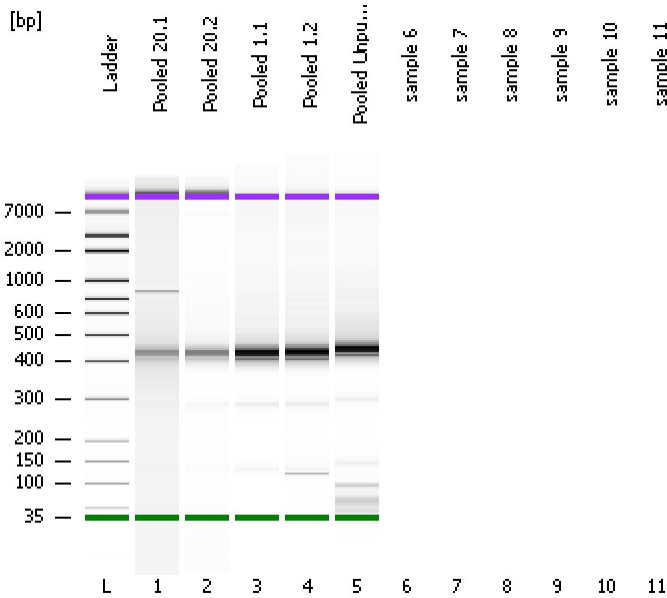


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10\_001.xad

Created: 5/10/2012 11:08:39 AM  
Modified: 5/10/2012 11:32:53 AM

**Electrophoresis File Run Summary**



Instrument Information:

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

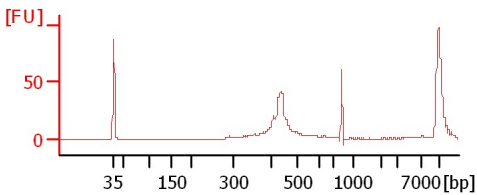
Assay Information:

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

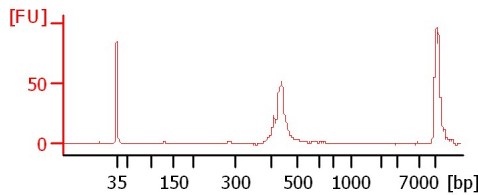
Chip Information:

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

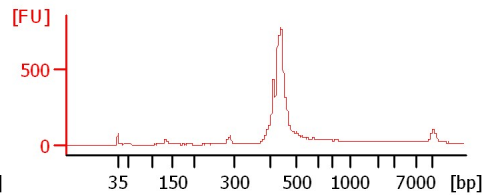
**Pooled 20.1**



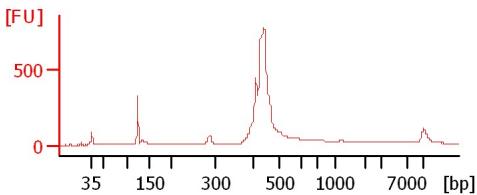
**Pooled 20.2**



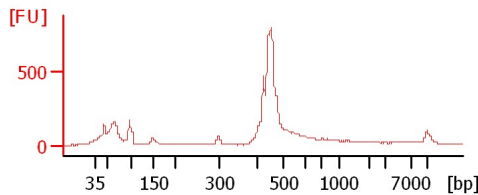
**Pooled 1.1**



**Pooled 1.2**



**Pooled Unpurified 1.1**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10\_001.xad

Created: 5/10/2012 11:08:39 AM  
 Modified: 5/10/2012 11:32:53 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Pooled 20.1		<input type="checkbox"/>	✓			
Pooled 20.2		<input type="checkbox"/>	✓			
Pooled 1.1		<input type="checkbox"/>	✓			
Pooled 1.2		<input type="checkbox"/>	✓			
Pooled Unpurified 1.1		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>				
sample 7		<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\2012-05-10\2012-05-10\_001.xad

Created: 5/10/2012 11:08:39 AM  
Modified: 5/10/2012 11:32:53 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] : 20  
Area Threshold : 0.1  
Width Threshold [s] : 0.6  
Baseline Plateau [s] : 0.5

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

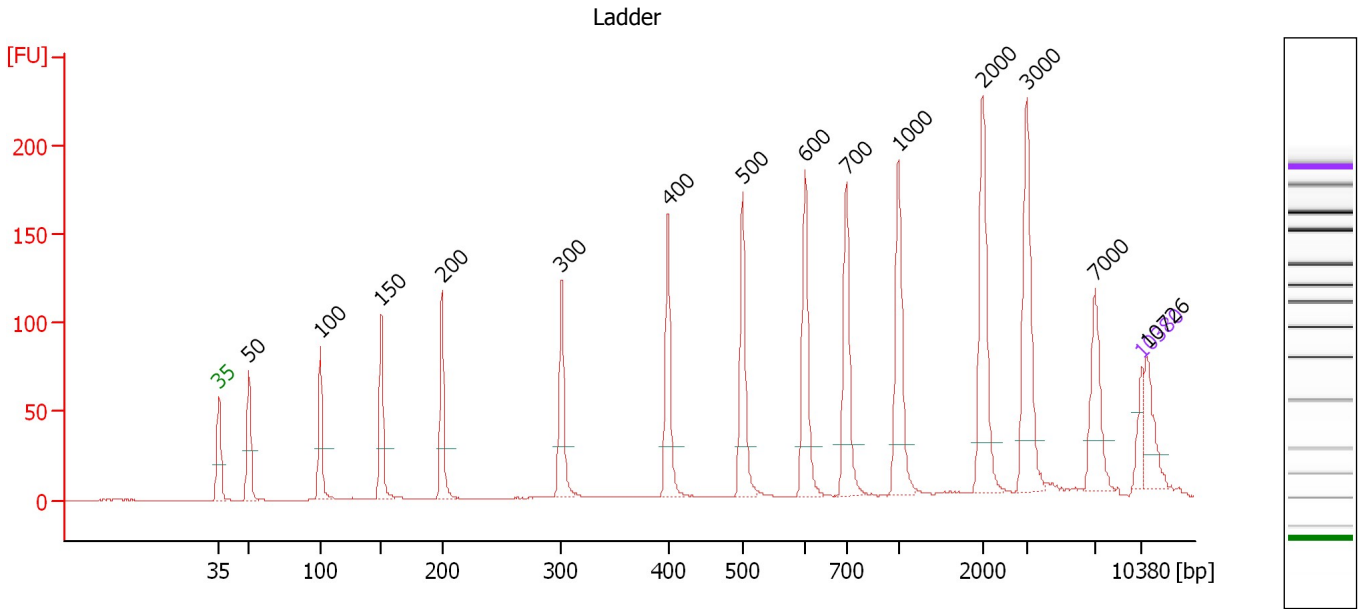
**Ladder**

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\2012-05-10\2012-05-10\_001.xad

Created: 5/10/2012 11:08:39 AM  
 Modified: 5/10/2012 11:32:53 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

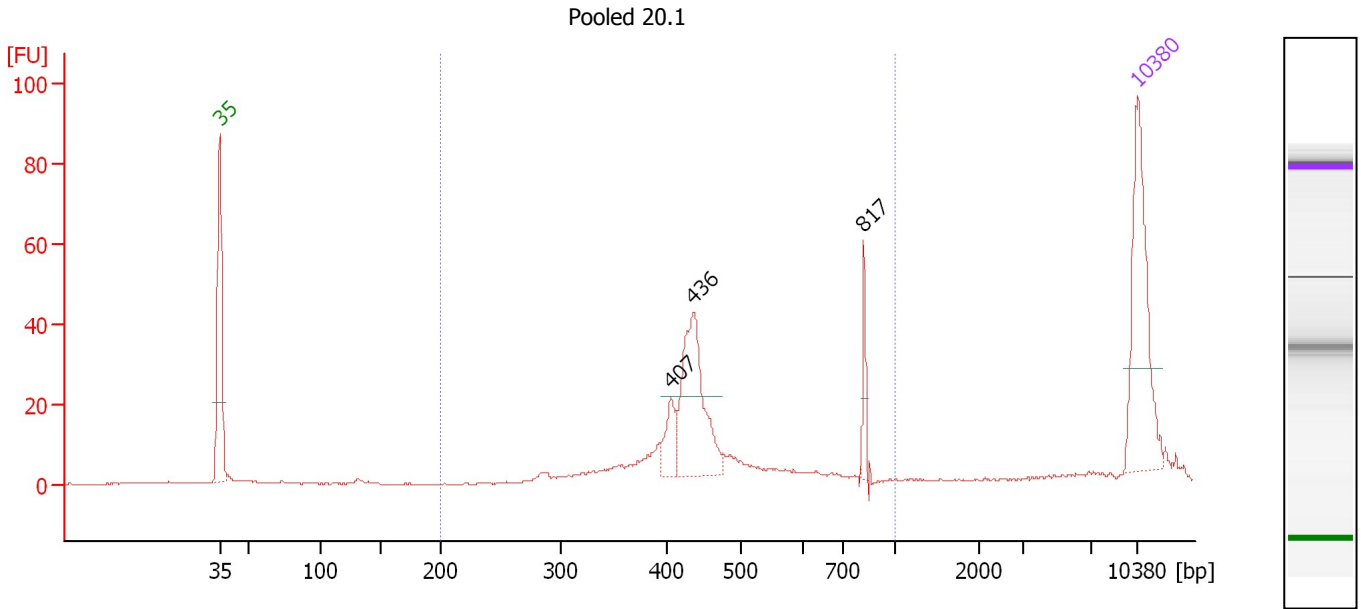
**Peak table for Ladder**

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
16	10,726	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10\_001.xad

Created: 5/10/2012 11:08:39 AM  
 Modified: 5/10/2012 11:32:53 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Pooled 20.1**

Number of peaks found: 3                      Corr. Area 1: 229.9  
 Noise: 0.2

**Peak table for sample 1 : Pooled 20.1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	407	22.97	85.6	
3	436	101.52	352.6	
4	817	16.89	31.3	
5	10,380	75.00	10.9	Upper Marker

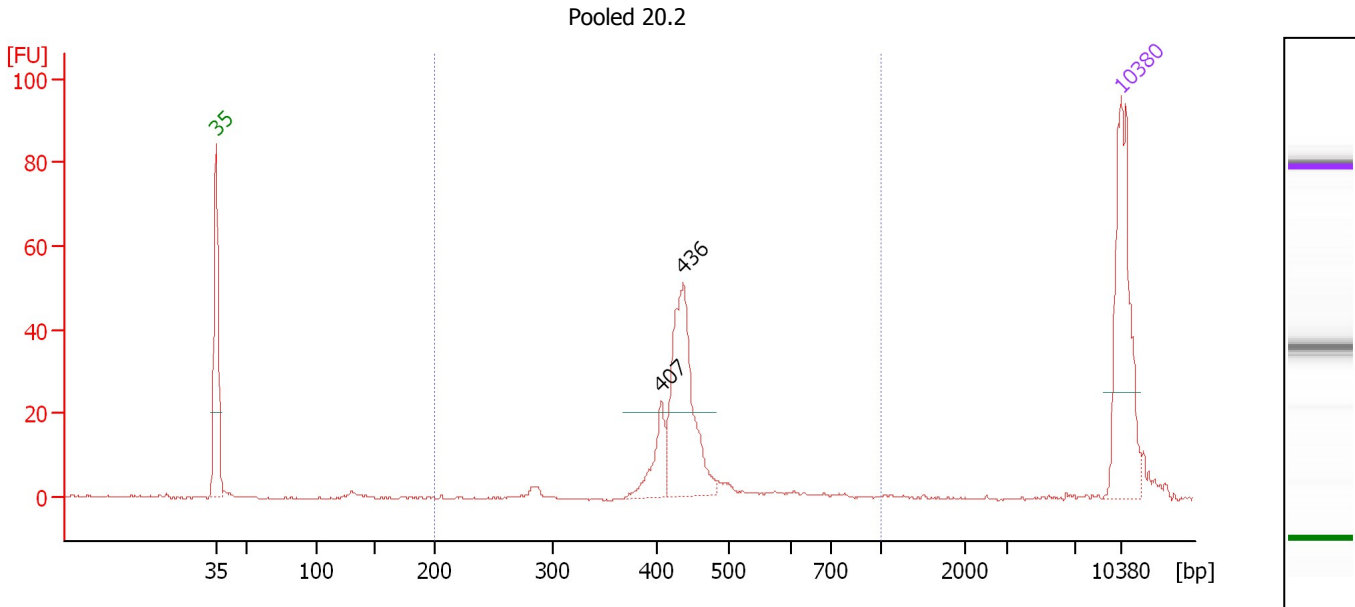
**Region table for sample 1 : Pooled 20.1**

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	751.6	476	218.88	1,000	229.9	93	27.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10\_001.xad

Created: 5/10/2012 11:08:39 AM  
 Modified: 5/10/2012 11:32:53 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Pooled 20.2**

Number of peaks found: 2                      Corr. Area 1: 185.1  
 Noise: 0.2

**Peak table for sample 2 : Pooled 20.2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	407	29.04	108.2	
3	436	114.93	399.0	
4	10,380	75.00	10.9	Upper Marker

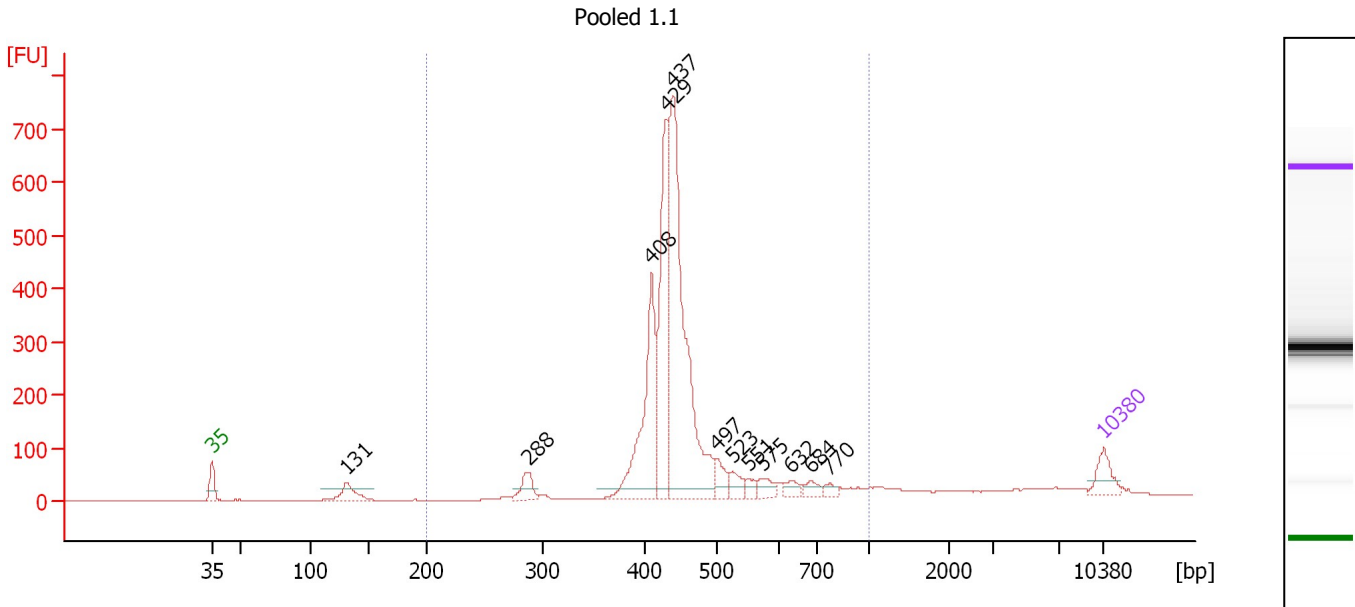
**Region table for sample 2 : Pooled 20.2**

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	583.1	444	166.91	1,000	185.1	91	14.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10\_001.xad

Created: 5/10/2012 11:08:39 AM  
 Modified: 5/10/2012 11:32:53 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Pooled 1.1**

Number of peaks found: 12      Corr. Area 1: 3,303.2  
 Noise: 0.2

**Peak table for sample 3 : Pooled 1.1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	131	119.69	1,383.4	
3	288	97.11	510.2	
4	408	636.62	2,364.7	
5	429	685.49	2,423.2	
6	437	1,419.58	4,916.4	
7	497	85.33	259.9	
8	523	64.74	187.4	
9	551	36.67	100.9	
10	575	56.66	149.4	
11	632	42.04	100.9	
12	684	43.07	95.4	
13	770	30.70	60.4	
14	10,380	75.00	10.9	Upper Marker

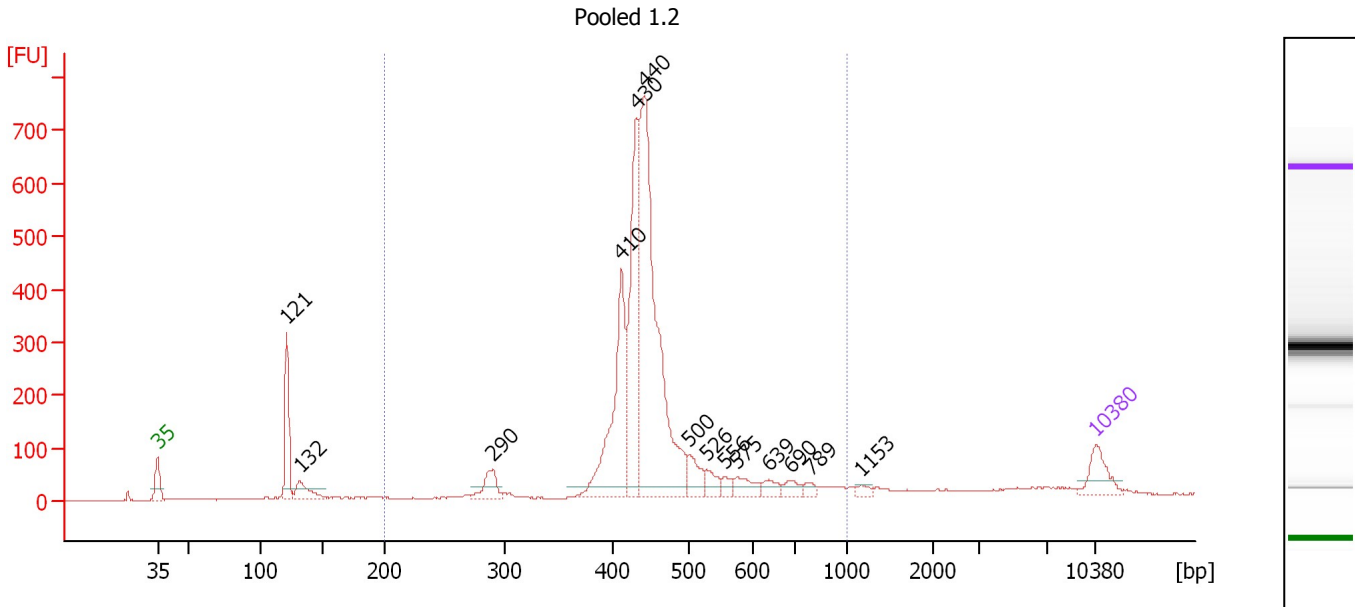
**Region table for sample 3 : Pooled 1.1**

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	11,124.6	457	3,229.74	1,000	3,303.2	92	19.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10\_001.xad

Created: 5/10/2012 11:08:39 AM  
 Modified: 5/10/2012 11:32:53 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Pooled 1.2**

Number of peaks found: 14                      Corr. Area 1: 3,392.4  
 Noise: 0.7

**Peak table for sample 4 : Pooled 1.2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	121	247.50	3,097.0	
3	132	89.53	1,029.5	
4	290	84.88	443.9	
5	410	512.33	1,893.4	
6	430	536.27	1,891.2	
7	440	1,202.32	4,138.2	
8	500	80.30	243.4	
9	526	52.38	150.8	
10	556	29.43	80.2	
11	575	58.41	153.9	
12	639	35.08	83.2	
13	690	35.16	77.2	
14	789	20.89	40.1	
15	1,153	17.20	22.6	
16	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : Pooled 1.2**

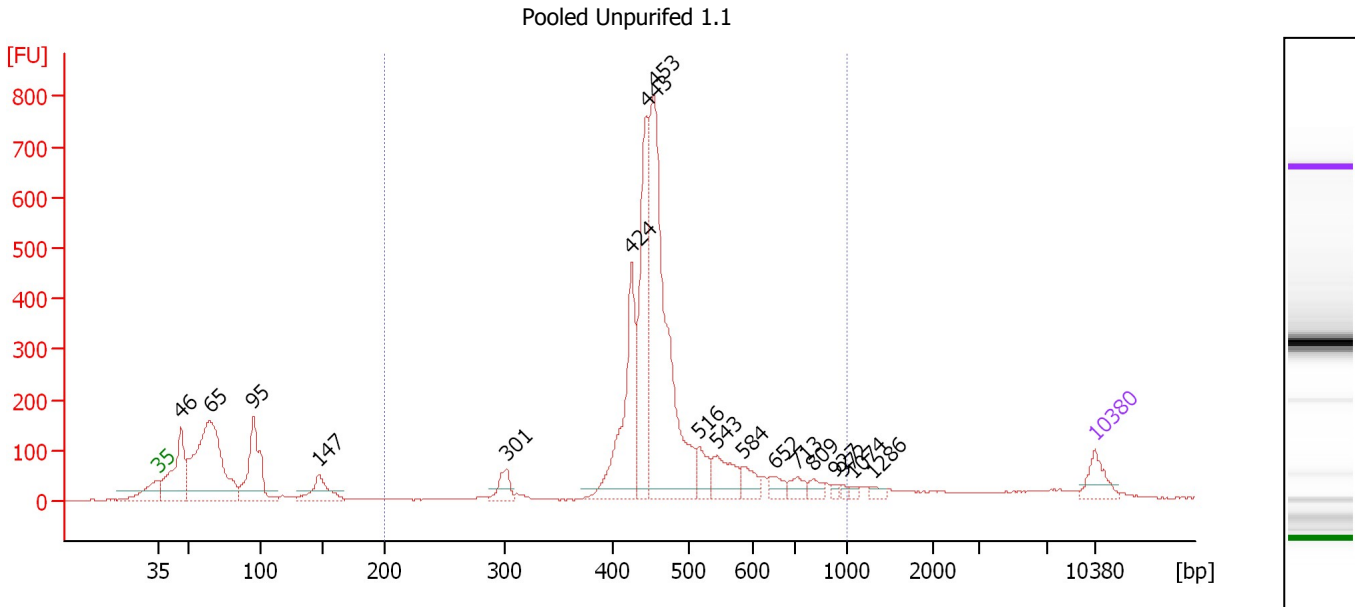
From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	9,199.7	458	2,674.58	1,000	3,392.4	86	19.5	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10\_001.xad

Created: 5/10/2012 11:08:39 AM  
 Modified: 5/10/2012 11:32:53 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Pooled Unpurified 1.1**

Number of peaks found: 18                      Corr. Area 1: 3,911.9  
 Noise: 1.1

**Peak table for sample 5 : Pooled Unpurified 1.1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	458.76	14,954.9	
3	65	1,090.00	25,412.7	
4	95	451.93	7,206.3	
5	147	162.75	1,673.7	
6	301	88.15	443.8	
7	424	578.85	2,070.9	
8	443	579.64	1,982.9	
9	453	1,352.77	4,520.9	
10	516	106.62	313.3	
11	543	164.41	458.4	
12	584	84.09	218.0	
13	652	51.28	119.1	
14	713	50.61	107.6	
15	809	41.47	77.7	
16	927	14.56	23.8	
17	972	12.07	18.8	
18	1,074	14.44	20.4	
19	1,286	20.38	24.0	
20	10,380	75.00	10.9	Upper Marker

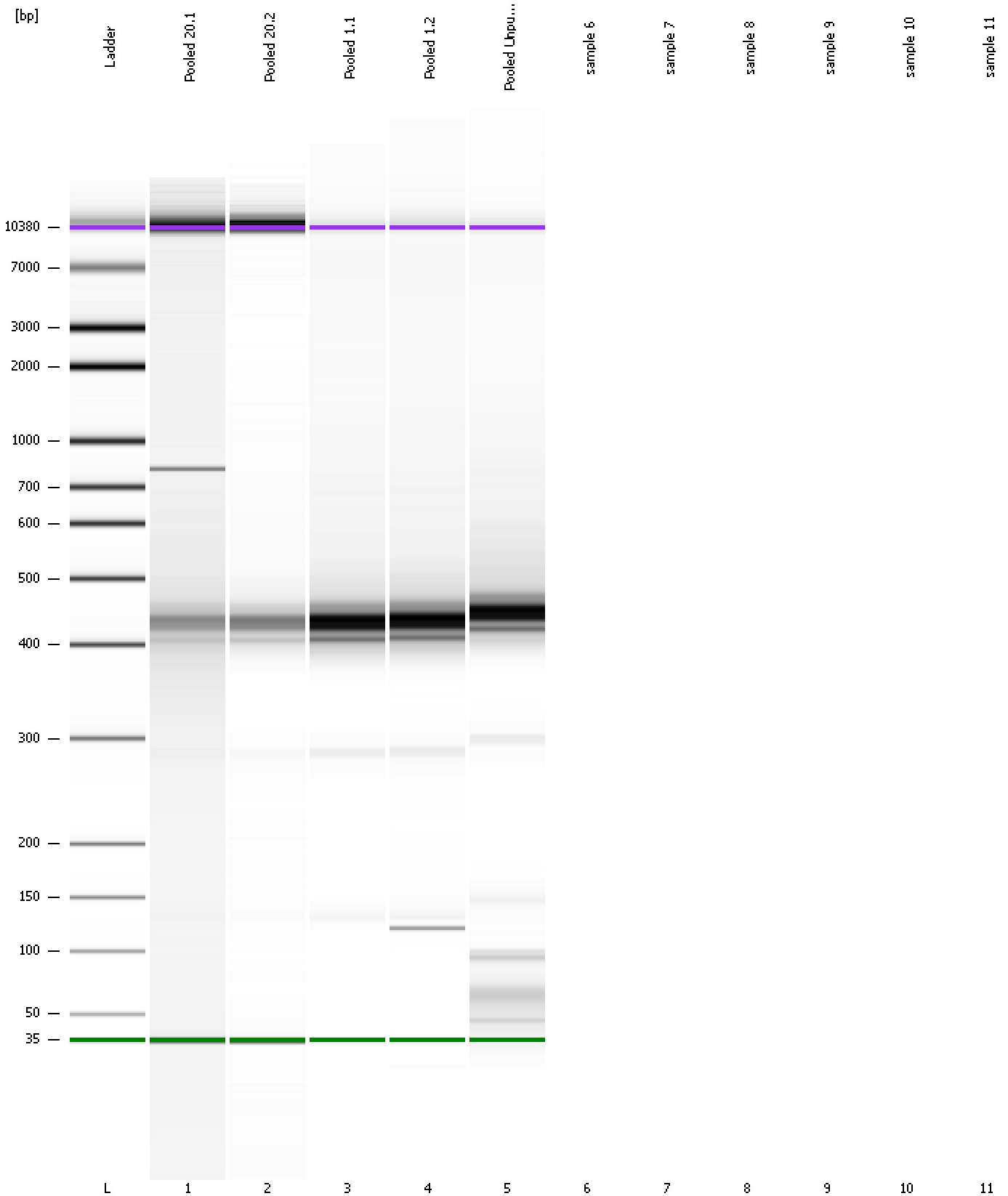
**Region table for sample 5 : Pooled Unpurified 1.1**

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	10,568.8	480	3,196.40	1,000	3,911.9	64	21.1	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10\_001.xad

Created: 5/10/2012 11:08:39 AM  
Modified: 5/10/2012 11:32:53 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10\_001.xad

Created: 5/10/2012 11:08:39 AM  
Modified: 5/10/2012 11:32:53 AM

**Invalid Samples**

- Sample 6 has not been run, no results available.
- Sample 7 has not been run, no results available.
- Sample 8 has not been run, no results available.
- Sample 9 has not been run, no results available.
- Sample 10 has not been run, no results available.
- Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-10\2012-05-10\_001.xad

Created: 5/10/2012 11:08:39 AM  
 Modified: 5/10/2012 11:32:53 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 6)		Instrument	Run		5/10/2012 11:32:50 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-05-10\2012-05-10_001.xad)		Instrument	Run		5/10/2012 11:08:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/10/2012 11:08:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/10/2012 11:08:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/10/2012 11:08:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/10/2012 11:08:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/10/2012 11:08:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/10/2012 11:08:44 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1