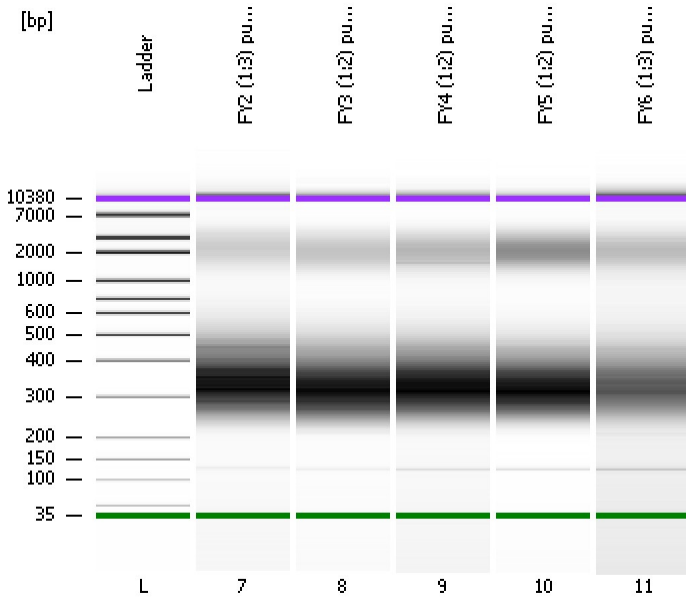


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...tings\Bioanalyzer\2014-04-17\2014-04-17\_001-FY-purified.xad

Created: 4/17/2014 10:30:40 AM  
Modified: 4/17/2014 12:57:02 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

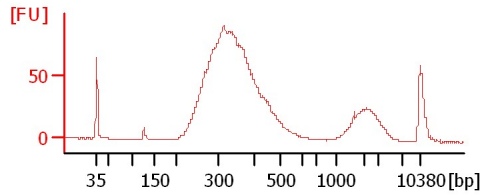
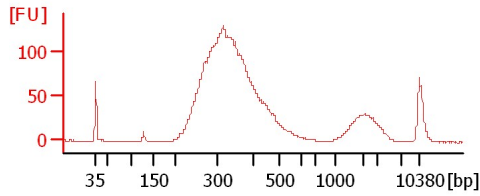
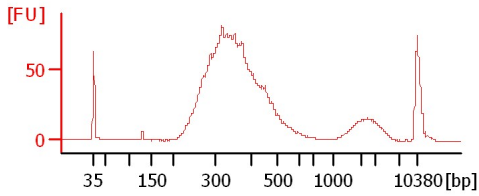
Chip Information:

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

**FY2 (1:3) purified**

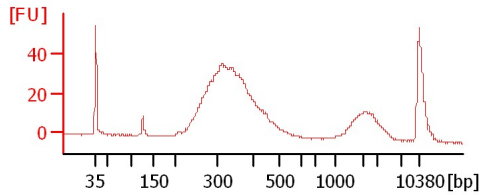
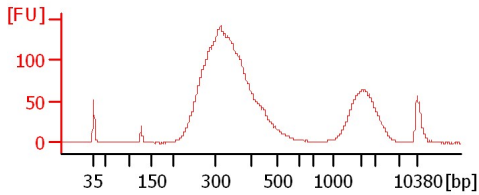
**FY3 (1:2) purified**

**FY4 (1:2) purified**



**FY5 (1:2) purified**

**FY6 (1:3) purified**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...tings\Bioanalyzer\2014-04-17\2014-04-17\_001-FY-purified.xad

Created: 4/17/2014 10:30:40 AM  
 Modified: 4/17/2014 12:57:02 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
FY2 (1:3) purified		<input type="checkbox"/>				
FY3 (1:2) purified		<input type="checkbox"/>				
FY4 (1:2) purified		<input type="checkbox"/>				
FY5 (1:2) purified		<input type="checkbox"/>				
FY6 (1:3) purified		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>				

**Chip Lot #** **Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...tings\Bioanalyzer\2014-04-17\2014-04-17\_001-FY-purified.xad

Created: 4/17/2014 10:30:40 AM  
 Modified: 4/17/2014 12:57:02 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

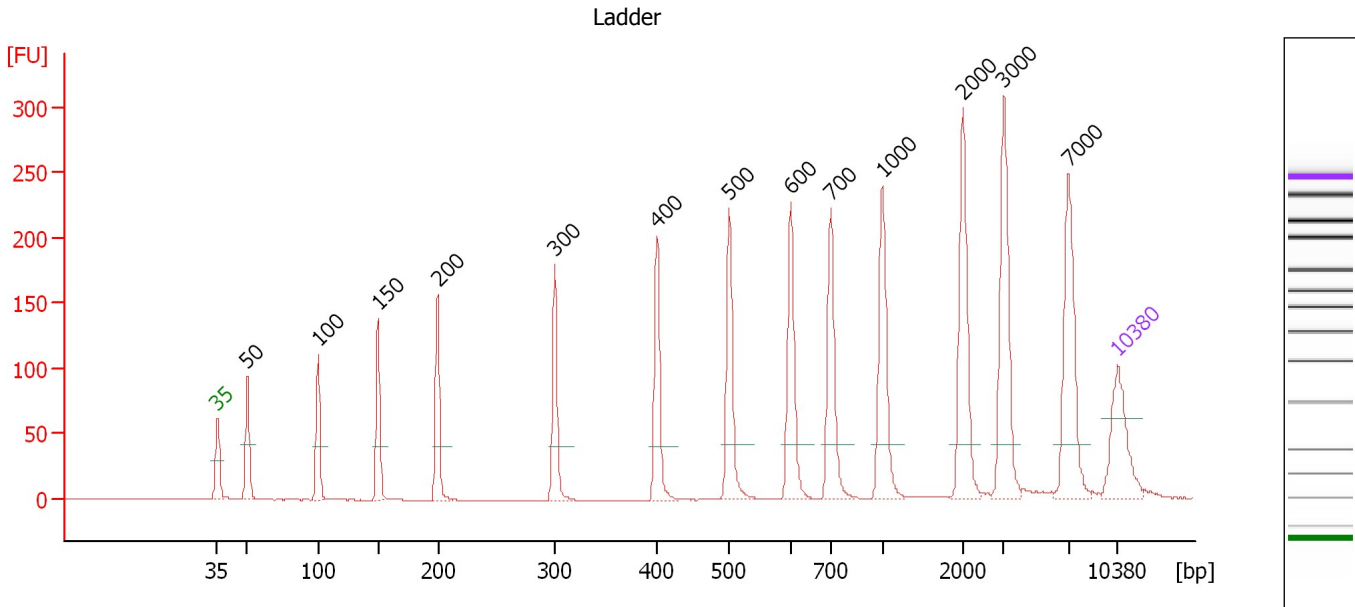
**Ladder**

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:\...tings\Bioanalyzer\2014-04-17\2014-04-17\_001-FY-purified.xad

Created: 4/17/2014 10:30:40 AM  
 Modified: 4/17/2014 12:57:02 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

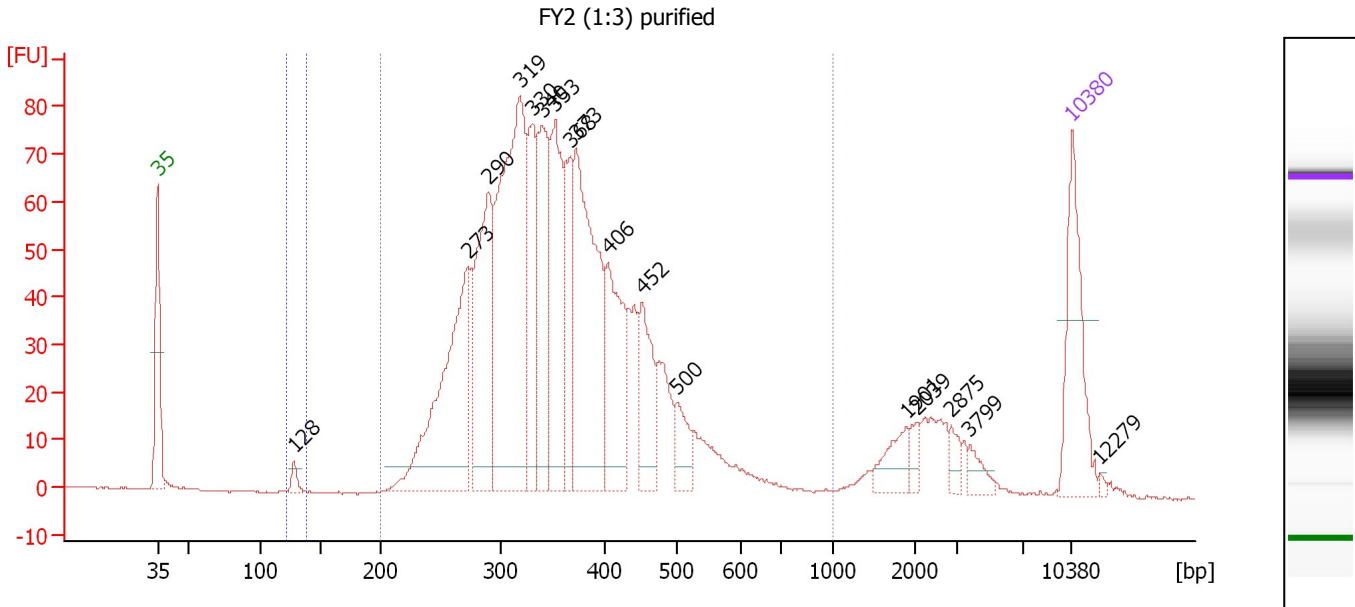
**Peak table for Ladder**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.32	50	150.00	4,545.5	Ladder Peak
3	50.84	100	150.00	2,272.7	Ladder Peak
4	55.48	150	150.00	1,515.2	Ladder Peak
5	60.13	200	150.00	1,136.4	Ladder Peak
6	69.25	300	150.00	757.6	Ladder Peak
7	77.17	400	150.00	568.2	Ladder Peak
8	82.81	500	150.00	454.5	Ladder Peak
9	87.58	600	150.00	378.8	Ladder Peak
10	90.69	700	150.00	324.7	Ladder Peak
11	94.71	1,000	150.00	227.3	Ladder Peak
12	100.97	2,000	150.00	113.6	Ladder Peak
13	104.17	3,000	150.00	75.8	Ladder Peak
14	109.18	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...tings\Bioanalyzer\2014-04-17\2014-04-17\_001-FY-purified.xad

Created: 4/17/2014 10:30:40 AM  
 Modified: 4/17/2014 12:57:02 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : FY2 (1:3) purified**

Number of peaks found: 17      Corr. Area 1: 1,512.5  
 Noise: 0.2      Corr. Area 2: 5.6

**Peak table for sample 7 : FY2 (1:3) purified**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.46	128	10.51	124.2	
3	66.76	273	232.39	1,291.4	
4	68.33	290	175.26	915.9	
5	70.74	319	359.45	1,708.5	
6	71.66	330	105.19	482.4	
7	72.44	340	126.35	562.5	
8	73.45	353	147.23	631.9	
9	74.63	368	72.64	299.1	
10	75.03	373	243.98	991.3	
11	77.52	406	111.46	415.8	
12	80.10	452	69.88	234.3	
13	82.81	500	30.48	92.4	
14	100.36	1,901	24.41	19.4	
15	101.10	2,039	9.51	7.1	
16	103.77	2,875	10.02	5.3	
17	105.17	3,799	11.50	4.6	
18	113.00	10,380	75.00	10.9	Upper Marker
19	115.14	12,279	0.00	0.0	

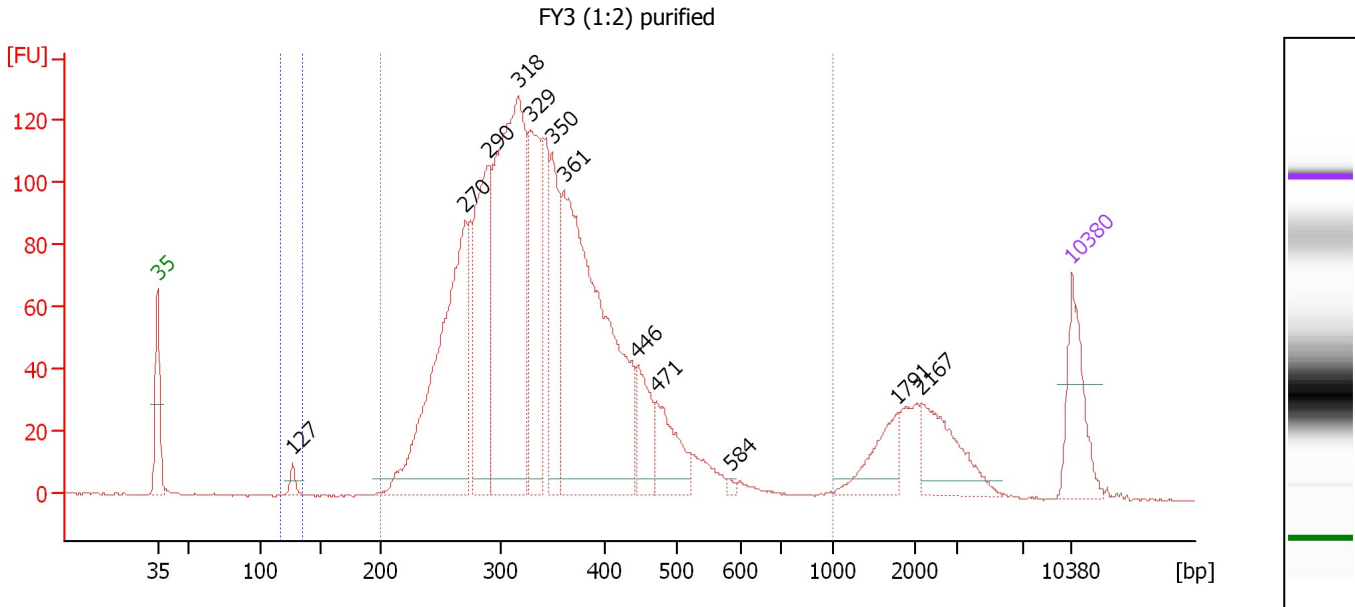
**Region table for sample 7 : FY2 (1:3) purified**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
122	138	128	109.5	9.29	5.6	0	1.6
200	1,000	363	8,520.7	1,909.36	1,512.5	91	23.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...tings\Bioanalyzer\2014-04-17\2014-04-17\_001-FY-purified.xad

Created: 4/17/2014 10:30:40 AM  
 Modified: 4/17/2014 12:57:02 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : FY3 (1:2) purified**

Number of peaks found: 12                      Corr. Area 1: 2,265.4  
 Noise: 0.3    Corr. Area 2: 8.7

**Peak table for sample 8 : FY3 (1:2) purified**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.35	127	16.49	196.7	
3	66.55	270	499.89	2,800.7	
4	68.31	290	299.02	1,564.1	
5	70.68	318	612.95	2,920.5	
6	71.51	329	233.86	1,078.6	
7	73.18	350	159.18	690.0	
8	74.10	361	647.35	2,715.6	
9	79.75	446	76.47	259.9	
10	81.20	471	89.82	288.6	
11	86.82	584	4.45	11.5	
12	99.67	1,791	55.05	46.6	
13	101.51	2,167	83.12	58.1	
14	113.00	10,380	75.00	10.9	Upper Marker

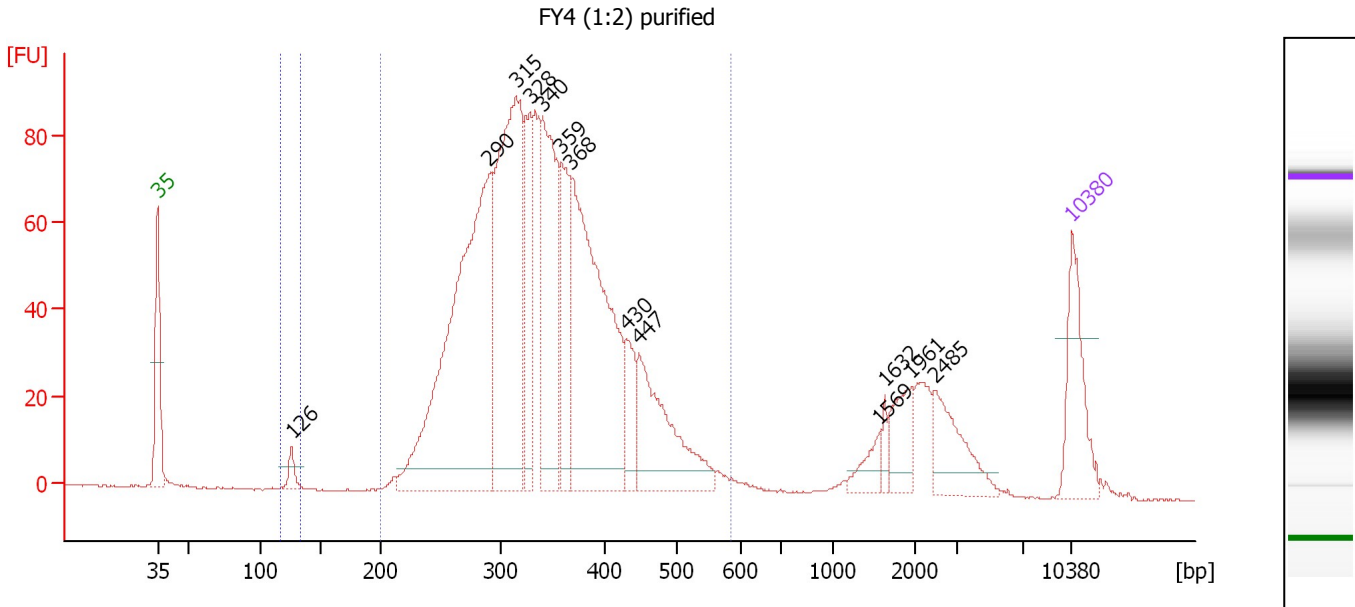
**Region table for sample 8 : FY3 (1:2) purified**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
117	136	127	170.9	14.35	8.7	0	1.7
200	1,000	344	13,346.4	2,857.24	2,265.4	90	22.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...tings\Bioanalyzer\2014-04-17\2014-04-17\_001-FY-purified.xad

Created: 4/17/2014 10:30:40 AM  
 Modified: 4/17/2014 12:57:02 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : FY4 (1:2) purified**

Number of peaks found: 13                      Corr. Area 1: 1,563.3  
 Noise: 0.2    Corr. Area 2: 8.1

**Peak table for sample 9 : FY4 (1:2) purified**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.26	126	19.86	238.7	
3	68.33	290	615.95	3,218.4	
4	70.44	315	446.21	2,146.2	
5	71.49	328	115.93	535.0	
6	72.41	340	256.33	1,142.6	
7	73.90	359	112.80	476.4	
8	74.65	368	425.86	1,752.7	
9	78.85	430	55.82	196.8	
10	79.82	447	165.55	561.2	
11	98.27	1,569	22.28	21.5	
12	98.67	1,632	11.37	10.6	
13	100.73	1,961	43.69	33.8	
14	102.52	2,485	63.81	38.9	
15	113.00	10,380	75.00	10.9	Upper Marker

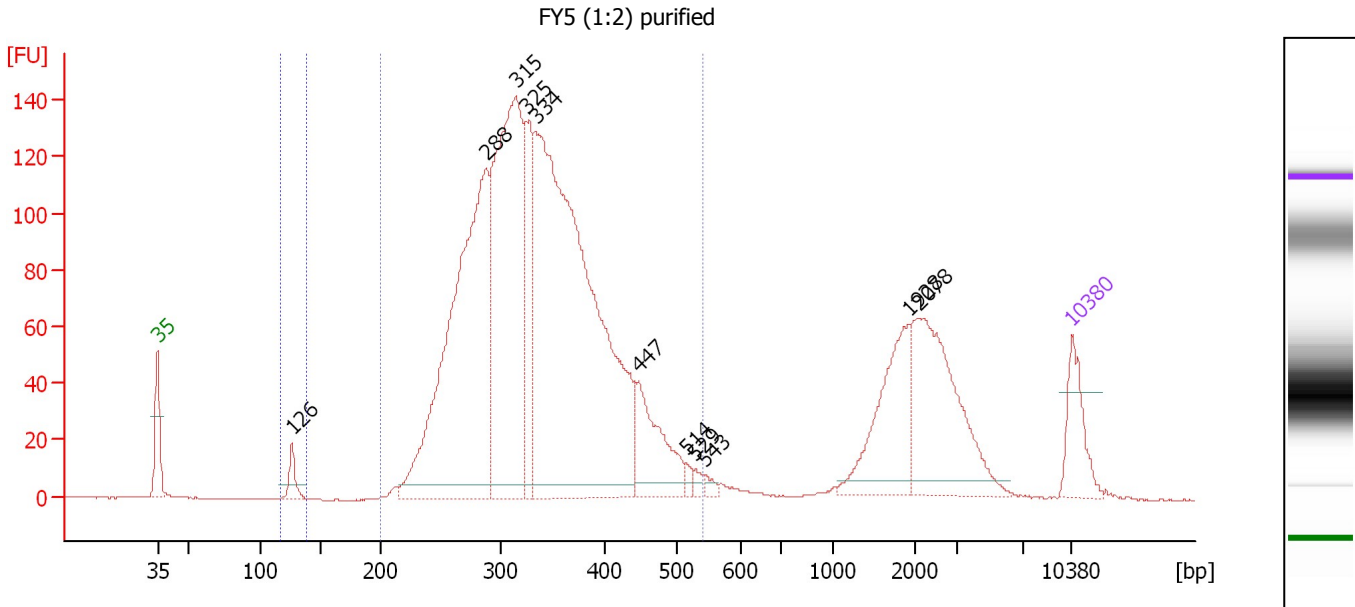
**Region table for sample 9 : FY4 (1:2) purified**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
117	134	126	190.4	15.85	8.1	0	1.6
200	585	345	10,822.8	2,345.19	1,563.3	88	19.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...tings\Bioanalyzer\2014-04-17\2014-04-17\_001-FY-purified.xad

Created: 4/17/2014 10:30:40 AM  
 Modified: 4/17/2014 12:57:02 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : FY5 (1:2) purified**

Number of peaks found: 11                      Corr. Area 1: 2,300.9  
 Noise: 0.2    Corr. Area 2: 17.8

**Peak table for sample 10 : FY5 (1:2) purified**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.28	126	41.20	494.2	
3	68.18	288	985.27	5,178.8	
4	70.42	315	812.02	3,908.7	
5	71.21	325	186.17	868.6	
6	71.96	334	1,466.20	6,647.5	
7	79.82	447	170.02	576.2	
8	83.47	514	10.84	32.0	
9	84.17	529	11.16	32.0	
10	84.88	543	11.03	30.8	
11	100.52	1,928	183.45	144.2	
12	101.22	2,078	273.92	199.7	
13	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 10 : FY5 (1:2) purified**

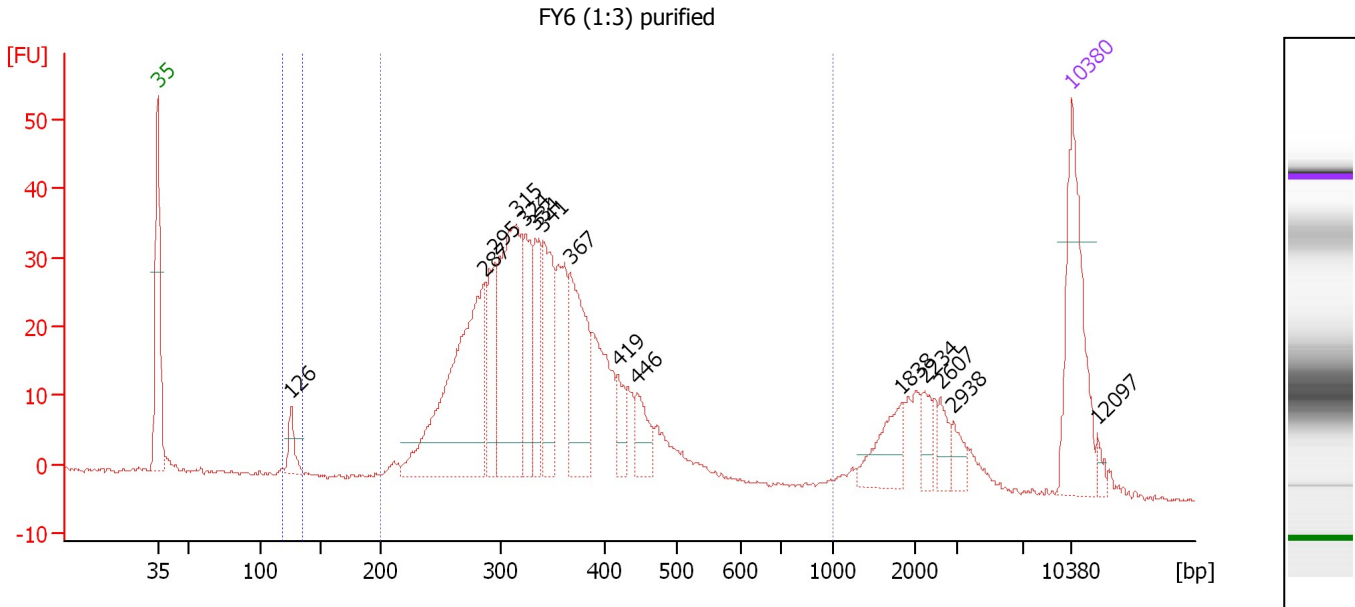
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
117	138	127	434.7	36.37	17.8	1	1.9
200	540	337	17,004.8	3,625.25	2,300.9	82	18.1



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...tings\Bioanalyzer\2014-04-17\2014-04-17\_001-FY-purified.xad

Created: 4/17/2014 10:30:40 AM  
 Modified: 4/17/2014 12:57:02 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : FY6 (1:3) purified**

Number of peaks found: 15      Corr. Area 1: 636.7  
 Noise: 0.3      Corr. Area 2: 10.3

**Peak table for sample 11 : FY6 (1:3) purified**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.22	126	20.16	243.1	
3	68.02	287	210.64	1,113.8	
4	68.81	295	53.41	274.1	
5	70.44	315	155.53	747.9	
6	71.15	324	57.77	270.2	
7	71.94	334	46.07	209.0	
8	72.52	341	71.00	315.3	
9	74.59	367	89.43	368.8	
10	78.24	419	19.10	69.1	
11	79.74	446	24.34	82.8	
12	99.96	1,838	30.51	25.1	
13	101.72	2,234	11.51	7.8	
14	102.91	2,607	11.67	6.8	
15	103.97	2,938	10.47	5.4	
16	113.00	10,380	75.00	10.9	Upper Marker
17	114.94	12,097	0.00	0.0	

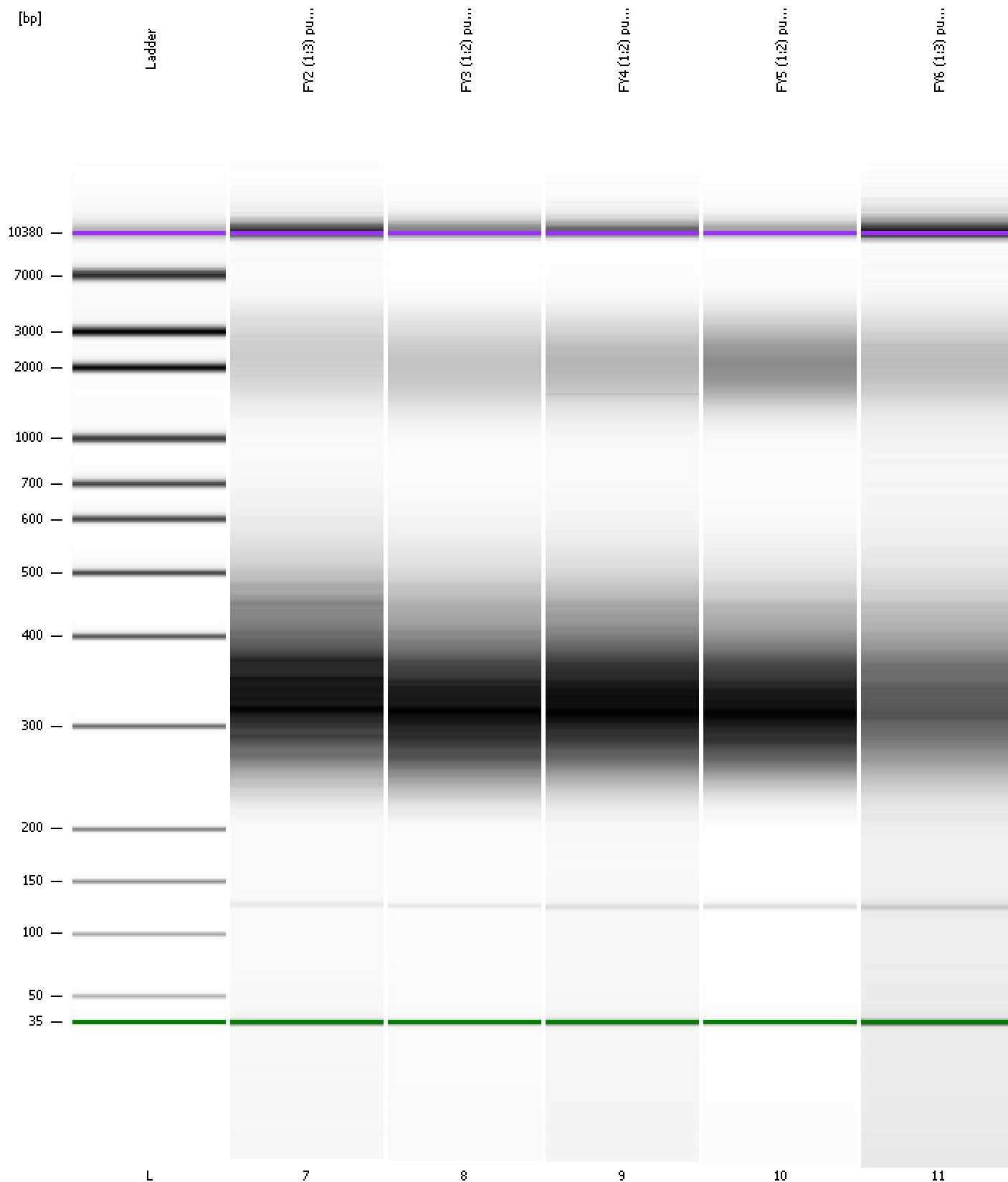
**Region table for sample 11 : FY6 (1:3) purified**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
118	135	126	248.1	20.66	10.3	1	2.4
200	1,000	348	4,498.3	975.68	636.7	83	23.3

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...tings\Bioanalyzer\2014-04-17\2014-04-17\_001-FY-purified.xad

Created: 4/17/2014 10:30:40 AM  
Modified: 4/17/2014 12:57:02 PM

**Gel Image**

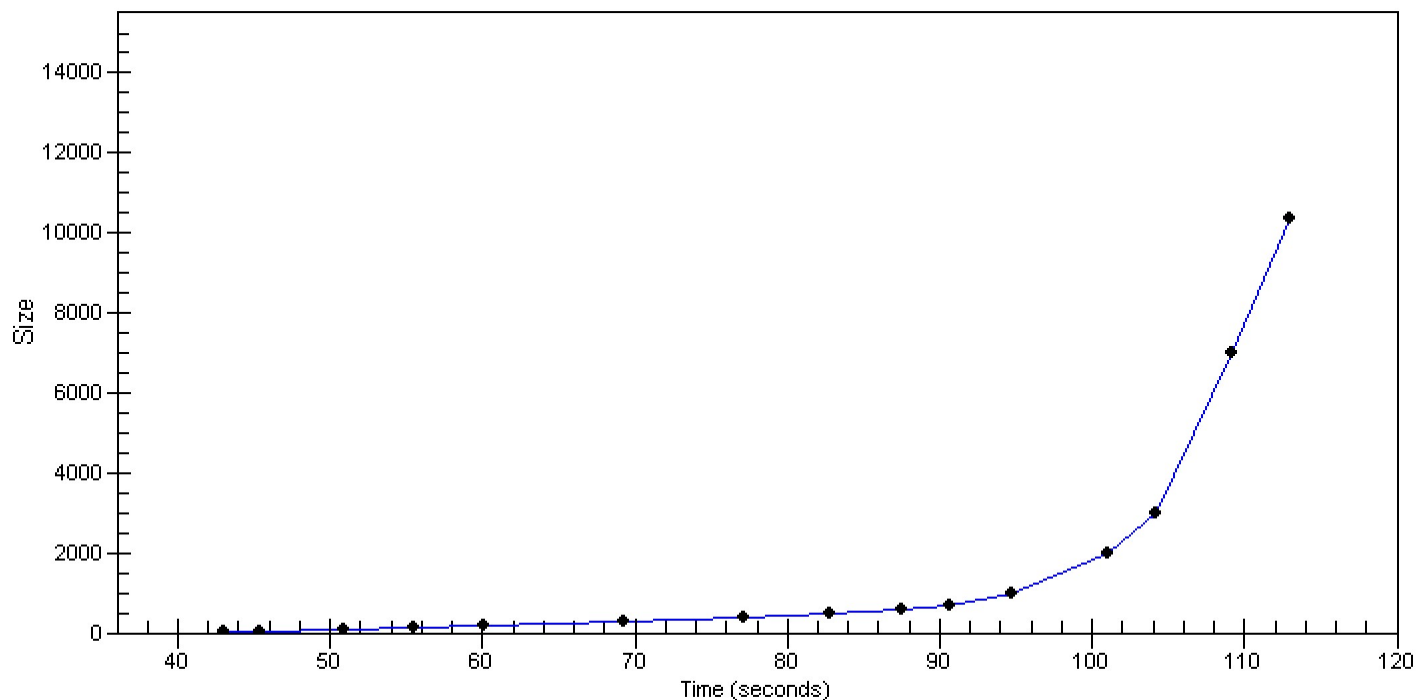


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...tings\Bioanalyzer\2014-04-17\2014-04-17\_001-FY-purified.xad

Created: 4/17/2014 10:30:40 AM  
Modified: 4/17/2014 12:57:02 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...tings\Bioanalyzer\2014-04-17\2014-04-17\_001-FY-purified.xad

Created: 4/17/2014 10:30:40 AM  
 Modified: 4/17/2014 12:57:02 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		4/17/2014 11:12:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-17\2014-04-17_001.xad)		Instrument	Run		4/17/2014 10:30:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/17/2014 10:30:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/17/2014 10:30:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/17/2014 10:30:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/17/2014 10:30:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/17/2014 10:30:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/17/2014 10:30:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1