

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_006.xad

Created: 10/9/2014 4:33:52 PM  
Modified: 10/9/2014 5:10:28 PM

**Electrophoresis File Run Summary**

Instrument Information:

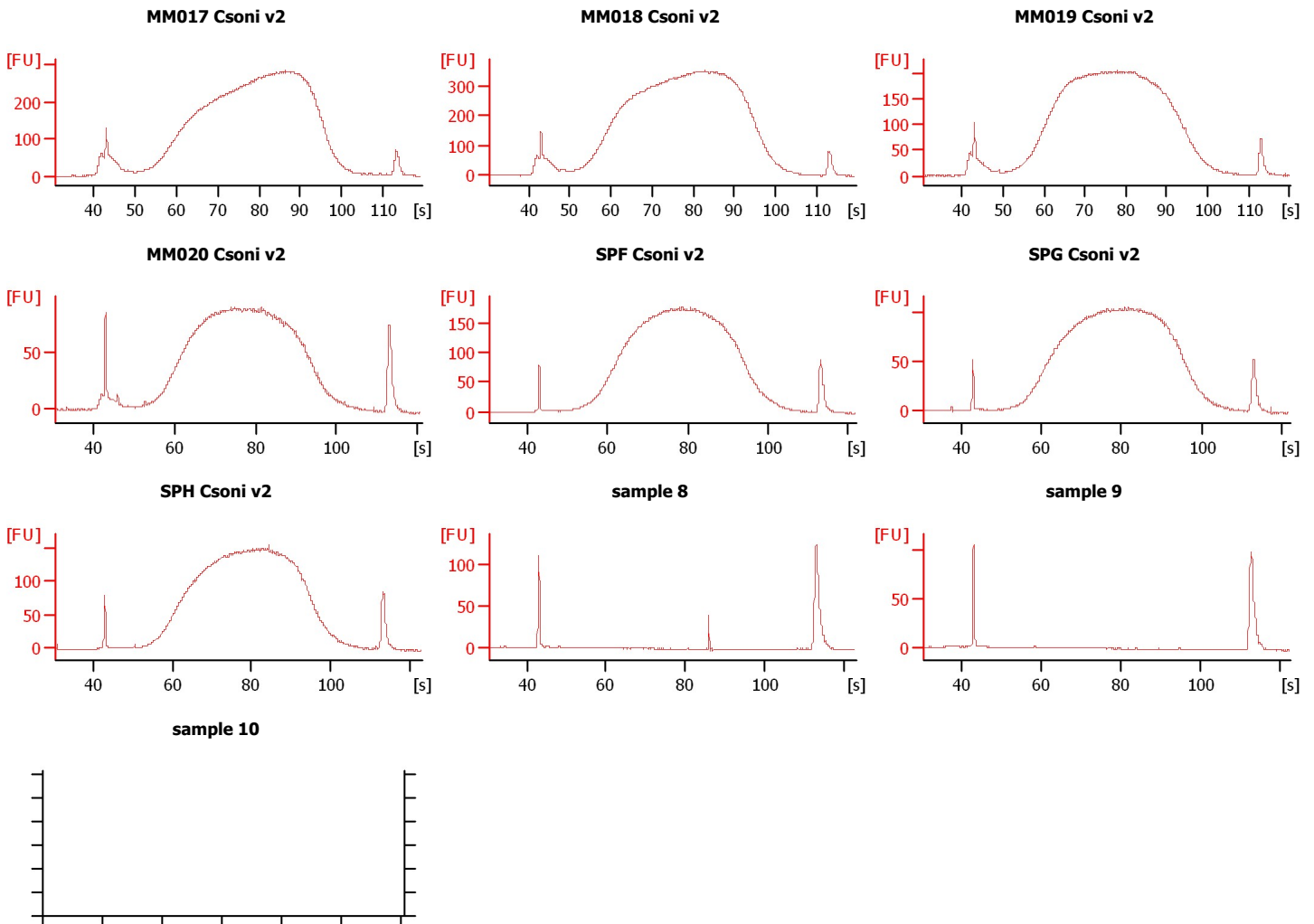
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MM017 Csoni v2		<input type="checkbox"/>	✓			
MM018 Csoni v2		<input type="checkbox"/>	✓			
MM019 Csoni v2		<input type="checkbox"/>	✓			
MM020 Csoni v2		<input type="checkbox"/>	✓			
SPF Csoni v2		<input type="checkbox"/>	✓			
SPG Csoni v2		<input type="checkbox"/>	✓			
SPH Csoni v2		<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 :**

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**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

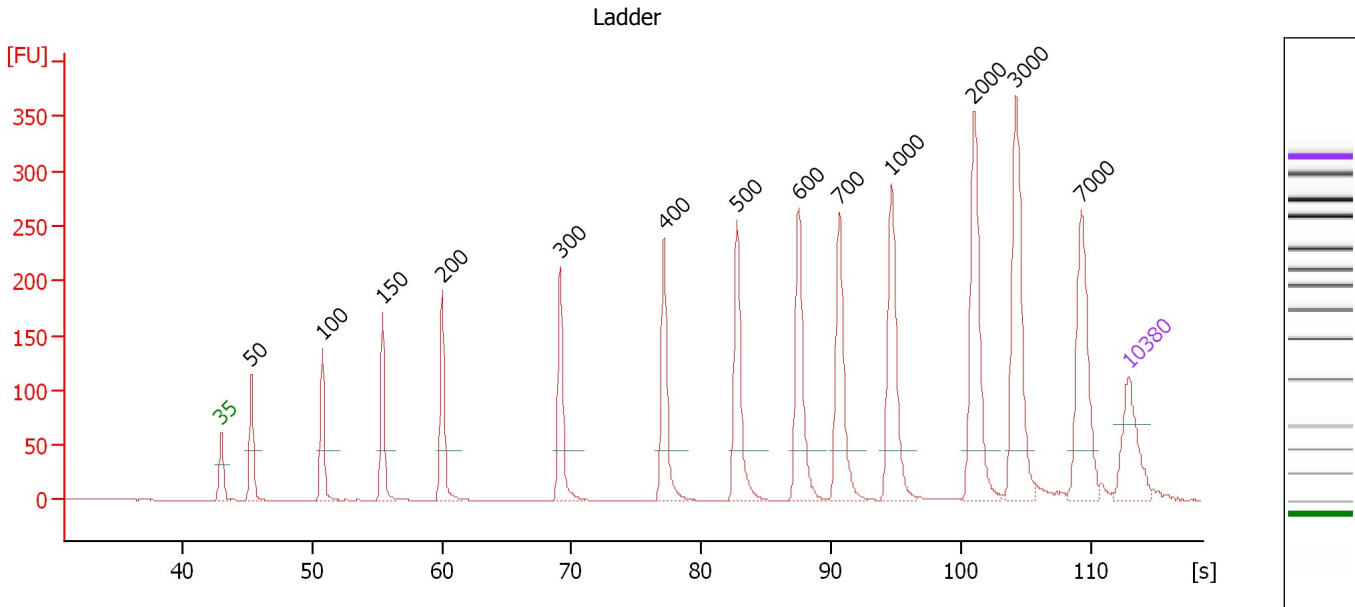
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

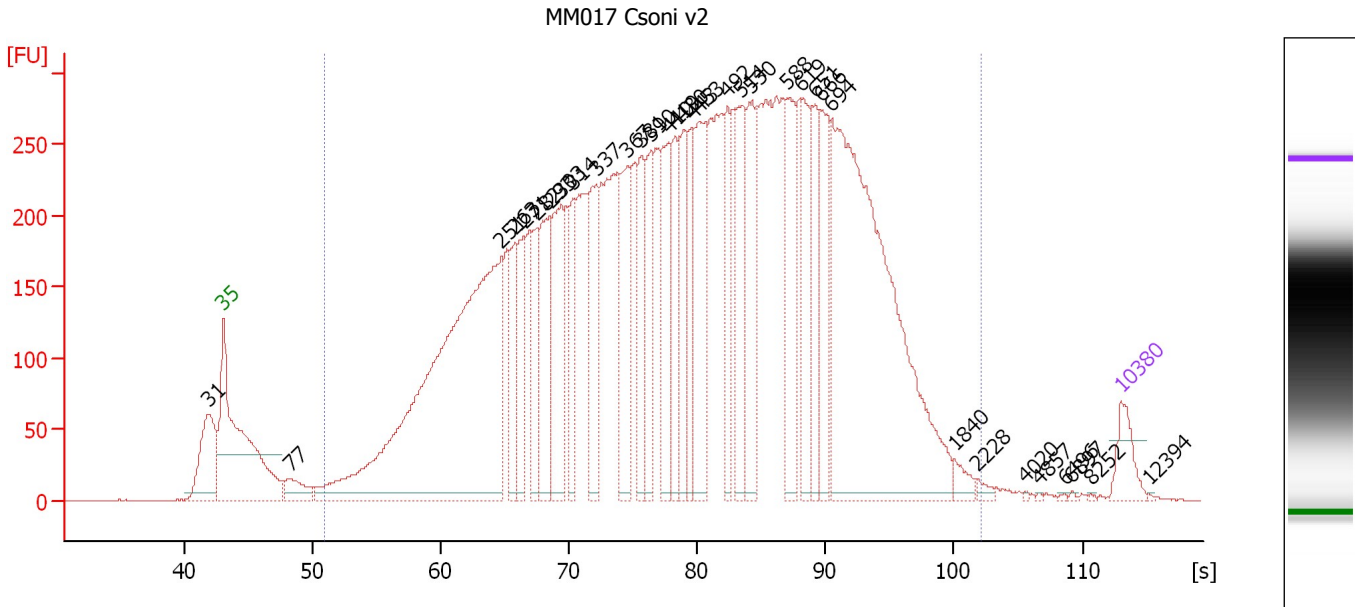
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : MM017 Csoni v2**

Number of peaks found: 34                      Corr. Area 1: 11,926.5  
 Noise: 0.2

**Peak table for sample 1 : MM017 Csoni v2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	77	101.87	2,012.3	
4	251	2,455.05	14,806.0	
5	263	226.96	1,308.6	
6	271	260.97	1,461.0	
7	282	230.68	1,240.6	
8	293	379.36	1,959.8	
9	303	400.91	2,005.7	
10	314	217.95	1,050.6	
11	337	331.69	1,492.4	
12	367	310.78	1,283.0	
13	381	245.46	977.2	
14	390	243.20	943.6	
15	410	306.49	1,132.0	
16	419	228.18	824.8	
17	430	262.95	925.8	
18	443	213.68	730.9	
19	453	430.77	1,441.9	
20	492	216.06	665.2	
21	514	309.74	913.9	
22	530	303.89	868.4	
23	588	311.47	802.1	
24	619	261.13	639.7	
25	651	216.02	502.8	
26	666	283.86	646.0	

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 1 : MM017 Csoni v2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	694	1,780.24	3,886.2	
28	1,840	33.65	27.7	
29	2,228	14.20	9.7	
30	4,020	2.83	1.1	
31	4,857	2.19	0.7	
32	6,496	2.65	0.6	
33	6,897	3.04	0.7	
34	8,252	2.18	0.4	
35	10,380	75.00	10.9	Upper Marker
36	12,394	0.00	0.0	

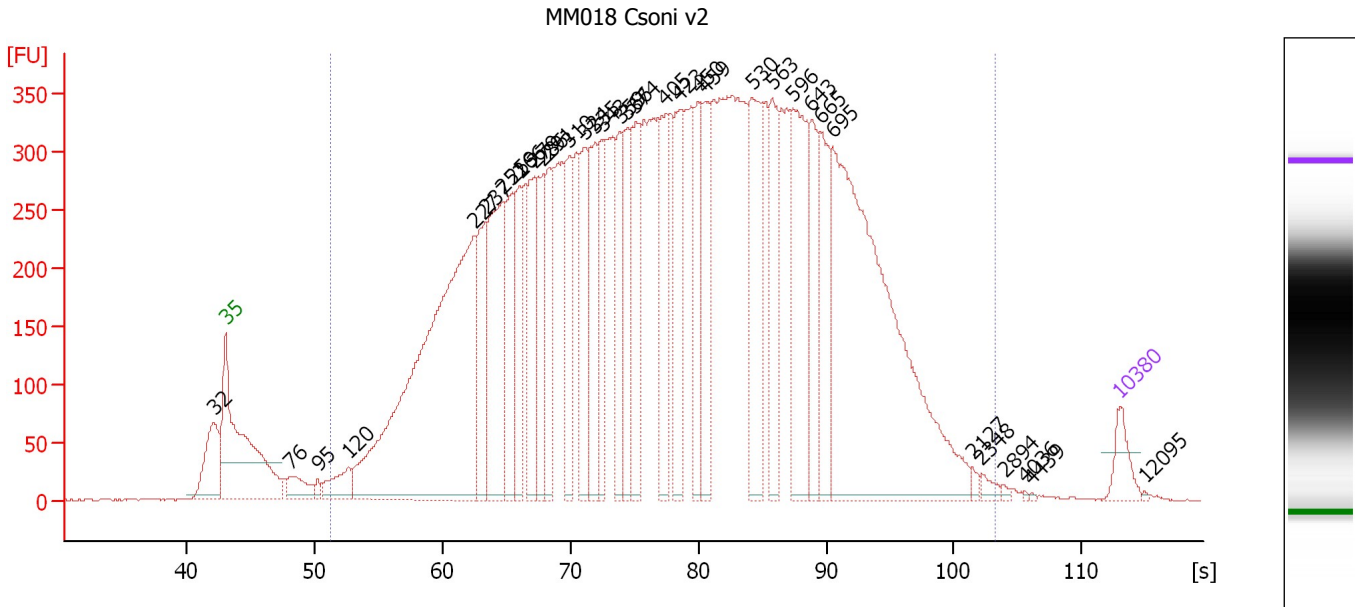
#### Region table for sample 1 : MM017 Csoni v2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
102	510	2,345	11,926.5	97	56.5	14,242.32	61,488.3	■

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : MM018 Csoni v2**

Number of peaks found: 35                      Corr. Area 1: 15,980.5  
 Noise: 0.4

**Peak table for sample 2 : MM018 Csoni v2**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	76	133.23	2,666.9	
4	95	28.16	449.5	
5	120	155.19	1,965.0	
6	227	2,638.46	17,580.9	
7	237	441.99	2,824.3	
8	251	773.70	4,670.0	
9	259	419.02	2,447.8	
10	266	329.01	1,875.1	
11	279	467.41	2,539.8	
12	286	325.60	1,723.4	
13	291	303.79	1,579.9	
14	310	324.07	1,583.3	
15	324	389.00	1,817.8	
16	335	406.20	1,838.8	
17	343	314.03	1,386.9	
18	359	308.08	1,299.2	
19	366	285.02	1,179.6	
20	374	456.59	1,847.5	
21	405	397.94	1,487.4	
22	423	396.79	1,420.3	
23	450	291.79	982.1	
24	459	353.36	1,166.2	
25	530	540.24	1,543.9	
26	563	327.52	881.7	

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**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : MM018 Csoni v2**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	596	589.59	1,497.9	
28	643	294.17	693.0	
29	665	314.71	717.2	
30	695	2,039.87	4,449.6	
31	2,127	15.99	11.4	
32	2,348	22.25	14.4	
33	2,894	7.38	3.9	
34	4,036	3.01	1.1	
35	4,439	2.38	0.8	
36	 10,380	75.00	10.9	Upper Marker
37	12,095	0.00	0.0	

**Region table for sample 2 : MM018 Csoni v2**

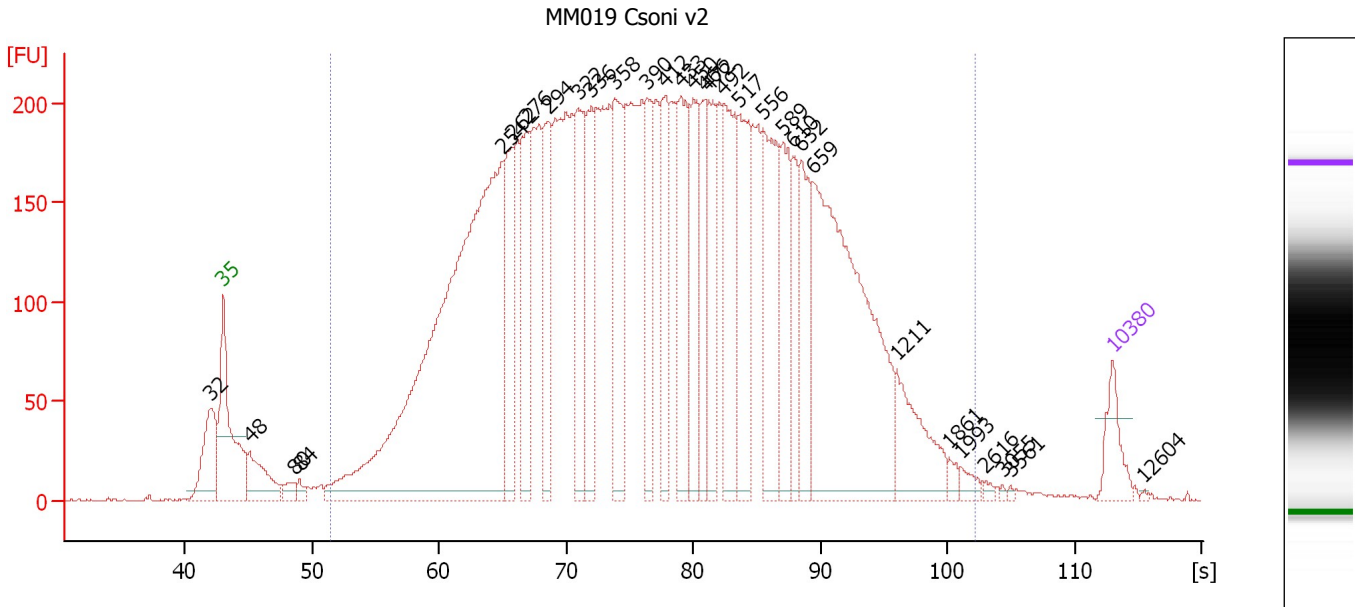
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
105	493	2,682	15,980.5	97	61.4	18,751.79	84,941.0	



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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : MM019 Csoni v2**

Number of peaks found: 31                      Corr. Area 1: 9,195.9  
 Noise: 0.5

**Peak table for sample 3 : MM019 Csoni v2**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	183.63	5,748.1	
4	80	38.78	732.3	
5	84	27.41	496.1	
6	254	2,563.28	15,298.4	
7	262	328.43	1,897.4	
8	276	350.52	1,925.8	
9	294	309.43	1,594.9	
10	322	351.37	1,652.6	
11	336	323.41	1,459.1	
12	358	362.01	1,530.2	
13	390	246.88	960.3	
14	412	253.91	933.6	
15	433	350.73	1,227.0	
16	450	273.31	919.5	
17	466	213.71	694.7	
18	472	226.23	726.0	
19	492	381.81	1,174.8	
20	517	348.06	1,020.5	
21	556	381.14	1,038.9	
22	589	234.50	603.5	
23	610	132.86	330.1	
24	632	227.02	544.5	
25	659	1,084.99	2,494.9	
26	1,211	193.39	242.0	

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 3 : MM019 Csoni v2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,861	16.98	13.8	
28	1,993	22.99	17.5	
29	2,616	8.15	4.7	
30	3,055	3.36	1.7	
31	3,561	3.40	1.4	
32	 10,380	75.00	10.9	Upper Marker
33	12,604	0.00	0.0	

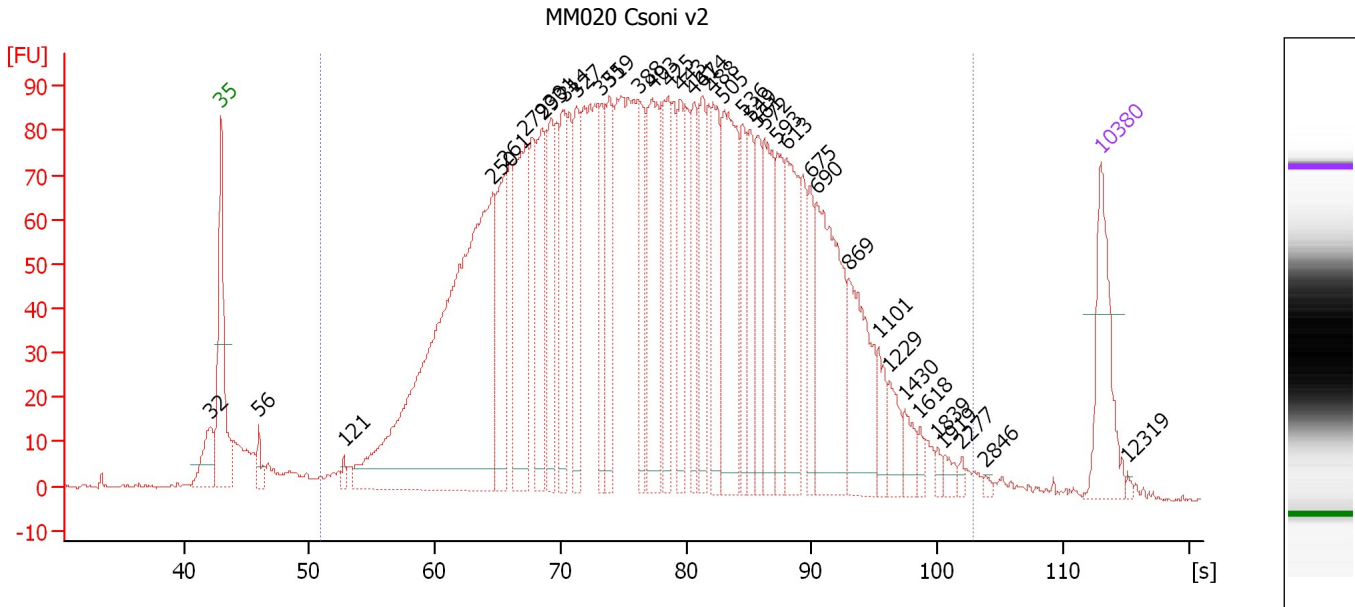
#### Region table for sample 3 : MM019 Csoni v2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
108	468	2,367	9,195.9	96	58.6	12,696.44	57,706.2	

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : MM020 Csoni v2**

Number of peaks found: 38                      Corr. Area 1: 3,880.7  
 Noise: 0.4

**Peak table for sample 4 : MM020 Csoni v2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	56	23.52	634.4	
4	121	10.28	128.8	
5	250	828.91	5,015.7	
6	261	139.50	809.1	
7	279	194.64	1,056.5	
8	293	134.99	697.4	
9	301	107.61	540.8	
10	314	106.58	513.9	
11	327	90.45	419.1	
12	351	86.85	374.4	
13	359	105.99	447.4	
14	388	86.45	337.4	
15	403	156.28	587.7	
16	425	77.58	276.6	
17	443	75.41	257.8	
18	461	74.09	243.3	
19	474	85.63	273.5	
20	488	105.29	326.9	
21	505	185.71	557.6	
22	536	69.14	195.4	
23	549	66.75	184.4	
24	561	64.72	174.7	
25	572	106.30	281.6	
26	593	71.23	181.8	

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**Electropherogram Summary Continued ...**

**... Peak table for sample 4 : MM020 Csoni v2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	613	116.39	287.5	
28	675	55.77	125.1	
29	690	192.91	423.3	
30	869	108.33	188.8	
31	1,101	28.08	38.6	
32	1,229	27.91	34.4	
33	1,430	18.90	20.0	
34	1,618	7.73	7.2	
35	1,839	5.14	4.2	
36	1,919	8.55	6.8	
37	2,277	4.05	2.7	
38	2,846	3.03	1.6	
39	10,380	75.00	10.9	Upper Marker
40	12,319	0.00	0.0	

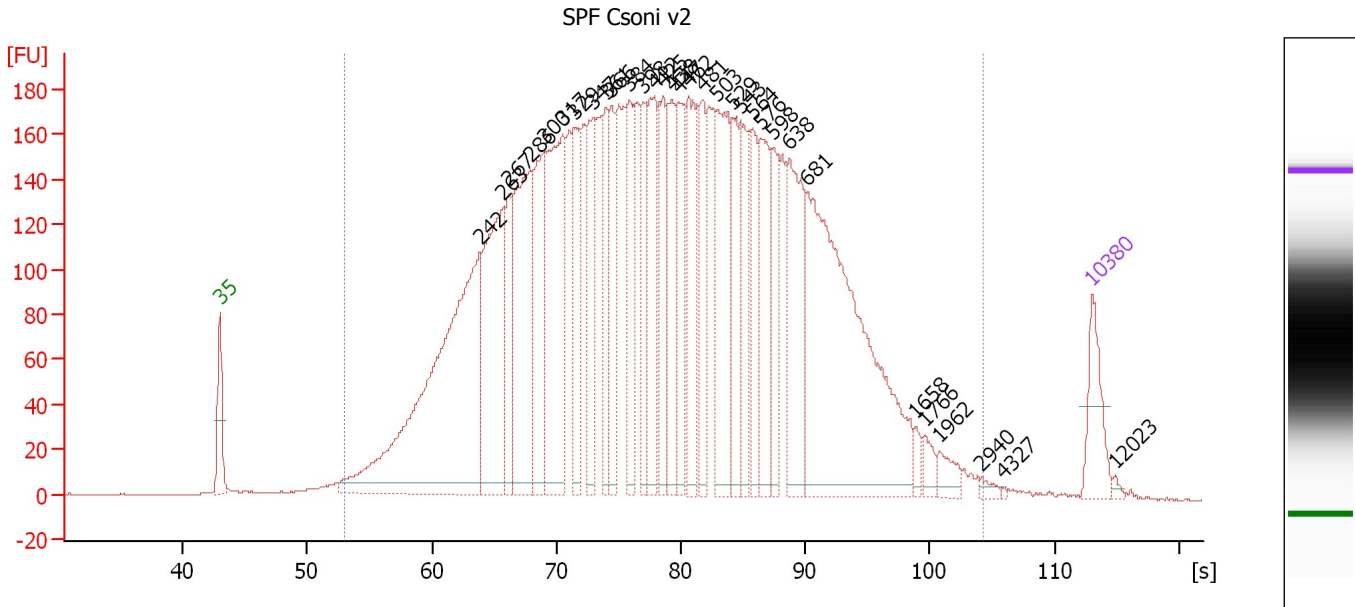
**Region table for sample 4 : MM020 Csoni v2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
102	478	2,573	3,880.7	96	60.5	4,871.37	21,668.6	

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : SPF Csoni v2**

Number of peaks found: 32                      Corr. Area 1: 7,411.2  
 Noise: 0.3

**Peak table for sample 5 : SPF Csoni v2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	242	1,025.29	6,415.7	
3	263	425.44	2,454.8	
4	267	144.42	818.5	
5	286	449.95	2,380.5	
6	300	268.06	1,355.2	
7	317	430.64	2,055.8	
8	329	177.89	820.1	
9	347	197.38	860.7	
10	361	149.94	629.5	
11	366	148.96	616.2	
12	384	167.37	660.4	
13	398	140.68	535.6	
14	412	214.67	788.7	
15	425	159.32	567.4	
16	438	188.58	651.7	
17	447	186.77	633.3	
18	462	195.12	639.6	
19	481	131.13	412.8	
20	503	270.60	814.6	
21	529	155.22	444.9	
22	543	149.16	416.1	
23	564	125.45	337.0	
24	576	176.52	464.5	
25	598	128.89	326.8	
26	638	254.50	604.5	

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 : SPF Csoni v2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	681	815.64	1,814.9	
28	1,658	17.31	15.8	
29	1,766	22.33	19.2	
30	1,962	27.25	21.0	
31	2,940	8.65	4.5	
32	4,327	1.97	0.7	
33	10,380	75.00	10.9	Upper Marker
34	12,023	0.00	0.0	

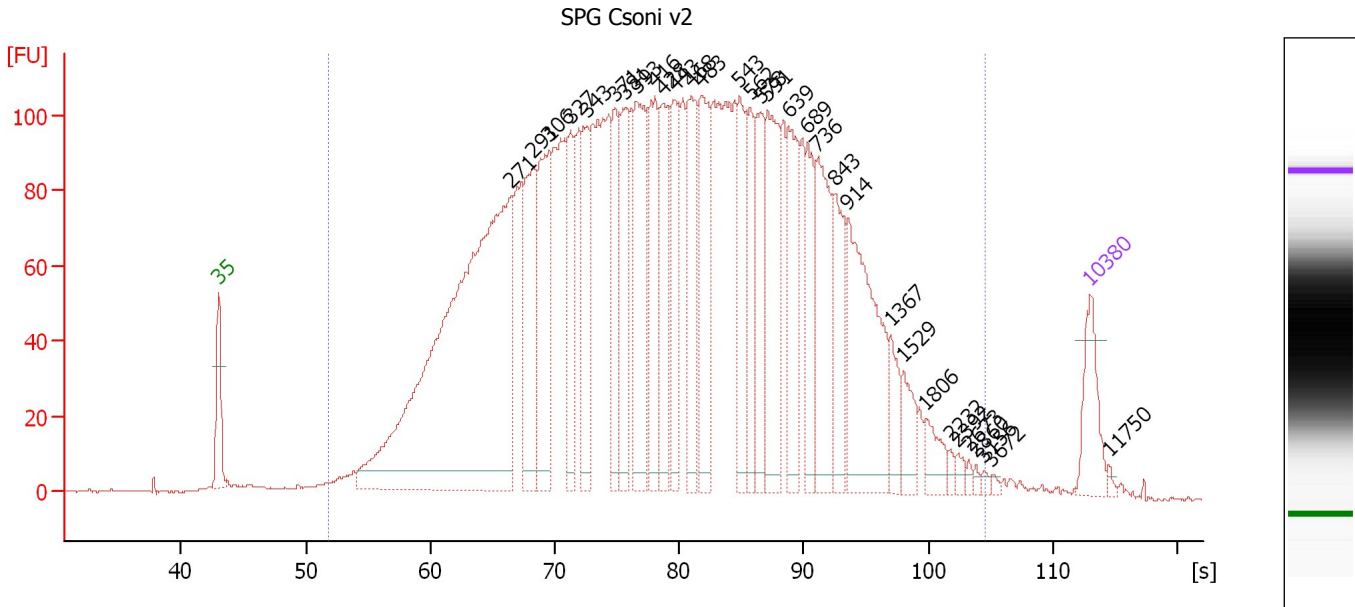
#### Region table for sample 5 : SPF Csoni v2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
124	504	3,041	7,411.2	99	64.6	8,222.90	34,903.8	

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : SPG Csoni v2**

Number of peaks found: 32                      Corr. Area 1: 4,655.5  
 Noise: 0.2

**Peak table for sample 6 : SPG Csoni v2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	271	1,553.72	8,681.7	
3	291	260.38	1,357.3	
4	306	296.63	1,470.8	
5	327	144.87	672.3	
6	343	185.76	820.2	
7	371	138.87	567.8	
8	381	189.25	752.0	
9	393	269.21	1,039.0	
10	416	192.10	699.3	
11	428	199.74	706.3	
12	443	169.17	578.6	
13	468	206.35	668.7	
14	483	232.59	729.8	
15	543	159.30	444.4	
16	562	126.85	341.9	
17	578	147.45	386.2	
18	591	238.24	610.6	
19	639	181.28	429.6	
20	689	129.44	284.5	
21	736	211.46	435.1	
22	843	139.87	251.5	
23	914	316.30	524.6	
24	1,367	52.94	58.7	
25	1,529	52.55	52.1	
26	1,806	39.06	32.8	

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 6 : SPG Csoni v2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,232	8.00	5.4	
28	2,392	10.61	6.7	
29	2,673	5.61	3.2	
30	2,860	4.89	2.6	
31	3,156	5.42	2.6	
32	3,672	4.89	2.0	
33	10,380	75.00	10.9	Upper Marker
34	11,750	0.00	0.0	

#### Region table for sample 6 : SPG Csoni v2

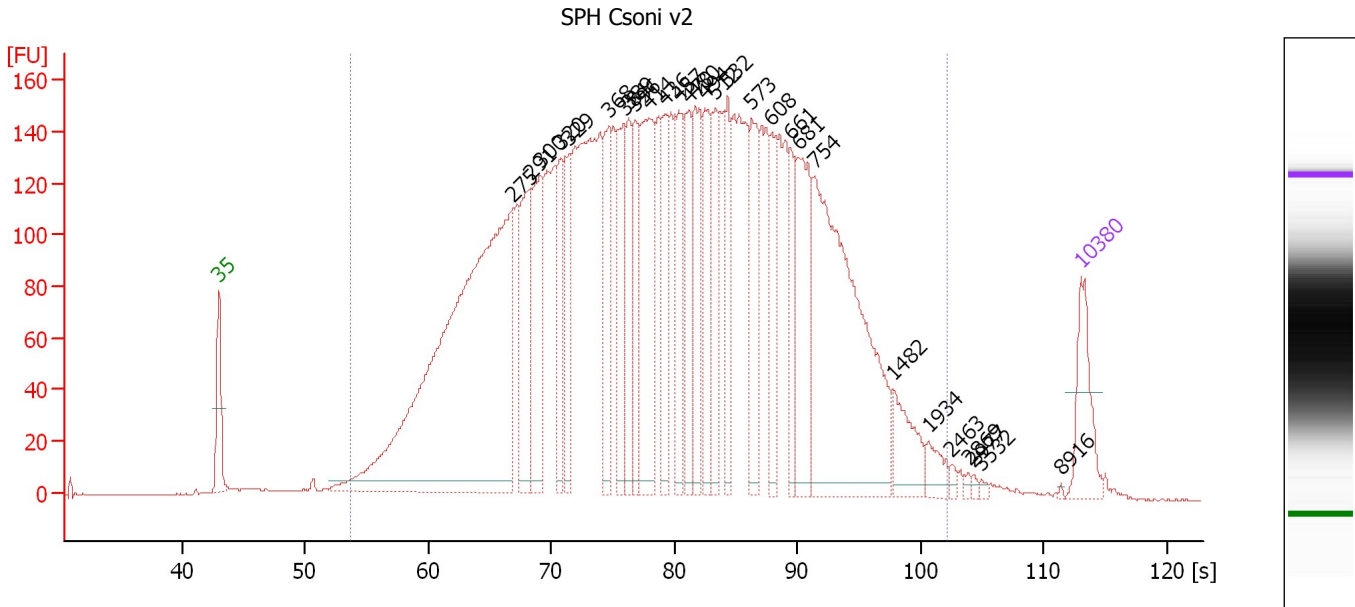
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
112	531	3,271	4,655.5	98	67.5	8,239.37	34,624.6	



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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : SPH Csoni v2**

Number of peaks found: 29                      Corr. Area 1: 6,365.8  
 Noise: 0.3

**Peak table for sample 7 : SPH Csoni v2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	275	1,347.62	7,424.2	
3	291	203.75	1,061.2	
4	300	218.13	1,101.5	
5	320	125.28	592.9	
6	329	134.16	618.2	
7	368	150.52	618.9	
8	384	146.43	577.4	
9	389	119.09	463.7	
10	396	117.58	450.3	
11	414	249.13	911.9	
12	436	115.37	400.6	
13	457	131.56	436.6	
14	470	113.18	364.5	
15	480	156.56	494.4	
16	494	146.09	448.3	
17	512	117.53	347.9	
18	532	106.39	303.0	
19	573	133.13	351.9	
20	608	90.16	224.7	
21	661	85.96	196.9	
22	681	186.54	415.0	
23	754	596.65	1,199.1	
24	1,482	68.82	70.4	
25	1,934	28.06	22.0	
26	2,463	6.14	3.8	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_006.xad


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**Electropherogram Summary Continued ...**

**... Peak table for sample 7 : SPH Csoni v2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,869	4.28	2.3	
28	2,977	3.74	1.9	
29	3,532	3.81	1.6	
30	8,916	1.41	0.2	
31	10,380	75.00	10.9	Upper Marker

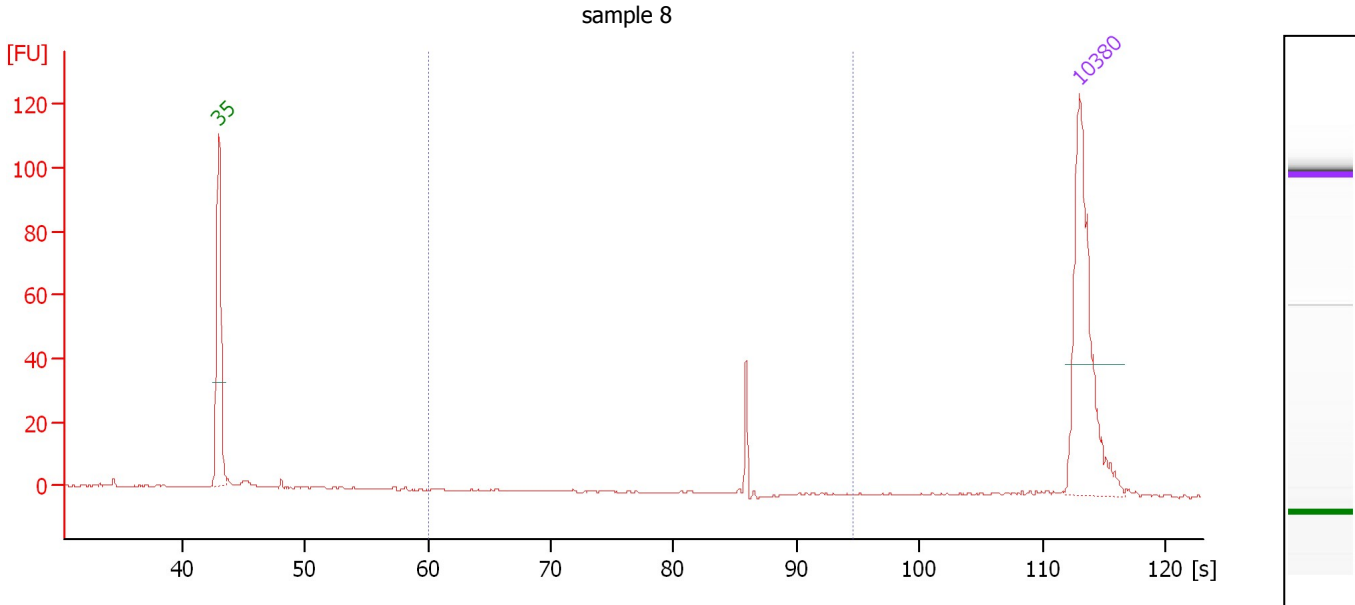
**Region table for sample 7 : SPH Csoni v2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
131	512	2,314	6,365.8	98	59.3	6,999.92	29,118.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_006.xad

Created: 10/9/2014 4:33:52 PM  
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**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 11.5  
 Noise: 0.1

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

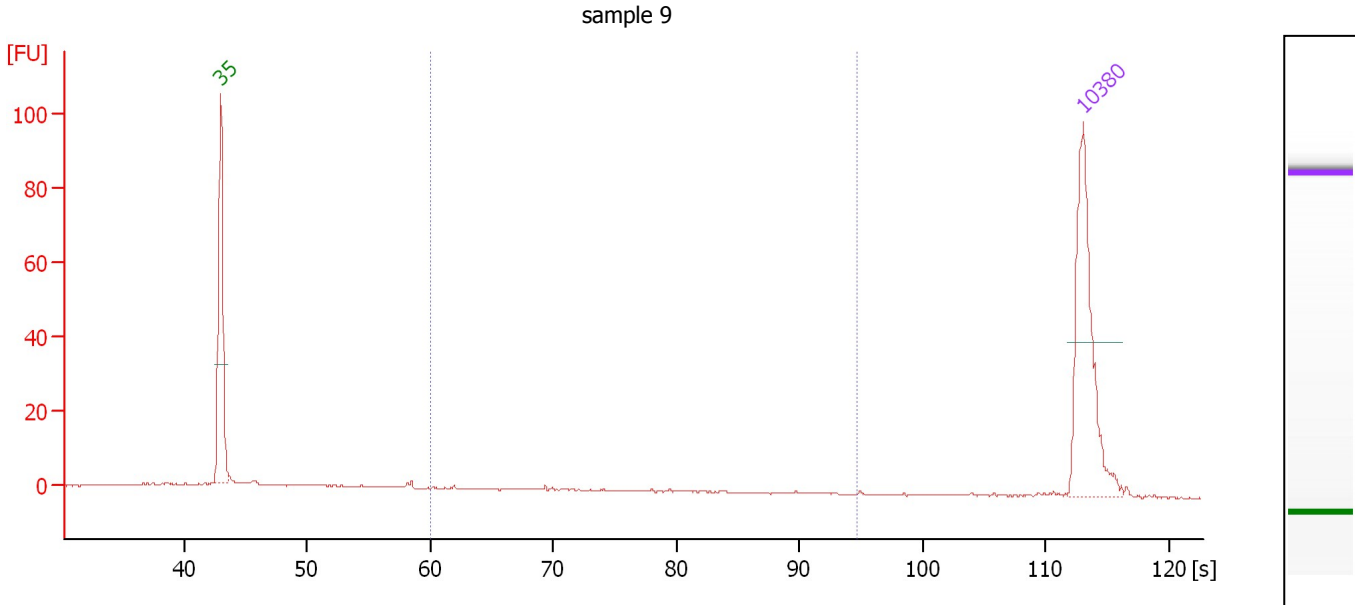
**Region table for sample 8 : sample 8**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	560	1,000	11.5	30	6.6	6.56	18.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_006.xad

Created: 10/9/2014 4:33:52 PM  
 Modified: 10/9/2014 5:10:28 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 13.3  
 Noise: 0.1

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

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

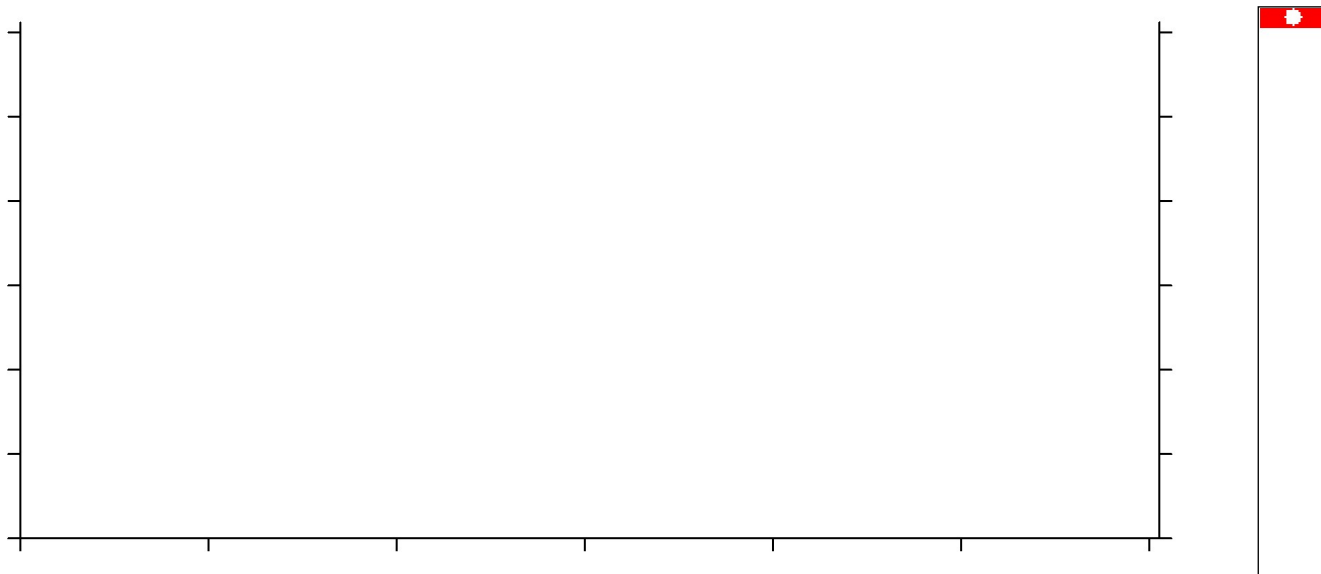
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	369	1,000	13.3	21	40.0	11.75	57.5	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_006.xad

Created: 10/9/2014 4:33:52 PM  
Modified: 10/9/2014 5:10:28 PM

**Electropherogram Summary Continued ...**

sample 10



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

End Analysis Time Range [s] : 32

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

Noise: 0.2

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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_006.xad

Created: 10/9/2014 4:33:52 PM  
Modified: 10/9/2014 5:10:28 PM

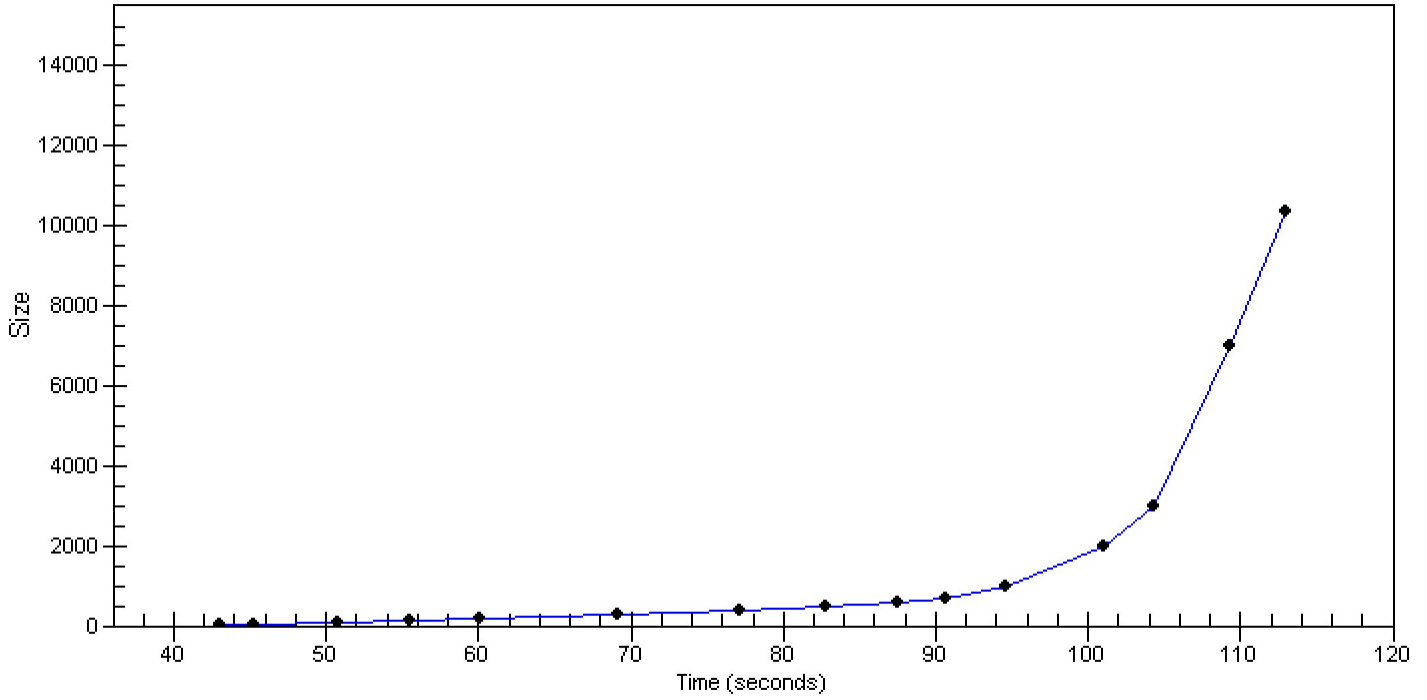
**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_006.xad

Created: 10/9/2014 4:33:52 PM  
Modified: 10/9/2014 5:10:28 PM

**Curves**

**Standard Curve**



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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_006.xad

Created: 10/9/2014 4:33:52 PM  
Modified: 10/9/2014 5:10:28 PM

**Invalid Samples**

Sample 11 has not been run, no results available.



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_006.xad

Created: 10/9/2014 4:33:52 PM  
 Modified: 10/9/2014 5:10:28 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run aborted on port 1		Instrument	Run		10/9/2014 5:10:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-09\2014-10-09_006.xad)		Instrument	Run		10/9/2014 4:33:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/9/2014 4:33:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/9/2014 4:33:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/9/2014 4:33:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/9/2014 4:33:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/9/2014 4:33:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/9/2014 4:33:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1