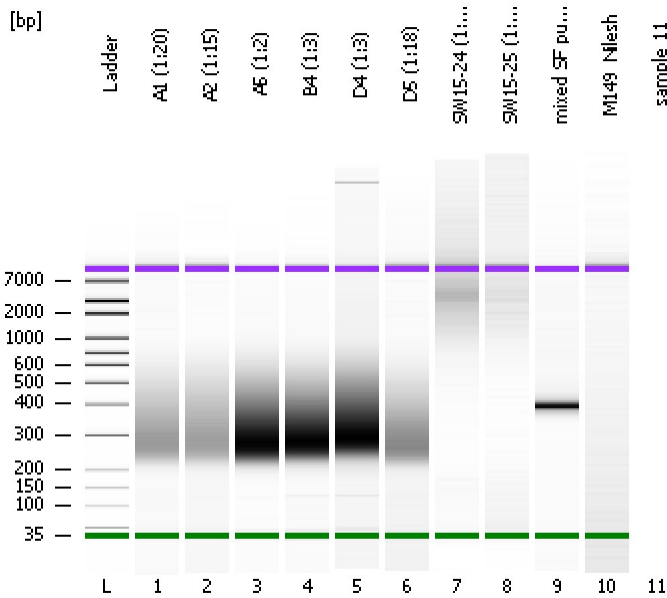


Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
 Modified: 7/14/2015 3:32:20 PM

**Electrophoresis File Run Summary**



Instrument Information:

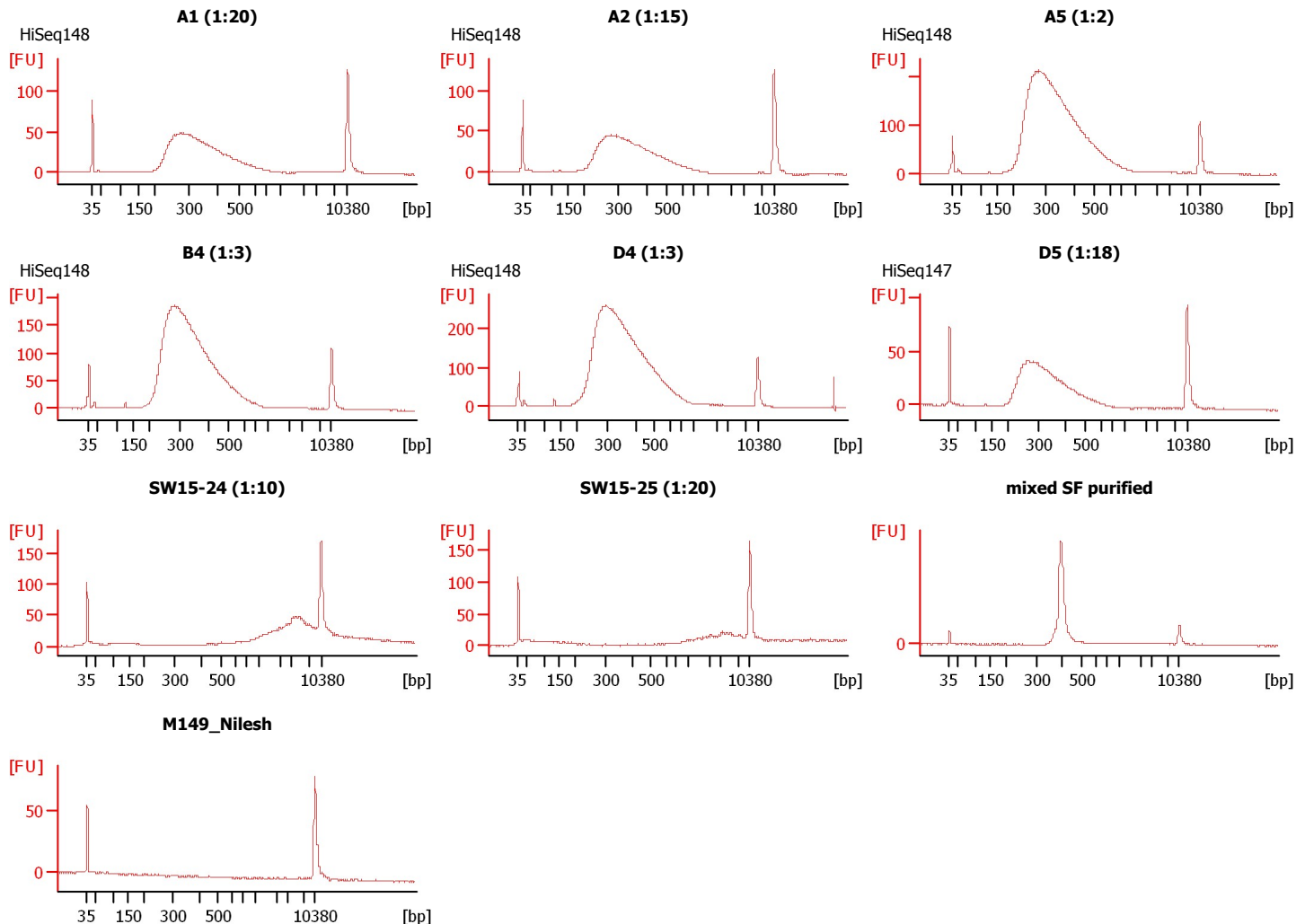
Instrument Name: DE13701086      Firmware: C.01.069  
 Serial#: DE13701086      Type: G2938B

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\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
Modified: 7/14/2015 3:32:20 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A1 (1:20)	HiSeq148	<input type="checkbox"/>	✓			
A2 (1:15)	HiSeq148	<input type="checkbox"/>	✓			
A5 (1:2)	HiSeq148	<input type="checkbox"/>	✓			
B4 (1:3)	HiSeq148	<input type="checkbox"/>	✓			
D4 (1:3)	HiSeq148	<input type="checkbox"/>	✓			
D5 (1:18)	HiSeq147	<input type="checkbox"/>	✓			
SW15-24 (1:10)		<input type="checkbox"/>	✓			
SW15-25 (1:20)		<input type="checkbox"/>	✓			
mixed SF purified		<input type="checkbox"/>	✓			
M149_Nilesh		<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\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
Modified: 7/14/2015 3:32:20 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

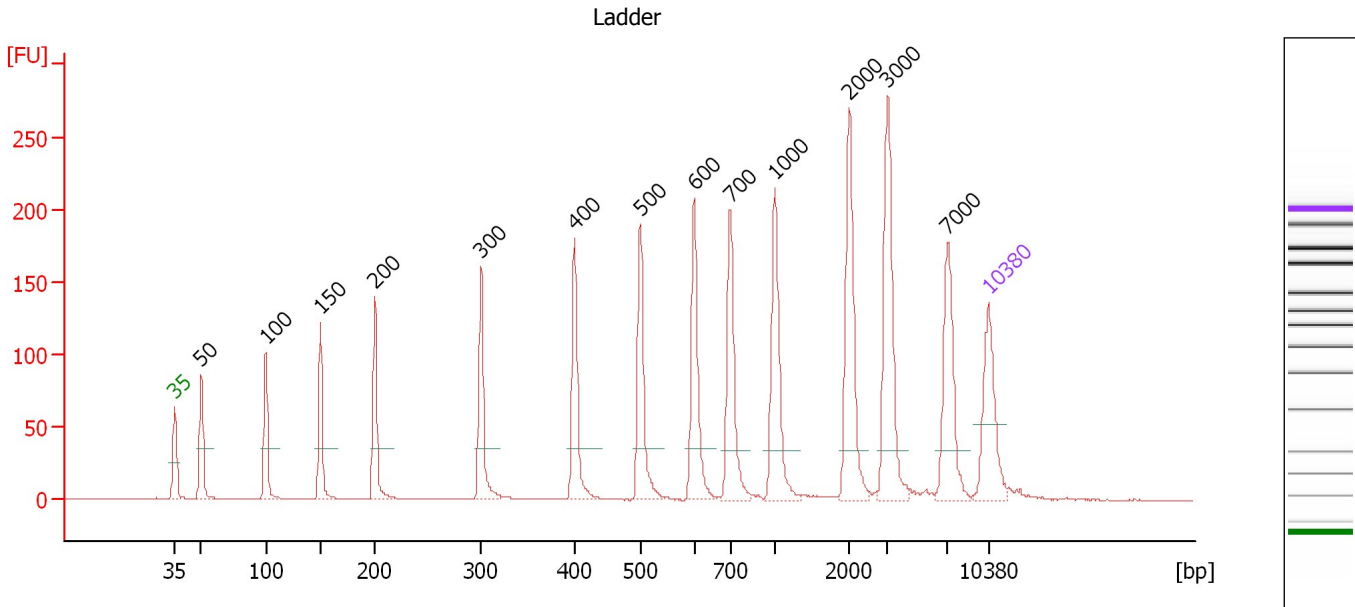
**Ladder**

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\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
 Modified: 7/14/2015 3:32:20 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

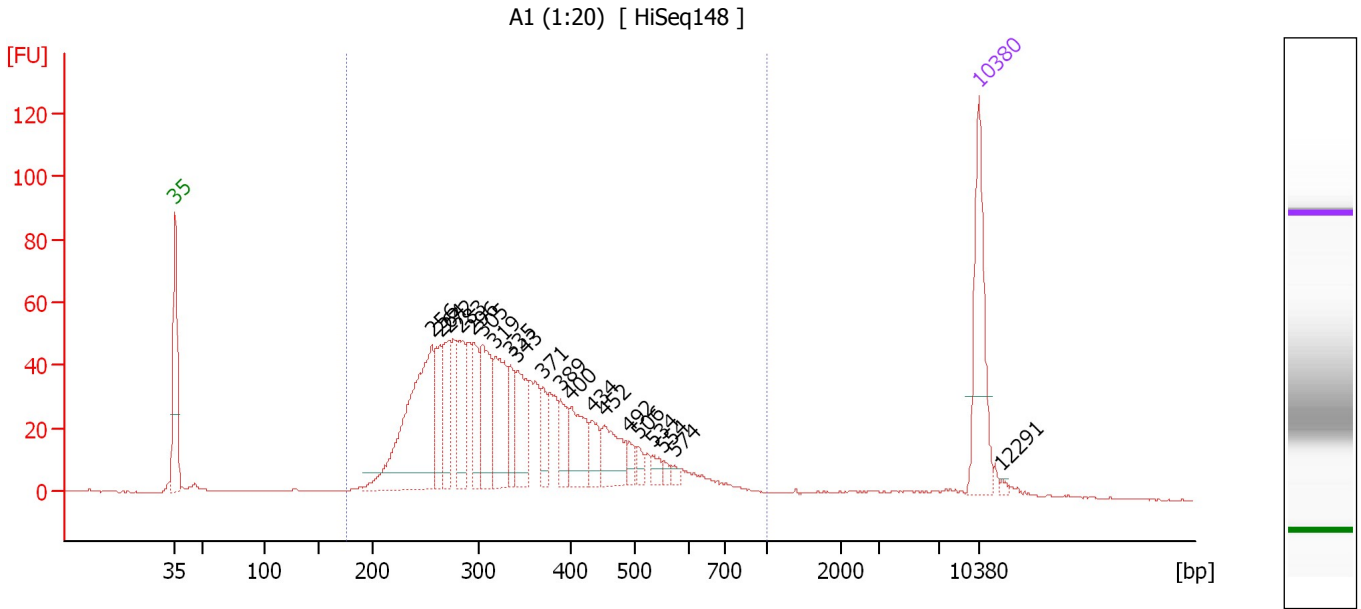
**Peak table for Ladder**

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	45.29
3	100	150.00	2,272.7	Ladder Peak	50.84
4	150	150.00	1,515.2	Ladder Peak	55.52
5	200	150.00	1,136.4	Ladder Peak	60.20
6	300	150.00	757.6	Ladder Peak	69.38
7	400	150.00	568.2	Ladder Peak	77.40
8	500	150.00	454.5	Ladder Peak	83.05
9	600	150.00	378.8	Ladder Peak	87.68
10	700	150.00	324.7	Ladder Peak	90.80
11	1,000	150.00	227.3	Ladder Peak	94.61
12	2,000	150.00	113.6	Ladder Peak	101.03
13	3,000	150.00	75.8	Ladder Peak	104.33
14	7,000	150.00	32.5	Ladder Peak	109.47
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
 Modified: 7/14/2015 3:32:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : A1 (1:20)**

Number of peaks found: 20                      Corr. Area 1: 1,198.8  
 Noise: 0.2

**Peak table for sample 1 : A1 (1:20)**


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	256	227.33	1,345.3		65.34
3	264	51.72	296.7		66.09
4	272	55.91	311.2		66.83
5	283	58.14	311.4		67.80
6	296	47.80	245.1		68.97
7	305	80.08	398.2		69.76
8	319	77.44	368.3		70.87
9	335	33.69	152.2		72.22
10	343	59.74	264.0		72.82
11	371	25.12	102.7		75.05
12	389	30.08	117.1		76.54
13	400	49.44	187.4		77.37
14	434	23.66	82.6		79.32
15	452	45.90	153.8		80.35
16	492	10.07	31.0		82.58
17	506	9.05	27.1		83.32
18	534	8.86	25.1		84.62
19	554	5.43	14.9		85.55
20	574	4.86	12.8		86.48
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,291	0.00	0.0		115.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
Modified: 7/14/2015 3:32:20 PM

**Electropherogram Summary Continued ...**

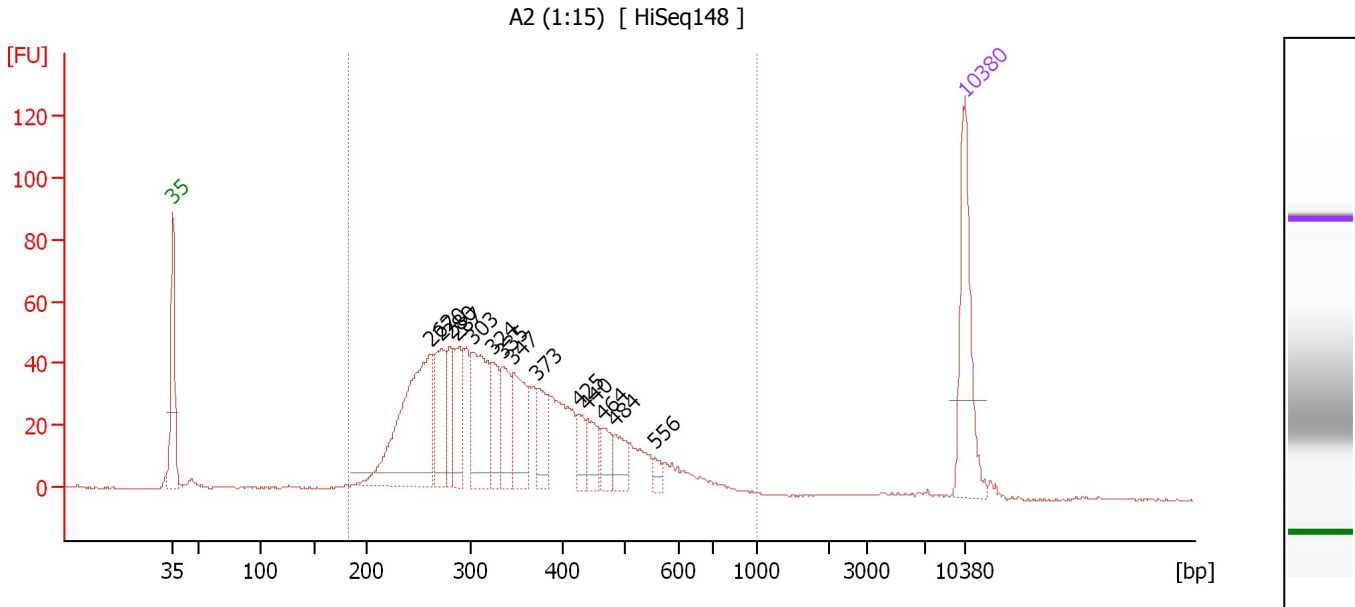
... Region table for sample 1 : A1 (1:20)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
175	353	1,000	1,198.8	5,881.3	 94	31.4	1,227.66

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
 Modified: 7/14/2015 3:32:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : A2 (1:15)**

Number of peaks found: 14                      Corr. Area 1: 1,176.9  
 Noise: 0.2

**Peak table for sample 2 : A2 (1:15)**

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	262	217.92	1,261.7		65.86
3	270	73.66	412.7		66.66
4	280	41.40	224.3		67.51
5	287	53.26	281.3		68.17
6	303	105.13	526.4		69.59
7	324	43.23	202.0		71.33
8	335	49.75	225.1		72.18
9	347	66.09	288.9		73.12
10	373	41.25	167.5		75.24
11	425	22.50	80.2		78.82
12	440	28.05	96.5		79.67
13	464	22.69	74.2		80.99
14	484	22.99	72.0		82.12
15	556	8.38	22.8		85.66
16	10,380	75.00	10.9	Upper Marker	113.00

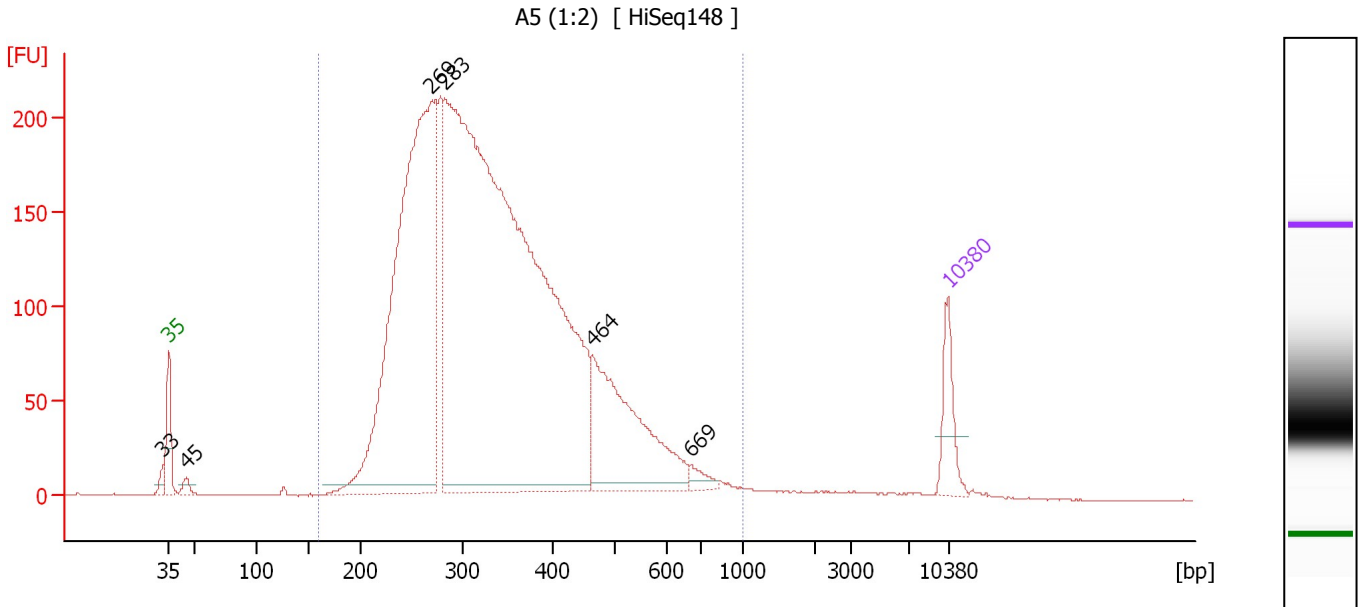
**Region table for sample 2 : A2 (1:15)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
181	356	1,000	1,176.9	5,129.3	96	30.7	1,079.48

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
 Modified: 7/14/2015 3:32:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : A5 (1:2)**

Number of peaks found: 6                      Corr. Area 1: 4,879.4  
 Noise: 0.2

**Peak table for sample 3 : A5 (1:2)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.43
2	35	125.00	5,411.3	Lower Marker	43.00
3	45	23.12	778.0		44.53
4	269	1,628.30	9,162.3		66.56
5	283	3,455.63	18,511.6		67.80
6	464	453.87	1,482.0		81.02
7	669	25.34	57.4		89.83
8	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 3 : A5 (1:2)**

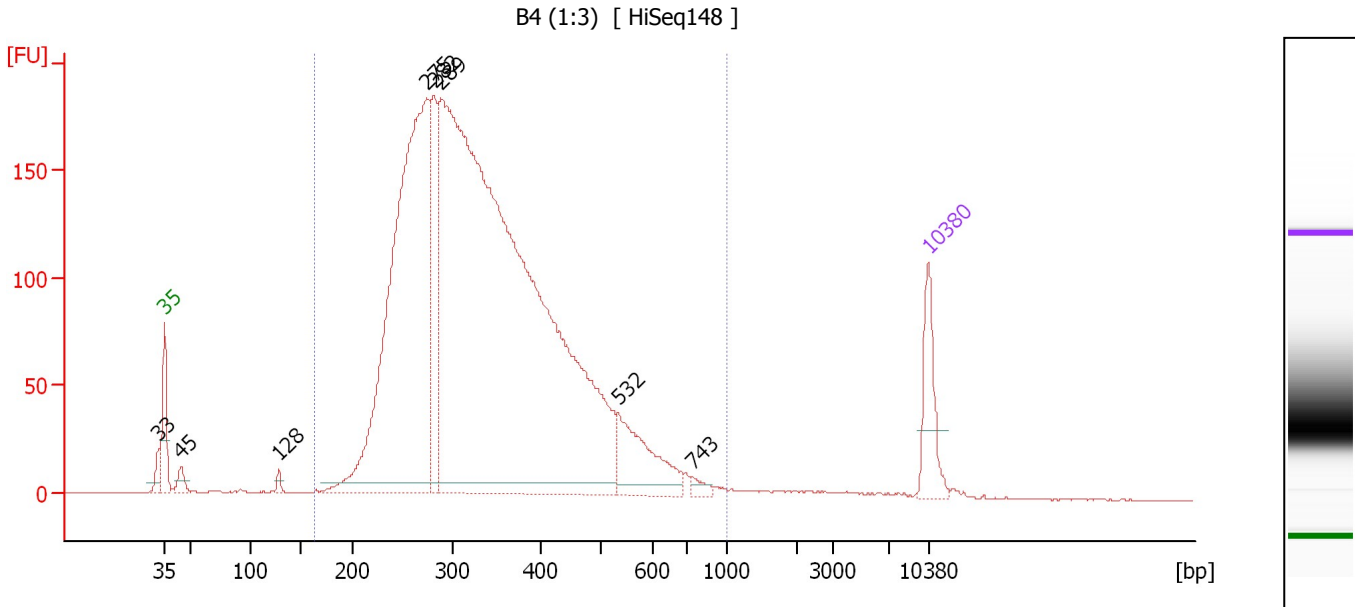
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
160	346	1,000	4,879.4	26,856.6	98	30.4	5,544.83



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : B4 (1:3)**

Number of peaks found: 8                      Corr. Area 1: 4,054.6  
 Noise: 0.2

**Peak table for sample 4 : B4 (1:3)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.46
2	35	125.00	5,411.3	Lower Marker	43.00
3	45	28.64	966.3		44.52
4	128	11.38	134.8		53.46
5	275	1,233.70	6,806.0		67.05
6	282	209.38	1,126.7		67.69
7	289	2,871.09	15,078.4		68.32
8	532	151.70	431.7		84.55
9	743	13.79	28.1		91.34
10	10,380	75.00	10.9	Upper Marker	113.00

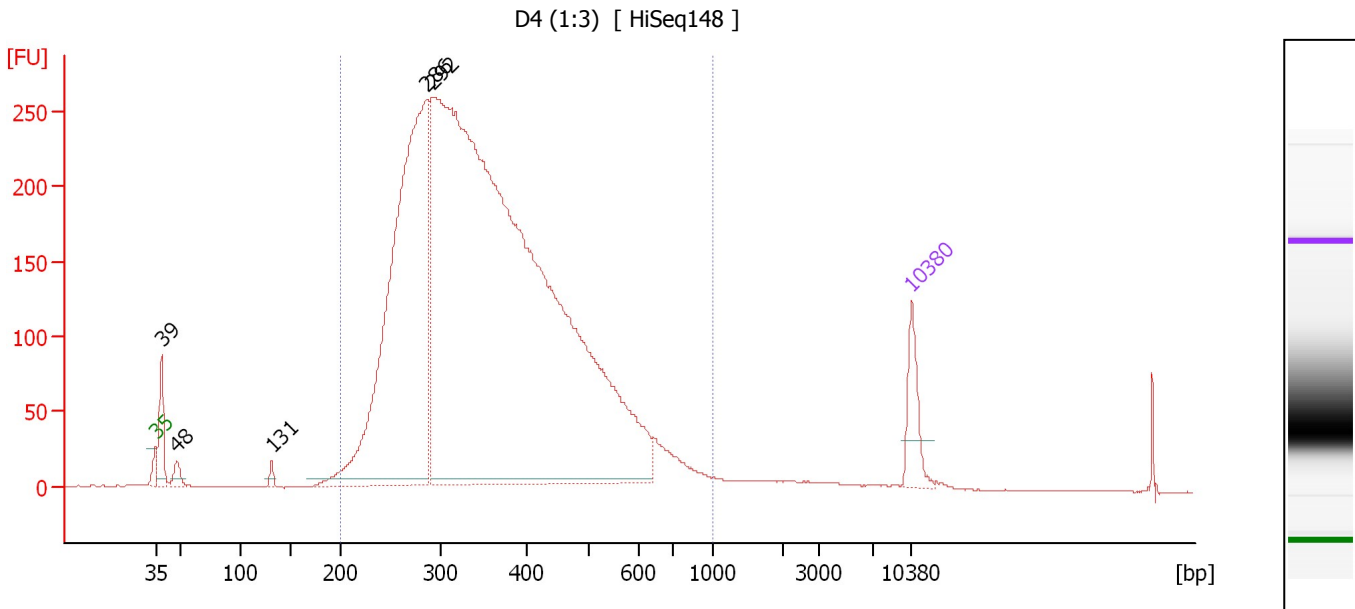
**Region table for sample 4 : B4 (1:3)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
164	347	1,000	4,054.6	20,159.2	97	29.5	4,193.08

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
 Modified: 7/14/2015 3:32:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : D4 (1:3)**

Number of peaks found: 5                      Corr. Area 1: 5,983.4  
 Noise: 0.3

**Peak table for sample 5 : D4 (1:3)**

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	39	136.00	5,345.1		43.54
3	48	36.81	1,164.1		44.97
4	131	18.24	210.7		53.76
5	286	1,640.43	8,678.9		68.13
6	292	4,677.58	24,291.0		68.62
7	10,380	75.00	10.9	Upper Marker	113.00

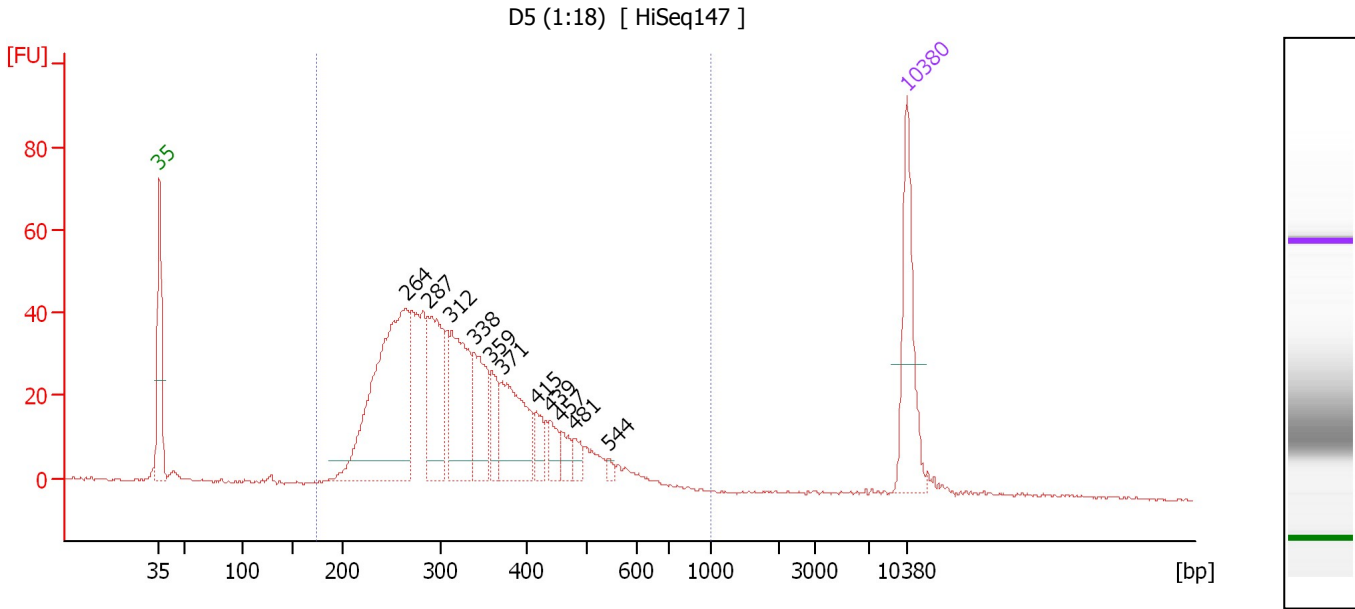
**Region table for sample 5 : D4 (1:3)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	367	1,000	5,983.4	26,543.9	95	29.7	5,824.15

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
 Modified: 7/14/2015 3:32:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : D5 (1:18)**

Number of peaks found: 11                      Corr. Area 1: 920.4  
 Noise: 0.3

**Peak table for sample 6 : D5 (1:18)**

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	314.70	1,802.9		66.12
3	287	115.30	609.1		68.16
4	312	126.70	614.8		70.36
5	338	76.76	343.7		72.46
6	359	35.89	151.5		74.11
7	371	100.46	409.9		75.10
8	415	22.20	81.1		78.25
9	439	19.16	66.2		79.60
10	457	15.60	51.7		80.65
11	481	13.92	43.8		81.99
12	544	5.07	14.1		85.09
13	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 6 : D5 (1:18)**

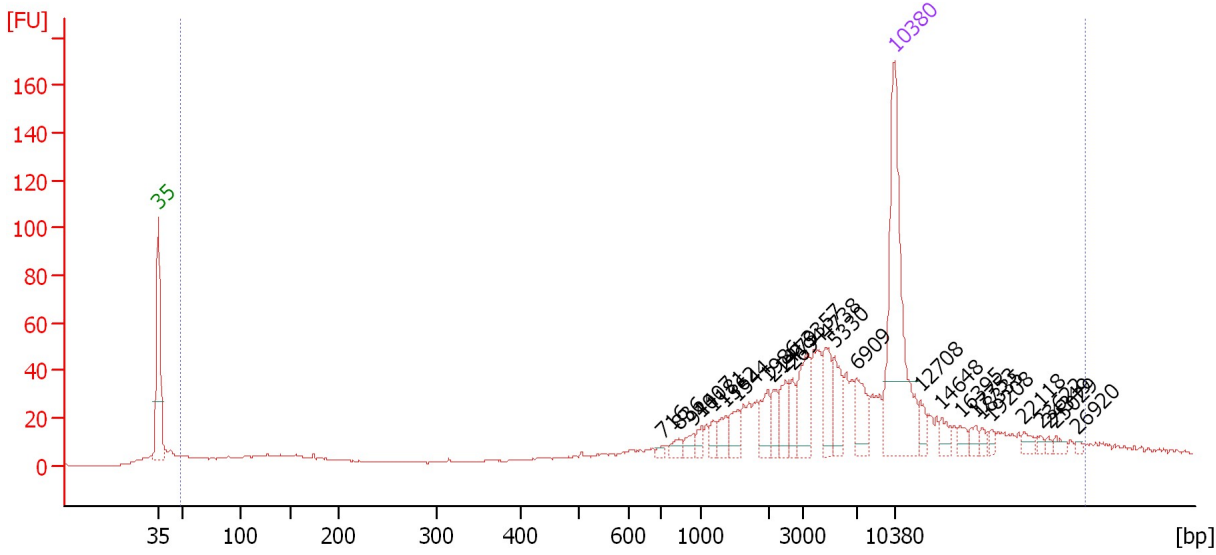
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
174	333	1,000	920.4	5,493.7	98	27.2	1,108.94

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
 Modified: 7/14/2015 3:32:20 PM

**Electropherogram Summary Continued ...**

SW15-24 (1:10)



**Overall Results for sample 7 : SW15-24 (1:10)**

Number of peaks found: 26                      Corr. Area 1: 768.7  
 Noise: 0.3

**Peak table for sample 7 : SW15-24 (1:10)**

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	716	2.38	5.0		91.00
3	836	4.92	8.9		92.52
4	944	4.59	7.4		93.89
5	1,007	4.35	6.5		94.65
6	1,181	4.64	6.0		95.77
7	1,362	7.47	8.3		96.93
8	1,544	8.98	8.8		98.10
9	1,986	11.22	8.6		100.94
10	2,141	7.85	5.6		101.49
11	2,479	10.83	6.6		102.61
12	2,694	7.65	4.3		103.32
13	3,357	19.99	9.0		104.79
14	4,738	15.31	4.9		106.56
15	5,330	14.69	4.2		107.32
16	6,909	15.48	3.4		109.35
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,708	0.00	0.0		115.43
19	14,648	0.00	0.0		117.46
20	16,395	0.00	0.0		119.29
21	17,753	0.00	0.0		120.70
22	18,335	0.00	0.0		121.31
23	19,208	0.00	0.0		122.23
24	22,118	0.00	0.0		125.27
25	23,622	0.00	0.0		126.84

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad


Created: 7/14/2015 2:53:52 PM  
 Modified: 7/14/2015 3:32:20 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 7 : SW15-24 (1:10)

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	24,349	0.00	0.0		127.60
27	25,029	0.00	0.0		128.31
28	26,920	0.00	0.0		130.28

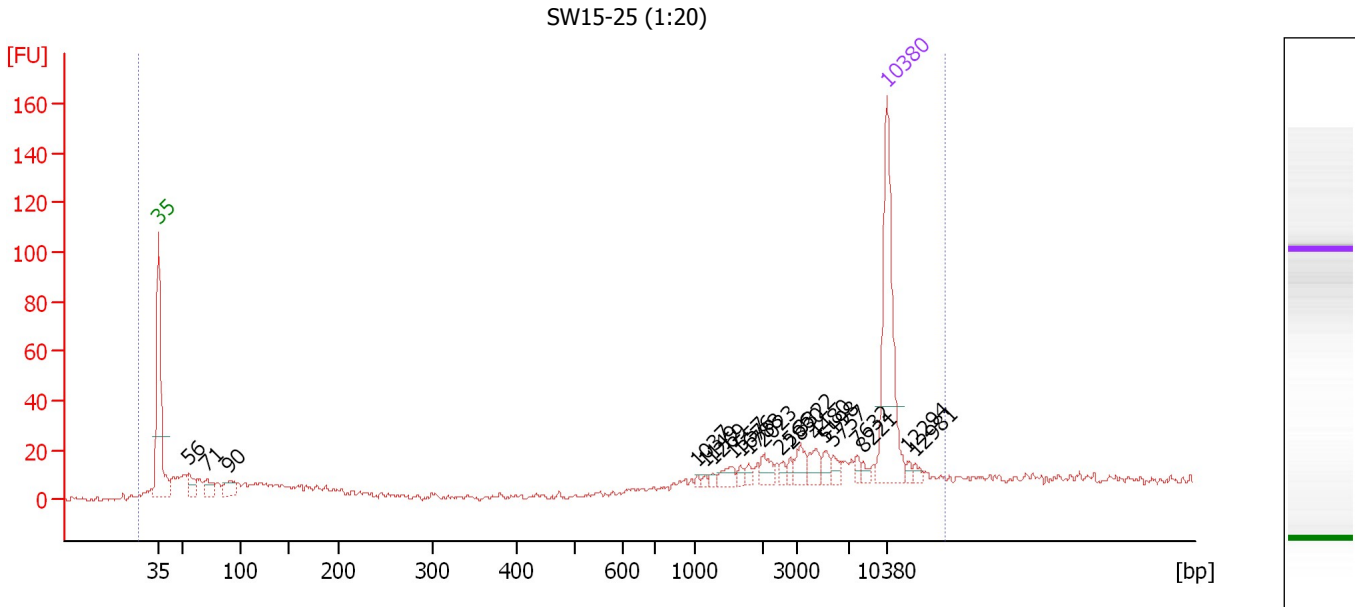
#### Region table for sample 7 : SW15-24 (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]
49	7,460	27,666	768.7	1,082.4	 94	82.9	319.57

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : SW15-25 (1:20)**

Number of peaks found: 20                      Corr. Area 1: 369.6  
 Noise: 1.0

**Peak table for sample 8 : SW15-25 (1:20)**


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	56	16.40	446.5		45.92
3	71	13.55	287.7		47.67
4	90	16.13	270.5		49.77
5	1,037	1.61	2.4		94.85
6	1,149	1.57	2.1		95.56
7	1,269	2.22	2.7		96.33
8	1,557	7.15	7.0		98.18
9	1,676	3.03	2.7		98.95
10	1,788	3.22	2.7		99.67
11	2,023	7.52	5.6		101.10
12	2,566	3.25	1.9		102.90
13	2,830	3.42	1.8		103.77
14	3,322	8.80	4.0		104.74
15	4,480	8.48	2.9		106.23
16	5,198	5.38	1.6		107.15
17	5,757	4.77	1.3		107.87
18	7,632	3.39	0.7		110.13
19	8,221	2.81	0.5		110.74
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,294	0.00	0.0		115.00
22	12,981	0.00	0.0		115.72

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
Modified: 7/14/2015 3:32:20 PM

**Electropherogram Summary Continued ...**

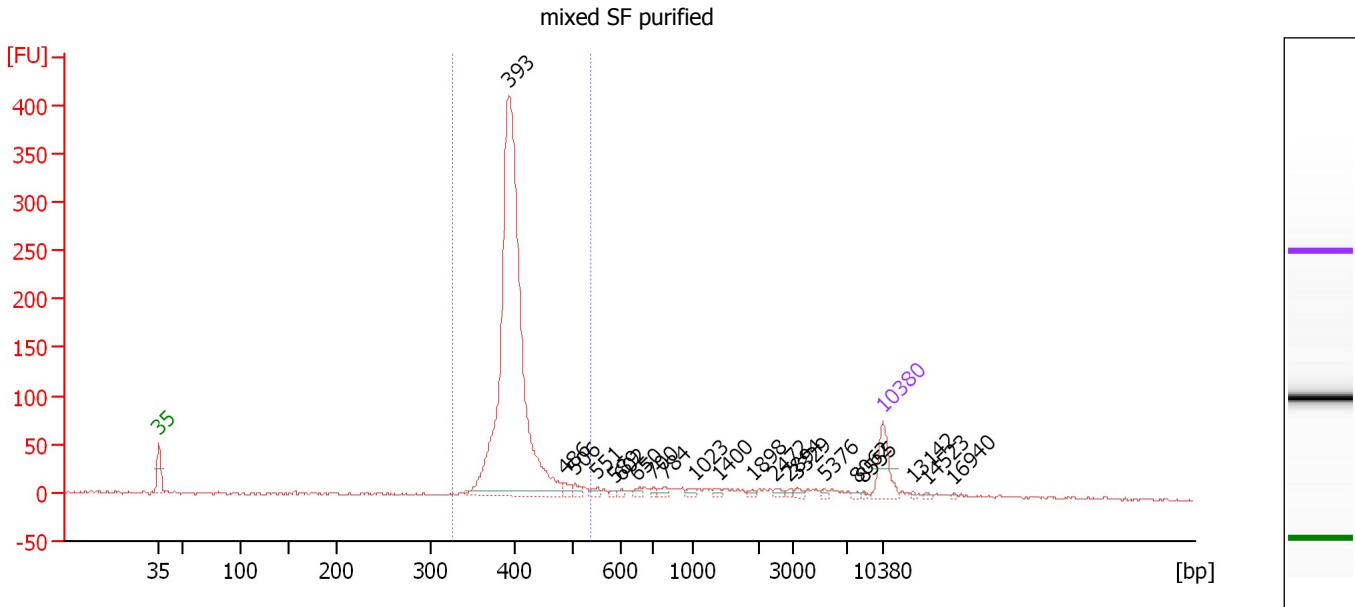
... Region table for sample 8 : SW15-25 (1:20)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
22	5,393	15,711	369.6	3,803.5	 90	87.5	285.22

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
 Modified: 7/14/2015 3:32:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : mixed SF purified**

Number of peaks found: 21                      Corr. Area 1: 1,263.0  
 Noise: 1.0

**Peak table for sample 9 : mixed SF purified**

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	393	1,565.47	6,030.8		76.87
3	486	19.03	59.3		82.28
4	506	14.06	42.1		83.31
5	551	11.95	32.8		85.42
6	589	5.76	14.8		87.18
7	602	6.59	16.6		87.74
8	650	8.72	20.3		89.24
9	700	7.65	16.6		90.78
10	784	12.84	24.8		91.87
11	1,023	10.57	15.7		94.75
12	1,400	7.31	7.9		97.18
13	1,898	6.02	4.8		100.37
14	2,472	8.91	5.5		102.59
15	2,894	6.61	3.5		103.98
16	3,329	7.86	3.6		104.75
17	5,376	5.88	1.7		107.38
18	8,062	4.36	0.8		110.58
19	8,555	3.71	0.7		111.09
20	10,380	75.00	10.9	Upper Marker	113.00
21	13,142	0.00	0.0		115.89
22	14,523	0.00	0.0		117.33
23	16,940	0.00	0.0		119.86




Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
Modified: 7/14/2015 3:32:20 PM

**Electropherogram Summary Continued ...**

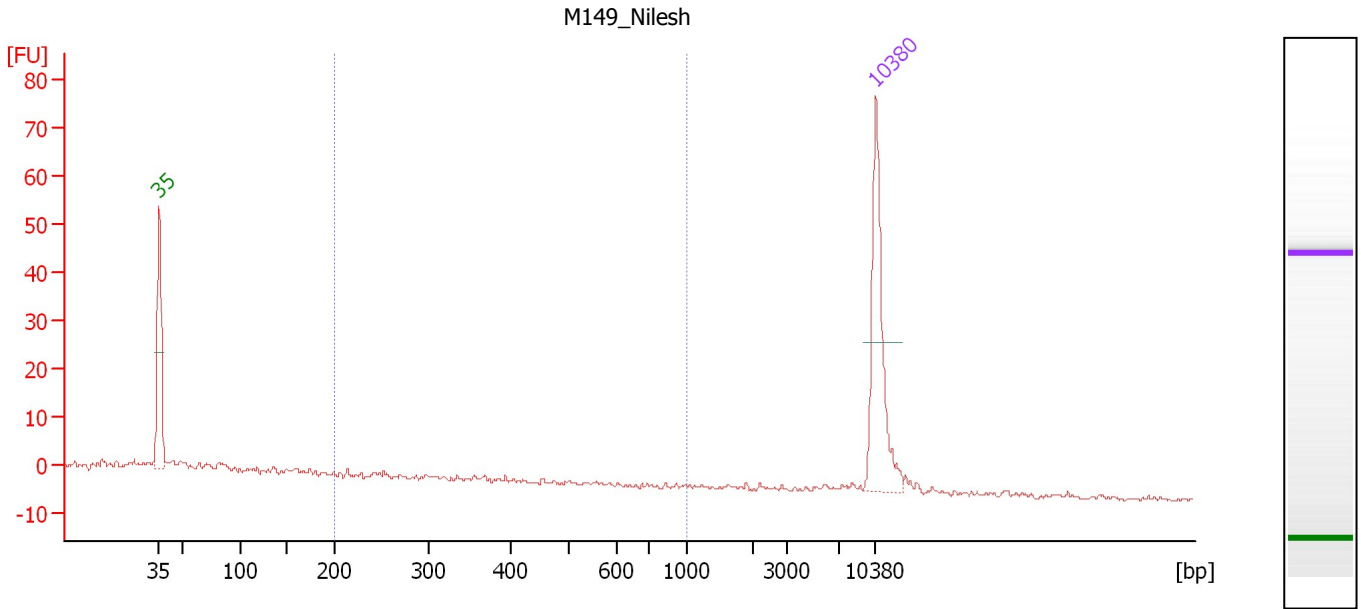
... Region table for sample 9 : mixed SF purified

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]
326	402	538	1,263.0	6,070.3	 81	6.8	1,605.46

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
 Modified: 7/14/2015 3:32:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : M149 Nilesh**

Number of peaks found: 0                      Corr. Area 1: 0.5  
 Noise: 0.5

**Peak table for sample 10 : M149 Nilesh**

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

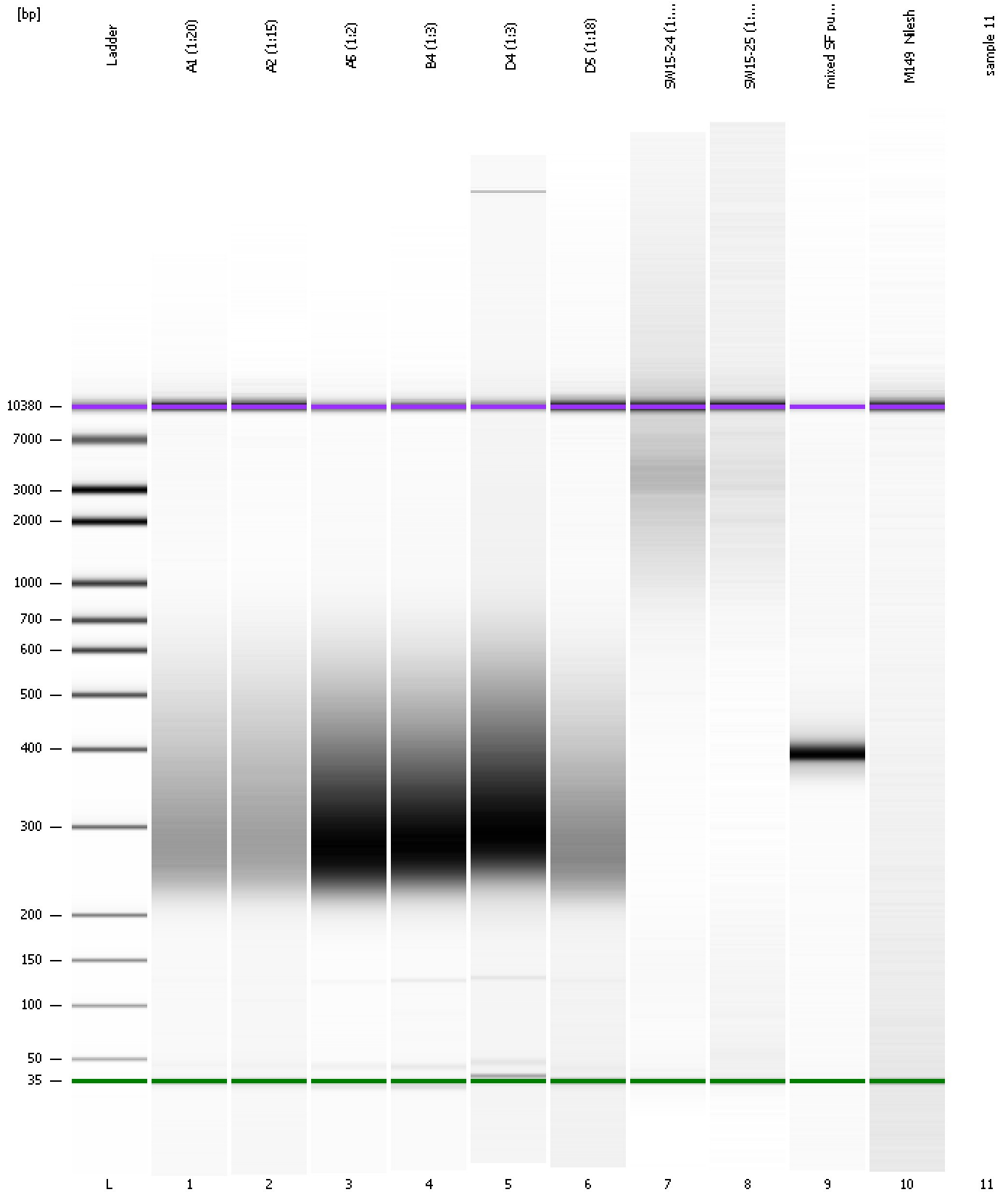
**Region table for sample 10 : M149 Nilesh**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	291	1,000	0.5	4.0	3	29.8	0.70

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
Modified: 7/14/2015 3:32:20 PM

**Gel Image**



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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-14\2015-07-14\_002.xad

Created: 7/14/2015 2:53:52 PM  
Modified: 7/14/2015 3:32:20 PM

**Invalid Samples**

Sample 11 has not been run, no results available.