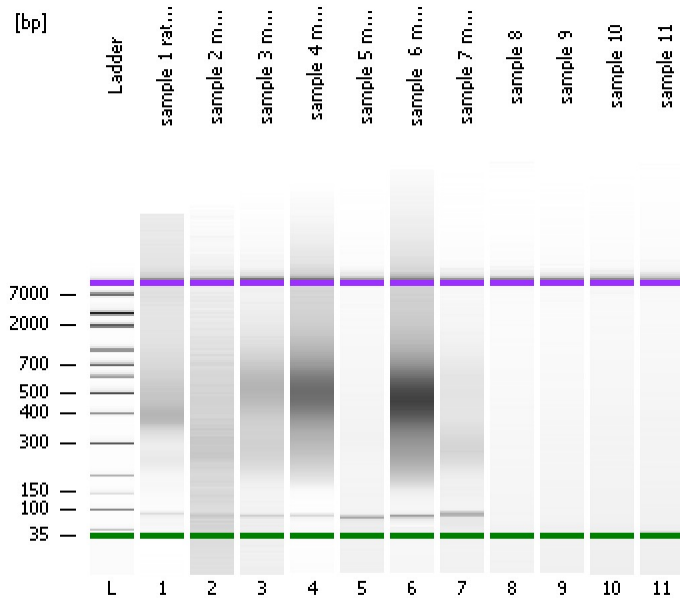


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
Modified: 2/9/2015 12:37:30 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

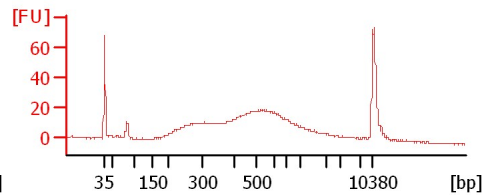
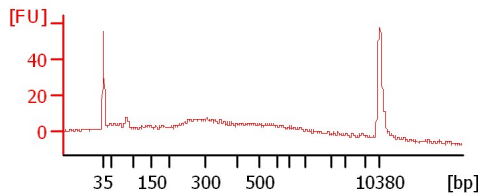
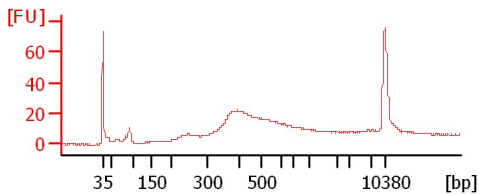
Chip Information:

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

sample 1 rat p50hyp H1 6M

sample 2 mouse 2+5wk neg

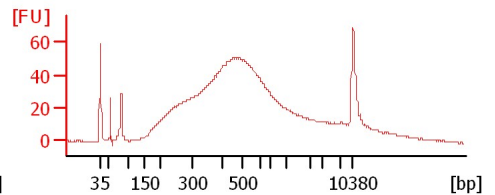
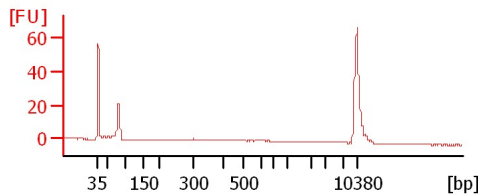
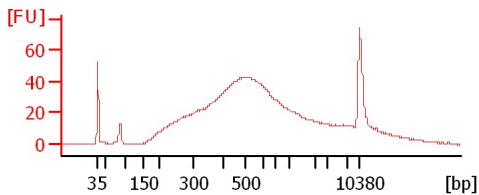
sample 3 mouse 2+5wk med



sample 4 mouse 2+5wk hi

sample 5 mouse 11+12mon neg

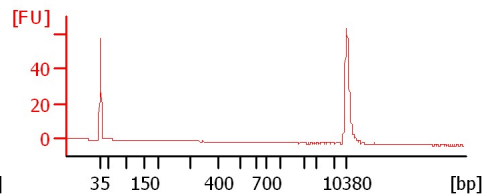
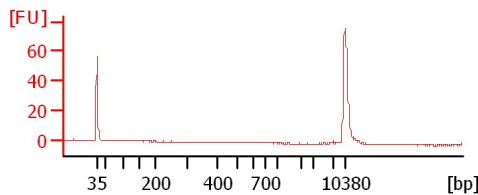
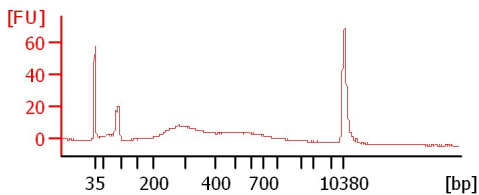
sample 6 mouse 11+12mon med



sample 7 mouse 11+12mon hi

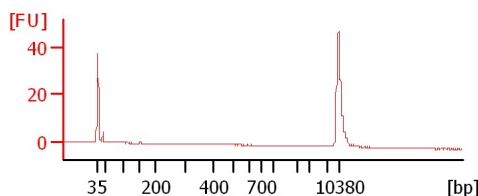
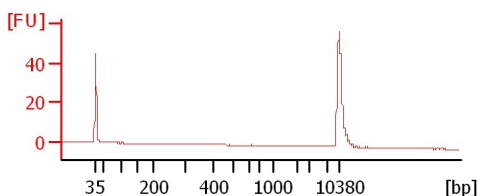
sample 8

sample 9



sample 10

sample 11



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
Modified: 2/9/2015 12:37:30 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1 rat p50hyp H1 6M		<input type="checkbox"/>	✓			
sample 2 mouse 2+5wk neg		<input type="checkbox"/>	✓			
sample 3 mouse 2+5wk med		<input type="checkbox"/>	✓			
sample 4 mouse 2+5wk hi		<input type="checkbox"/>	✓			
sample 5 mouse 11+12mon neg		<input type="checkbox"/>	✓			
sample 6 mouse 11+12mon med		<input type="checkbox"/>	✓			
sample 7 mouse 11+12mon hi		<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\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
Modified: 2/9/2015 12:37:30 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

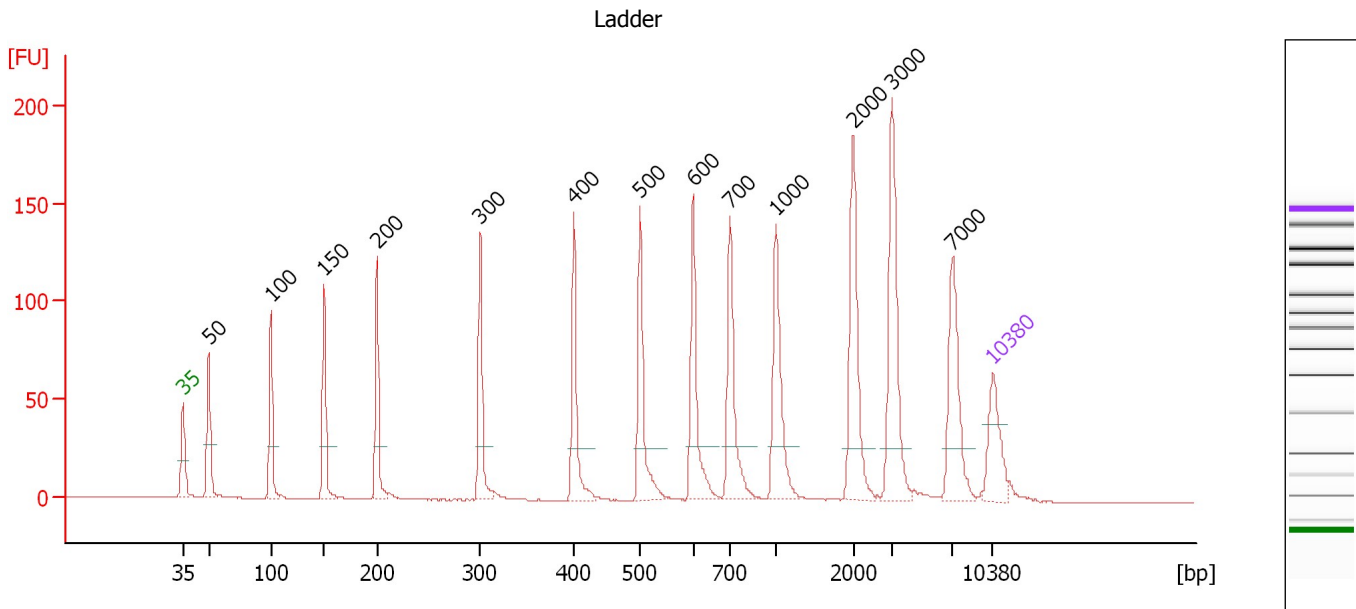
**Ladder**

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\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
 Modified: 2/9/2015 12:37:30 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

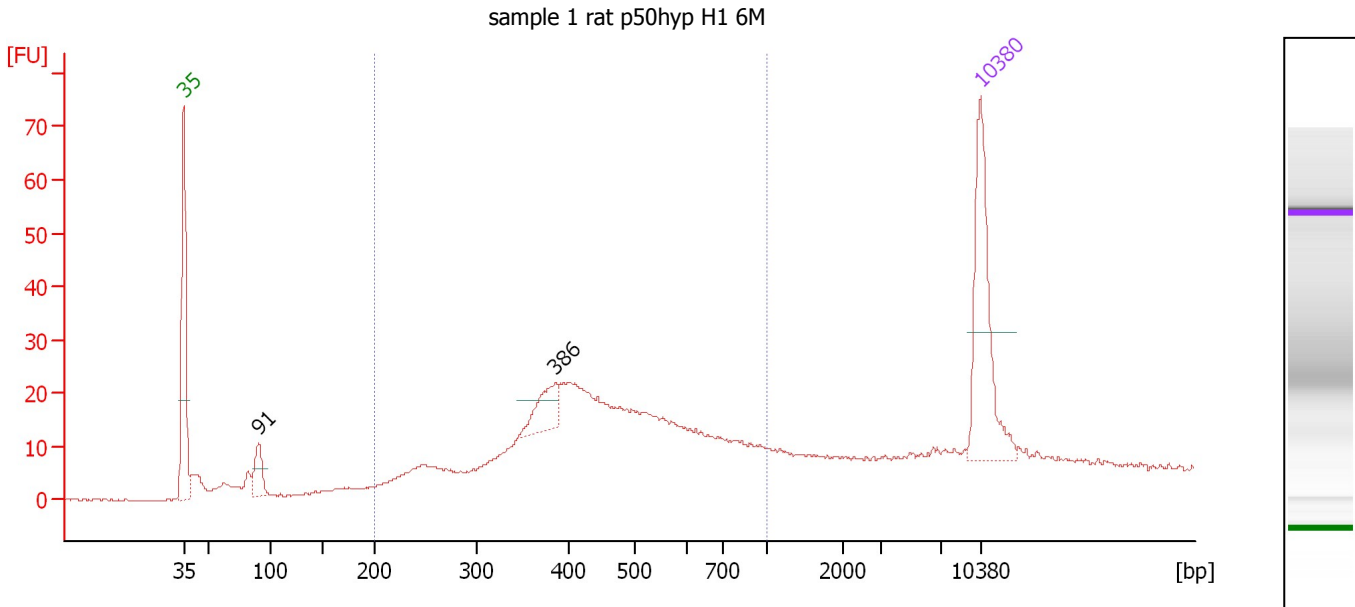
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.21
3	100	150.00	2,272.7	Ladder Peak	50.56
4	150	150.00	1,515.2	Ladder Peak	55.22
5	200	150.00	1,136.4	Ladder Peak	59.74
6	300	150.00	757.6	Ladder Peak	68.69
7	400	150.00	568.2	Ladder Peak	76.80
8	500	150.00	454.5	Ladder Peak	82.52
9	600	150.00	378.8	Ladder Peak	87.08
10	700	150.00	324.7	Ladder Peak	90.31
11	1,000	150.00	227.3	Ladder Peak	94.23
12	2,000	150.00	113.6	Ladder Peak	100.96
13	3,000	150.00	75.8	Ladder Peak	104.28
14	7,000	150.00	32.5	Ladder Peak	109.54
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
 Modified: 2/9/2015 12:37:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 1 rat p50hyp H1 6M**

Number of peaks found: 2                      Corr. Area 1: 426.2  
 Noise: 0.2

**Peak table for sample 1 : sample 1 rat p50hyp H1 6M**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	91	27.42	458.7		49.56
3	386	29.50	115.9		75.64
4	10,380	75.00	10.9	Upper Marker	113.00

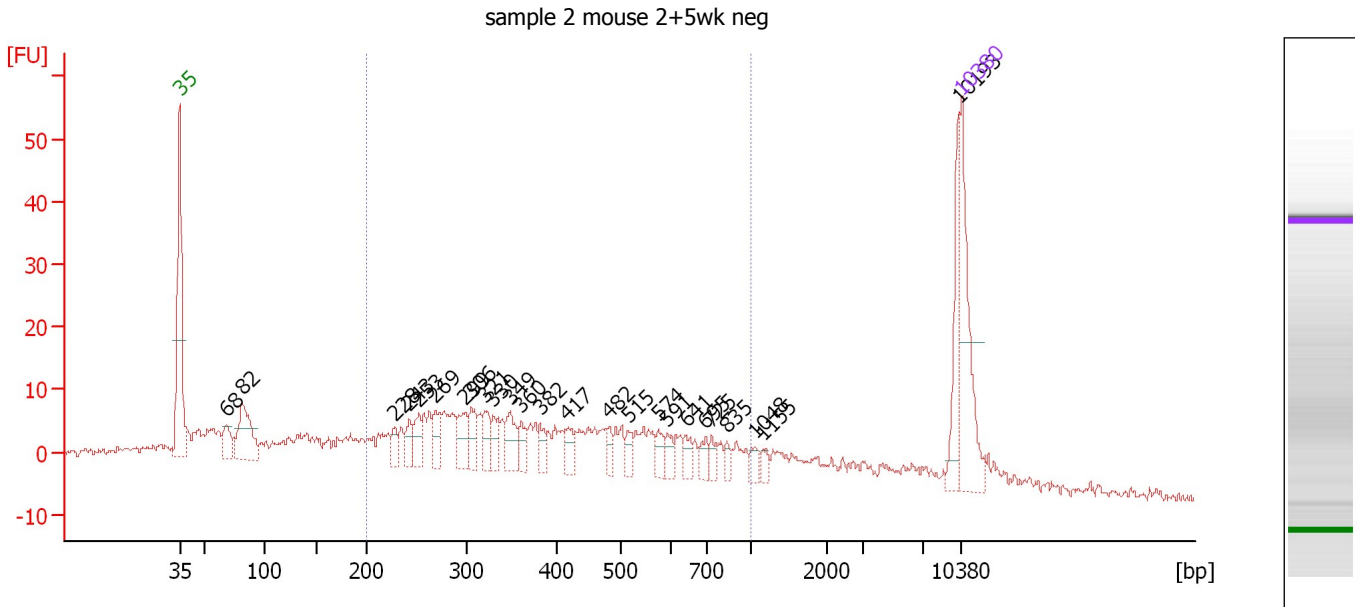
**Region table for sample 1 : sample 1 rat p50hyp H1 6M**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	474	1,000	426.2	75	32.8	504.81	1,862.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
 Modified: 2/9/2015 12:37:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 2 mouse 2+5wk neg**

Number of peaks found: 25                      Corr. Area 1: 308.6  
 Noise: 0.6

**Peak table for sample 2 : sample 2 mouse 2+5wk neg**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	68	28.62	636.2		47.16
3	82	72.28	1,335.3		48.64
4	228	14.28	94.9		62.26
5	243	16.75	104.4		63.59
6	253	21.26	127.4		64.45
7	269	21.66	121.9		65.94
8	299	26.81	136.0		68.56
9	306	23.55	116.8		69.14
10	321	21.83	103.1		70.38
11	330	17.74	81.5		71.10
12	349	26.55	115.4		72.62
13	360	16.32	68.6		73.58
14	382	14.07	55.9		75.30
15	417	13.52	49.1		77.78
16	482	10.80	33.9		81.51
17	515	10.85	32.0		83.18
18	574	12.00	31.7		85.91
19	591	11.12	28.5		86.67
20	641	10.67	25.2		88.39
21	695	10.89	23.7		90.16
22	725	9.37	19.6		90.64
23	835	6.62	12.0		92.07
24	1,048	8.43	12.2		94.56
25	1,155	6.90	9.0		95.27

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad


Created: 2/9/2015 11:58:33 AM  
 Modified: 2/9/2015 12:37:30 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 2 : sample 2 mouse 2+5wk neg

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,193	38.19	5.7		112.81
27	10,380	75.00	10.9	Upper Marker	113.00

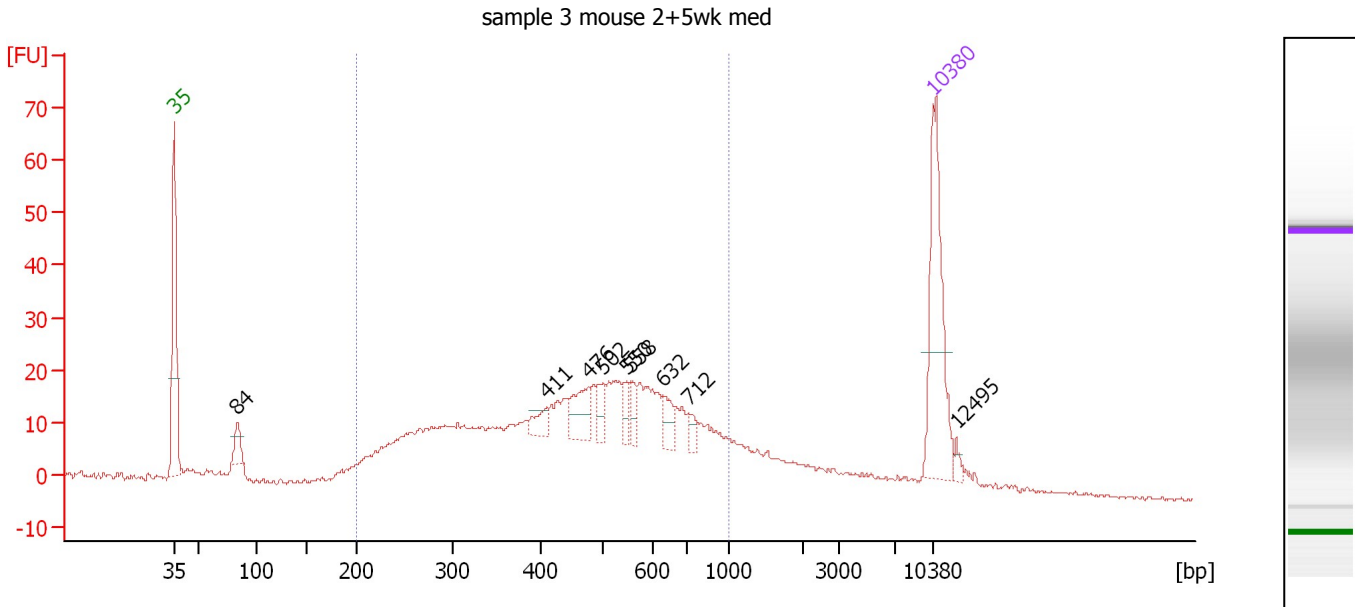
#### Region table for sample 2 : sample 2 mouse 2+5wk neg

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Color
200	434	1,000	308.6	58	40.8	617.50	2,655.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
 Modified: 2/9/2015 12:37:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 3 mouse 2+5wk med**

Number of peaks found: 9                      Corr. Area 1: 589.1  
 Noise: 0.4

**Peak table for sample 3 : sample 3 mouse 2+5wk med**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	84	18.53	336.0		48.80
3	411	12.25	45.2		77.43
4	476	28.79	91.6		81.17
5	502	13.94	42.1		82.60
6	550	10.75	29.6		84.81
7	558	10.63	28.9		85.16
8	632	13.90	33.3		88.11
9	712	7.84	16.7		90.47
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,495	0.00	0.0		115.16

**Region table for sample 3 : sample 3 mouse 2+5wk med**

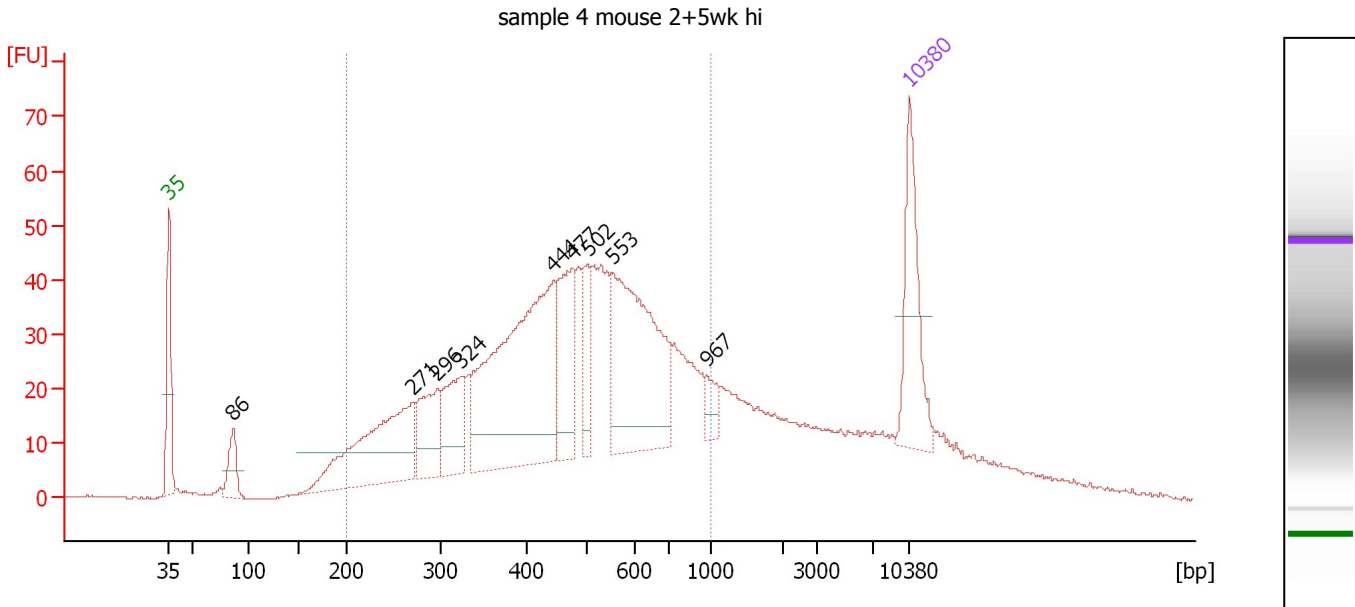
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	482	1,000	589.1	79	36.2	748.01	2,865.8	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
 Modified: 2/9/2015 12:37:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 4 mouse 2+5wk hi**

Number of peaks found: 9                      Corr. Area 1: 1,232.8  
 Noise: 0.2

**Peak table for sample 4 : sample 4 mouse 2+5wk hi**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	86	42.97	754.3		49.10
3	271	197.16	1,102.8		66.08
4	296	74.00	378.5		68.35
5	324	75.80	354.0		70.67
6	444	340.08	1,159.7		79.34
7	477	95.40	303.1		81.20
8	502	48.04	145.0		82.61
9	553	227.66	624.0		84.93
10	967	17.80	27.9		93.80
11	10,380	75.00	10.9	Upper Marker	113.00

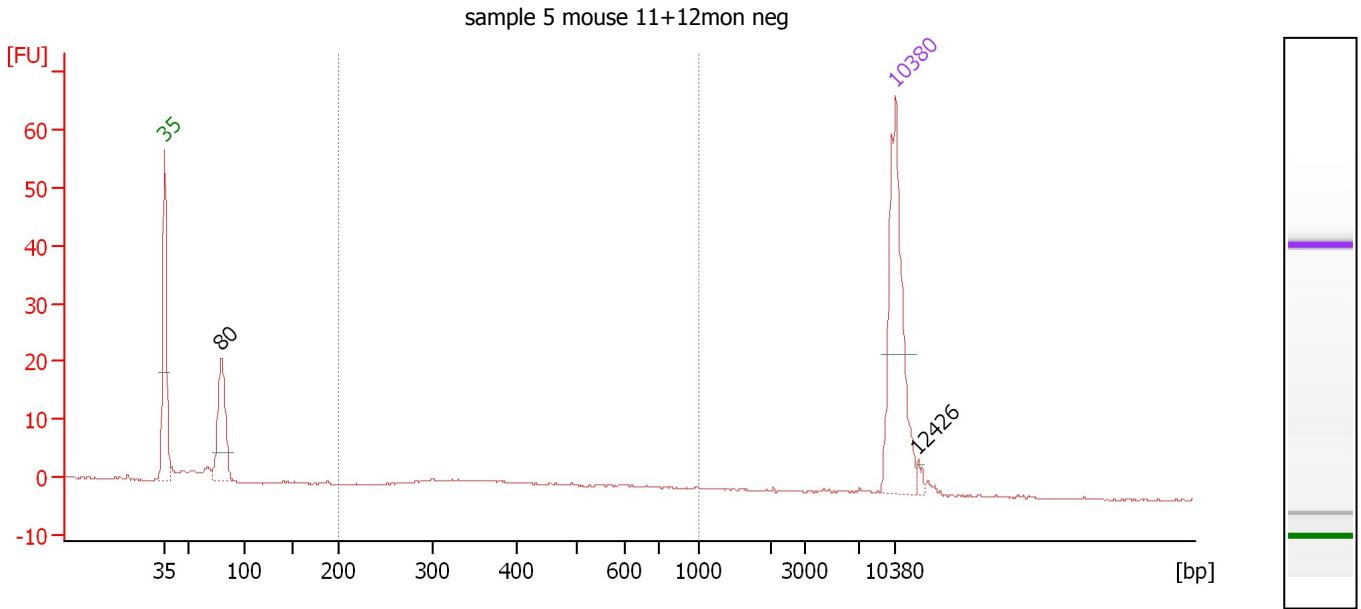
**Region table for sample 4 : sample 4 mouse 2+5wk hi**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	484	1,000	1,232.8	75	35.5	1,647.94	6,207.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
 Modified: 2/9/2015 12:37:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 5 mouse 11+12mon neg**

Number of peaks found: 2                      Corr. Area 1: 21.5  
 Noise: 0.1

**Peak table for sample 5 : sample 5 mouse 11+12mon neg**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	80	67.18	1,274.0		48.41
3	10,380	75.00	10.9	Upper Marker	113.00
4	12,426	0.00	0.0		115.09

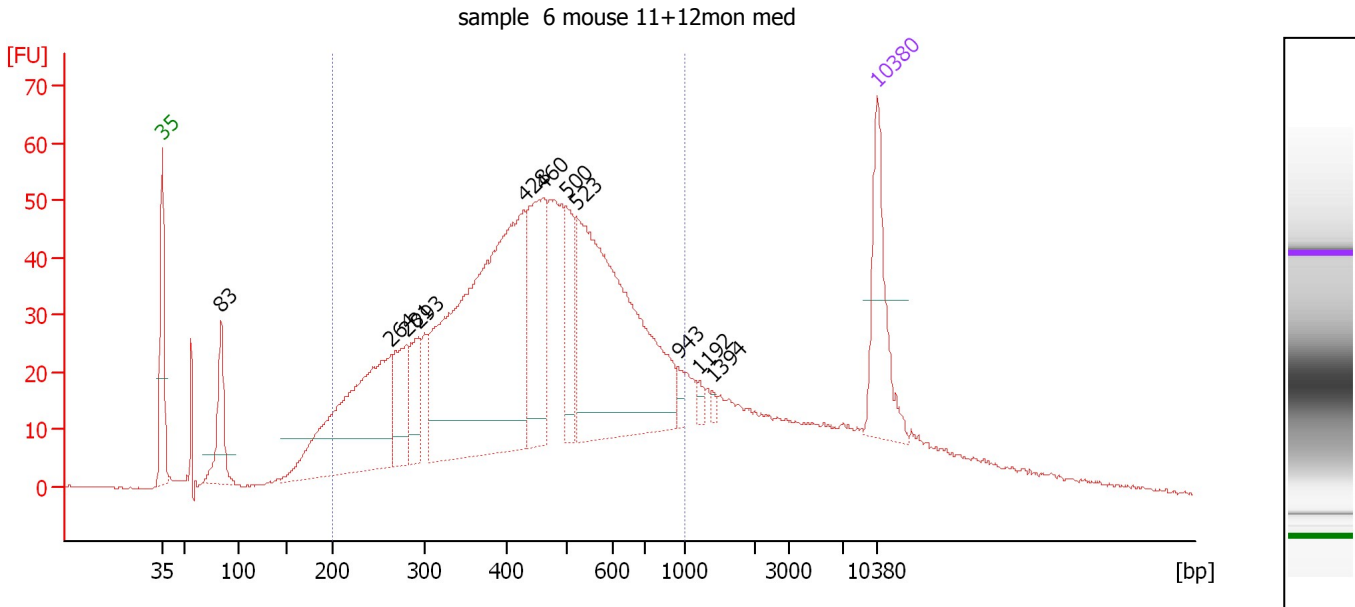
**Region table for sample 5 : sample 5 mouse 11+12mon neg**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	459	1,000	21.5	25	35.7	26.12	99.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
 Modified: 2/9/2015 12:37:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 6 mouse 11+12mon med**

Number of peaks found: 11                      Corr. Area 1: 1,487.9  
 Noise: 0.2

**Peak table for sample 6 : sample 6 mouse 11+12mon med**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	83	89.57	1,626.7		48.79
3	264	292.55	1,681.5		65.43
4	281	67.56	364.9		66.94
5	293	53.88	278.3		68.09
6	428	524.24	1,854.7		78.42
7	460	147.73	486.4		80.24
8	500	62.28	188.6		82.54
9	523	383.96	1,111.8		83.58
10	943	9.86	15.8		93.49
11	1,192	5.80	7.4		95.53
12	1,394	3.92	4.3		96.88
13	10,380	75.00	10.9	Upper Marker	113.00

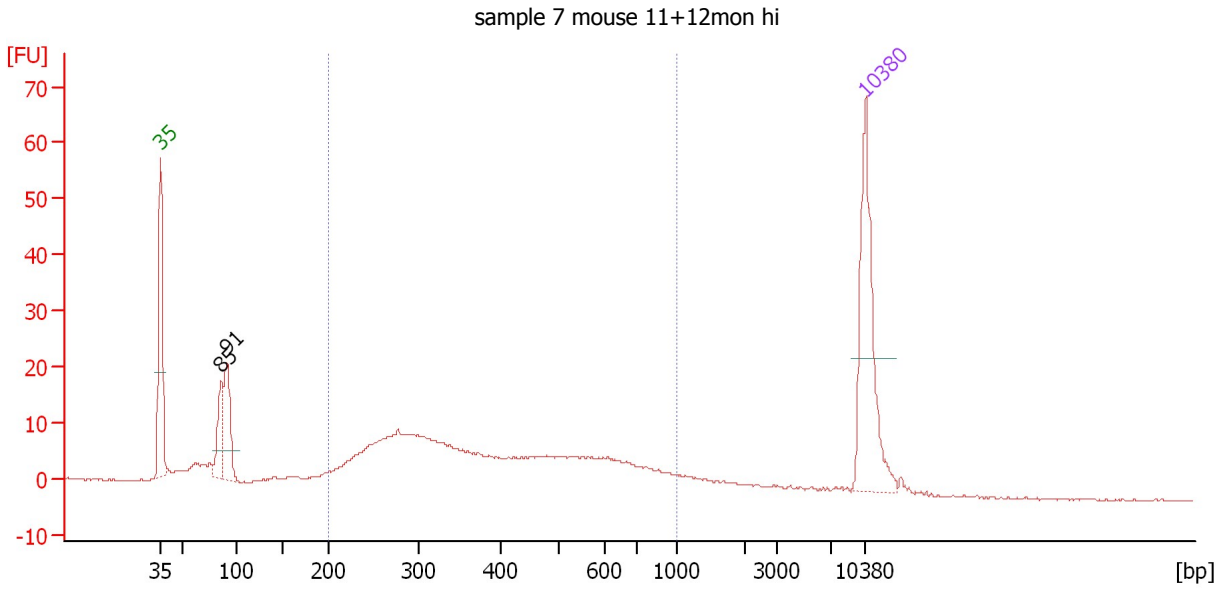
**Region table for sample 6 : sample 6 mouse 11+12mon med**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	462	1,000	1,487.9	77	35.7	2,093.61	8,227.9	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
Modified: 2/9/2015 12:37:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7 mouse 11+12mon hi

Number of peaks found: 2                      Corr. Area 1: 269.3  
Noise: 0.1

Peak table for sample 7 : sample 7 mouse 11+12mon hi

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	85	37.43	665.3		48.98
3	91	53.04	881.3		49.62
4	10,380	75.00	10.9	Upper Marker	113.00

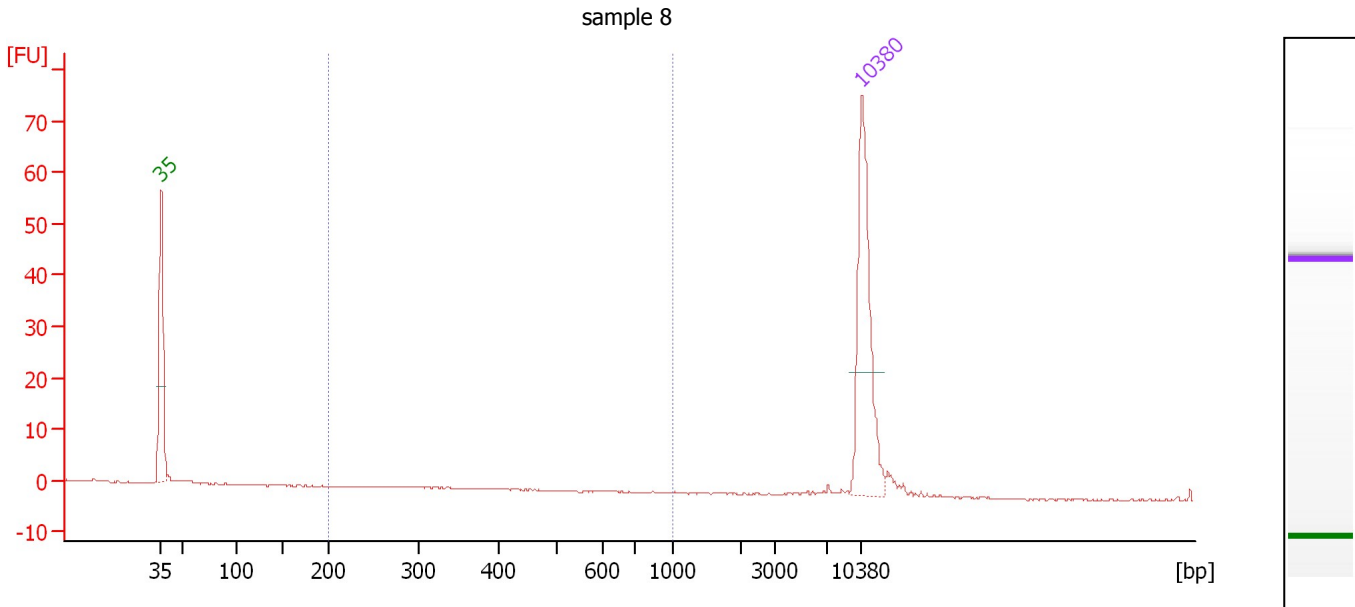
Region table for sample 7 : sample 7 mouse 11+12mon hi

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	420	1,000	269.3	70	40.4	344.68	1,512.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
 Modified: 2/9/2015 12:37:30 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.1

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

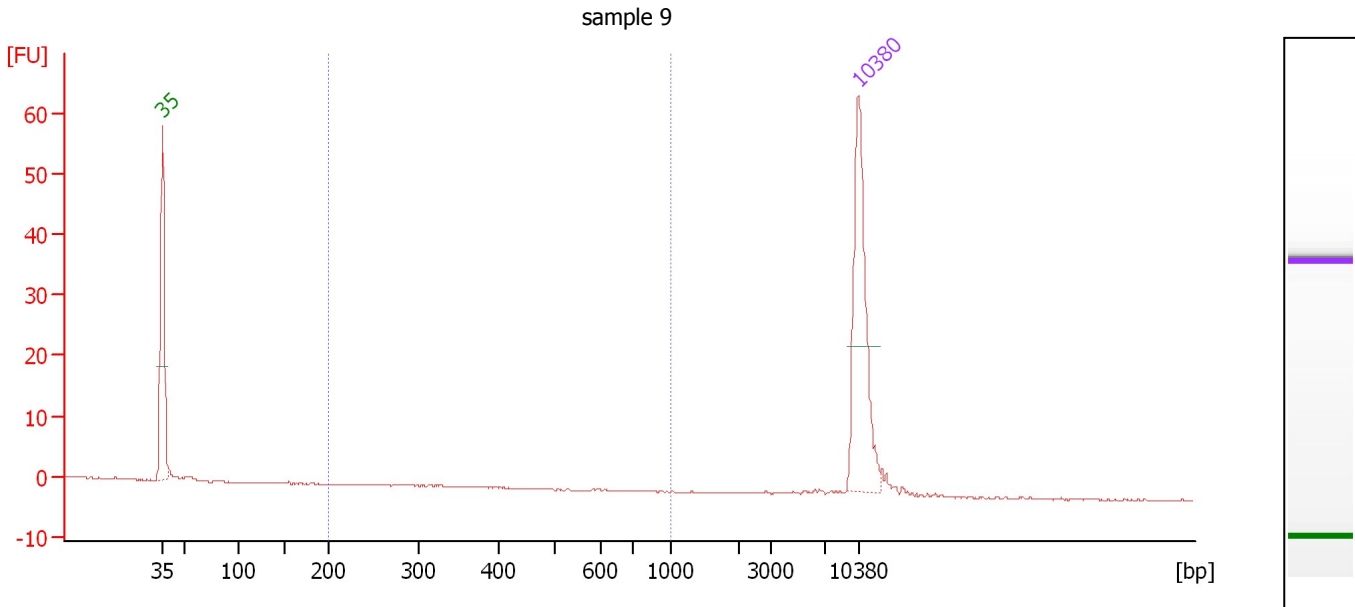
**Region table for sample 8 : sample 8**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	336	1,000	0.0	0	14.4	0.05	0.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
 Modified: 2/9/2015 12:37:30 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.1

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

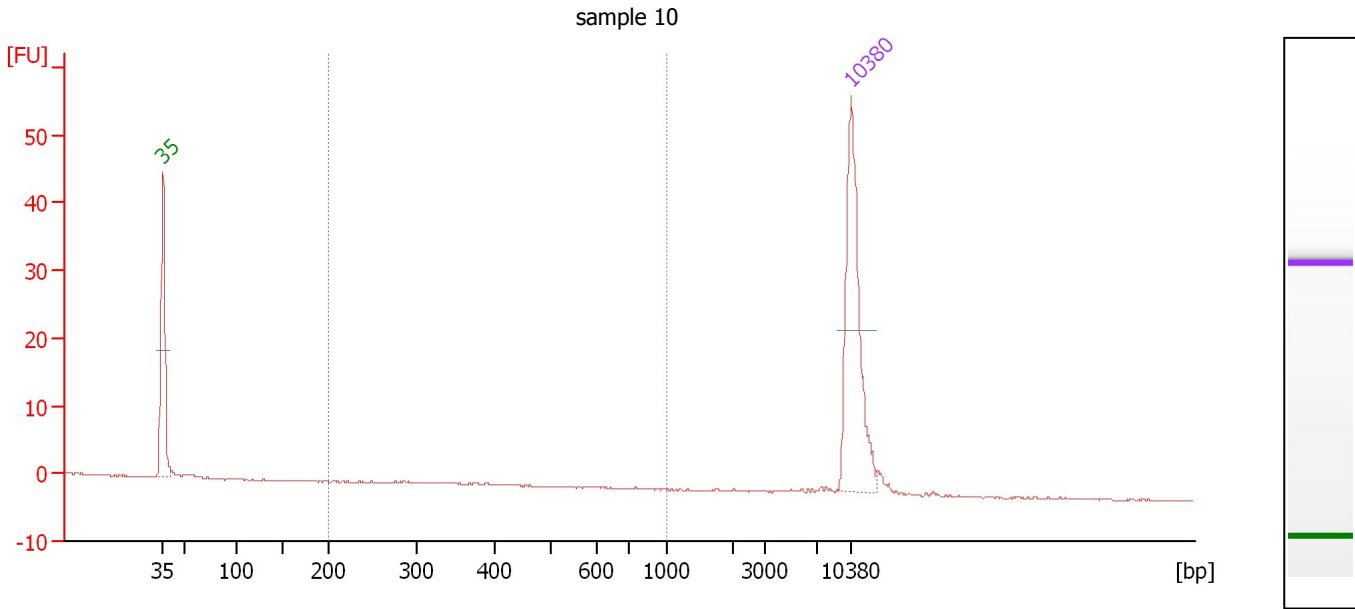
**Region table for sample 9 : sample 9**

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
 Modified: 2/9/2015 12:37:30 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 0.6  
 Noise: 0.1

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

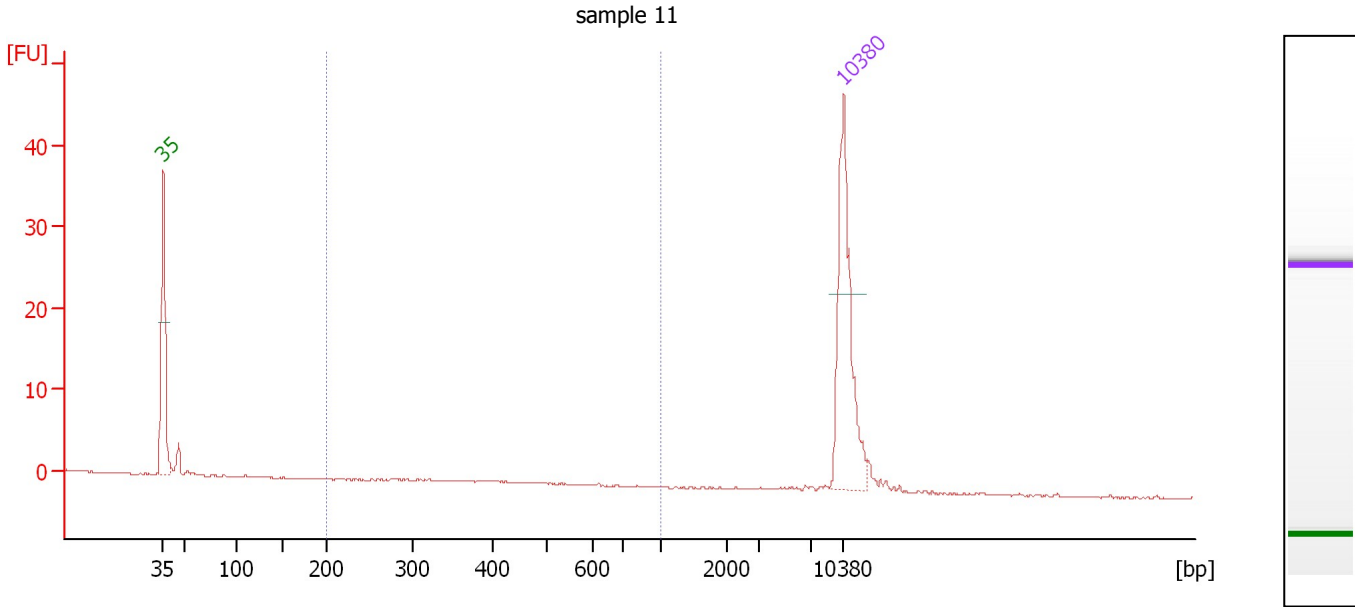
**Region table for sample 10 : sample 10**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	363	1,000	0.6	8	29.2	0.93	4.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
 Modified: 2/9/2015 12:37:30 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 0.2  
 Noise: 0.1

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

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

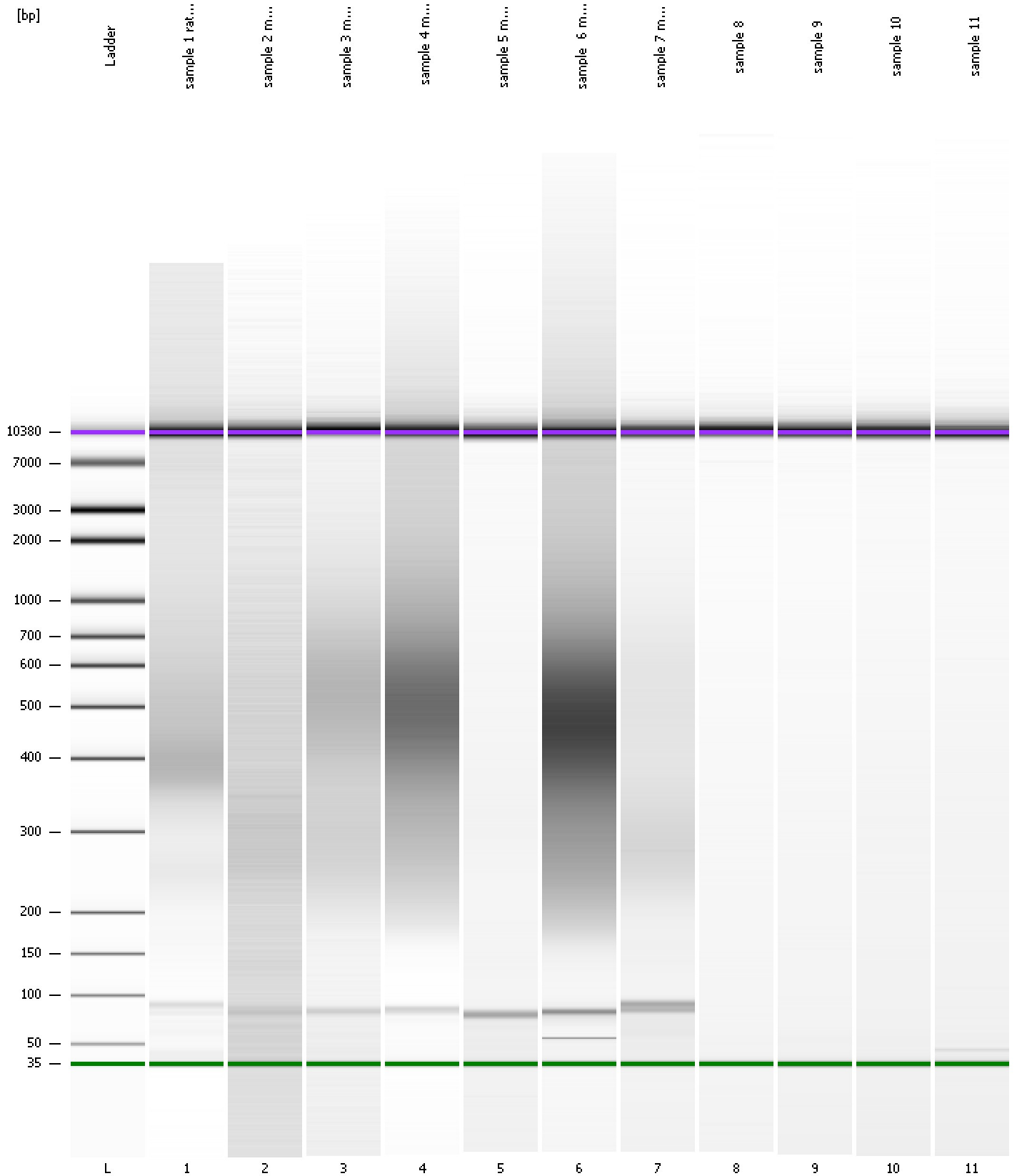
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	416	1,000	0.2	2	23.1	0.32	1.2	Blue



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
Modified: 2/9/2015 12:37:30 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-09\2015-02-09\_002.xad

Created: 2/9/2015 11:58:33 AM  
 Modified: 2/9/2015 12:37:30 PM

**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		2/9/2015 12:39:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-09\2015-02-09_002.xad)		Instrument	Run		2/9/2015 11:58:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/9/2015 11:58:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/9/2015 11:58:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/9/2015 11:58:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/9/2015 11:58:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/9/2015 11:58:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/9/2015 11:58:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1