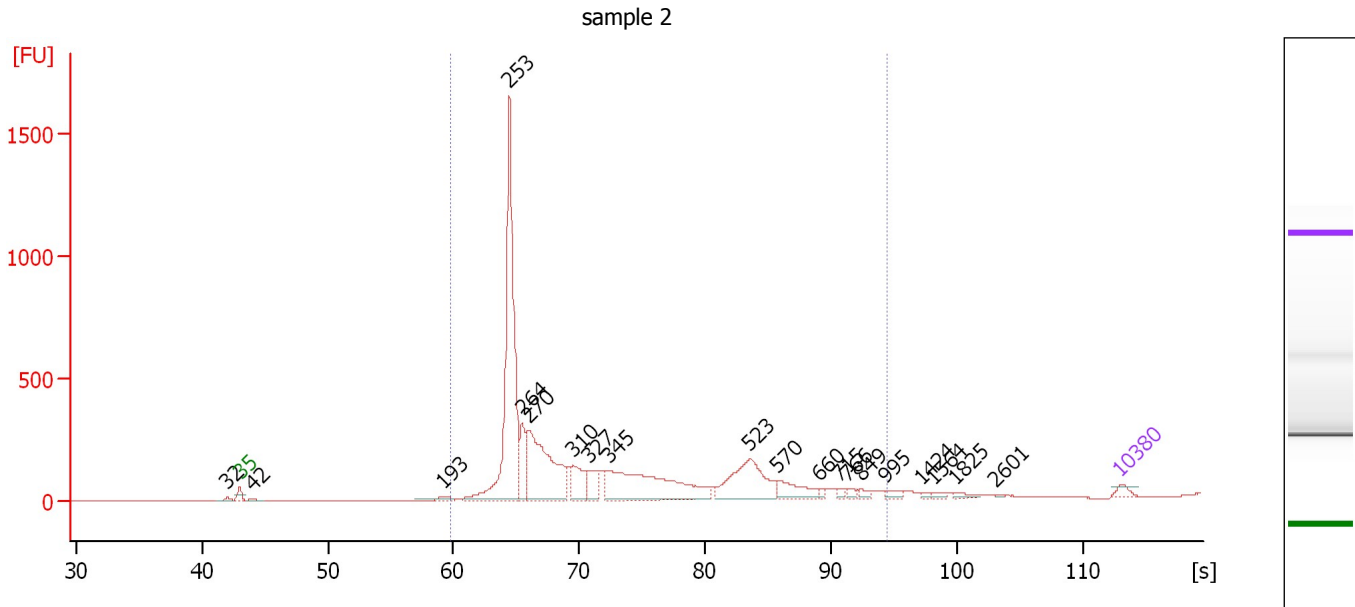
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
46	1,000	371	46,014.8	6,983.29	 5,257.6	98	49.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 20 Corr. Area 1: 5,404.4
 Noise: 0.1

Peak table for sample 2 : sample 2


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	42.02	32	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	44.02	42	55.66	2,023.7	
4	59.14	193	112.86	884.7	
5	64.45	253	4,814.26	28,864.1	
6	65.43	264	610.33	3,507.2	
7	66.02	270	2,323.66	13,023.3	
8	69.50	310	566.34	2,765.2	
9	70.82	327	404.33	1,876.2	
10	72.31	345	2,194.13	9,641.1	
11	83.56	523	1,238.09	3,583.4	
12	85.77	570	405.91	1,078.2	
13	89.13	660	49.80	114.3	
14	90.62	715	61.39	130.1	
15	91.29	766	69.51	137.5	
16	92.40	849	70.32	125.5	
17	94.35	995	77.05	117.3	
18	97.24	1,424	32.06	34.1	
19	98.18	1,564	42.54	41.2	
20	99.92	1,825	53.53	44.4	
21	103.06	2,601	11.34	6.6	
22	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
Modified: 4/21/2014 11:14:49 AM

Electropherogram Summary Continued ...

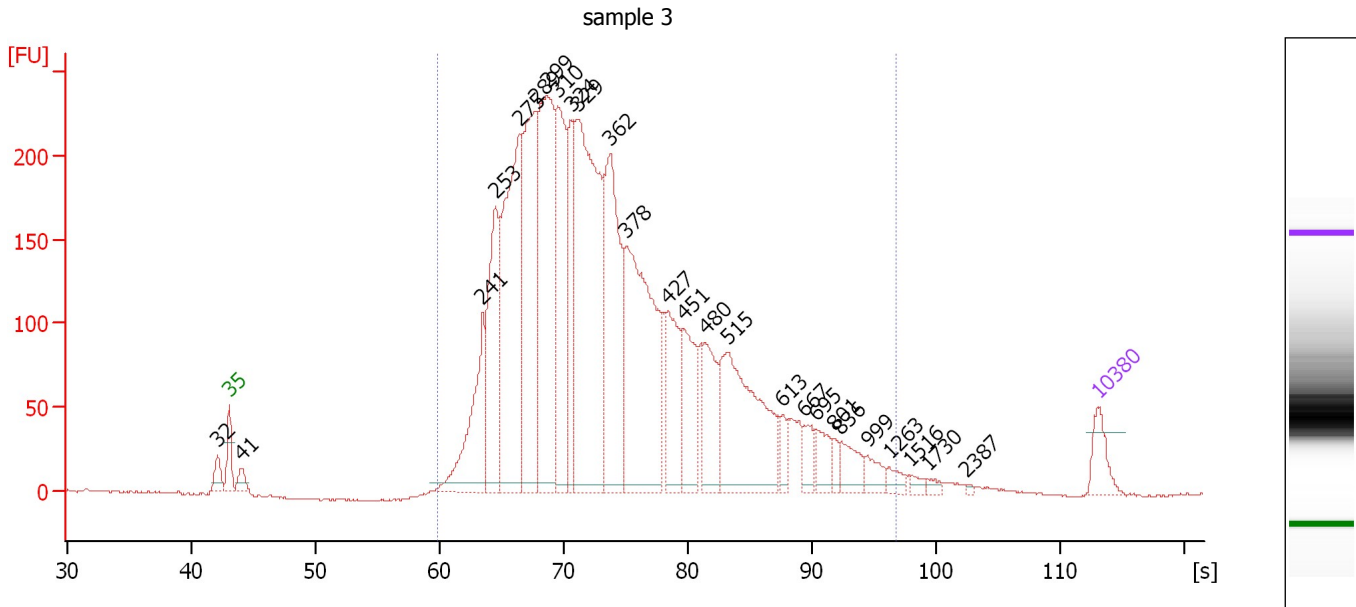
... Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	356	60,223.0	12,200.17	 5,404.4	98	38.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

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 Modified: 4/21/2014 11:14:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 26 Corr. Area 1: 5,337.9
 Noise: 0.6

Peak table for sample 3 : sample 3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	42.09	32	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	43.95	41	54.08	1,987.3	
4	63.42	241	450.94	2,833.1	
5	64.46	253	589.07	3,530.5	
6	66.41	275	1,024.10	5,649.8	
7	67.70	289	845.10	4,427.6	
8	68.61	299	983.90	4,979.4	
9	69.48	310	588.78	2,878.0	
10	70.60	324	344.80	1,613.3	
11	71.03	329	1,314.31	6,050.2	
12	73.72	362	724.31	3,030.3	
13	75.01	378	958.38	3,840.2	
14	78.30	427	314.77	1,117.8	
15	79.69	451	269.22	904.3	
16	81.33	480	256.04	808.0	
17	83.15	515	647.90	1,907.4	
18	87.60	613	47.59	117.5	
19	89.33	667	71.13	161.6	
20	90.24	695	89.84	195.9	
21	91.76	801	34.14	64.6	
22	92.23	836	93.62	169.6	
23	94.40	999	53.94	81.8	
24	96.17	1,263	29.88	35.8	
25	97.86	1,516	17.44	17.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

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Electropherogram Summary Continued ...

... Peak table for sample 3 : sample 3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
26	99.29	1,730	14.90	13.0	
27	102.36	2,387	5.22	3.3	
28	113.00	10,380	75.00	10.9	Upper Marker

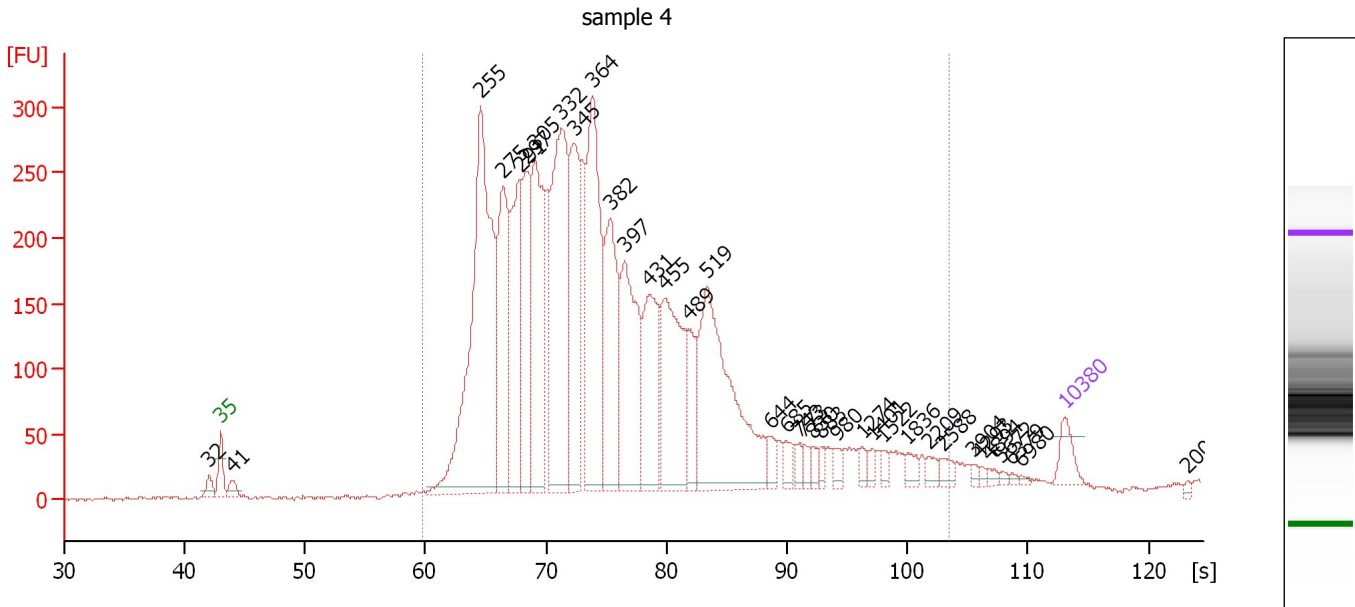
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,349	388	44,653.8	9,964.41	5,337.9	98	39.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 36 Corr. Area 1: 6,603.9
 Noise: 1.5

Peak table for sample 4 : sample 4

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	42.02	32	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	43.94	41	62.84	2,315.2	
4	64.61	255	2,020.67	12,029.5	
5	66.44	275	792.80	4,368.1	
6	67.86	291	661.87	3,446.3	
7	68.40	297	600.92	3,065.8	
8	69.07	305	846.82	4,207.9	
9	71.29	332	1,214.78	5,538.3	
10	72.32	345	640.18	2,811.9	
11	73.88	364	1,016.37	4,229.0	
12	75.35	382	641.58	2,543.1	
13	76.51	397	691.09	2,640.9	
14	78.56	431	501.17	1,761.2	
15	79.89	455	706.41	2,353.7	
16	81.85	489	193.68	599.7	
17	83.37	519	1,071.87	3,127.1	
18	88.58	644	70.69	166.4	
19	89.92	685	58.06	128.5	
20	90.99	743	42.61	86.9	
21	91.39	773	38.00	74.5	
22	92.15	830	32.56	59.4	
23	92.86	883	31.49	54.0	
24	94.15	980	37.51	58.0	
25	96.25	1,274	30.52	36.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
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Electropherogram Summary Continued ...

... Peak table for sample 4 : sample 4

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	97.09	1,401	30.79	33.3	
27	97.89	1,522	25.48	25.4	
28	99.99	1,836	37.76	31.2	
29	101.77	2,209	30.28	20.8	
30	103.02	2,588	35.81	21.0	
31	105.51	3,904	11.99	4.7	
32	106.00	4,293	11.43	4.0	
33	106.76	4,894	15.50	4.8	
34	107.74	5,672	9.63	2.6	
35	108.63	6,379	9.06	2.2	
36	109.39	6,980	7.33	1.6	
37	113.00	10,380	75.00	10.9	Upper Marker
38	123.25	20,047	0.00	0.0	

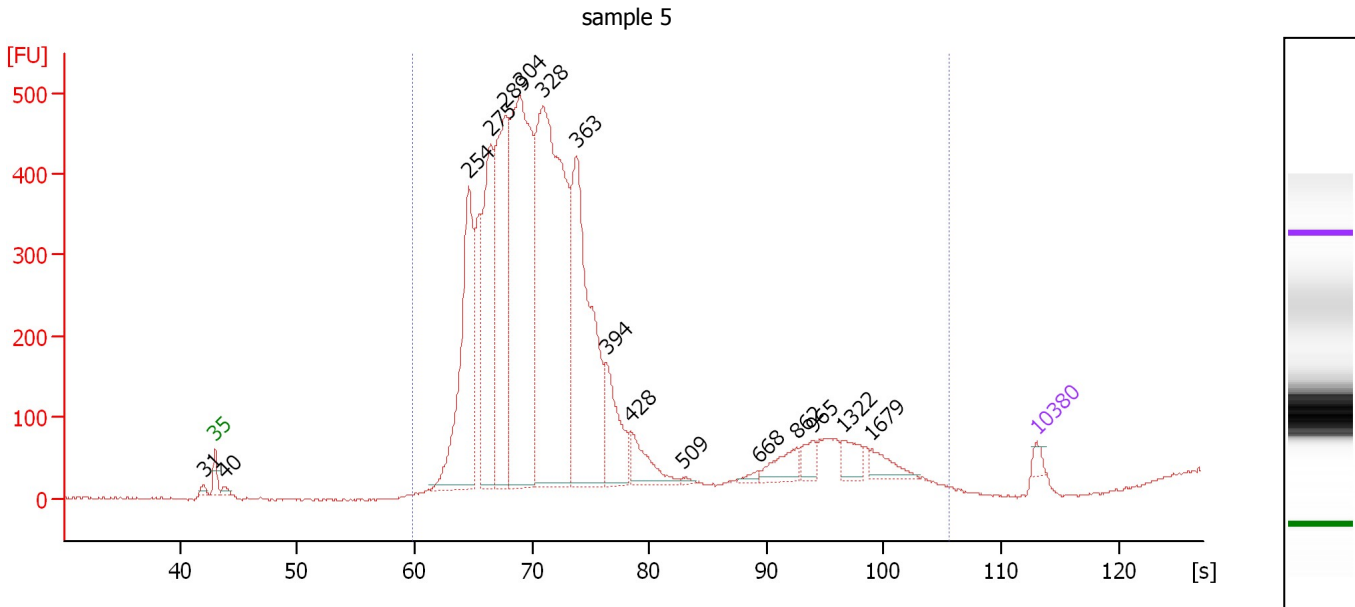
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	2,719	442	55,376.2	12,753.37	6,603.9	98	69.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 16 Corr. Area 1: 7,815.5
 Noise: 1.6

Peak table for sample 5 : sample 5

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	41.99	31	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	43.78	40	79.67	3,010.8	
4	64.61	254	3,063.99	18,241.8	
5	66.44	275	2,561.05	14,108.9	
6	67.72	289	3,395.05	17,774.4	
7	68.96	304	5,412.56	27,013.1	
8	70.93	328	6,740.97	31,156.4	
9	73.81	363	3,765.50	15,703.4	
10	76.33	394	973.30	3,740.0	
11	78.39	428	519.07	1,836.7	
12	82.88	509	33.91	101.0	
13	89.38	668	62.99	142.9	
14	92.58	862	322.07	565.9	
15	93.95	965	202.27	317.5	
16	96.56	1,322	243.45	279.0	
17	98.95	1,679	220.94	199.3	
18	113.00	10,380	75.00	10.9	Upper Marker

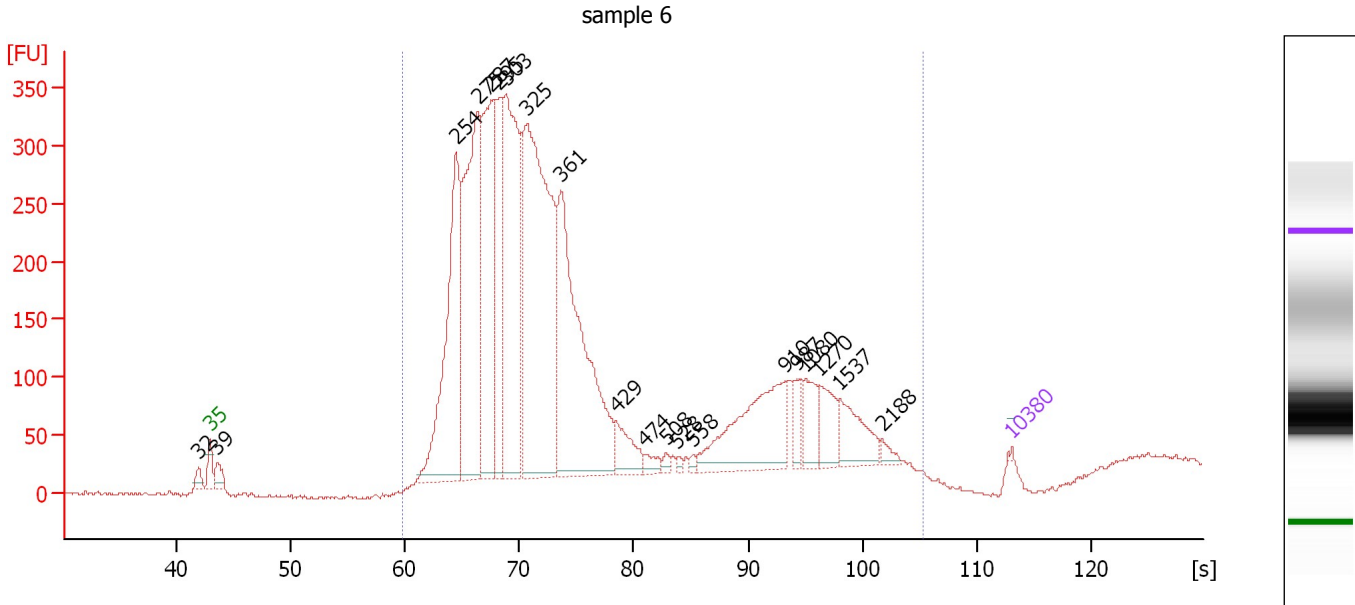
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	3,947	395	135,367.3	28,782.50	7,815.5	100	70.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 20 Corr. Area 1: 6,249.8
 Noise: 1.9

Peak table for sample 6 : sample 6


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	42.02	32	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	43.66	39	1,493.16	57,571.5	
4	64.52	254	20,398.70	121,921.4	
5	66.40	275	24,024.46	132,591.3	
6	67.52	287	17,922.49	94,567.4	
7	68.22	295	9,662.33	49,620.0	
8	68.88	303	21,443.43	107,357.0	
9	70.66	325	33,415.00	155,990.4	
10	73.66	361	24,507.95	102,721.4	
11	78.45	429	2,650.04	9,355.4	
12	80.98	474	741.72	2,371.6	
13	82.85	508	360.33	1,073.9	
14	83.79	528	264.80	759.5	
15	85.20	558	257.48	698.9	
16	93.21	910	9,267.80	15,433.8	
17	94.25	987	1,201.41	1,843.9	
18	94.95	1,080	2,272.50	3,188.5	
19	96.22	1,270	2,479.57	2,958.8	
20	98.00	1,537	3,171.41	3,126.3	
21	101.70	2,188	497.61	344.7	
22	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
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Electropherogram Summary Continued ...

... Region table for sample 6 : sample 6

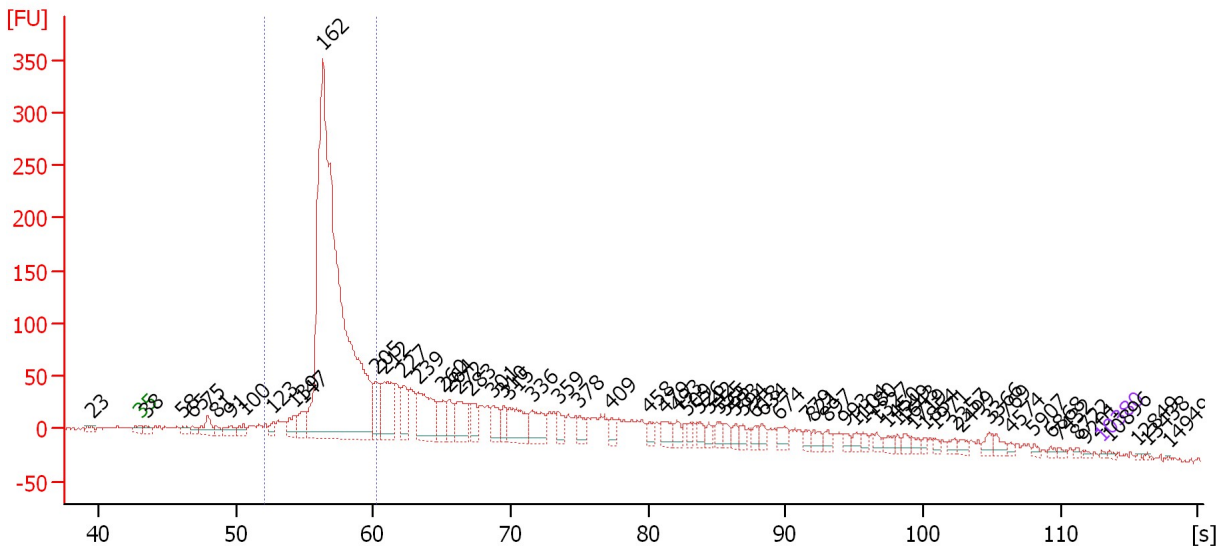
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	3,730	481	808,361.3	179,132.17	 6,249.8	99	81.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
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Electropherogram Summary Continued ...

sample 7



Overall Results for sample 7 : sample 7

Number of peaks found: 67 Corr. Area 1: 1,577.6
 Noise: 1.9

Peak table for sample 7 : sample 7

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	39.52	23	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	43.43	38	637.73	25,553.8	
4	46.16	58	530.17	13,807.1	
5	46.87	65	573.52	13,416.2	
6	47.96	75	1,424.87	28,775.9	
7	48.59	81	526.58	9,864.1	
8	49.64	91	930.83	15,537.4	
9	50.58	100	837.70	12,748.5	
10	52.73	123	666.09	8,210.0	
11	54.21	139	1,292.13	14,072.6	
12	54.91	147	1,642.87	16,957.5	
13	56.32	162	62,407.75	582,815.2	
14	60.19	205	2,559.17	18,923.4	
15	60.85	212	4,029.98	28,754.0	
16	62.18	227	2,391.02	15,941.8	
17	63.23	239	4,504.75	28,548.8	
18	65.07	260	1,540.89	8,991.0	
19	65.46	264	1,699.41	9,751.5	
20	66.20	272	2,392.25	13,307.6	
21	67.14	283	1,448.39	7,757.7	
22	68.74	301	1,530.87	7,707.8	
23	69.45	310	1,004.68	4,917.1	
24	69.91	315	2,741.73	13,173.0	
25	71.55	336	2,187.61	9,878.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
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Electropherogram Summary Continued ...

... Peak table for sample 7 : sample 7

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	73.43	359	938.85	3,966.6	
27	74.99	378	818.84	3,283.5	
28	77.30	409	706.49	2,617.8	
29	80.07	458	565.68	1,871.9	
30	81.28	479	1,029.24	3,254.1	
31	82.06	493	679.52	2,088.3	
32	82.88	509	516.18	1,536.5	
33	83.70	526	677.66	1,950.4	
34	84.45	542	493.46	1,378.9	
35	85.07	555	561.11	1,530.5	
36	85.54	565	519.00	1,390.7	
37	86.36	583	456.86	1,187.6	
38	86.87	594	473.19	1,207.7	
39	87.77	618	405.66	993.9	
40	88.27	634	544.82	1,301.9	
41	89.56	674	718.74	1,616.4	
42	91.48	779	417.11	810.8	
43	92.02	821	474.15	875.6	
44	93.04	897	451.53	763.0	
45	94.33	993	287.49	438.5	
46	95.11	1,104	328.62	451.0	
47	95.62	1,180	330.45	424.3	
48	96.59	1,327	321.33	367.0	
49	97.41	1,450	358.45	374.7	
50	98.08	1,549	231.39	226.3	
51	98.70	1,643	337.88	311.6	
52	99.21	1,719	255.88	225.5	
53	100.11	1,854	190.24	155.5	
54	100.89	1,971	184.16	141.6	
55	102.26	2,357	295.59	190.0	
56	102.73	2,499	265.14	160.7	
57	104.84	3,366	379.79	171.0	
58	105.34	3,769	376.25	151.3	
59	106.36	4,574	160.44	53.1	
60	108.04	5,907	166.73	42.8	
61	109.25	6,868	145.35	32.1	
62	109.88	7,432	149.05	30.4	
63	111.24	8,722	115.87	20.1	
64	111.75	9,201	97.48	16.1	
65	113.00	10,380	75.00	10.9	Upper Marker
66	113.55	10,896	0.00	0.0	
67	115.62	12,849	0.00	0.0	
68	116.24	13,438	0.00	0.0	
69	117.84	14,949	0.00	0.0	

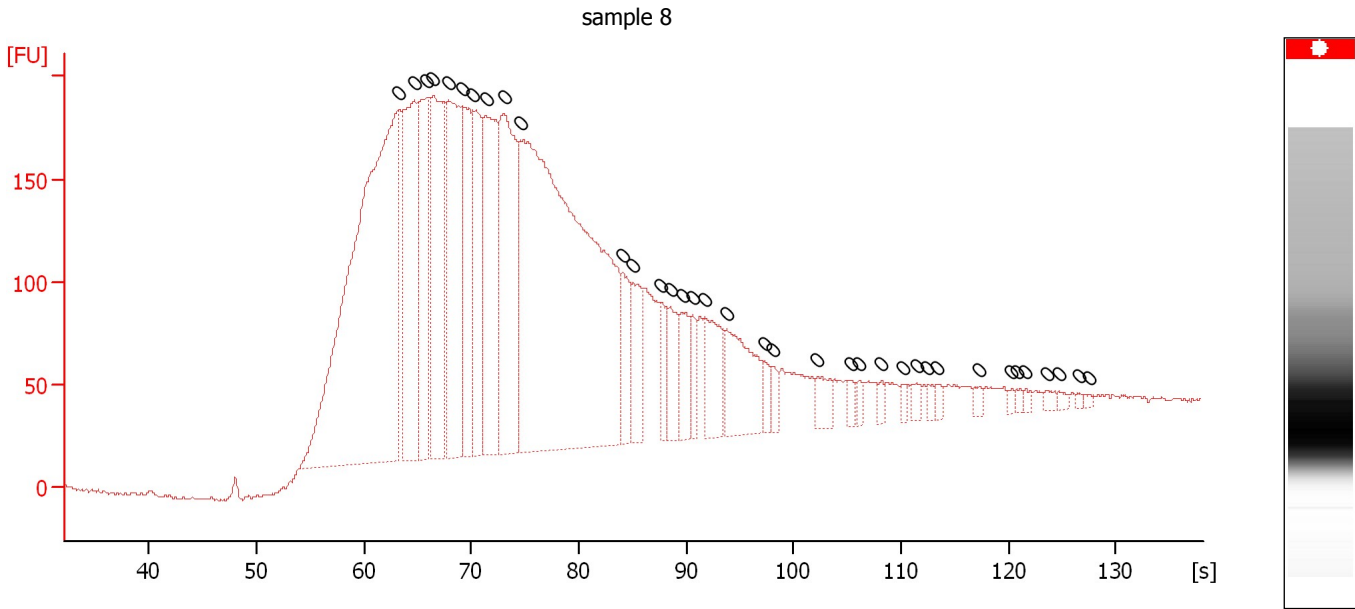
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
116	206	170	583,907.8	65,059.80	 1,577.6	46	9.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 0 Noise: 0.8

Peak table for sample 8 : sample 8

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	63.15	0	0.00	0.0	
2	64.70	0	0.00	0.0	
3	65.85	0	0.00	0.0	
4	66.45	0	0.00	0.0	
5	67.85	0	0.00	0.0	
6	69.15	0	0.00	0.0	
7	70.20	0	0.00	0.0	
8	71.35	0	0.00	0.0	
9	73.05	0	0.00	0.0	
10	74.55	0	0.00	0.0	
11	84.10	0	0.00	0.0	
12	85.00	0	0.00	0.0	
13	87.60	0	0.00	0.0	
14	88.50	0	0.00	0.0	
15	89.60	0	0.00	0.0	
16	90.60	0	0.00	0.0	
17	91.75	0	0.00	0.0	
18	93.70	0	0.00	0.0	
19	97.25	0	0.00	0.0	
20	98.05	0	0.00	0.0	
21	102.25	0	0.00	0.0	
22	105.30	0	0.00	0.0	
23	106.15	0	0.00	0.0	
24	108.15	0	0.00	0.0	
25	110.15	0	0.00	0.0	
26	111.40	0	0.00	0.0	
27	112.50	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
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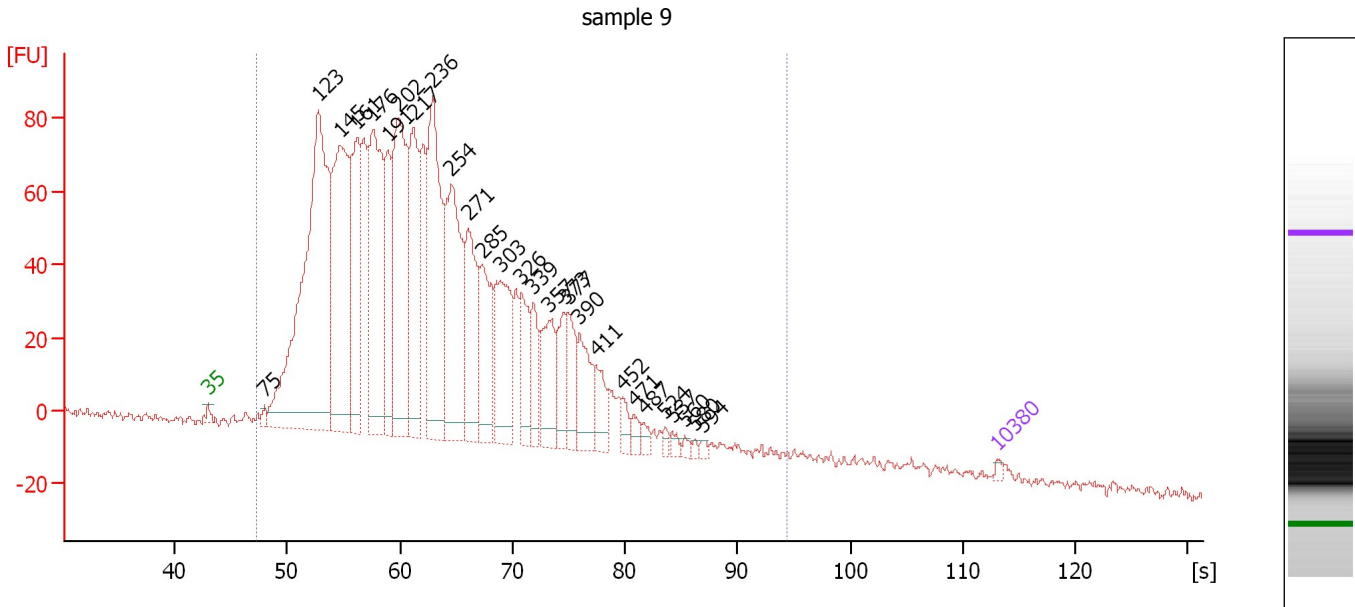
Electropherogram Summary Continued ...**... Peak table for sample 8 : sample 8**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
28	113.30	0	0.00	0.0	
29	117.20	0	0.00	0.0	
30	120.30	0	0.00	0.0	
31	120.80	0	0.00	0.0	
32	121.60	0	0.00	0.0	
33	123.60	0	0.00	0.0	
34	124.65	0	0.00	0.0	
35	126.65	0	0.00	0.0	
36	127.55	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 28 Corr. Area 1: 2,788.1
 Noise: 1.5

Peak table for sample 9 : sample 9

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	48.01	75	211.81	4,253.1	
3	52.78	123	17,055.10	209,312.4	
4	54.78	145	9,581.64	99,911.5	
5	56.21	161	4,483.29	42,188.9	
6	57.59	176	7,150.12	61,472.2	
7	58.93	191	3,073.94	24,393.2	
8	59.93	202	6,848.25	51,368.5	
9	61.26	217	4,758.66	33,231.1	
10	62.93	236	6,446.68	41,443.9	
11	64.60	254	5,635.00	33,560.6	
12	66.08	271	3,343.25	18,693.3	
13	67.37	285	2,660.81	14,125.0	
14	68.94	303	3,359.31	16,778.0	
15	70.80	326	1,596.83	7,415.8	
16	71.85	339	1,202.66	5,372.6	
17	73.28	357	1,829.71	7,770.5	
18	74.57	373	1,219.91	4,960.5	
19	74.95	377	1,181.09	4,742.9	
20	75.95	390	1,537.52	5,978.8	
21	77.43	411	872.22	3,213.7	
22	79.72	452	366.53	1,229.7	
23	80.81	471	301.77	970.8	
24	81.72	487	224.64	698.9	
25	83.58	524	141.77	410.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

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Electropherogram Summary Continued ...

... Peak table for sample 9 : sample 9

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
26	84.20	537	174.52	492.4	
27	85.30	560	131.98	356.9	
28	86.20	580	83.48	218.3	
29	86.87	594	122.27	312.0	
30	113.00	10,380	75.00	10.9	Upper Marker

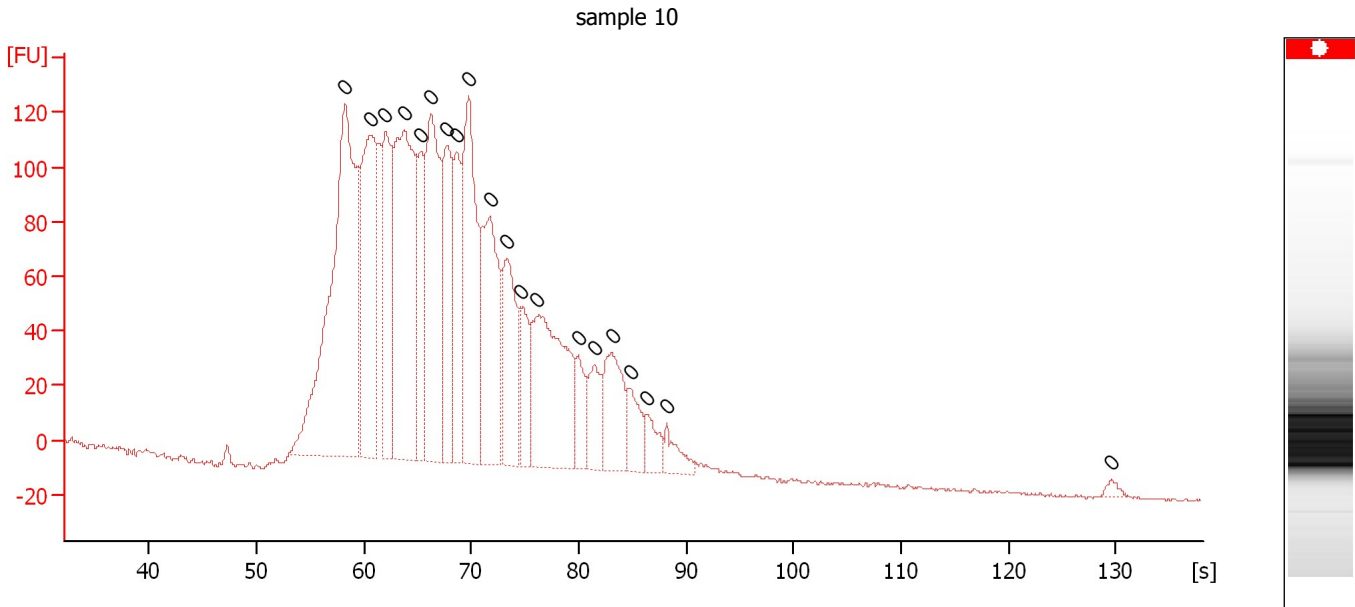
Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. for Area	% of Total	Size distribution in CV [%]
68	1,000	248	772,022.3	96,142.01	2,788.1	96	48.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
 Modified: 4/21/2014 11:14:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 0 Noise: 0.6

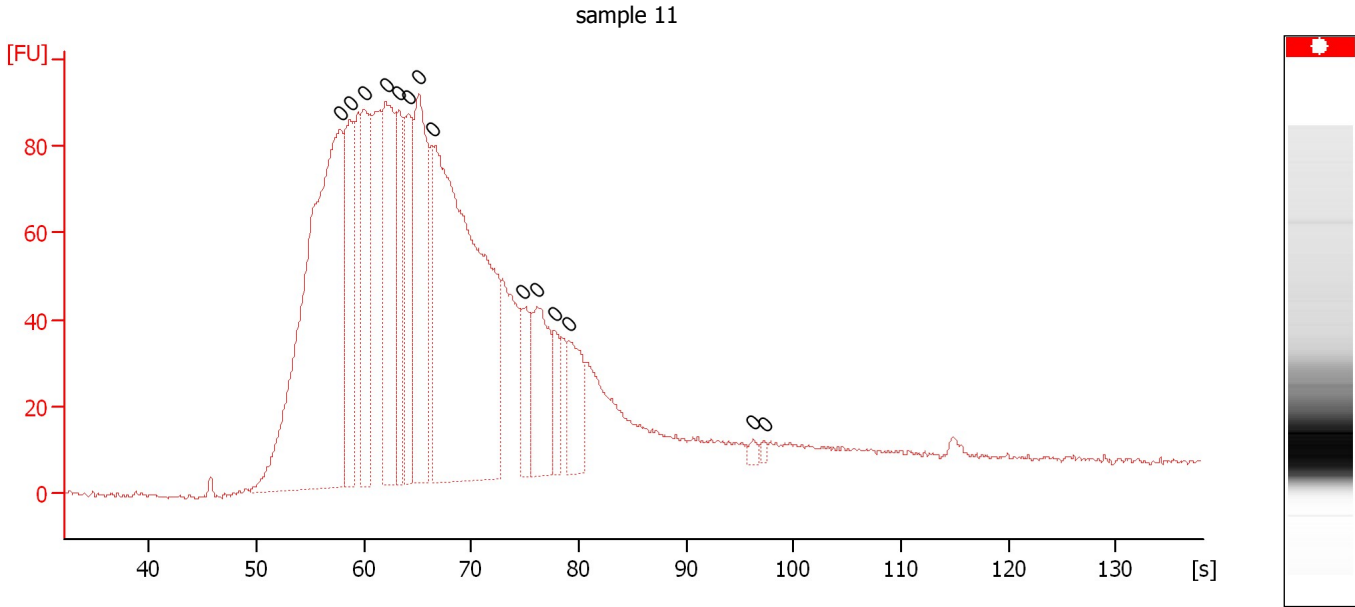
Peak table for sample 10 : sample 10

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	58.20	0	0.00	0.0	
2	60.70	0	0.00	0.0	
3	62.00	0	0.00	0.0	
4	63.75	0	0.00	0.0	
5	65.30	0	0.00	0.0	
6	66.25	0	0.00	0.0	
7	67.65	0	0.00	0.0	
8	68.60	0	0.00	0.0	
9	69.75	0	0.00	0.0	
10	71.70	0	0.00	0.0	
11	73.30	0	0.00	0.0	
12	74.60	0	0.00	0.0	
13	76.10	0	0.00	0.0	
14	79.95	0	0.00	0.0	
15	81.45	0	0.00	0.0	
16	83.10	0	0.00	0.0	
17	84.75	0	0.00	0.0	
18	86.25	0	0.00	0.0	
19	88.20	0	0.00	0.0	
20	129.60	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 0 Noise: 0.5

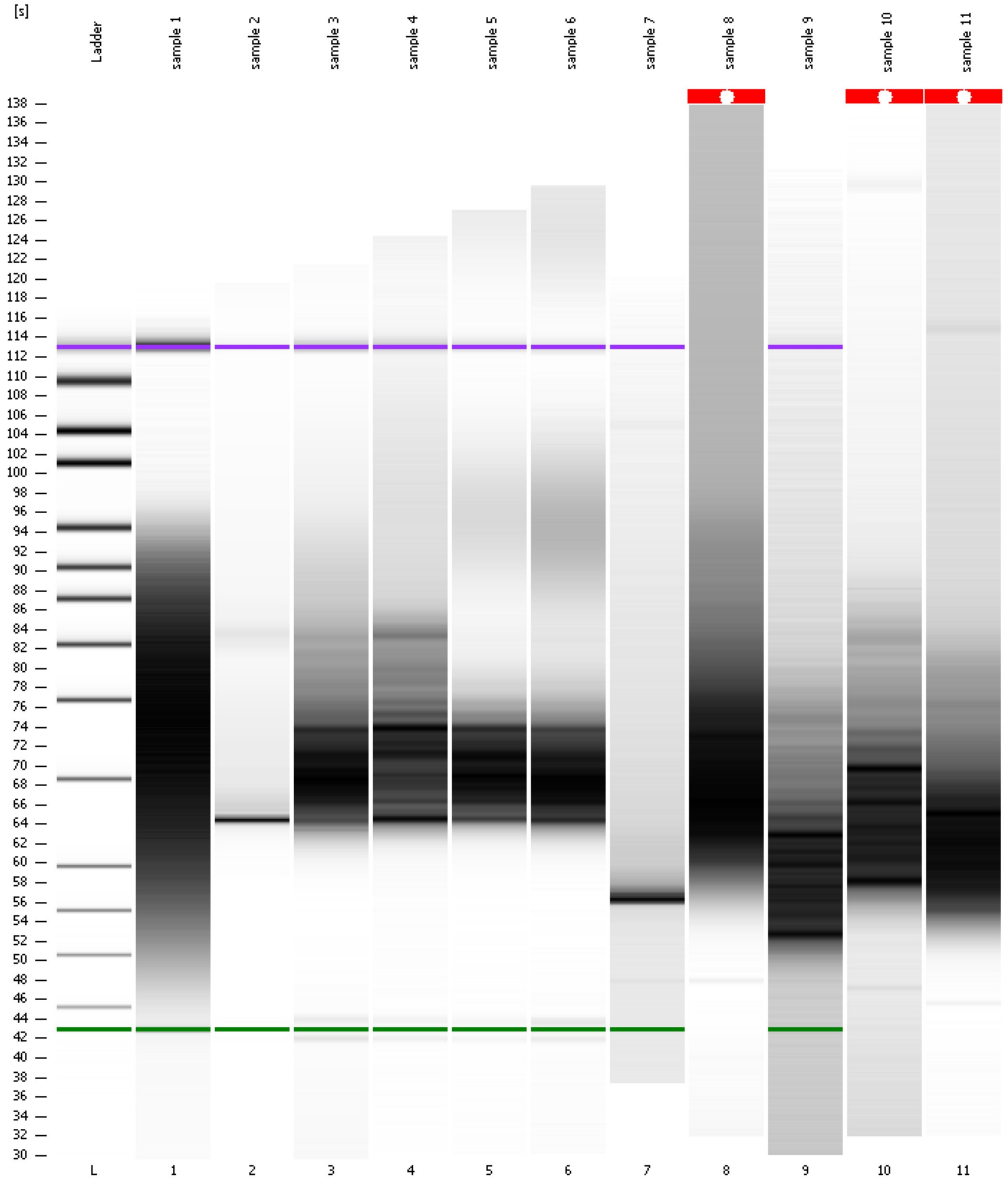
Peak table for sample 11 : sample 11

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	57.80	0	0.00	0.0	
2	58.70	0	0.00	0.0	
3	60.05	0	0.00	0.0	
4	62.05	0	0.00	0.0	
5	63.25	0	0.00	0.0	
6	64.15	0	0.00	0.0	
7	65.10	0	0.00	0.0	
8	66.35	0	0.00	0.0	
9	74.80	0	0.00	0.0	
10	76.10	0	0.00	0.0	
11	77.75	0	0.00	0.0	
12	79.05	0	0.00	0.0	
13	96.30	0	0.00	0.0	
14	97.25	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
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Gel Image

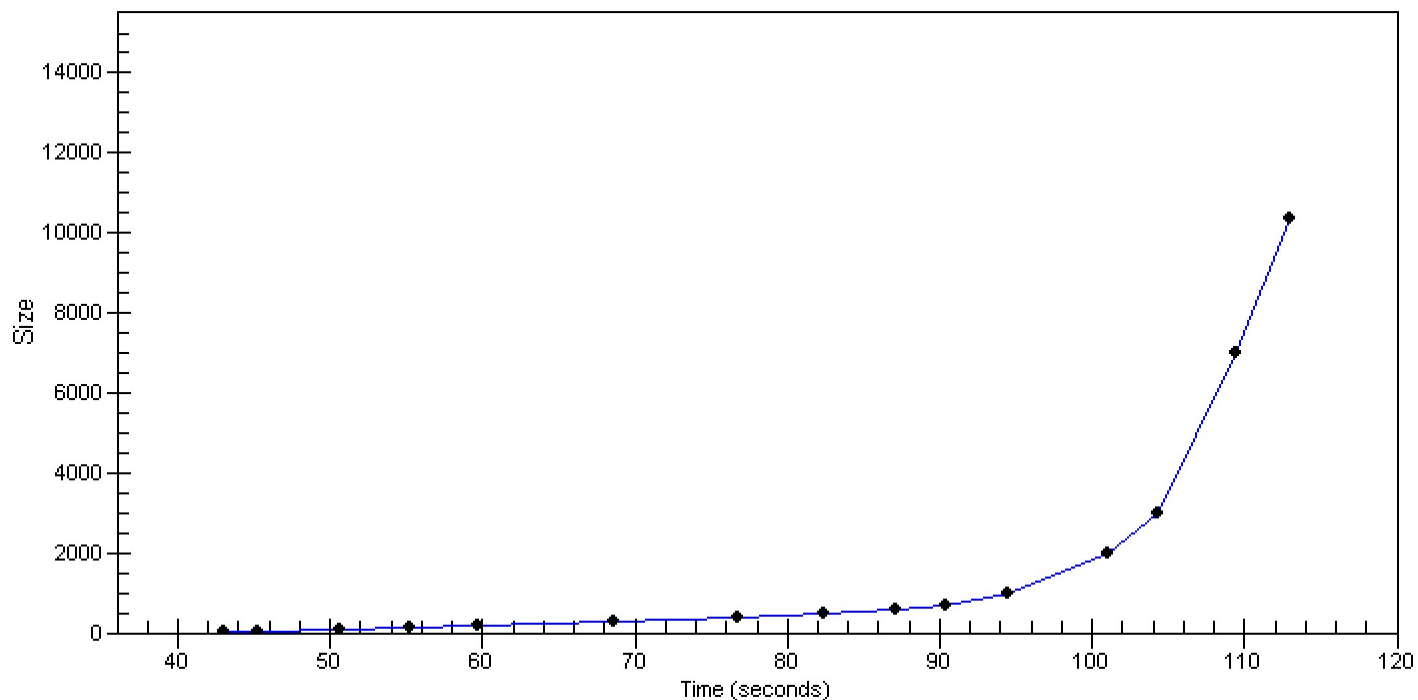


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

Created: 4/21/2014 10:34:17 AM
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Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad

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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		4/21/2014 11:14:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-21\2014-04-21_002.xad)		Instrument	Run		4/21/2014 10:34:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/21/2014 10:34:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/21/2014 10:34:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/21/2014 10:34:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/21/2014 10:34:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/21/2014 10:34:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/21/2014 10:34:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1