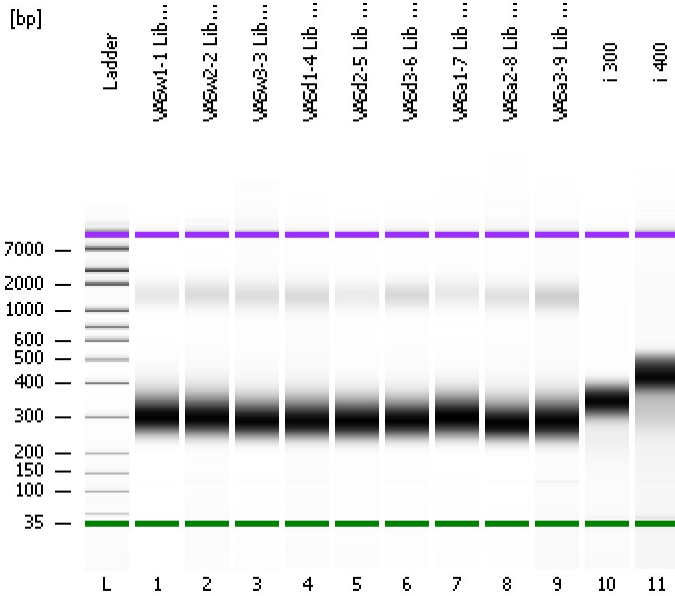


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_005.xad

Created: 1/3/2013 4:14:52 PM  
Modified: 1/3/2013 5:02:14 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

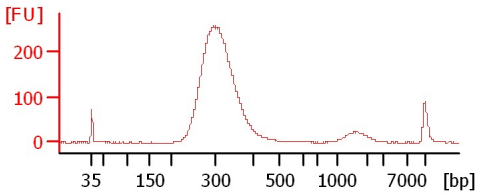
Assay Information:

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

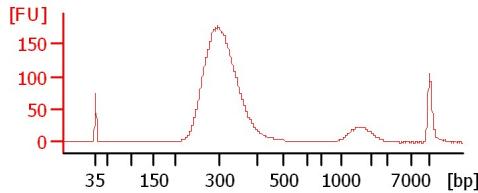
Chip Information:

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

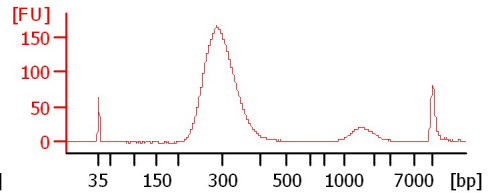
VASw1-1 Lib Cleaned 1:2



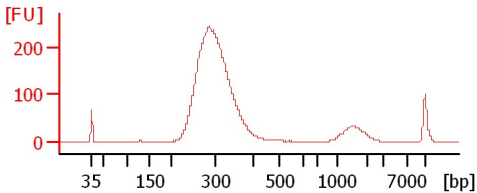
VASw2-2 Lib Cleaned 1:3



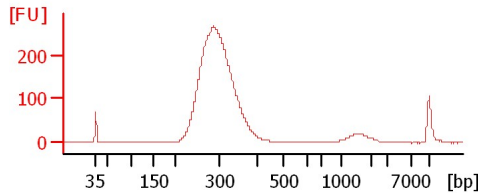
VASw3-3 Lib Cleaned 1:3



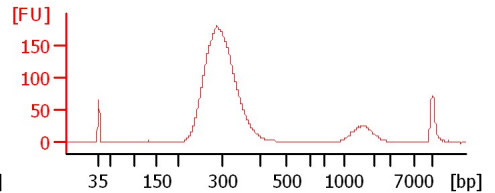
VASd1-4 Lib Cleaned 1:3



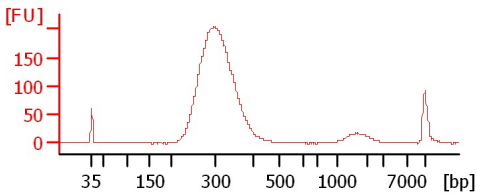
VASd2-5 Lib Cleaned 1:2



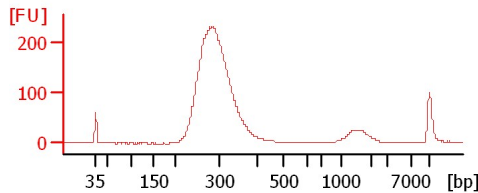
VASd3-6 Lib Cleaned 1:2



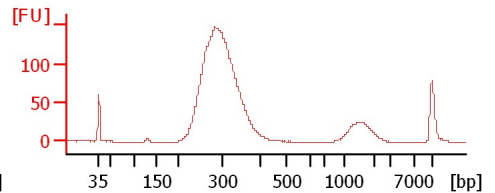
VASa1-7 Lib Cleaned 1:3



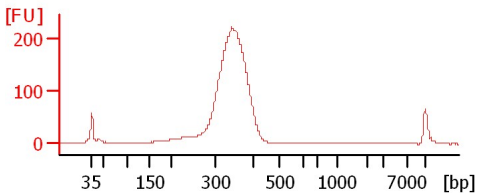
VASa2-8 Lib Cleaned 1:2



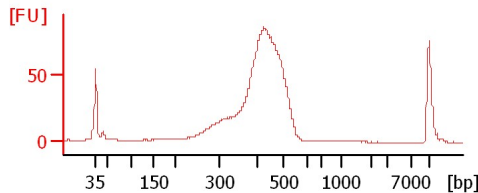
VASa3-9 Lib Cleaned 1:2



i 300



i 400



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_005.xad

Created: 1/3/2013 4:14:52 PM  
 Modified: 1/3/2013 5:02:14 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
VASw1-1 Lib Cleaned 1:2		<input type="checkbox"/>	✓			
VASw2-2 Lib Cleaned 1:3		<input type="checkbox"/>	✓			
VASw3-3 Lib Cleaned 1:3		<input type="checkbox"/>	✓			
VASd1-4 Lib Cleaned 1:3		<input type="checkbox"/>	✓			
VASd2-5 Lib Cleaned 1:2		<input type="checkbox"/>	✓			
VASd3-6 Lib Cleaned 1:2		<input type="checkbox"/>	✓			
VASa1-7 Lib Cleaned 1:3		<input type="checkbox"/>	✓			
VASa2-8 Lib Cleaned 1:2		<input type="checkbox"/>	✓			
VASa3-9 Lib Cleaned 1:2		<input type="checkbox"/>	✓			
i 300		<input type="checkbox"/>	✓			
i 400		<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\2013-01-03\2013-01-03\_005.xad

Created: 1/3/2013 4:14:52 PM  
 Modified: 1/3/2013 5:02:14 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

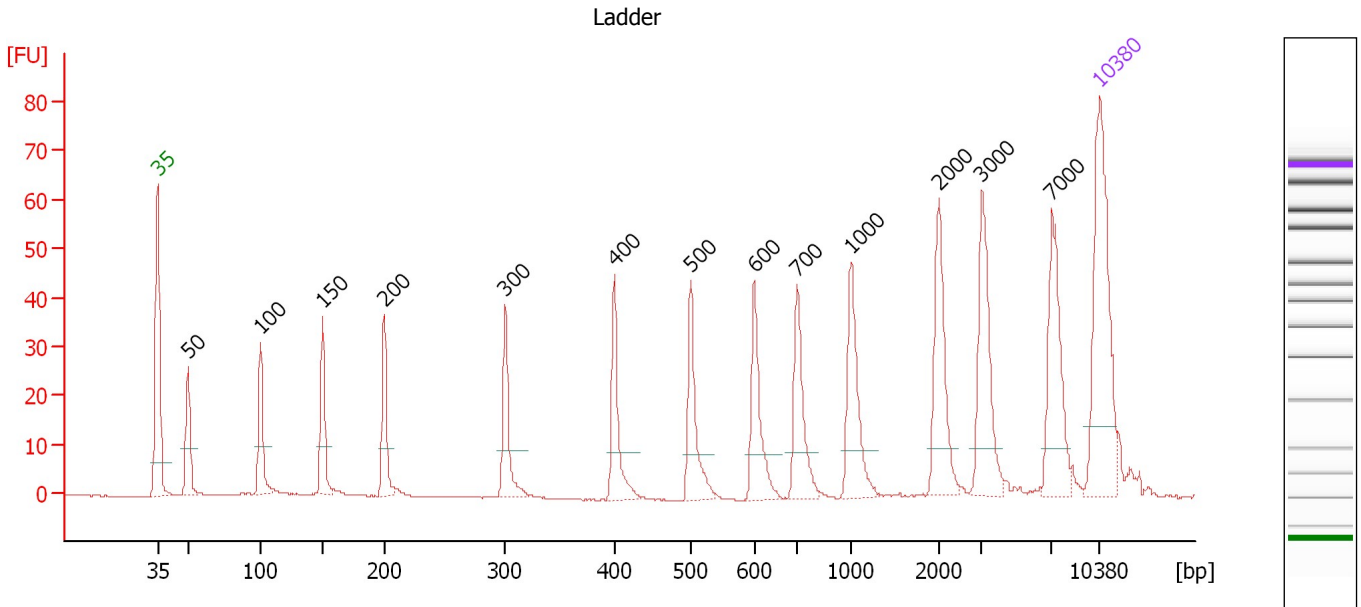
**Ladder**

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\2013-01-03\2013-01-03\_005.xad

Created: 1/3/2013 4:14:52 PM  
 Modified: 1/3/2013 5:02:14 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

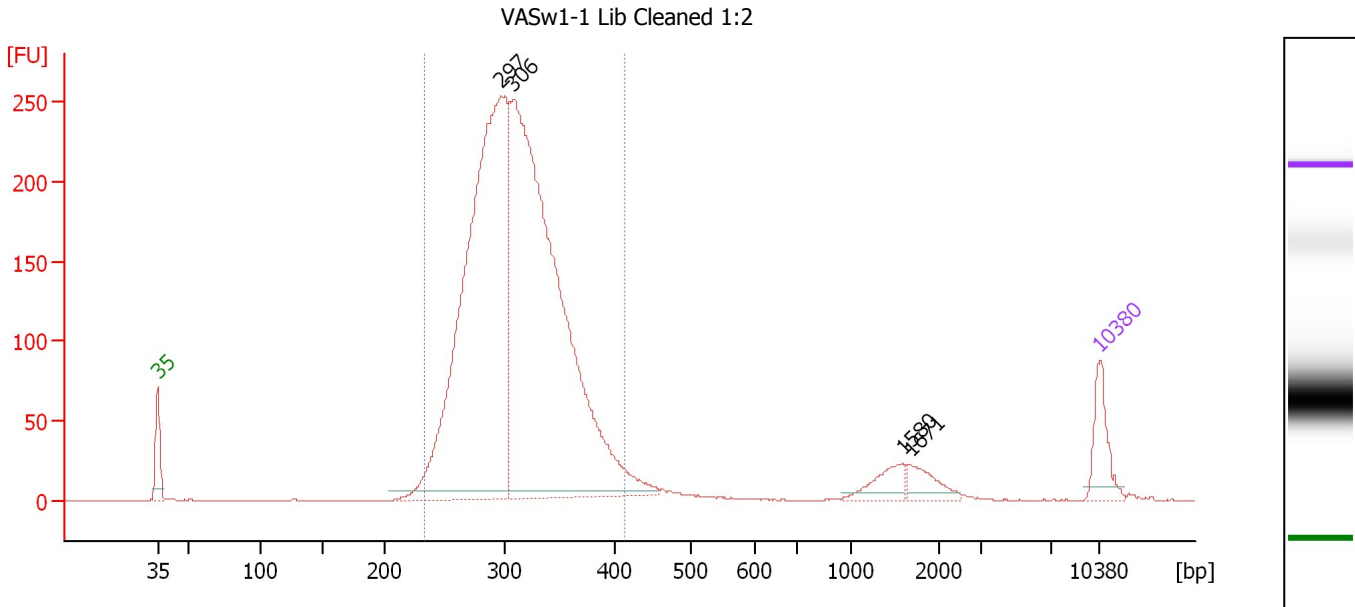
**Peak table for Ladder**

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_005.xad

Created: 1/3/2013 4:14:52 PM  
 Modified: 1/3/2013 5:02:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : VASw1-1 Lib Cleaned 1:2**

Number of peaks found: 4                      Corr. Area 1: 3,049.3  
 Noise: 0.1

**Peak table for sample 1 : VASw1-1 Lib Cleaned 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	297	1,862.34	9,511.6	
3	306	2,094.34	10,363.7	
4	1,580	57.05	54.7	
5	1,671	52.08	47.2	
6	10,380	75.00	10.9	Upper Marker

**Region table for sample 1 : VASw1-1 Lib Cleaned 1:2**

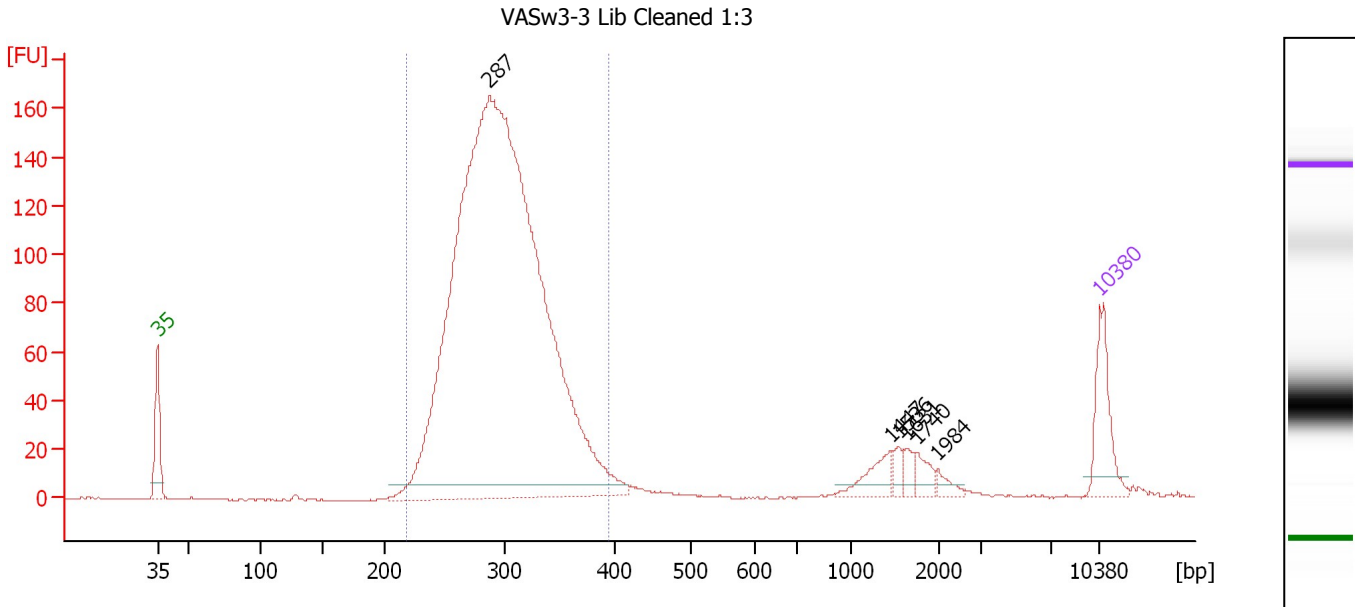
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
233	413	310	19,175.3	3,864.06	3,049.3	93	11.6	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_005.xad

Created: 1/3/2013 4:14:52 PM  
 Modified: 1/3/2013 5:02:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : VASw3-3 Lib Cleaned 1:3**

Number of peaks found: 6                      Corr. Area 1: 1,889.3  
 Noise: 0.3

**Peak table for sample 3 : VASw3-3 Lib Cleaned 1:3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	287	2,727.30	14,408.8	
3	1,447	39.57	41.4	
4	1,536	14.31	14.1	
5	1,631	15.24	14.2	
6	1,740	20.65	18.0	
7	1,984	12.26	9.4	
8	10,380	75.00	10.9	Upper Marker

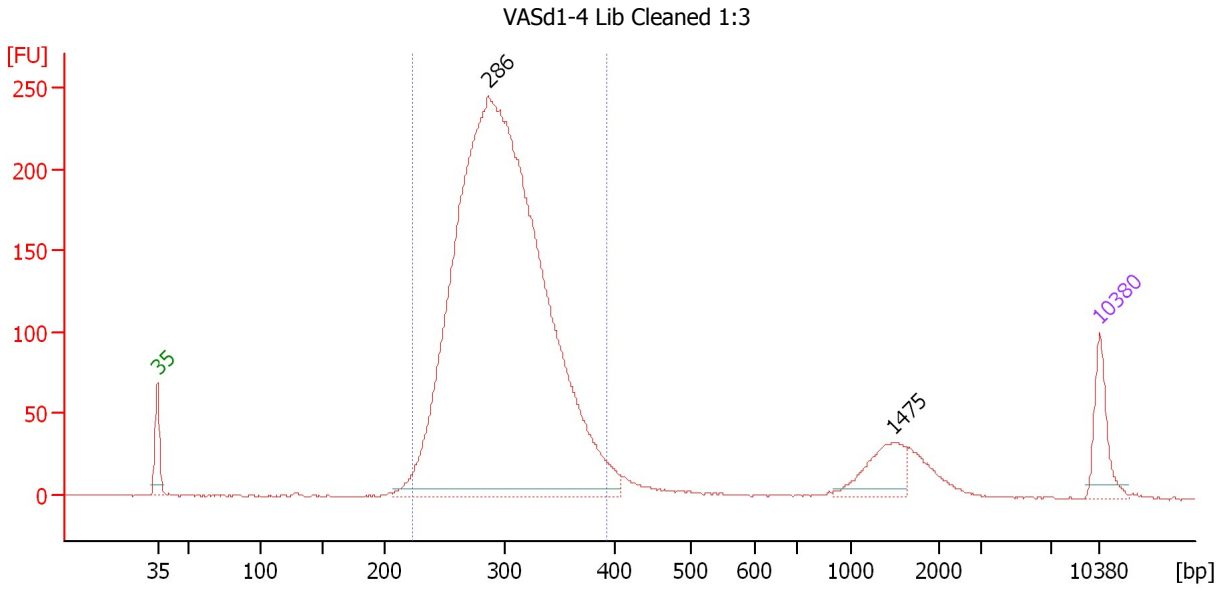
**Region table for sample 3 : VASw3-3 Lib Cleaned 1:3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
218	394	297	13,627.7	2,636.12	1,889.3	92	11.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_005.xad

Created: 1/3/2013 4:14:52 PM  
 Modified: 1/3/2013 5:02:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : VASd1-4 Lib Cleaned 1:3**

Number of peaks found: 2                      Corr. Area 1: 2,894.9  
 Noise: 0.5

**Peak table for sample 4 : VASd1-4 Lib Cleaned 1:3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	286	3,676.57	19,502.9	
3	1,475	102.51	105.3	
4	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : VASd1-4 Lib Cleaned 1:3**

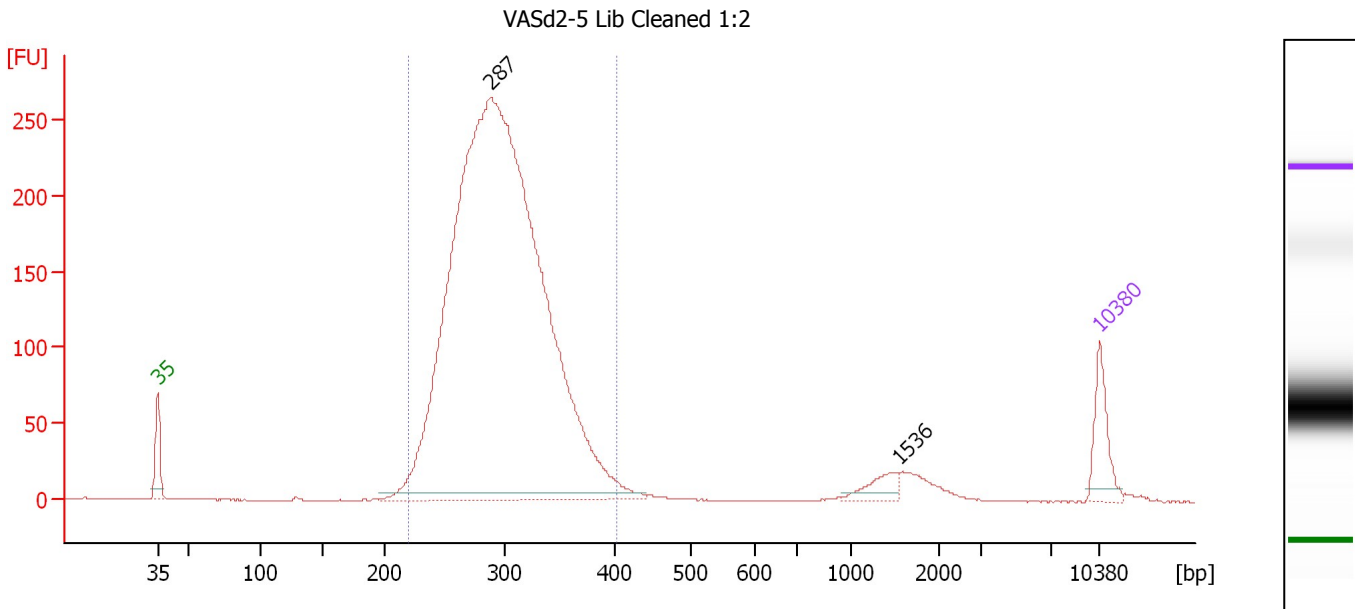
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
223	393	299	18,134.7	3,519.45	2,894.9	89	11.8	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_005.xad

Created: 1/3/2013 4:14:52 PM  
 Modified: 1/3/2013 5:02:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : VASd2-5 Lib Cleaned 1:2**

Number of peaks found: 2                      Corr. Area 1: 3,177.8  
 Noise: 0.3

**Peak table for sample 5 : VASd2-5 Lib Cleaned 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	287	3,784.58	19,962.6	
3	1,536	40.27	39.7	
4	10,380	75.00	10.9	Upper Marker

**Region table for sample 5 : VASd2-5 Lib Cleaned 1:2**

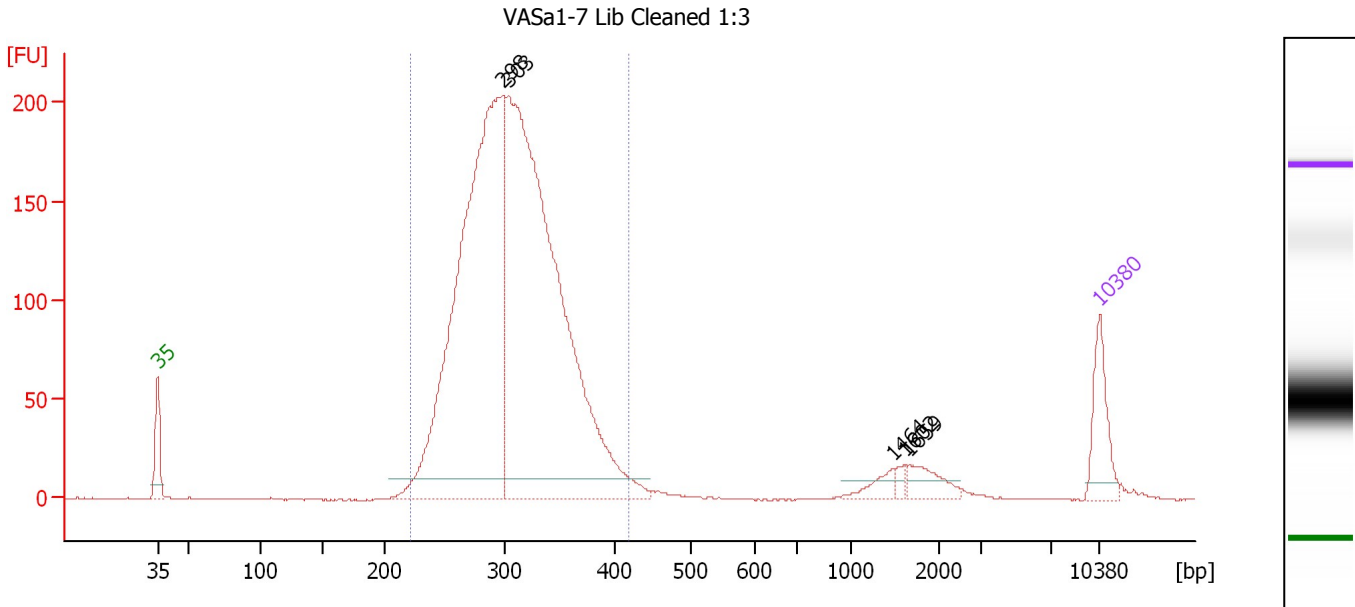
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
220	404	297	19,003.2	3,667.47	3,177.8	94	12.0	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_005.xad

Created: 1/3/2013 4:14:52 PM  
 Modified: 1/3/2013 5:02:14 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 7 : VASa1-7 Lib Cleaned 1:3**

Height Threshold [FU] : 10

**Overall Results for sample 7 : VASa1-7 Lib Cleaned 1:3**

Number of peaks found: 5                      Corr. Area 1: 2,534.5  
 Noise: 0.3

**Peak table for sample 7 : VASa1-7 Lib Cleaned 1:3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	298	1,460.11	7,433.9	
3	303	1,679.06	8,408.6	
4	1,464	27.01	28.0	
5	1,602	10.98	10.4	
6	1,659	43.35	39.6	
7	10,380	75.00	10.9	Upper Marker

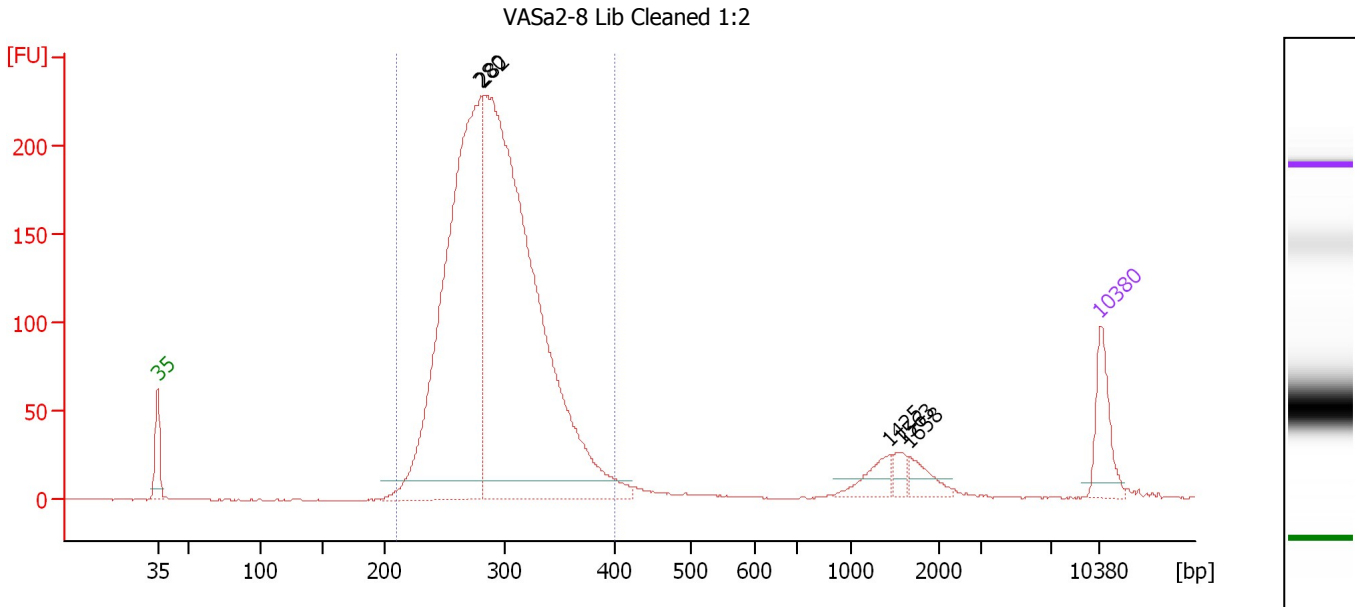
**Region table for sample 7 : VASa1-7 Lib Cleaned 1:3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
222	418	307	15,408.2	3,065.75	2,534.5	94	12.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_005.xad

Created: 1/3/2013 4:14:52 PM  
 Modified: 1/3/2013 5:02:14 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 8 : VASa2-8 Lib Cleaned 1:2**

Height Threshold [FU] : 10

**Overall Results for sample 8 : VASa2-8 Lib Cleaned 1:2**

Number of peaks found: 5                      Corr. Area 1: 2,640.4  
 Noise: 0.4

**Peak table for sample 8 : VASa2-8 Lib Cleaned 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	280	1,349.72	7,309.4	
3	282	1,886.50	10,140.2	
4	1,425	44.89	47.7	
5	1,563	23.41	22.7	
6	1,658	36.27	33.2	
7	10,380	75.00	10.9	Upper Marker

**Region table for sample 8 : VASa2-8 Lib Cleaned 1:2**

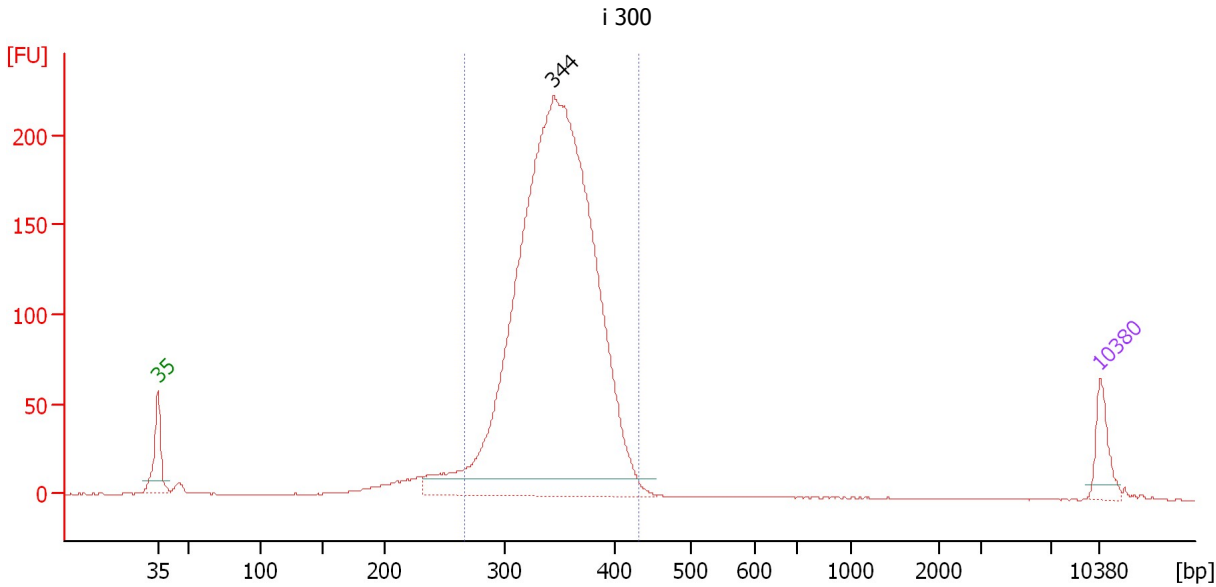
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
210	402	292	16,475.1	3,130.27	2,640.4	92	12.1	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_005.xad

Created: 1/3/2013 4:14:52 PM  
 Modified: 1/3/2013 5:02:14 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 10 : i 300**

Height Threshold [FU] : 10

**Overall Results for sample 10 : i 300**

Number of peaks found: 1                      Corr. Area 1: 2,083.9  
 Noise: 0.2

**Peak table for sample 10 : i 300**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	344	3,770.99	16,624.2	
3	10,380	75.00	10.9	Upper Marker

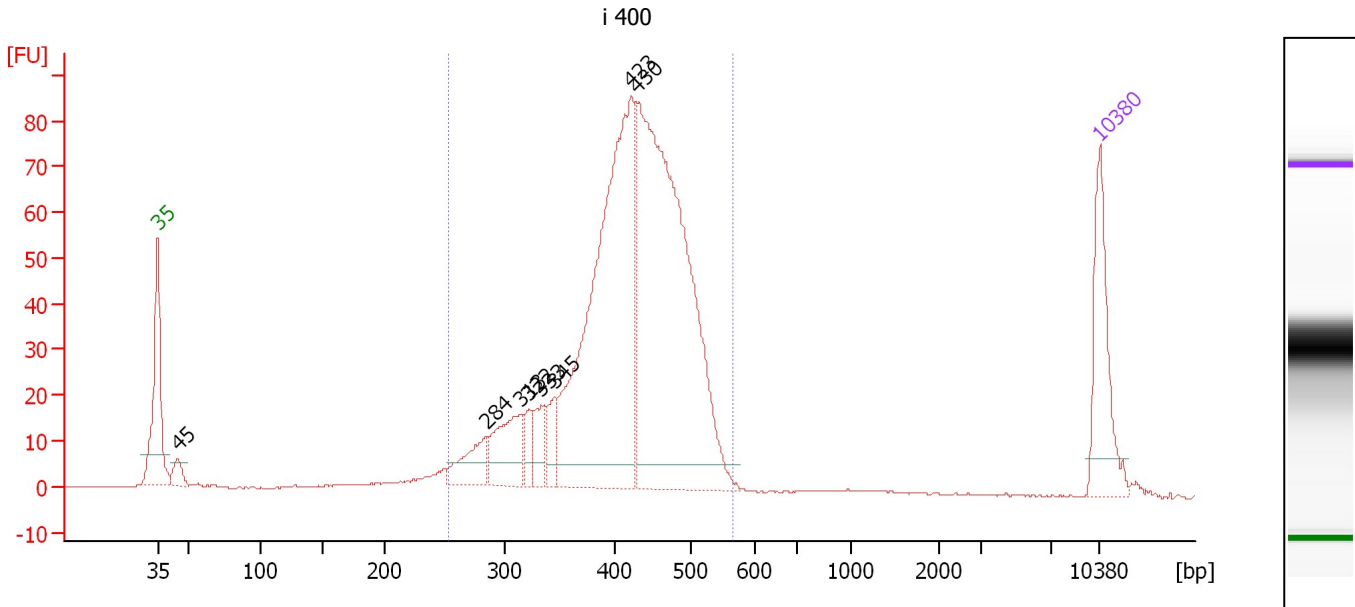
**Region table for sample 10 : i 300**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
266	431	346	16,156.7	3,667.32	2,083.9	93	9.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_005.xad

Created: 1/3/2013 4:14:52 PM  
 Modified: 1/3/2013 5:02:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : i 400**

Number of peaks found: 8                      Corr. Area 1: 1,016.1  
 Noise: 0.1

**Peak table for sample 11 : i 400**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	20.53	693.0	
3	284	47.31	252.5	
4	313	70.14	339.5	
5	322	22.85	107.5	
6	333	30.18	137.4	
7	345	26.50	116.3	
8	423	501.05	1,795.9	
9	430	595.46	2,100.5	
10	10,380	75.00	10.9	Upper Marker

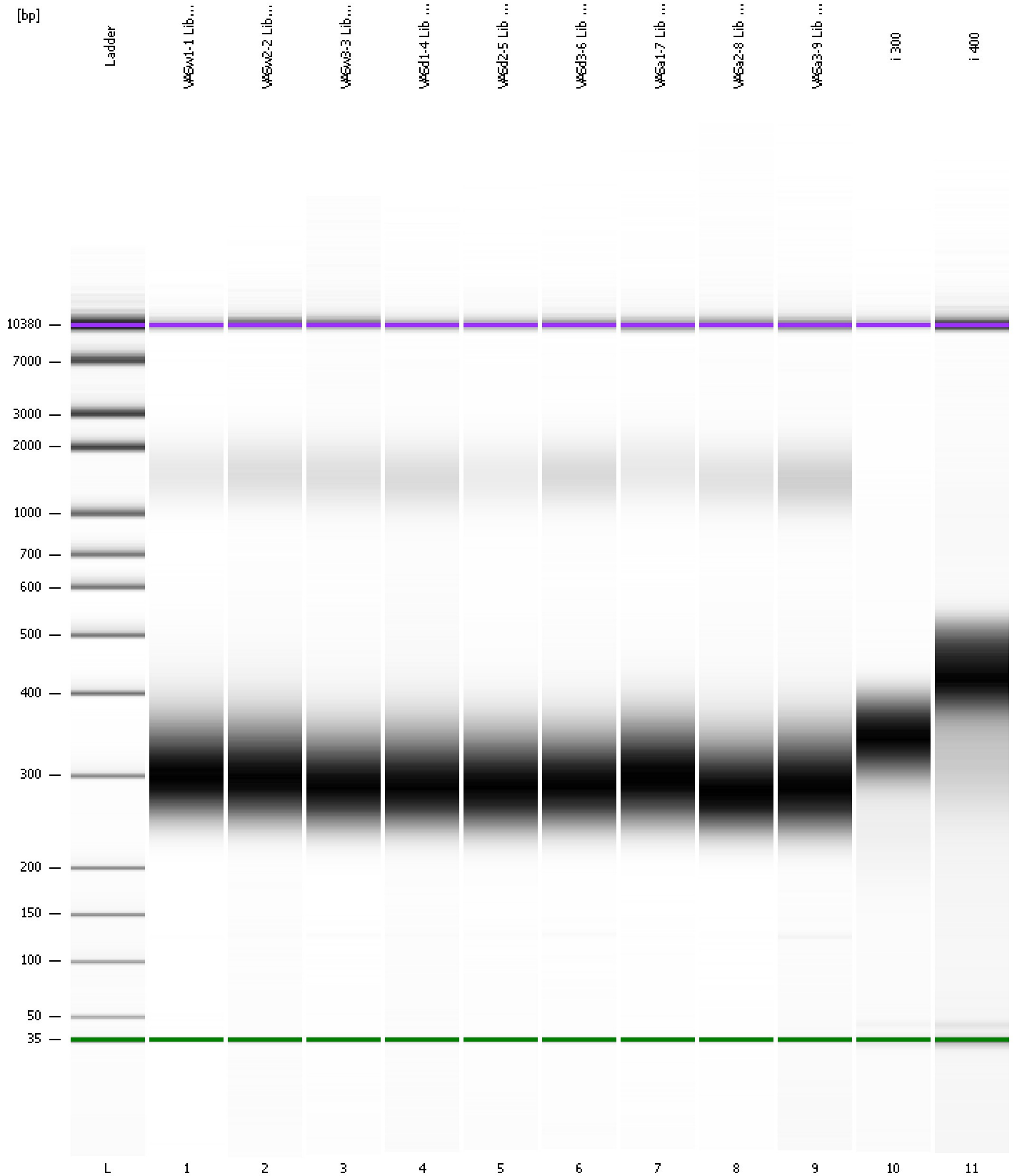
**Region table for sample 11 : i 400**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
252	566	418	5,119.2	1,363.52	1,016.1	93	15.2	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_005.xad

Created: 1/3/2013 4:14:52 PM  
Modified: 1/3/2013 5:02:14 PM

**Gel Image**





Assay Class: High Sensitivity DNA Assay Created: 1/3/2013 4:14:52 PM  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-03\2013-01-03\_005.xad Modified: 1/3/2013 5:02:14 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		1/3/2013 4:56:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-01-03\2013-01-03_005.xad)		Instrument	Run		1/3/2013 4:14:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/3/2013 4:14:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/3/2013 4:14:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/3/2013 4:14:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/3/2013 4:14:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/3/2013 4:14:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/3/2013 4:14:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1