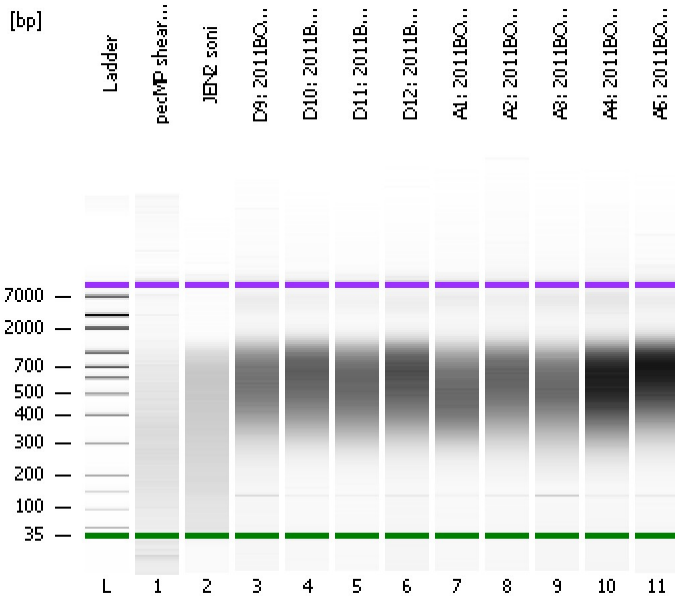


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
Modified: 6/18/2015 11:39:56 AM

### Electrophoresis File Run Summary



#### Instrument Information:

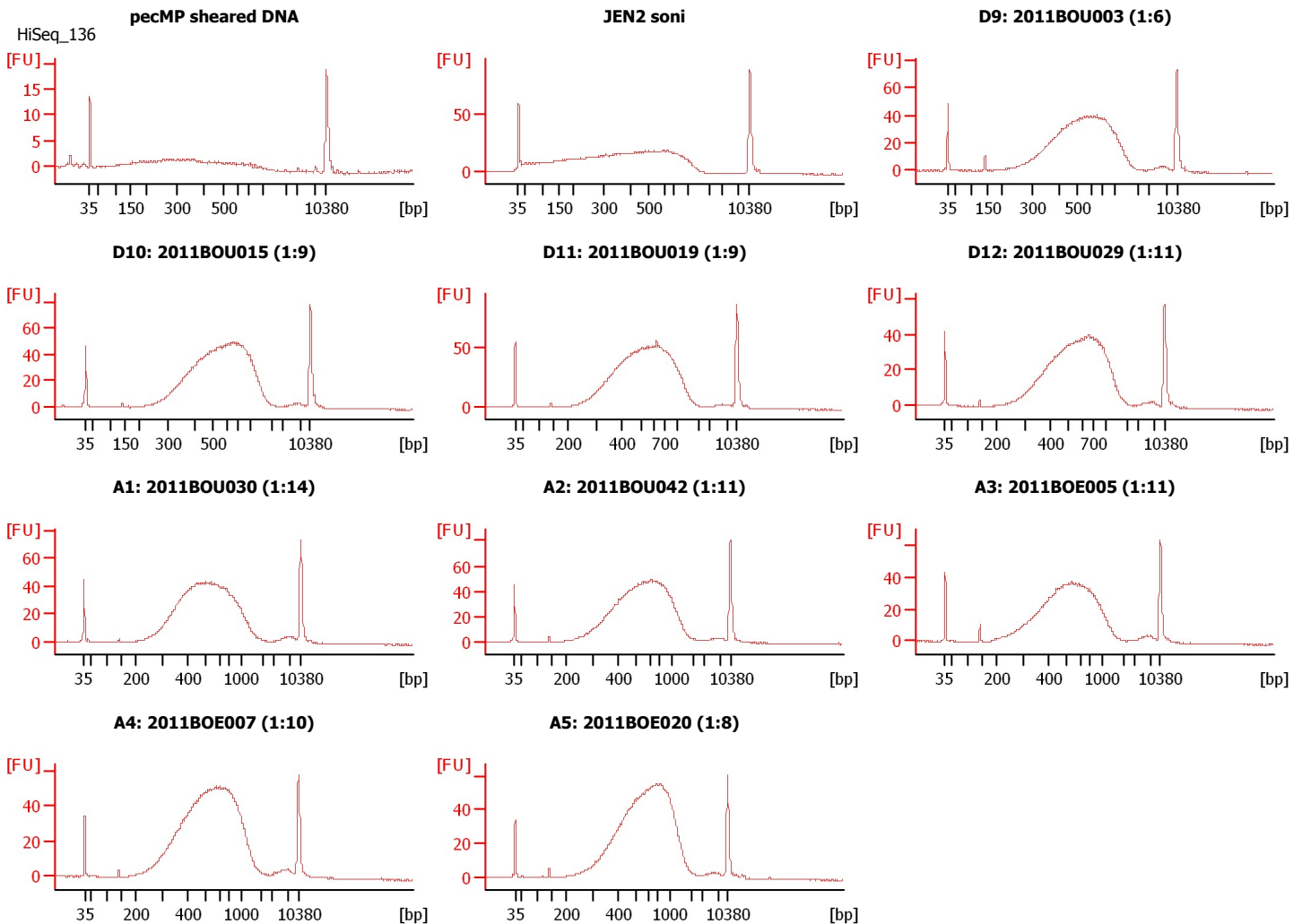
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
 Modified: 6/18/2015 11:39:56 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
pecMP sheared DNA	HiSeq_136	<input type="checkbox"/>	✓			
JEN2 soni		<input type="checkbox"/>	✓			
D9: 2011BOU003 (1:6)		<input type="checkbox"/>	✓			
D10: 2011BOU015 (1:9)		<input type="checkbox"/>	✓			
D11: 2011BOU019 (1:9)		<input type="checkbox"/>	✓			
D12: 2011BOU029 (1:11)		<input type="checkbox"/>	✓			
A1: 2011BOU030 (1:14)		<input type="checkbox"/>	✓			
A2: 2011BOU042 (1:11)		<input type="checkbox"/>	✓			
A3: 2011BOE005 (1:11)		<input type="checkbox"/>	✓			
A4: 2011BOE007 (1:10)		<input type="checkbox"/>	✓			
A5: 2011BOE020 (1:8)		<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\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
Modified: 6/18/2015 11:39:56 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

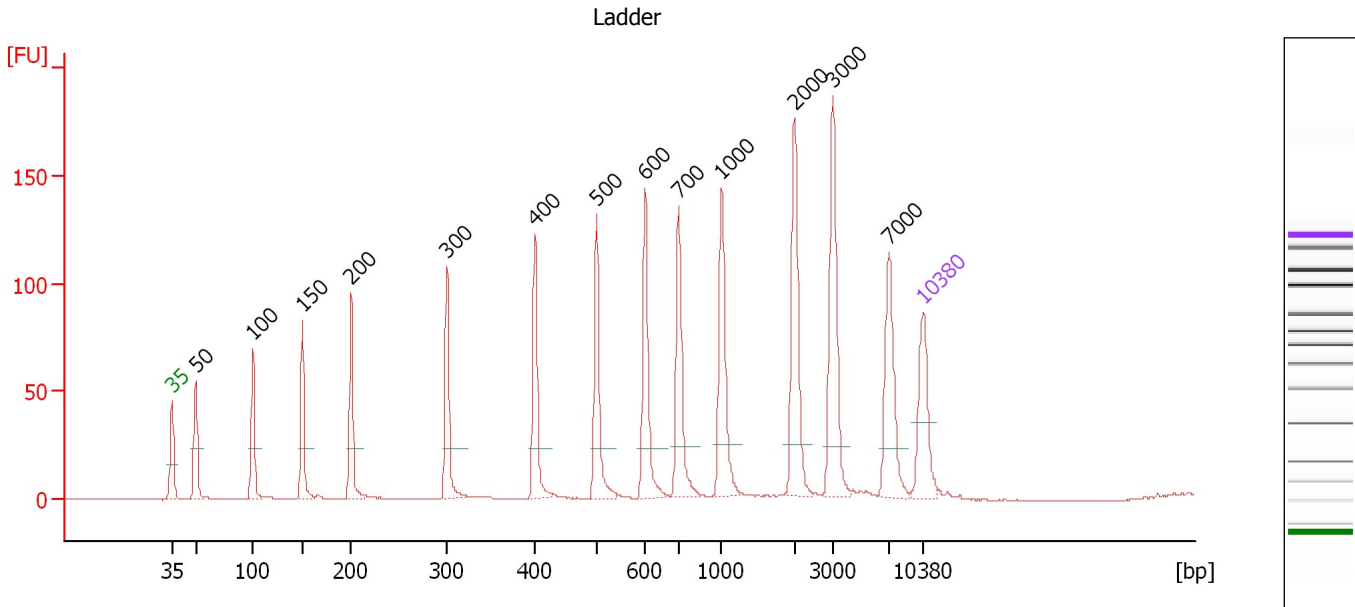
**Ladder**

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\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
 Modified: 6/18/2015 11:39:56 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

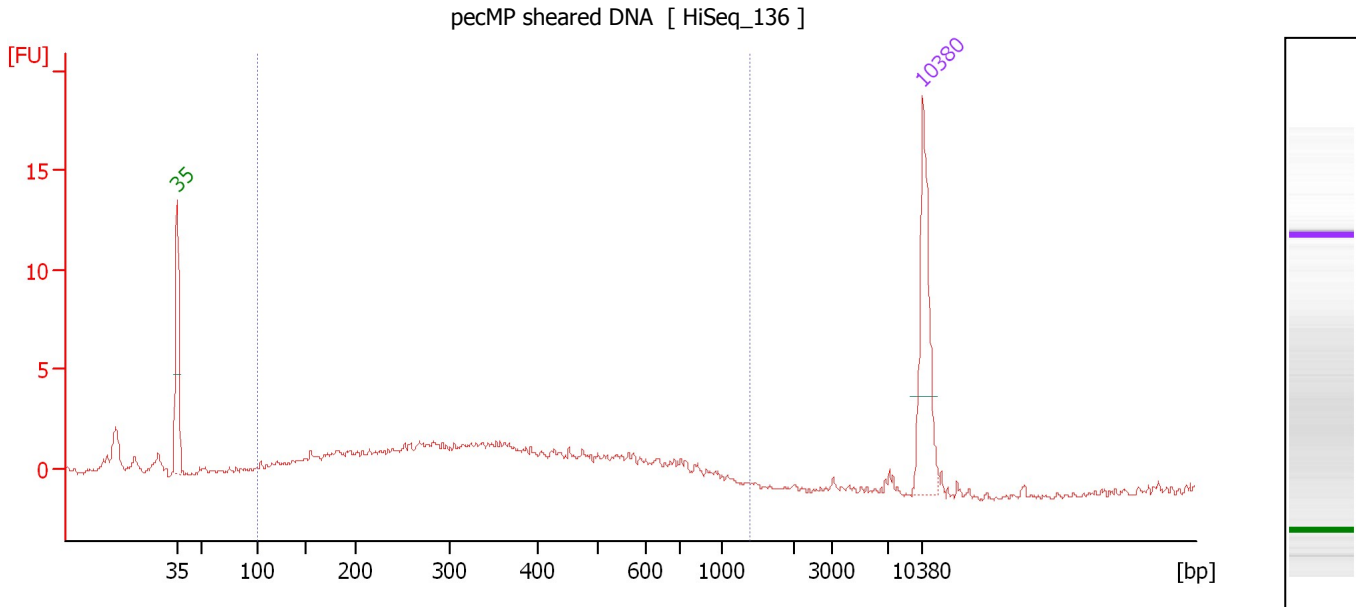
**Peak table for Ladder**

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	45.19
3	100	150.00	2,272.7	Ladder Peak	50.50
4	150	150.00	1,515.2	Ladder Peak	55.12
5	200	150.00	1,136.4	Ladder Peak	59.69
6	300	150.00	757.6	Ladder Peak	68.64
7	400	150.00	568.2	Ladder Peak	76.83
8	500	150.00	454.5	Ladder Peak	82.55
9	600	150.00	378.8	Ladder Peak	87.07
10	700	150.00	324.7	Ladder Peak	90.20
11	1,000	150.00	227.3	Ladder Peak	94.22
12	2,000	150.00	113.6	Ladder Peak	100.98
13	3,000	150.00	75.8	Ladder Peak	104.55
14	7,000	150.00	32.5	Ladder Peak	109.77
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
 Modified: 6/18/2015 11:39:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : pecMP sheared DNA**

Number of peaks found: 0                      Corr. Area 1: 69.6  
 Noise: 0.1

**Peak table for sample 1 : pecMP sheared DNA**

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

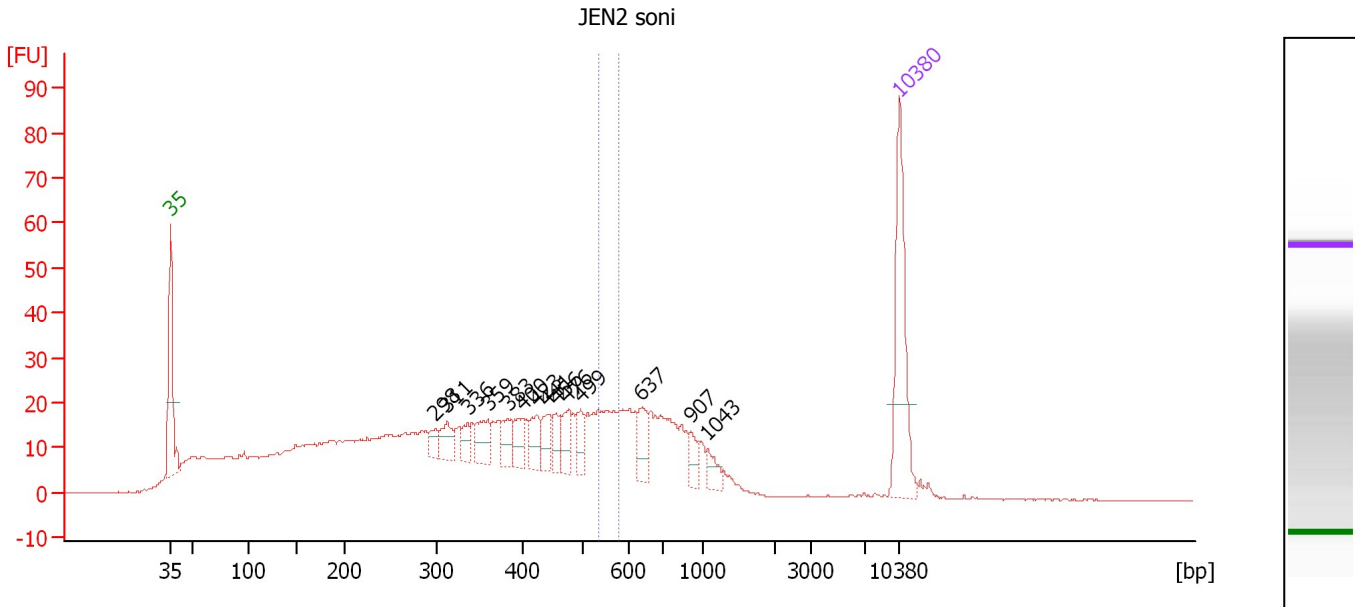
**Region table for sample 1 : pecMP sheared DNA**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
101	377	1,373	69.6	2,588.0	87	47.1	461.80

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
 Modified: 6/18/2015 11:39:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : JEN2 soni**

Number of peaks found: 14                      Corr. Area 1: 44.3  
 Noise: 0.1

**Peak table for sample 2 : JEN2 soni**

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	298	12.19	62.0		68.45
3	311	21.31	103.7		69.58
4	336	12.88	58.1		71.57
5	359	25.53	107.8		73.47
6	383	19.43	76.9		75.41
7	400	20.61	78.0		76.85
8	423	20.86	74.8		78.13
9	441	19.49	66.9		79.20
10	456	14.71	48.9		80.02
11	476	20.85	66.4		81.15
12	499	17.94	54.5		82.48
13	637	22.33	53.1		88.22
14	907	12.02	20.1		92.98
15	1,043	12.44	18.1		94.51
16	10,380	75.00	10.9	Upper Marker	113.00

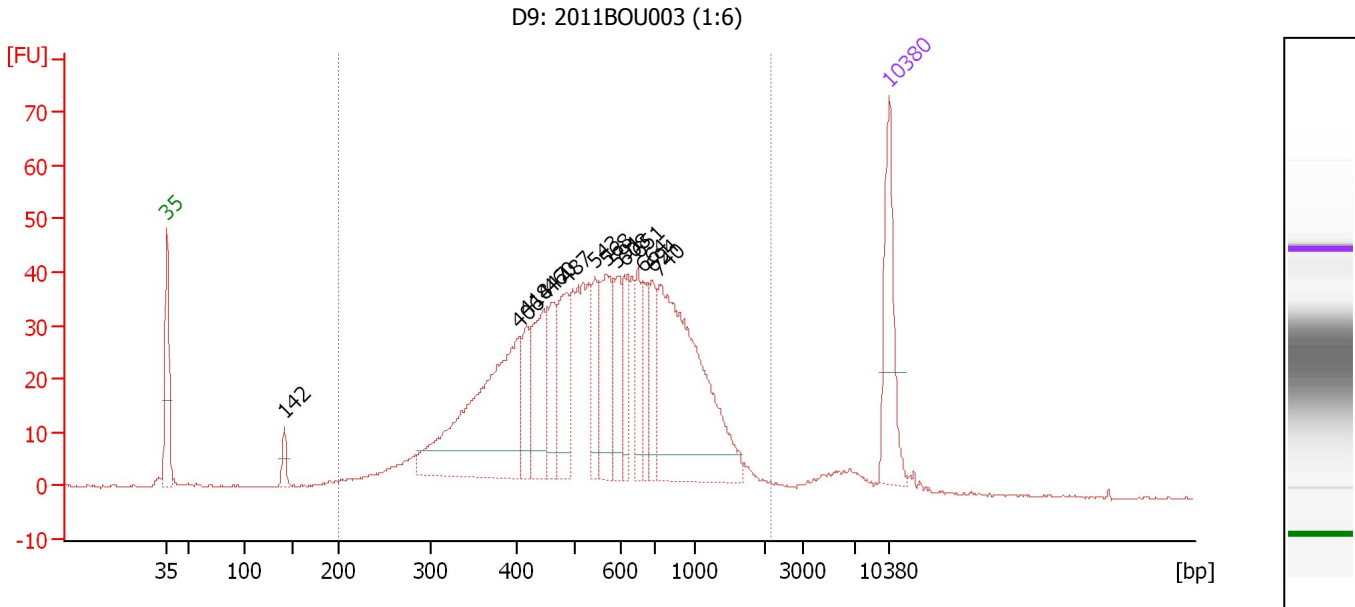
**Region table for sample 2 : JEN2 soni**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
534	555	578	44.3	148.7	4	2.4	54.42

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
 Modified: 6/18/2015 11:39:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : D9: 2011BOU003 (1:6)**

Number of peaks found: 14                      Corr. Area 1: 1,073.9  
 Noise: 0.2

**Peak table for sample 3 : D9: 2011BOU003 (1:6)**

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	142	19.13	204.4		54.37
3	406	284.74	1,063.9		77.15
4	418	45.69	165.6		77.87
5	447	96.89	328.3		79.52
6	460	58.76	193.6		80.25
7	487	80.33	250.0		81.80
8	543	47.35	132.2		84.48
9	568	86.12	229.7		85.62
10	591	51.52	132.1		86.65
11	608	44.75	111.5		87.32
12	651	41.83	97.3		88.67
13	664	40.73	92.9		89.08
14	694	40.62	88.7		90.01
15	740	294.27	602.5		90.73
16	10,380	75.00	10.9	Upper Marker	113.00

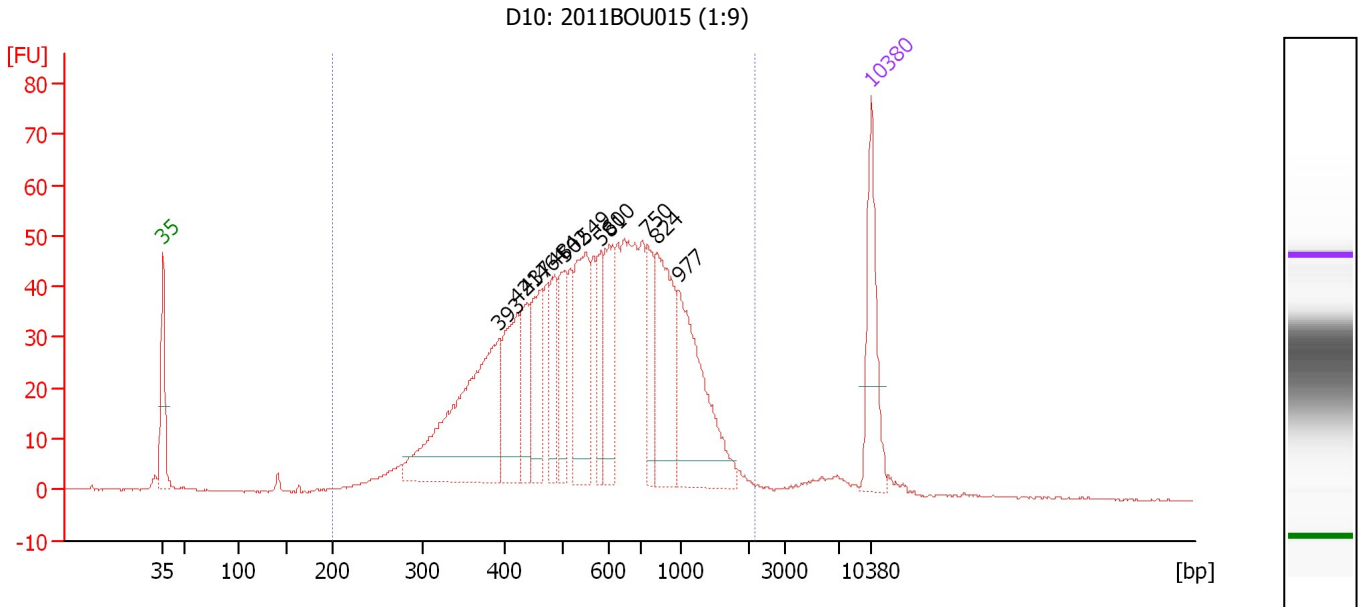
**Region table for sample 3 : D9: 2011BOU003 (1:6)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	618	2,149	1,073.9	5,000.3	94	47.1	1,621.38

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
 Modified: 6/18/2015 11:39:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : D10: 2011BOU015 (1:9)**

Number of peaks found: 12                      Corr. Area 1: 1,281.0  
 Noise: 0.2

**Peak table for sample 4 : D10: 2011BOU015 (1:9)**

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	393	281.09	1,083.6		76.26
3	421	104.71	376.5		78.05
4	437	64.57	223.9		78.95
5	464	81.46	266.1		80.48
6	484	60.97	190.8		81.64
7	502	61.91	186.9		82.64
8	549	123.15	340.1		84.75
9	581	48.78	127.1		86.22
10	600	86.43	218.3		87.07
11	750	55.19	111.6		90.86
12	824	132.68	243.9		91.86
13	977	154.13	238.9		93.92
14	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : D10: 2011BOU015 (1:9)**

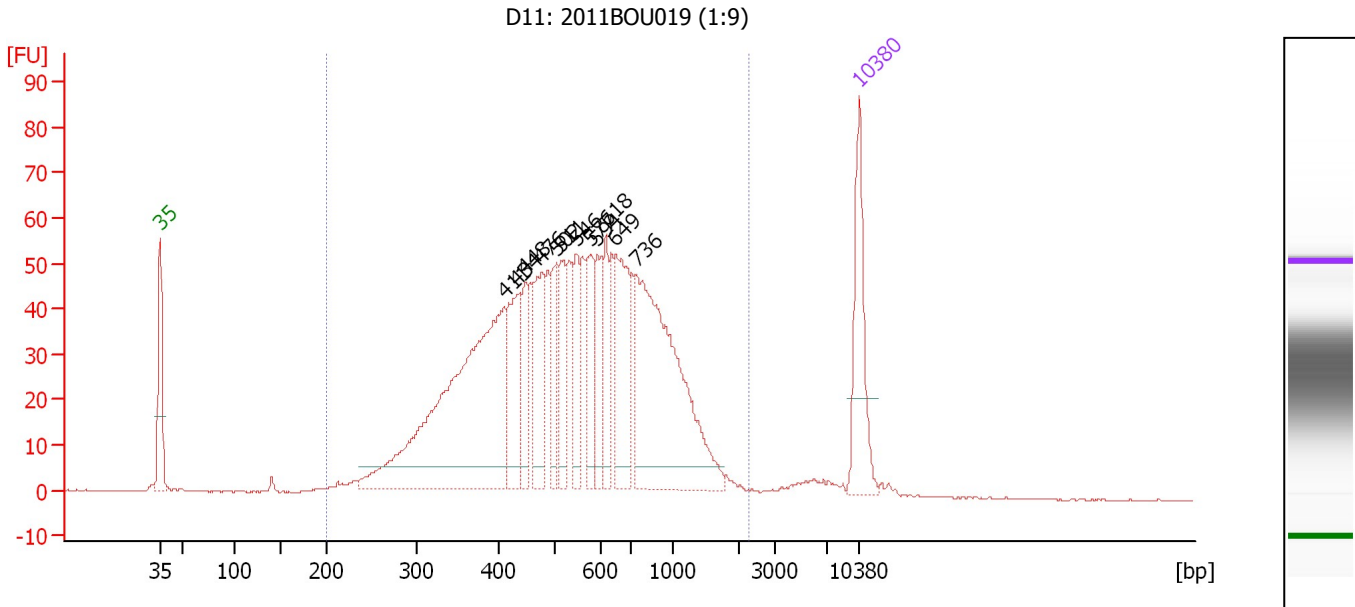
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	642	2,143	1,281.0	5,401.1	96	47.2	1,817.88



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
 Modified: 6/18/2015 11:39:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : D11: 2011BOU019 (1:9)**

Number of peaks found: 12                      Corr. Area 1: 1,423.9  
 Noise: 0.1

**Peak table for sample 5 : D11: 2011BOU019 (1:9)**

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	411	443.00	1,634.6		77.44
3	434	88.87	310.3		78.77
4	448	52.48	177.5		79.58
5	476	84.47	268.9		81.18
6	502	51.46	155.5		82.62
7	511	59.72	177.1		83.05
8	546	49.66	137.7		84.65
9	577	59.11	155.2		86.04
10	594	54.15	138.2		86.78
11	618	47.98	117.6		87.64
12	649	101.73	237.5		88.60
13	736	304.15	626.0		90.68
14	10,380	75.00	10.9	Upper Marker	113.00

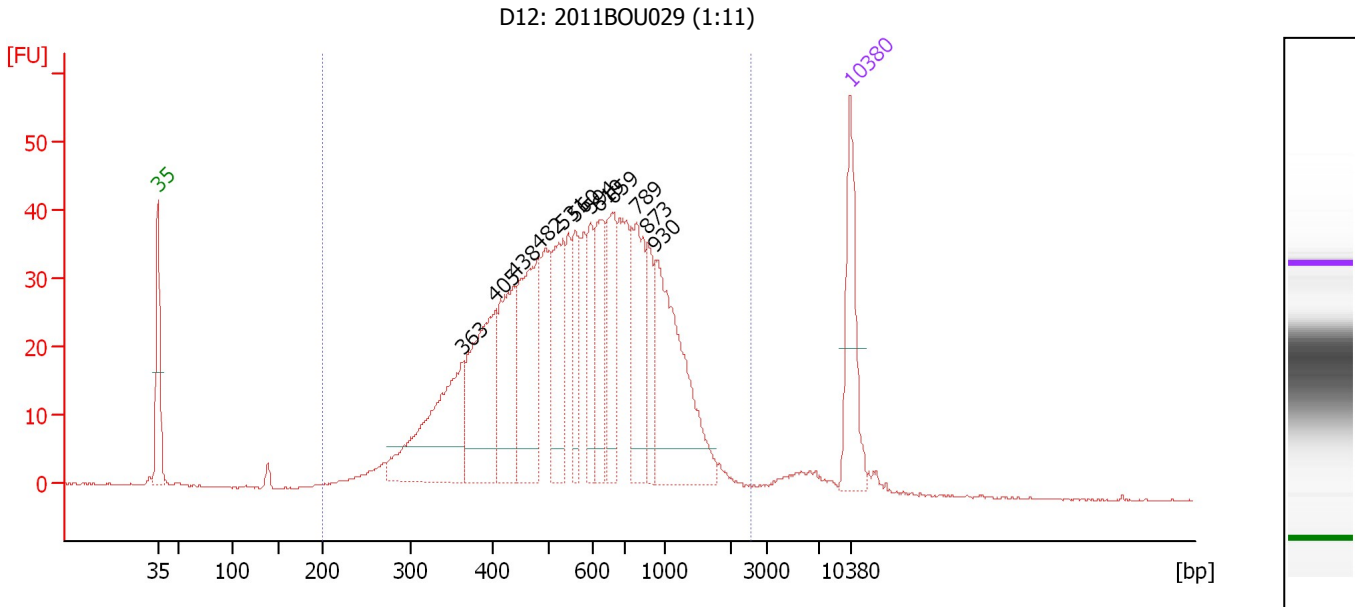
**Region table for sample 5 : D11: 2011BOU019 (1:9)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	602	2,261	1,423.9	5,509.6	97	46.7	1,758.05

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
 Modified: 6/18/2015 11:39:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : D12: 2011BOU029 (1:11)**

Number of peaks found: 12                      Corr. Area 1: 1,014.9  
 Noise: 0.1

**Peak table for sample 6 : D12: 2011BOU029 (1:11)**

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	363	188.94	788.0		73.82
3	405	164.41	615.3		77.11
4	438	118.51	410.1		79.00
5	482	162.69	511.2		81.53
6	531	113.90	324.9		83.95
7	560	55.31	149.7		85.25
8	594	54.17	138.1		86.81
9	619	82.46	201.7		87.67
10	659	80.54	185.2		88.91
11	789	108.25	207.9		91.39
12	873	47.81	82.9		92.52
13	930	186.33	303.7		93.28
14	10,380	75.00	10.9	Upper Marker	113.00

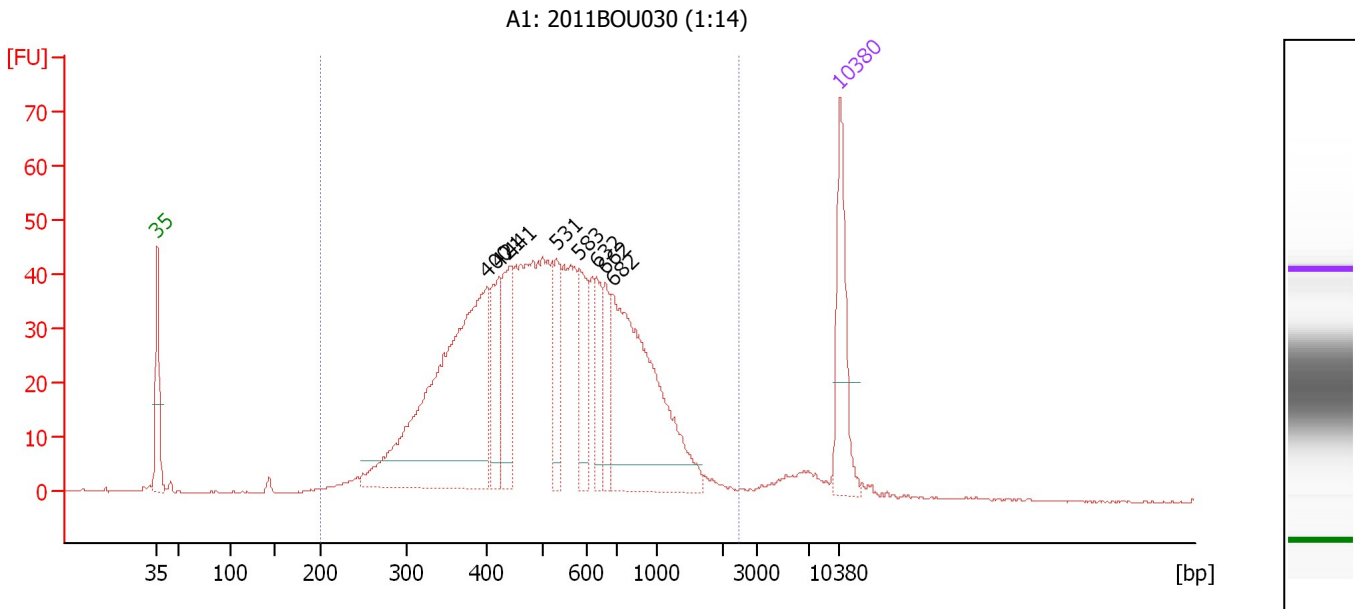
**Region table for sample 6 : D12: 2011BOU029 (1:11)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	644	2,543	1,014.9	5,344.8	97	48.1	1,802.12

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
 Modified: 6/18/2015 11:39:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : A1: 2011BOU030 (1:14)**

Number of peaks found: 8                      Corr. Area 1: 1,187.9  
 Noise: 0.1

**Peak table for sample 7 : A1: 2011BOU030 (1:14)**

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	400	453.09	1,714.8		76.85
3	421	74.30	267.2		78.05
4	441	90.06	309.1		79.20
5	531	62.12	177.1		83.96
6	583	64.68	168.0		86.31
7	632	42.21	101.2		88.06
8	662	41.01	93.9		88.99
9	682	296.35	657.9		89.65
10	10,380	75.00	10.9	Upper Marker	113.00

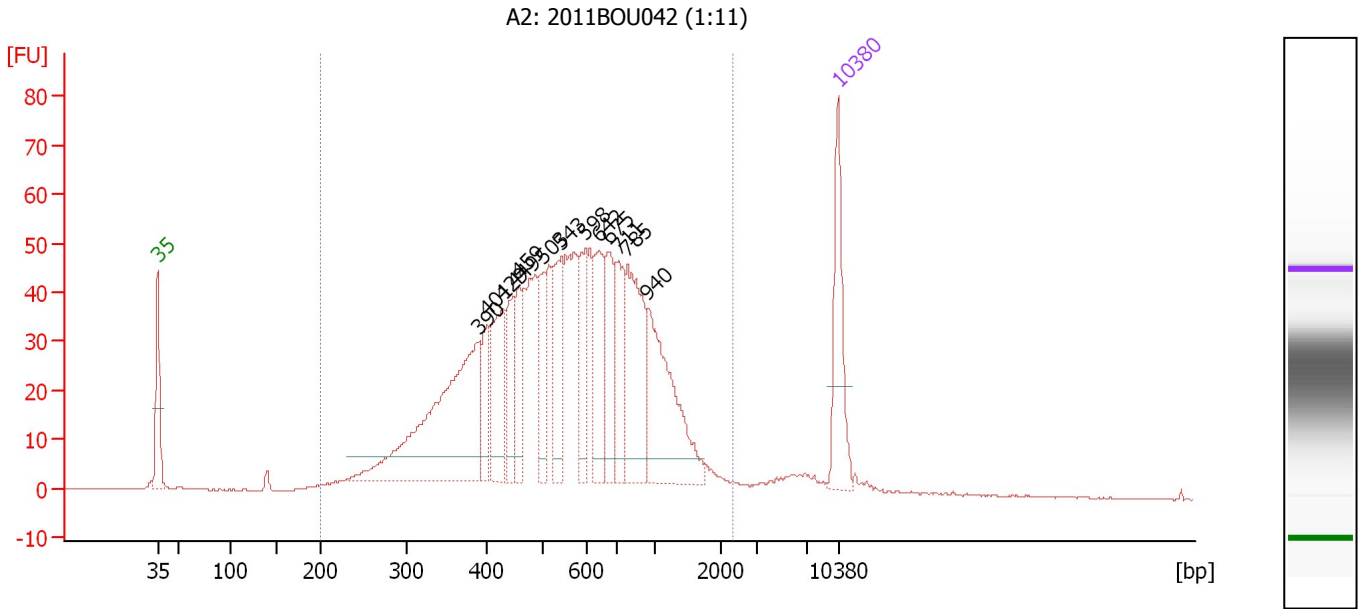
**Region table for sample 7 : A1: 2011BOU030 (1:14)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	575	2,466	1,187.9	5,652.3	96	48.1	1,742.19

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
 Modified: 6/18/2015 11:39:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : A2: 2011BOU042 (1:11)**

Number of peaks found: 13                      Corr. Area 1: 1,270.3  
 Noise: 0.1

**Peak table for sample 8 : A2: 2011BOU042 (1:11)**

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	390	321.17	1,247.3		76.03
3	401	52.75	199.2		76.90
4	429	99.95	353.0		78.49
5	449	65.37	220.5		79.65
6	459	52.42	173.1		80.19
7	503	59.69	180.0		82.66
8	543	84.79	236.8		84.47
9	598	61.29	155.2		87.00
10	642	85.70	202.4		88.37
11	675	72.91	163.7		89.41
12	711	69.80	148.8		90.34
13	785	134.79	260.3		91.33
14	940	155.73	251.0		93.42
15	10,380	75.00	10.9	Upper Marker	113.00

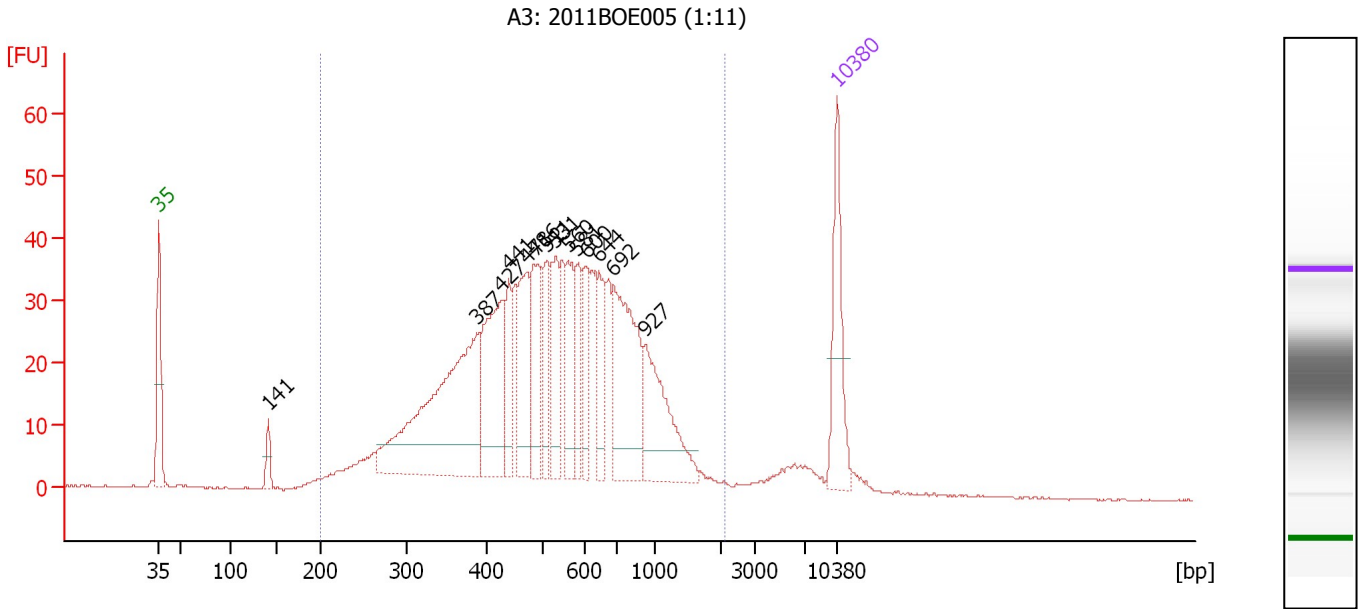
**Region table for sample 8 : A2: 2011BOU042 (1:11)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	624	2,332	1,270.3	5,818.2	96	48.3	1,902.65

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
 Modified: 6/18/2015 11:39:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : A3: 2011BOE005 (1:11)**

Number of peaks found: 14                      Corr. Area 1: 980.8  
 Noise: 0.2

**Peak table for sample 9 : A3: 2011BOE005 (1:11)**

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	141	23.27	250.2		54.28
3	387	327.65	1,281.5		75.80
4	427	160.67	569.9		78.39
5	441	50.78	174.6		79.16
6	471	94.01	302.1		80.92
7	486	89.15	278.0		81.74
8	511	59.06	175.0		83.06
9	531	66.32	189.3		83.94
10	560	66.55	180.0		85.26
11	581	49.17	128.3		86.20
12	600	51.08	128.9		87.08
13	644	59.54	140.0		88.46
14	692	171.85	376.4		89.94
15	927	113.24	185.1		93.24
16	10,380	75.00	10.9	Upper Marker	113.00

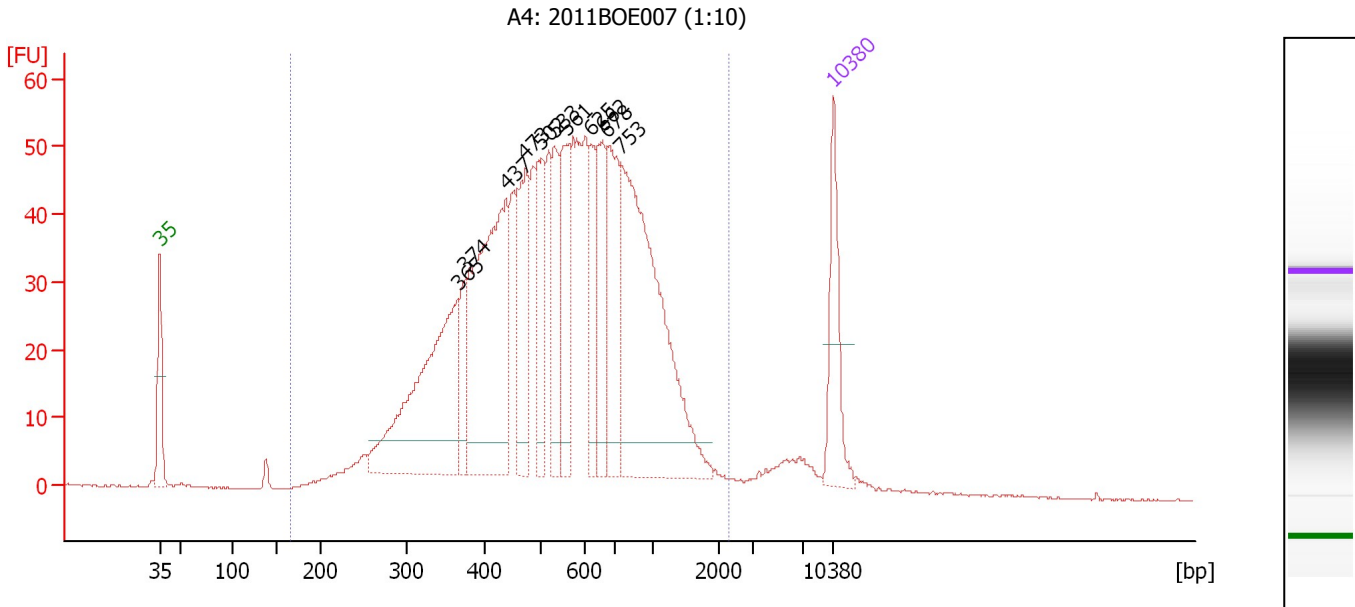
**Region table for sample 9 : A3: 2011BOE005 (1:11)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	579	2,125	980.8	5,990.5	95	46.2	1,840.54

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
 Modified: 6/18/2015 11:39:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : A4: 2011BOE007 (1:10)**

Number of peaks found: 11                      Corr. Area 1: 1,370.3  
 Noise: 0.1

**Peak table for sample 10 : A4: 2011BOE007 (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	365	332.55	1,380.7		73.96
3	374	51.90	210.1		74.73
4	437	370.81	1,285.9		78.94
5	473	130.24	417.4		80.99
6	502	106.07	319.9		82.65
7	533	93.29	265.2		84.04
8	561	102.04	275.5		85.31
9	625	70.10	169.9		87.86
10	662	97.96	224.1		89.02
11	678	132.56	296.1		89.52
12	753	429.16	863.9		90.90
13	10,380	75.00	10.9	Upper Marker	113.00

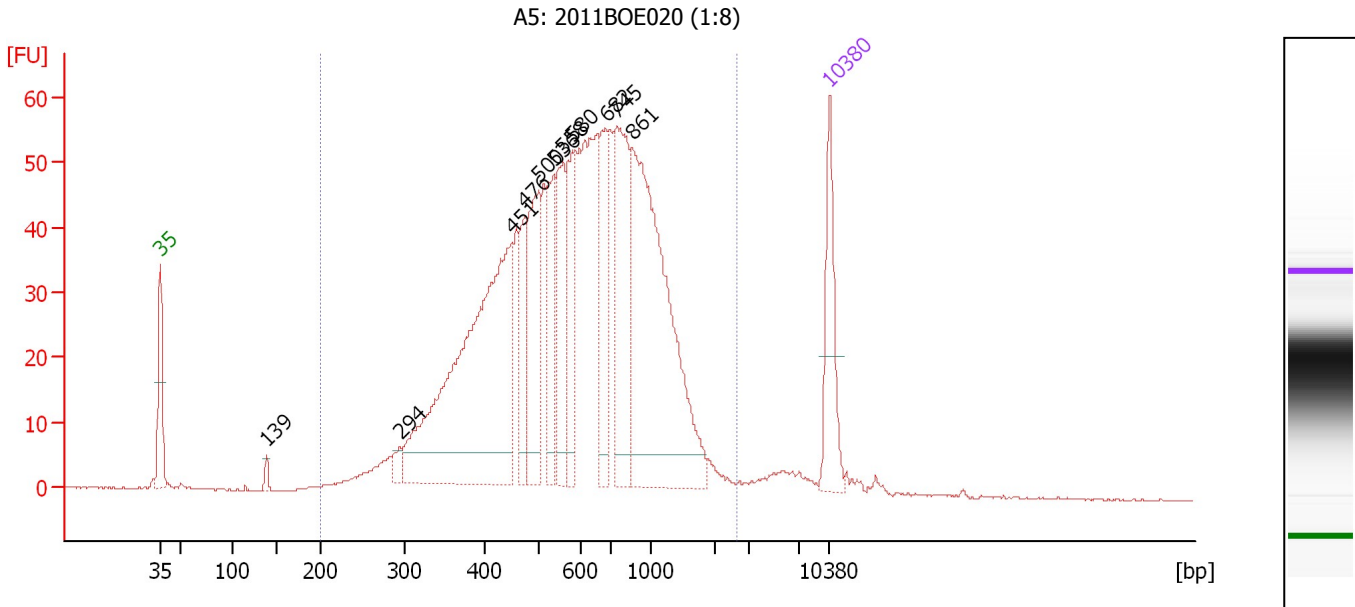
**Region table for sample 10 : A4: 2011BOE007 (1:10)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
167	610	2,312	1,370.3	8,154.4	97	47.8	2,608.73

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
 Modified: 6/18/2015 11:39:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : A5: 2011BOE020 (1:8)**

Number of peaks found: 11                      Corr. Area 1: 1,306.3  
 Noise: 0.1

**Peak table for sample 11 : A5: 2011BOE020 (1:8)**

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	139	9.66	105.3		54.10
3	294	15.85	81.7		68.10
4	451	549.33	1,844.7		79.76
5	476	73.44	234.0		81.15
6	500	138.60	420.0		82.55
7	536	90.83	256.9		84.16
8	558	108.66	295.0		85.17
9	580	103.15	269.4		86.17
10	682	109.47	243.2		89.63
11	745	176.44	358.8		90.80
12	861	419.88	738.5		92.36
13	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : A5: 2011BOE020 (1:8)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	678	2,646	1,306.3	6,880.6	97	48.9	2,424.82

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_001.xad

Created: 6/18/2015 10:28:32 AM  
Modified: 6/18/2015 11:39:56 AM

**Gel Image**

