

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-29\2015-06-29\_002.xad

Created: 6/29/2015 2:08:07 PM  
Modified: 6/29/2015 2:49:50 PM

**Electrophoresis File Run Summary**

Instrument Information:

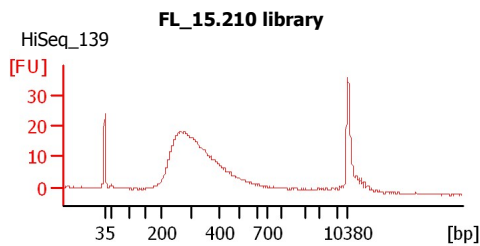
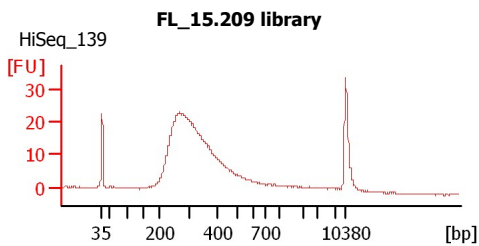
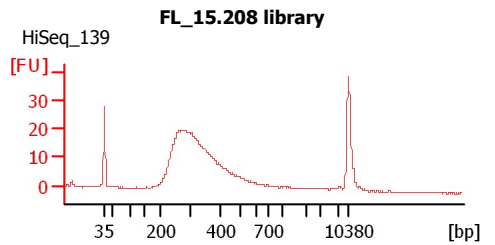
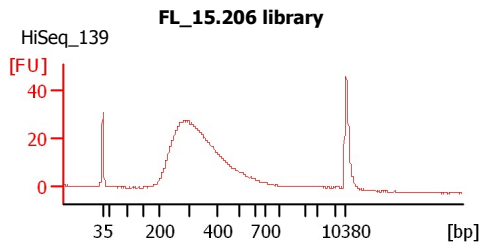
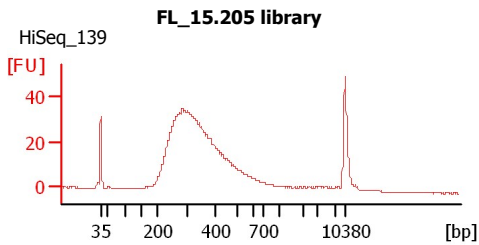
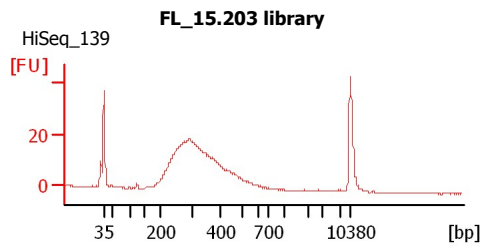
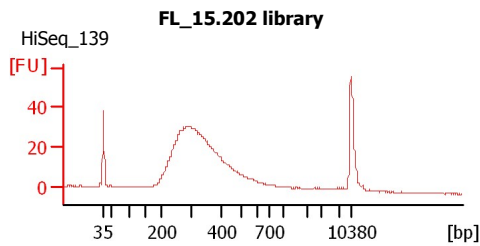
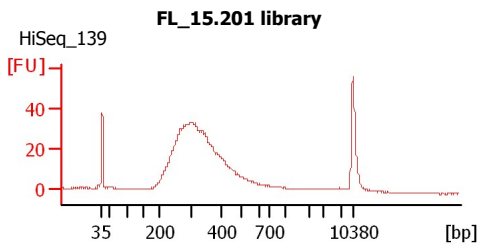
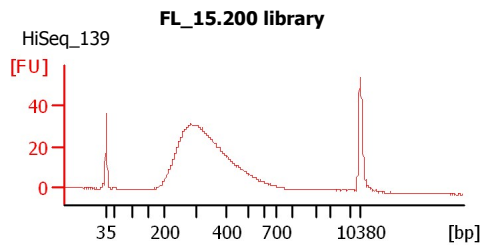
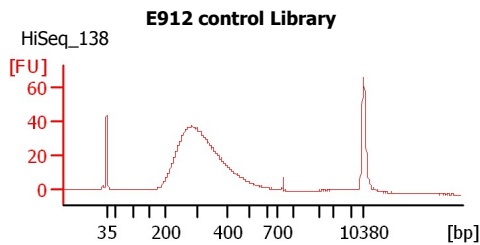
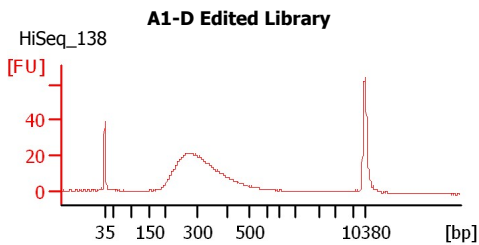
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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\2015-06-29\2015-06-29\_002.xad

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A1-D Edited Library	HiSeq_138	<input type="checkbox"/>	✓			
E912 control Library	HiSeq_138	<input type="checkbox"/>	✓			
FL_15.200 library	HiSeq_139	<input type="checkbox"/>	✓			
FL_15.201 library	HiSeq_139	<input type="checkbox"/>	✓			
FL_15.202 library	HiSeq_139	<input type="checkbox"/>	✓			
FL_15.203 library	HiSeq_139	<input type="checkbox"/>	✓			
FL_15.205 library	HiSeq_139	<input type="checkbox"/>	✓			
FL_15.206 library	HiSeq_139	<input type="checkbox"/>	✓			
FL_15.208 library	HiSeq_139	<input type="checkbox"/>	✓			
FL_15.209 library	HiSeq_139	<input type="checkbox"/>	✓			
FL_15.210 library	HiSeq_139	<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

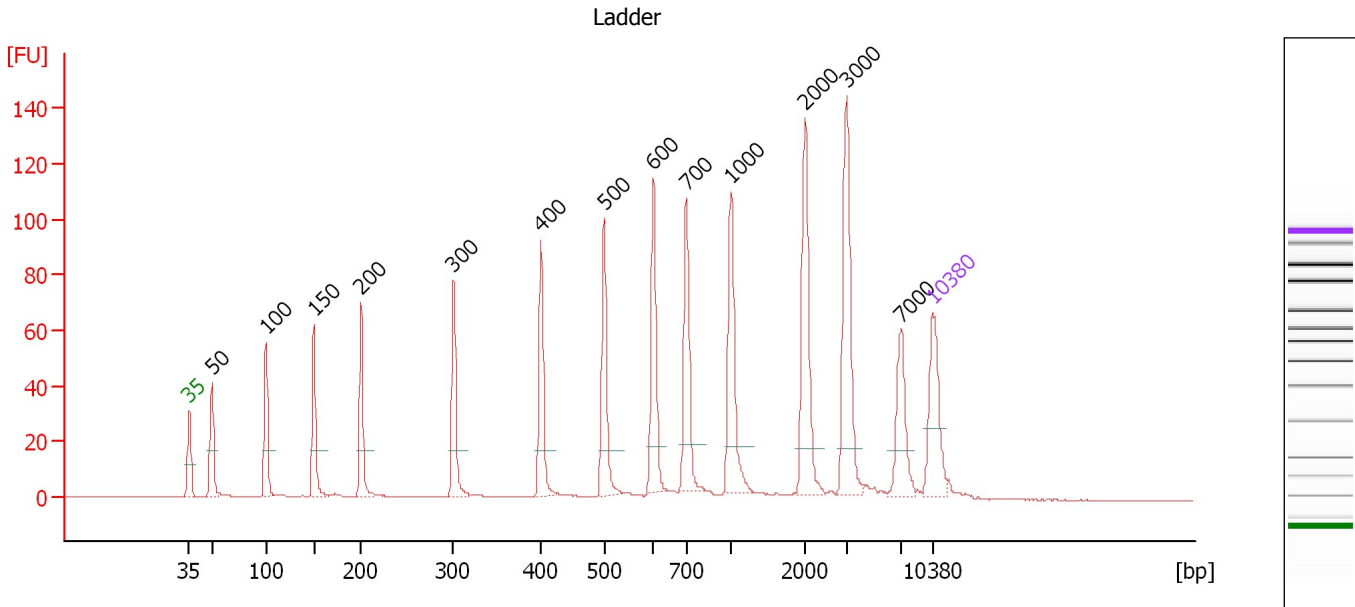
**Ladder**

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: 0.1

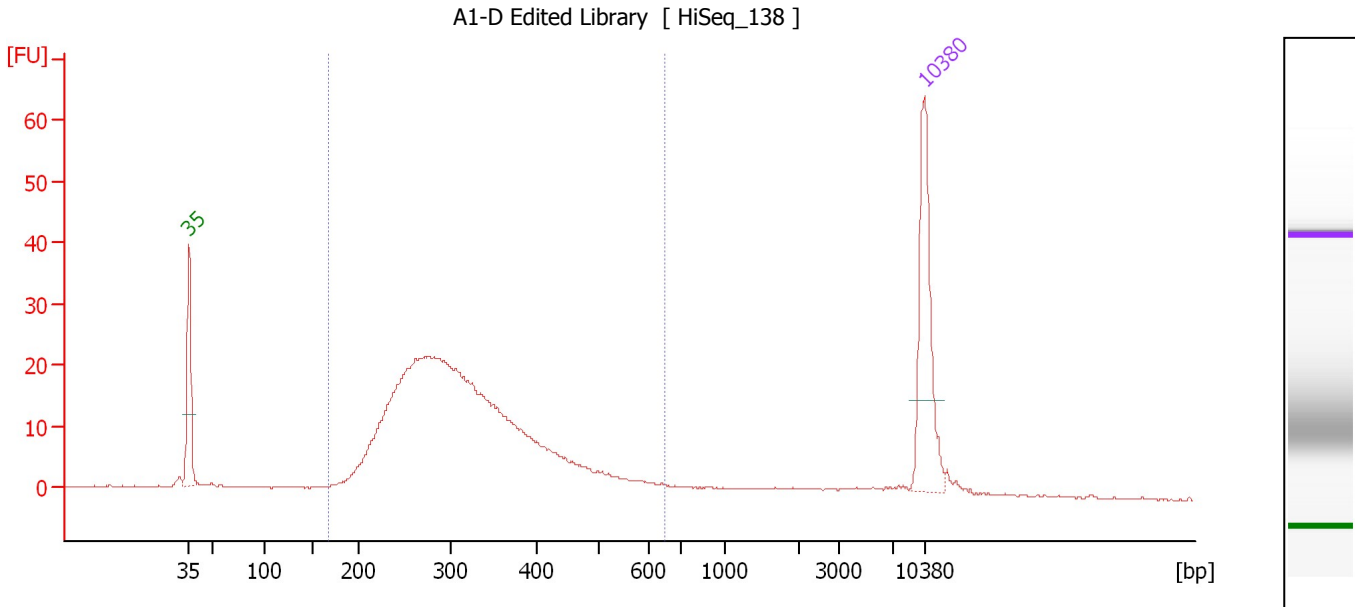
**Peak table for Ladder**

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	45.16
3	100	150.00	2,272.7	Ladder Peak	50.23
4	150	150.00	1,515.2	Ladder Peak	54.75
5	200	150.00	1,136.4	Ladder Peak	59.22
6	300	150.00	757.6	Ladder Peak	67.91
7	400	150.00	568.2	Ladder Peak	76.14
8	500	150.00	454.5	Ladder Peak	82.07
9	600	150.00	378.8	Ladder Peak	86.74
10	700	150.00	324.7	Ladder Peak	89.80
11	1,000	150.00	227.3	Ladder Peak	94.02
12	2,000	150.00	113.6	Ladder Peak	101.00
13	3,000	150.00	75.8	Ladder Peak	104.92
14	7,000	150.00	32.5	Ladder Peak	110.04
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : A1-D Edited Library**

Number of peaks found: 0                      Corr. Area 1: 441.7  
 Noise: 0.1

**Peak table for sample 1 : A1-D Edited Library**

Pea k	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

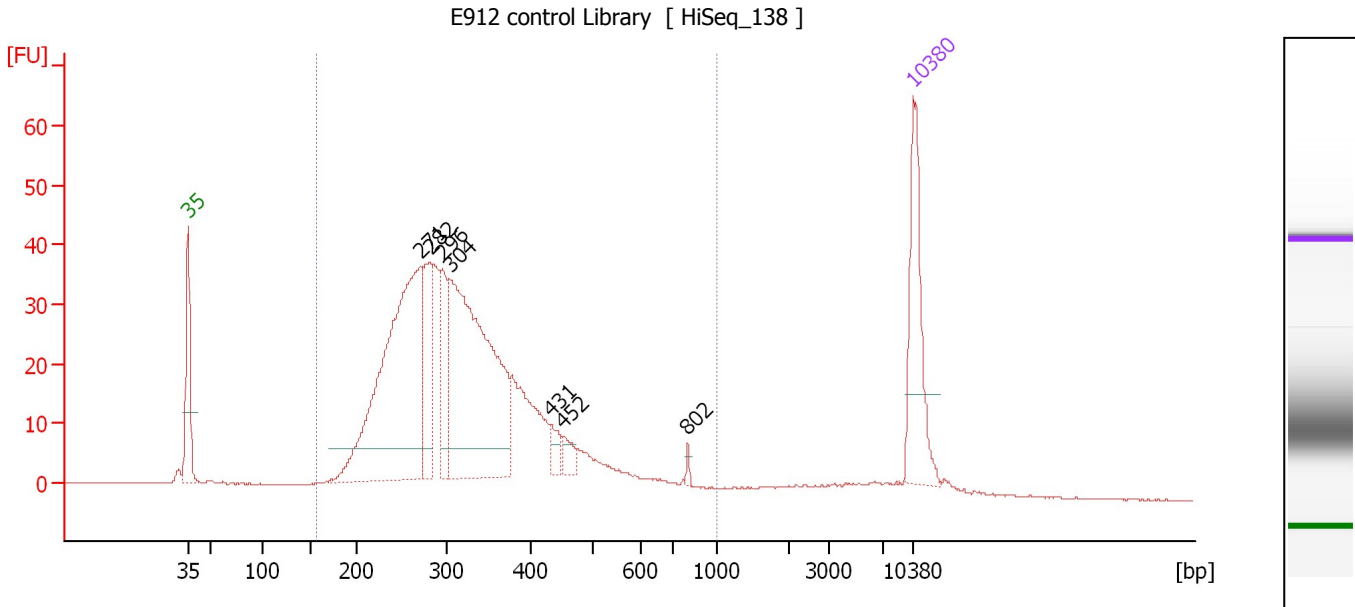
**Region table for sample 1 : A1-D Edited Library**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
168	321	649	441.7	3,776.9	90	26.0	738.96

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : E912 control Library**

Number of peaks found: 7                      Corr. Area 1: 759.6  
 Noise: 0.1

**Peak table for sample 2 : E912 control Library**

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	271	387.76	2,167.7		65.39
3	282	82.39	442.2		66.37
4	296	63.37	324.4		67.55
5	304	347.34	1,728.7		68.27
6	431	14.77	51.9		78.00
7	452	12.85	43.0		79.24
8	802	2.87	5.4		91.23
9	10,380	75.00	10.9	Upper Marker	113.00

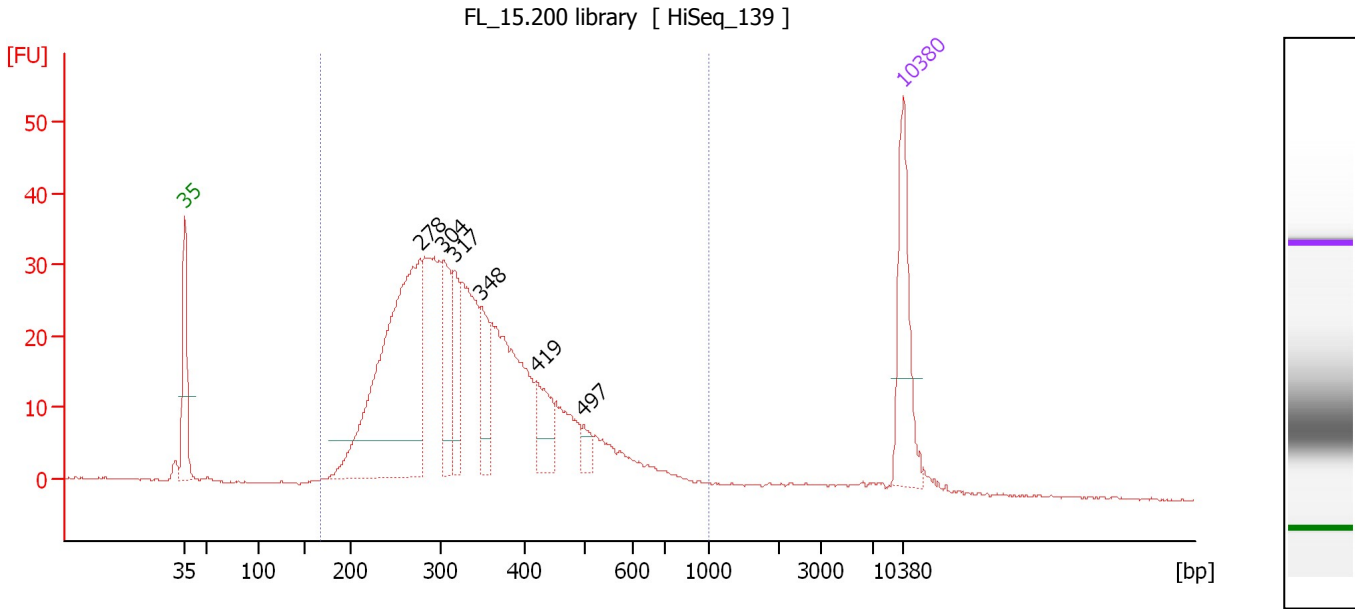
**Region table for sample 2 : E912 control Library**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
156	329	1,000	759.6	6,283.2	94	30.7	1,241.80

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : FL 15.200 library**

Number of peaks found: 6                      Corr. Area 1: 720.0  
 Noise: 0.1

**Peak table for sample 3 : FL 15.200 library**

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	278	414.71	2,264.3		65.95
3	304	82.85	412.9		68.24
4	317	60.63	290.1		69.28
5	348	54.23	236.0		71.87
6	419	45.85	165.8		77.27
7	497	13.14	40.0		81.89
8	10,380	75.00	10.9	Upper Marker	113.00

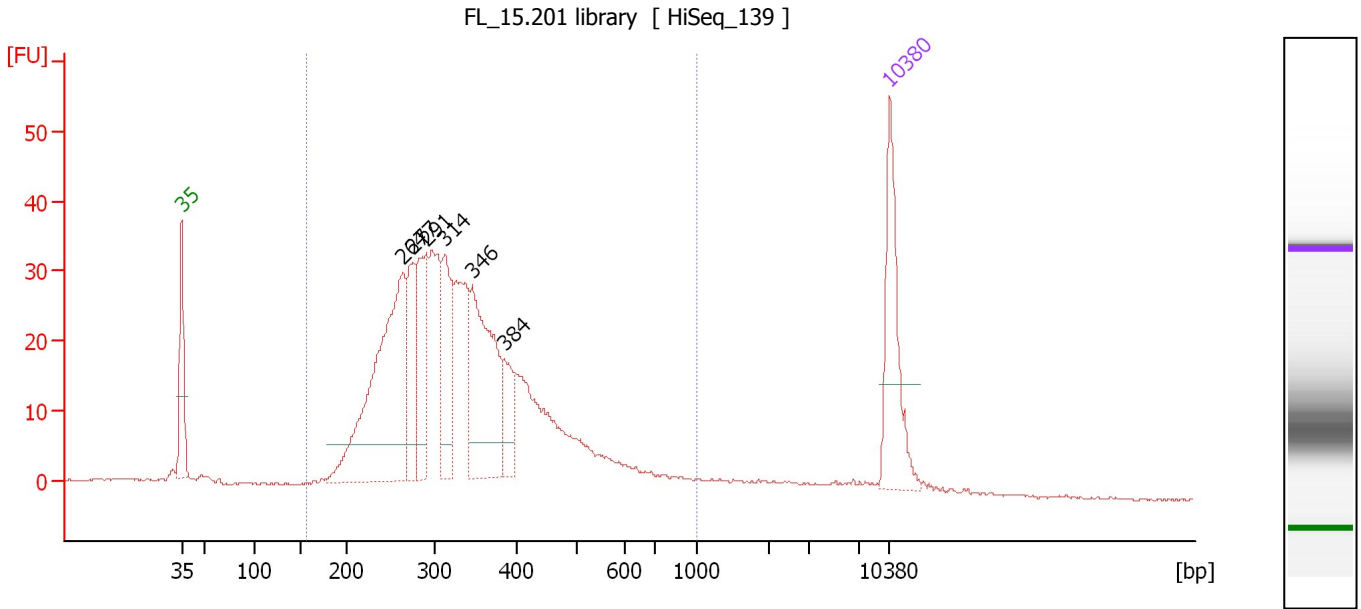
**Region table for sample 3 : FL 15.200 library**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
167	349	1,000	720.0	6,828.2	96	31.6	1,409.59

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-29\2015-06-29\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : FL 15.201 library**

Number of peaks found: 6                      Corr. Area 1: 709.7  
 Noise: 0.2

**Peak table for sample 4 : FL 15.201 library**

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	264	299.91	1,718.0		64.82
3	277	75.57	413.9		65.88
4	291	98.16	510.8		67.14
5	314	89.07	430.2		69.04
6	346	165.37	724.7		71.67
7	384	41.50	163.7		74.84
8	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : FL 15.201 library**

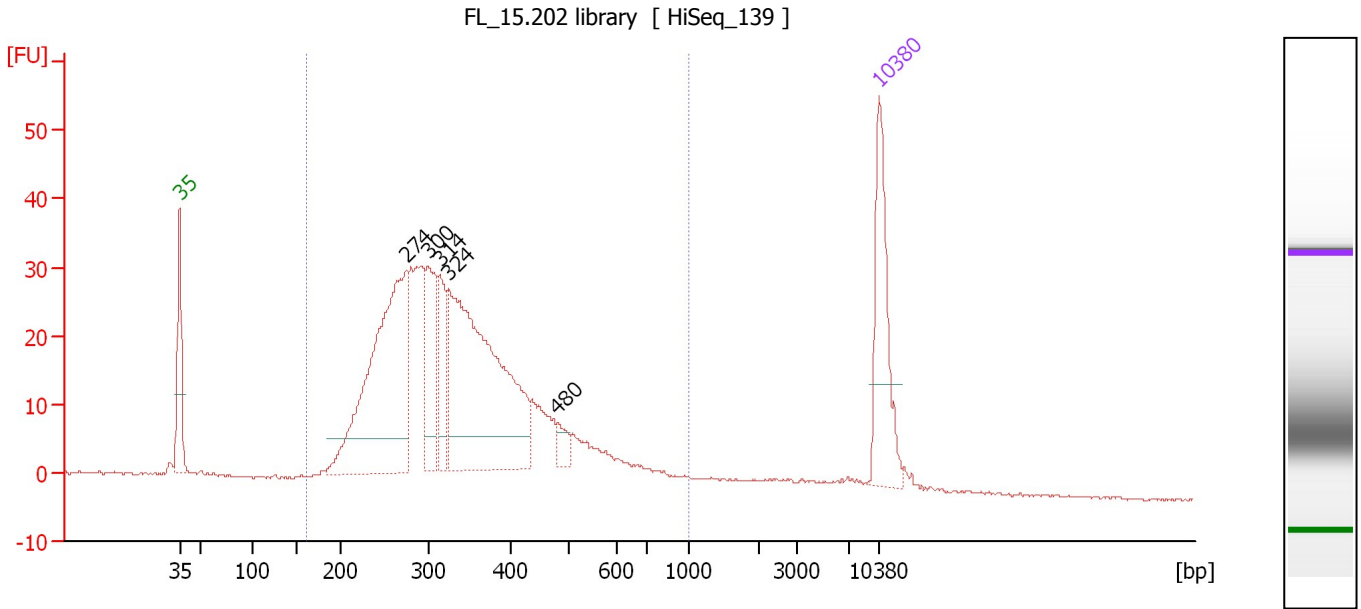
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
156	347	1,000	709.7	6,162.3	94	32.0	1,270.38



Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : FL 15.202 library**

Number of peaks found: 5                      Corr. Area 1: 686.6  
 Noise: 0.2

**Peak table for sample 5 : FL 15.202 library**

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	274	315.76	1,746.7		65.64
3	300	84.55	427.4		67.88
4	314	56.17	271.1		69.06
5	324	346.21	1,617.3		69.91
6	480	13.32	42.1		80.86
7	10,380	75.00	10.9	Upper Marker	113.00

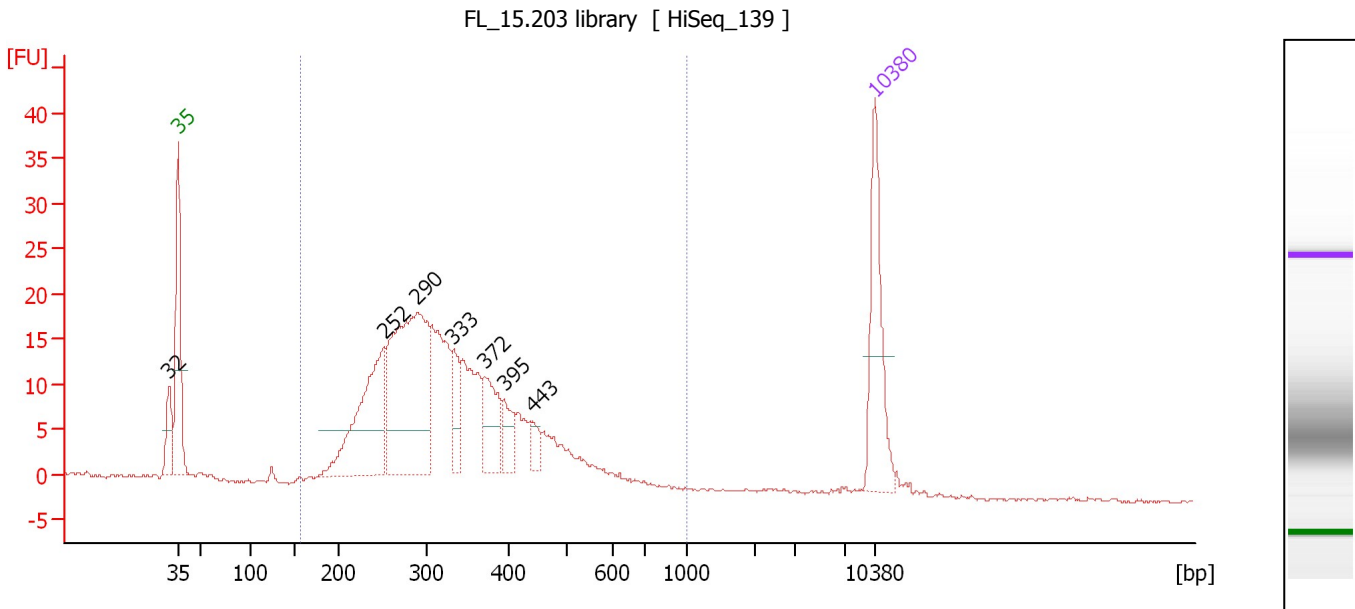
**Region table for sample 5 : FL 15.202 library**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
160	350	1,000	686.6	5,624.5	94	32.8	1,162.06

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : FL 15.203 library**

Number of peaks found: 7                      Corr. Area 1: 385.7  
 Noise: 0.1

**Peak table for sample 6 : FL 15.203 library**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.09
2	35	125.00	5,411.3	Lower Marker	43.00
3	252	172.48	1,037.5		63.73
4	290	268.42	1,401.9		67.05
5	333	37.57	170.9		70.64
6	372	53.15	216.8		73.80
7	395	25.83	99.1		75.72
8	443	14.24	48.7		78.67
9	10,380	75.00	10.9	Upper Marker	113.00

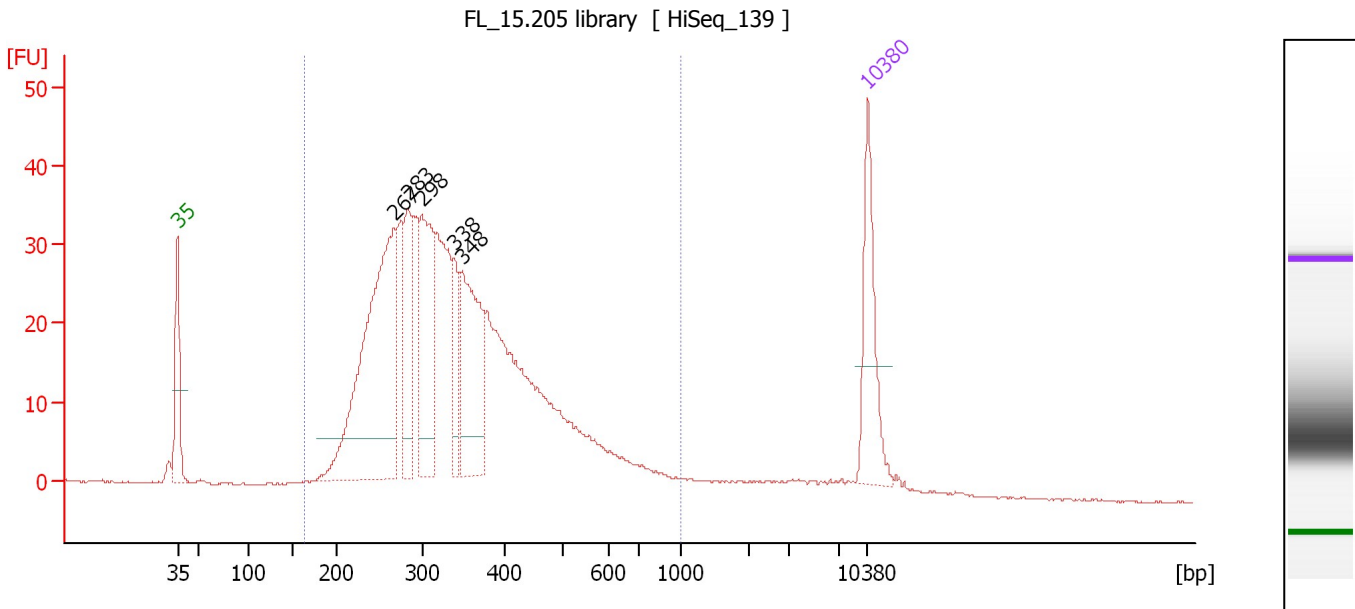
**Region table for sample 6 : FL 15.203 library**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
157	335	1,000	385.7	4,780.5	95	27.6	967.06

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : FL 15.205 library**

Number of peaks found: 5                      Corr. Area 1: 773.0  
 Noise: 0.2

**Peak table for sample 7 : FL 15.205 library**

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	267	397.79	2,261.2		65.00
3	283	101.42	543.5		66.41
4	298	155.17	788.2		67.76
5	338	54.50	244.1		71.05
6	348	160.64	699.3		71.86
7	10,380	75.00	10.9	Upper Marker	113.00

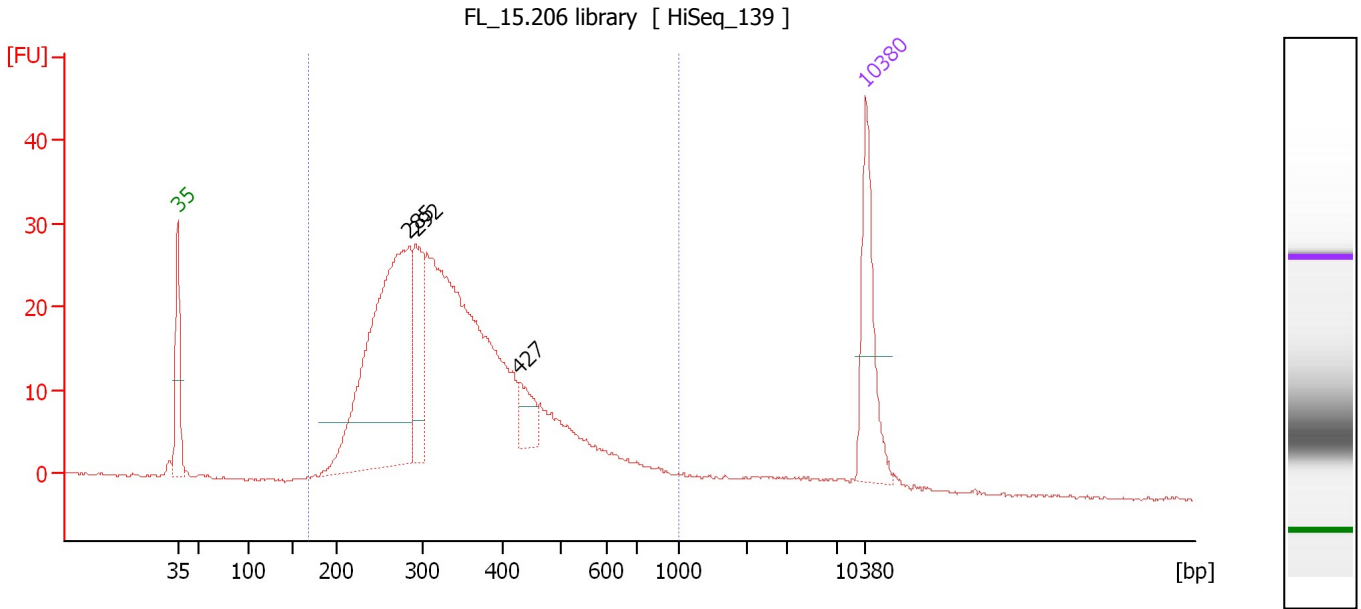
**Region table for sample 7 : FL 15.205 library**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
162	354	1,000	773.0	8,100.2	95	32.9	1,687.29

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : FL\_15.206 library**

Number of peaks found: 3                      Corr. Area 1: 611.5  
 Noise: 0.2

**Peak table for sample 8 : FL\_15.206 library**

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	285	423.30	2,252.0		66.59
3	292	97.12	503.4		67.24
4	427	31.01	110.0		77.76
5	10,380	75.00	10.9	Upper Marker	113.00

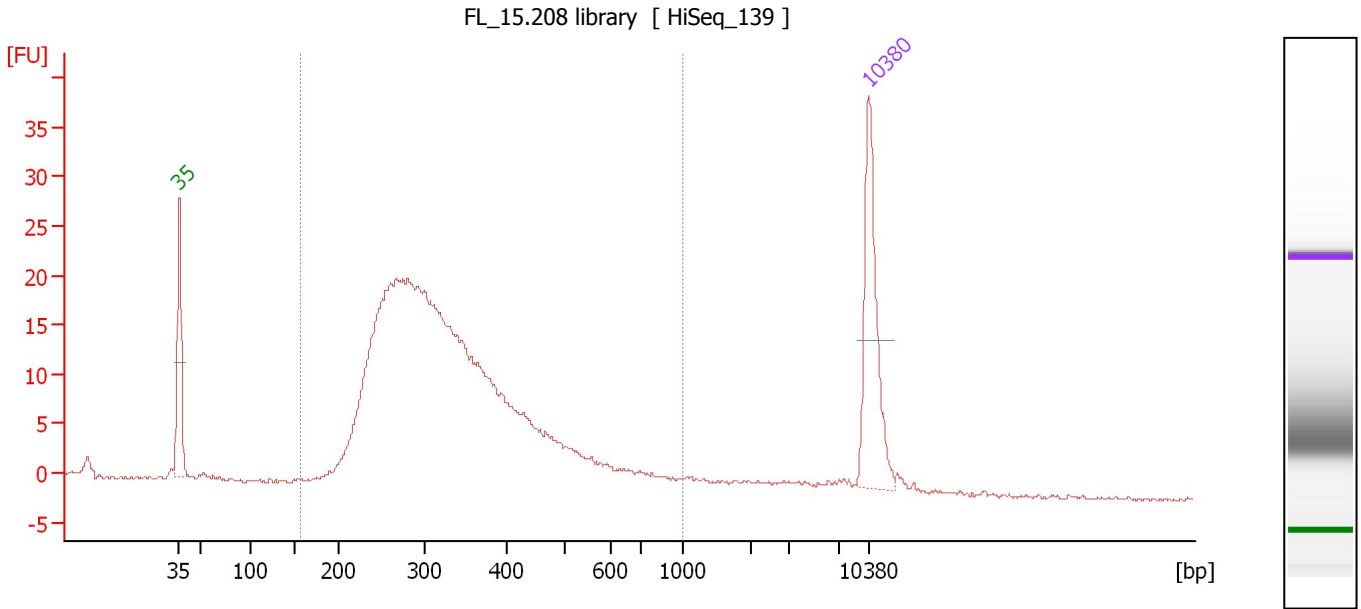
**Region table for sample 8 : FL\_15.206 library**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
168	354	1,000	611.5	6,273.0	95	32.9	1,311.38

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : FL 15.208 library**

Number of peaks found: 0                      Corr. Area 1: 397.9  
Noise: 0.2

**Peak table for sample 9 : FL 15.208 library**

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

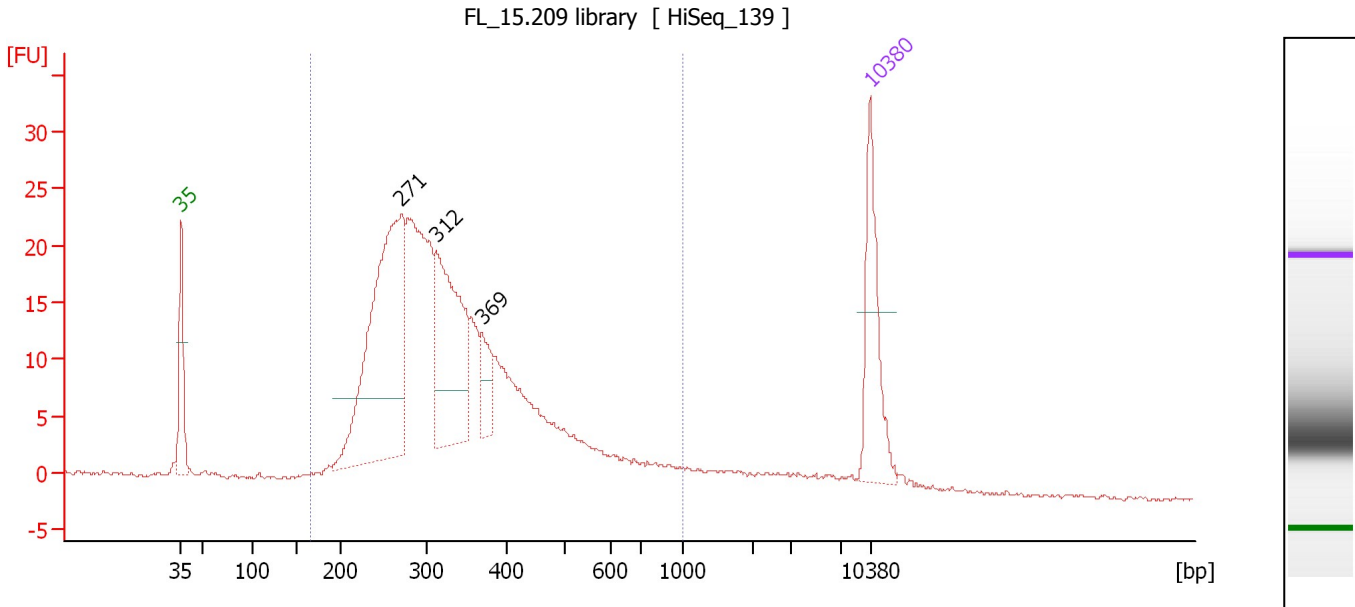
**Region table for sample 9 : FL 15.208 library**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
157	339	1,000	397.9	4,757.4	96	30.9	968.10

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : FL 15.209 library**

Number of peaks found: 3                      Corr. Area 1: 460.8  
 Noise: 0.2

**Peak table for sample 10 : FL 15.209 library**

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	271	376.89	2,108.2		65.38
3	312	197.72	960.1		68.90
4	369	34.63	142.4		73.56
5	10,380	75.00	10.9	Upper Marker	113.00

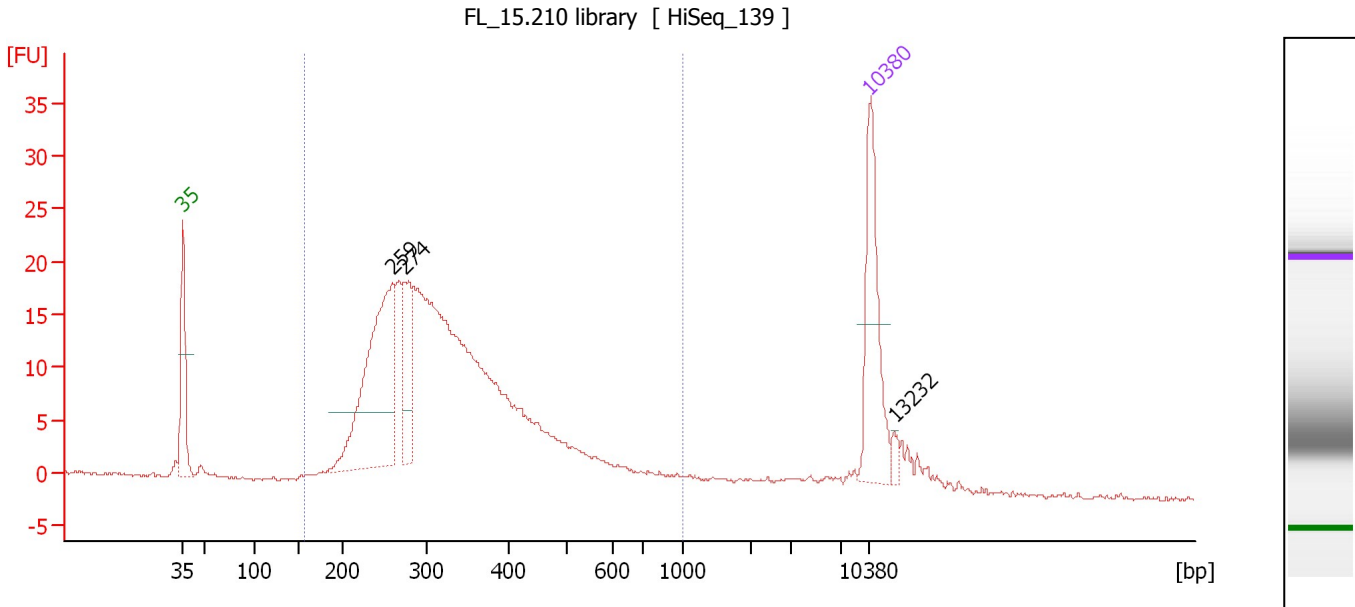
**Region table for sample 10 : FL 15.209 library**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
166	347	1,000	460.8	6,632.7	94	34.8	1,353.66

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : FL 15.210 library**

Number of peaks found: 3                      Corr. Area 1: 382.5  
 Noise: 0.2

**Peak table for sample 11 : FL 15.210 library**

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	259	226.18	1,322.3		64.36
3	274	65.26	360.7		65.66
4	10,380	75.00	10.9	Upper Marker	113.00
5	13,232	0.00	0.0		115.50

**Region table for sample 11 : FL 15.210 library**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
156	340	1,000	382.5	4,918.3	92	33.1	991.06

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**Gel Image**