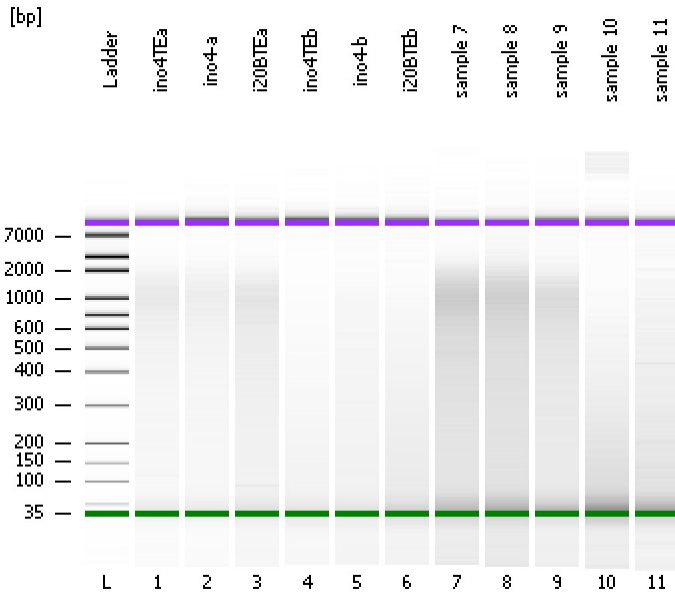


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
Modified: 10/27/2014 11:17:11 AM

### Electrophoresis File Run Summary



#### Instrument Information:

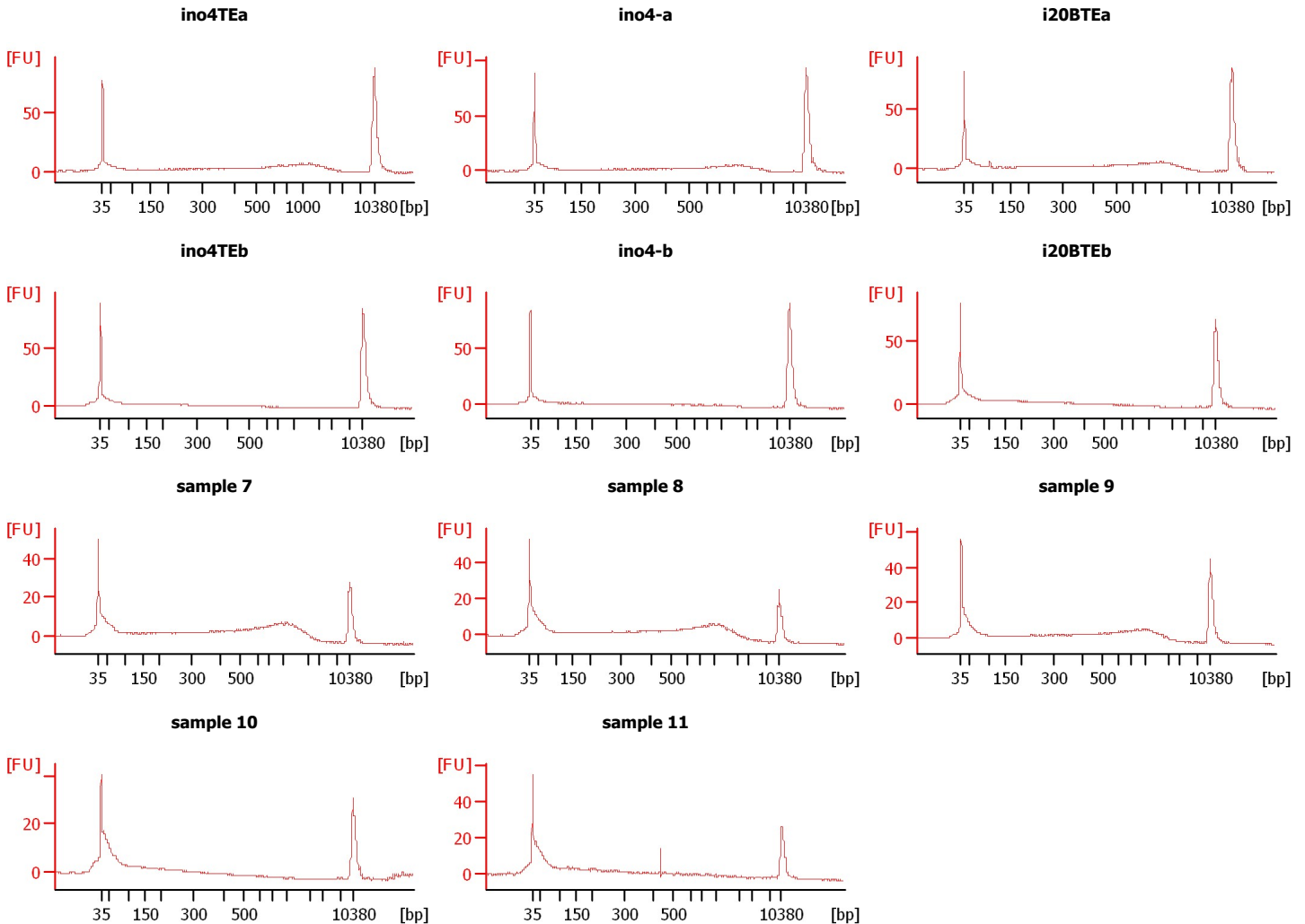
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ino4TEa		<input type="checkbox"/>	✓			
ino4-a		<input type="checkbox"/>	✓			
i20BTEa		<input type="checkbox"/>	✓			
ino4TEb		<input type="checkbox"/>	✓			
ino4-b		<input type="checkbox"/>	✓			
i20BTEb		<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\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
Modified: 10/27/2014 11:17:11 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

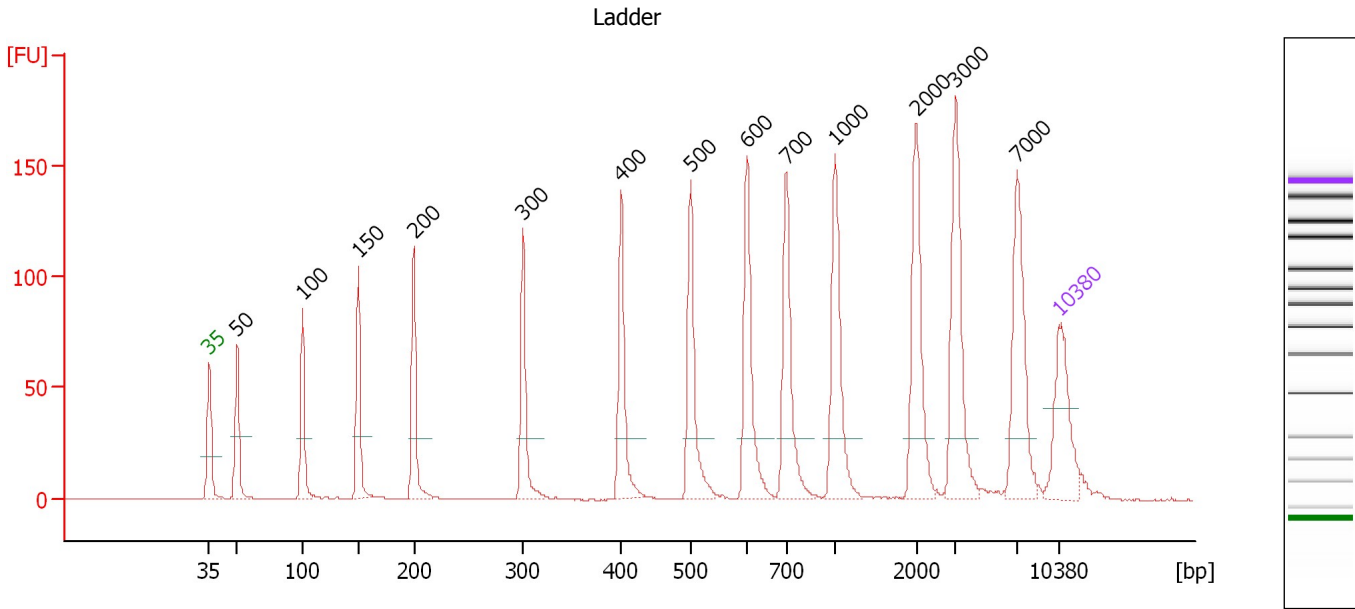
**Ladder**

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\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

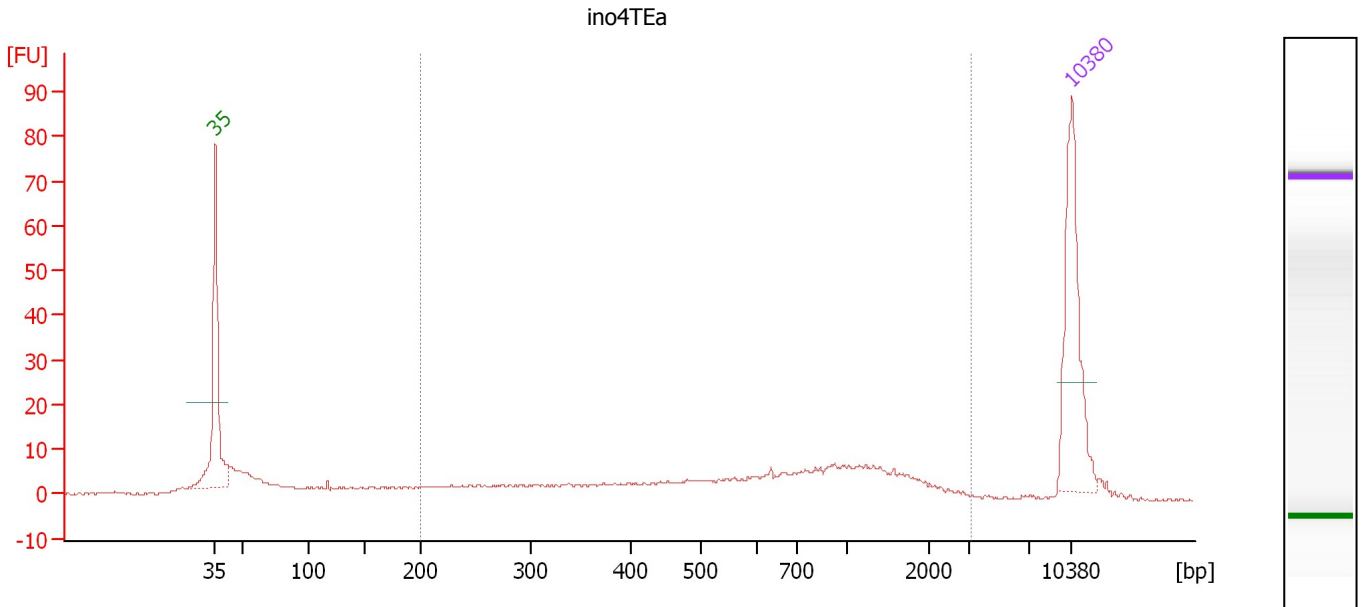
**Peak table for Ladder**

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : ino4TEa**

Number of peaks found: 0                      Corr. Area 1: 212.1  
 Noise: 0.2

**Peak table for sample 1 : ino4TEa**

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

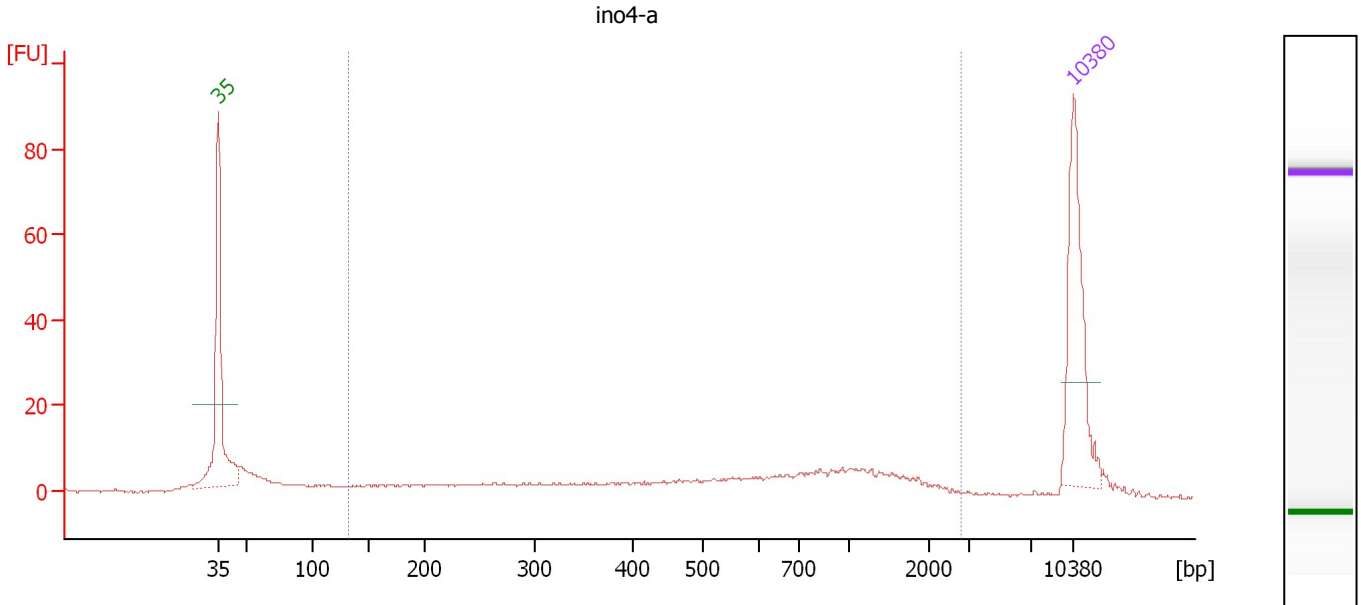
**Region table for sample 1 : ino4TEa**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	821	3,220	212.1	68	68.3	205.72	663.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : ino4-a**

Number of peaks found: 0                      Corr. Area 1: 199.4  
 Noise: 0.2

**Peak table for sample 2 : ino4-a**

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

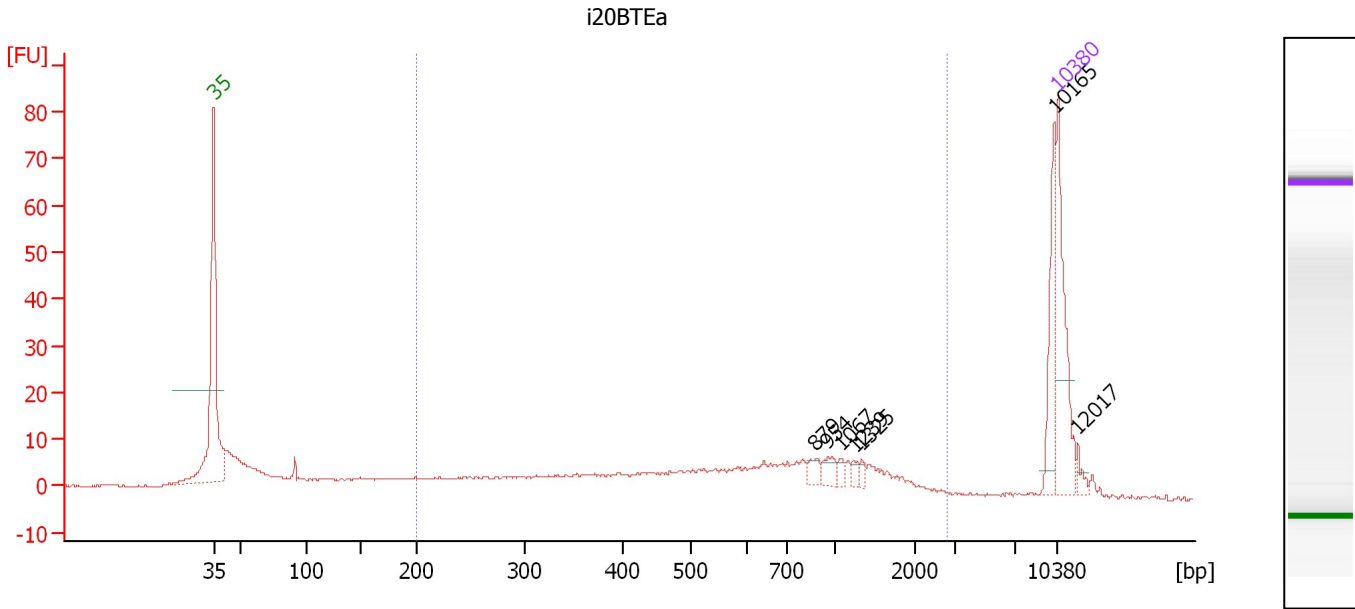
**Region table for sample 2 : ino4-a**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
132	741	2,792	199.4	74	71.2	191.50	783.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : i20BTEa**

Number of peaks found: 7                      Corr. Area 1: 240.3  
 Noise: 0.1

**Peak table for sample 3 : i20BTEa**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	879	9.50	16.4	
3	954	11.18	17.8	
4	1,067	4.98	7.1	
5	1,239	4.28	5.2	
6	1,325	4.20	4.8	
7	10,165	43.23	6.4	
8	10,380	75.00	10.9	Upper Marker
9	12,017	0.00	0.0	

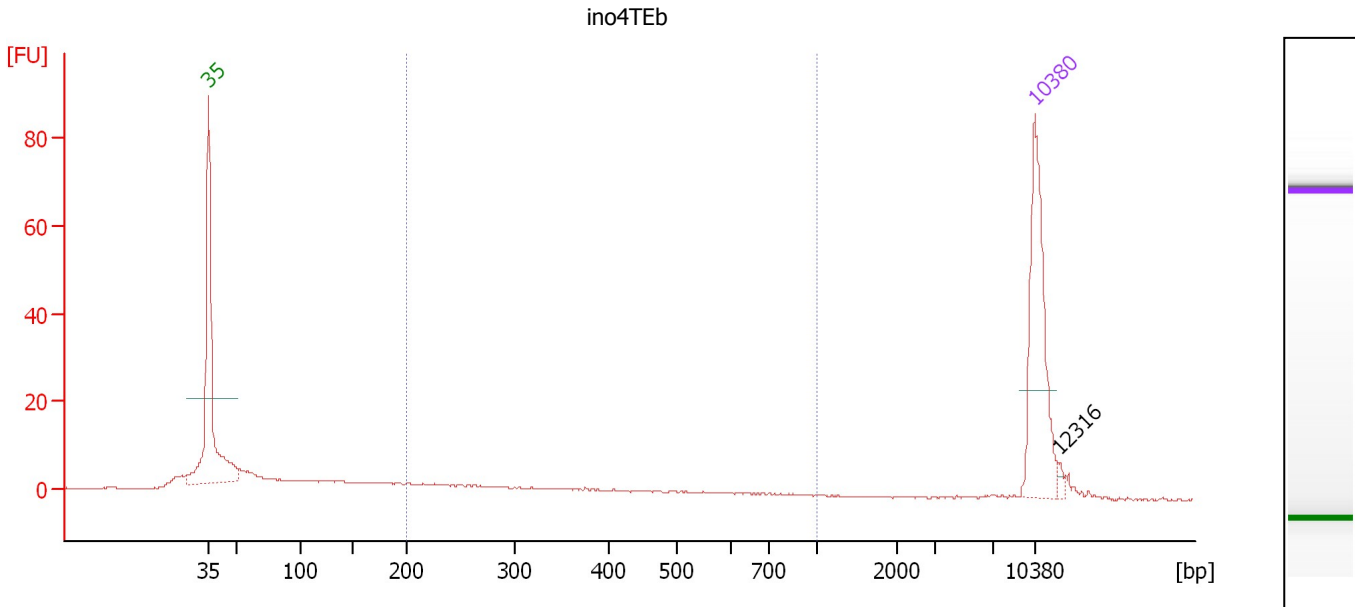
**Region table for sample 3 : i20BTEa**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	731	2,806	240.3	61	65.8	377.51	1,278.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : ino4TEb**

Number of peaks found: 1                      Corr. Area 1: 47.9  
 Noise: 0.2

**Peak table for sample 4 : ino4TEb**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	12,316	0.00	0.0	

**Region table for sample 4 : ino4TEb**

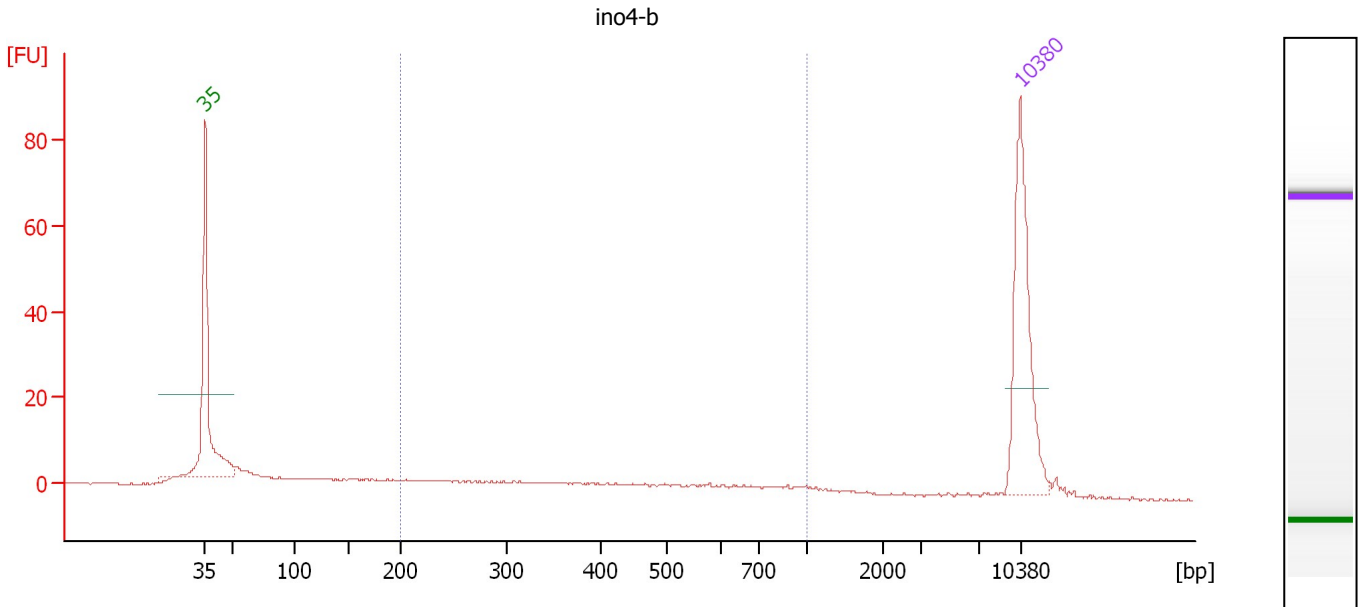
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	371	1,000	47.9	32	42.3	52.20	258.6	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : ino4-b**

Number of peaks found: 0                      Corr. Area 1: 81.3  
 Noise: 0.2

**Peak table for sample 5 : ino4-b**

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

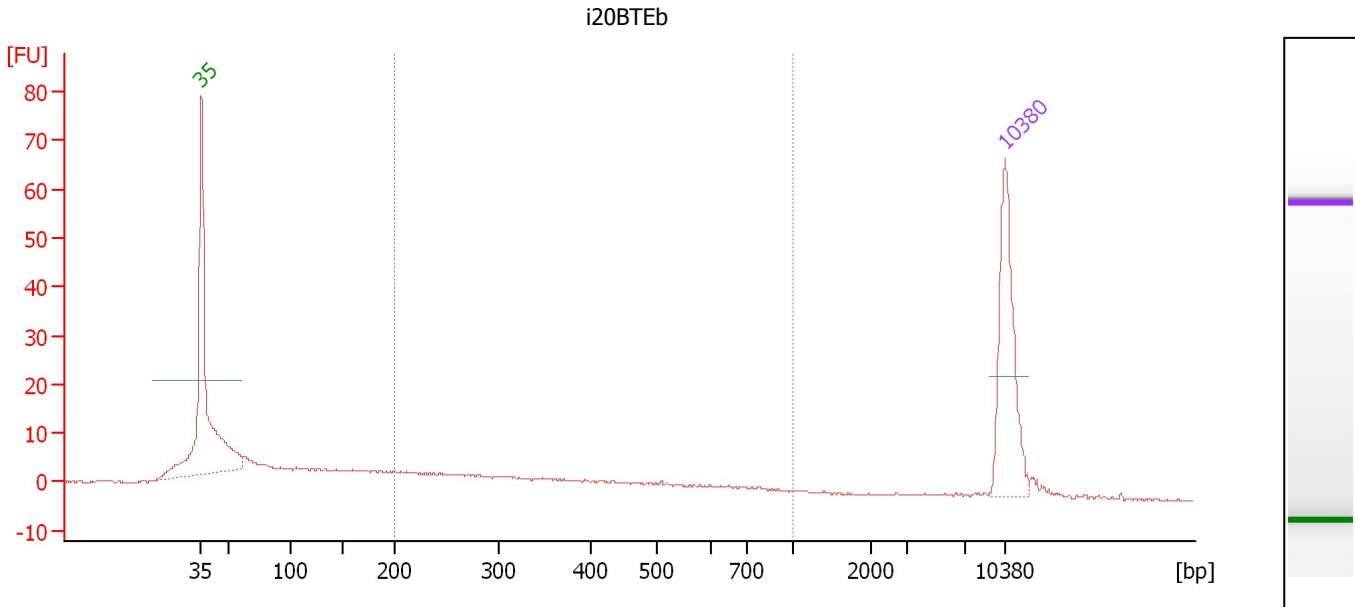
**Region table for sample 5 : ino4-b**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	447	1,000	81.3	50	43.4	77.65	336.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : i20BTEb**

Number of peaks found: 0                      Corr. Area 1: 93.2  
 Noise: 0.1

**Peak table for sample 6 : i20BTEb**

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

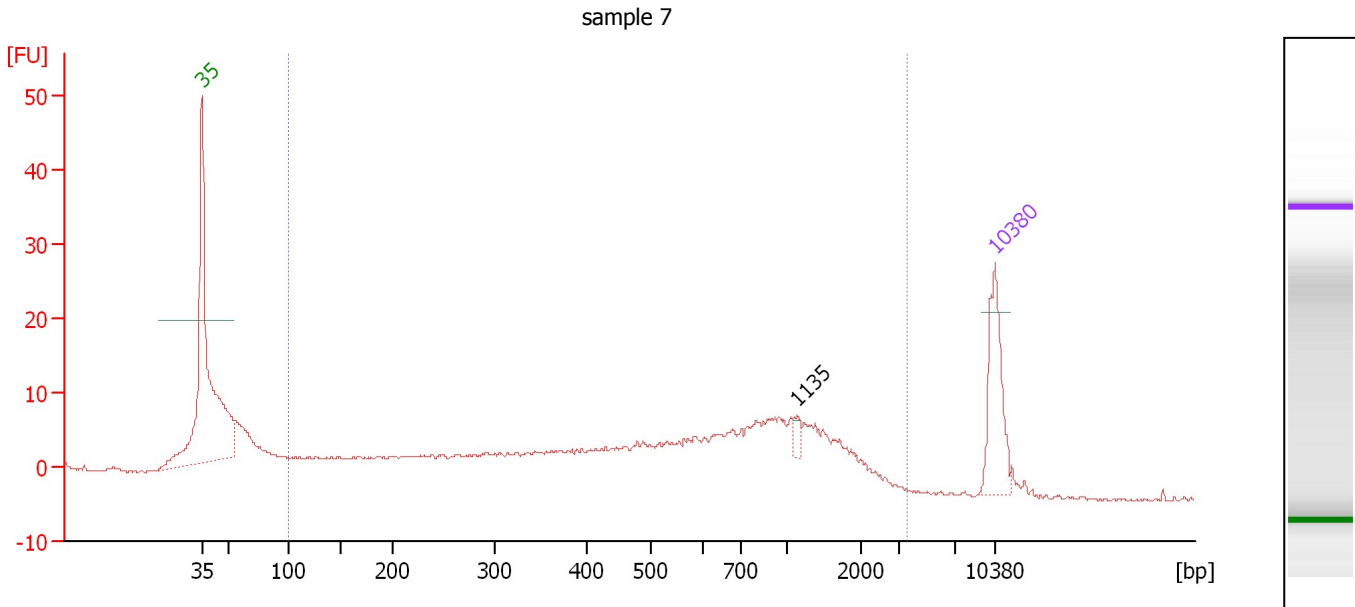
**Region table for sample 6 : i20BTEb**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	386	1,000	93.2	47	41.9	120.71	578.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 7**

Number of peaks found: 1      Corr. Area 1: 323.4  
 Noise: 0.2

**Peak table for sample 7 : sample 7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,135	8.81	11.8	
3	10,380	75.00	10.9	Upper Marker

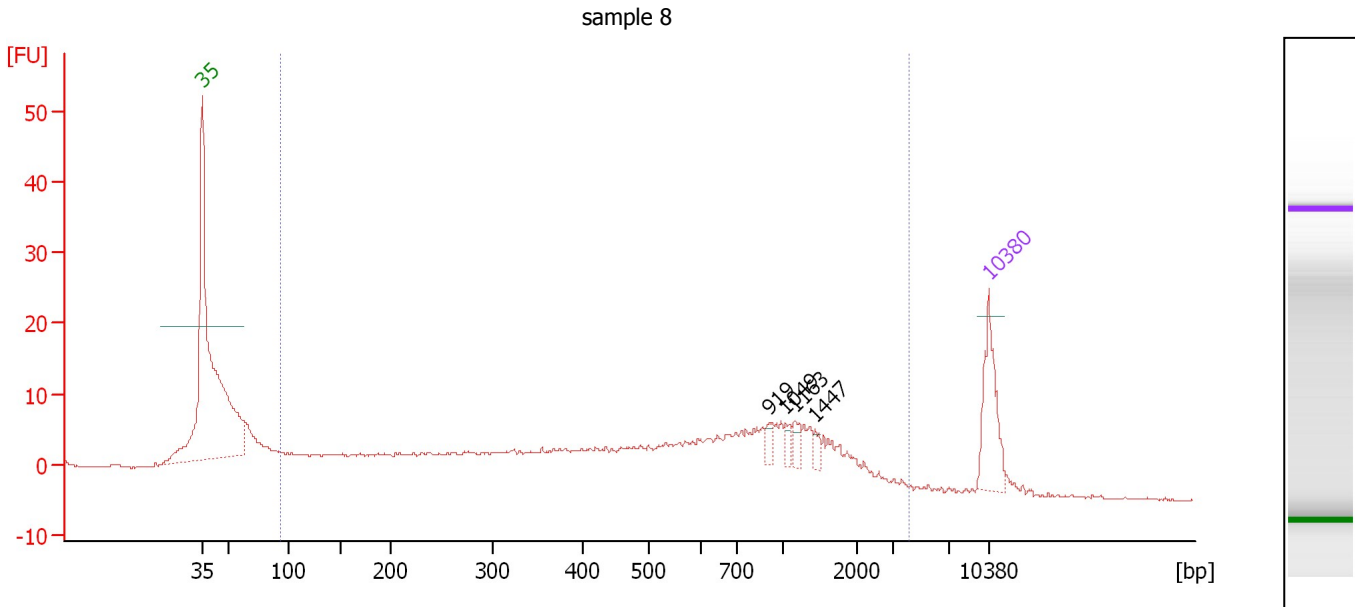
**Region table for sample 7 : sample 7**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
99	720	3,575	323.4	88	74.4	958.63	4,391.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 8**

Number of peaks found: 4                      Corr. Area 1: 328.5  
 Noise: 0.1

**Peak table for sample 8 : sample 8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	919	13.29	21.9	
3	1,049	11.46	16.5	
4	1,163	15.23	19.8	
5	1,447	10.23	10.7	
6	10,380	75.00	10.9	Upper Marker

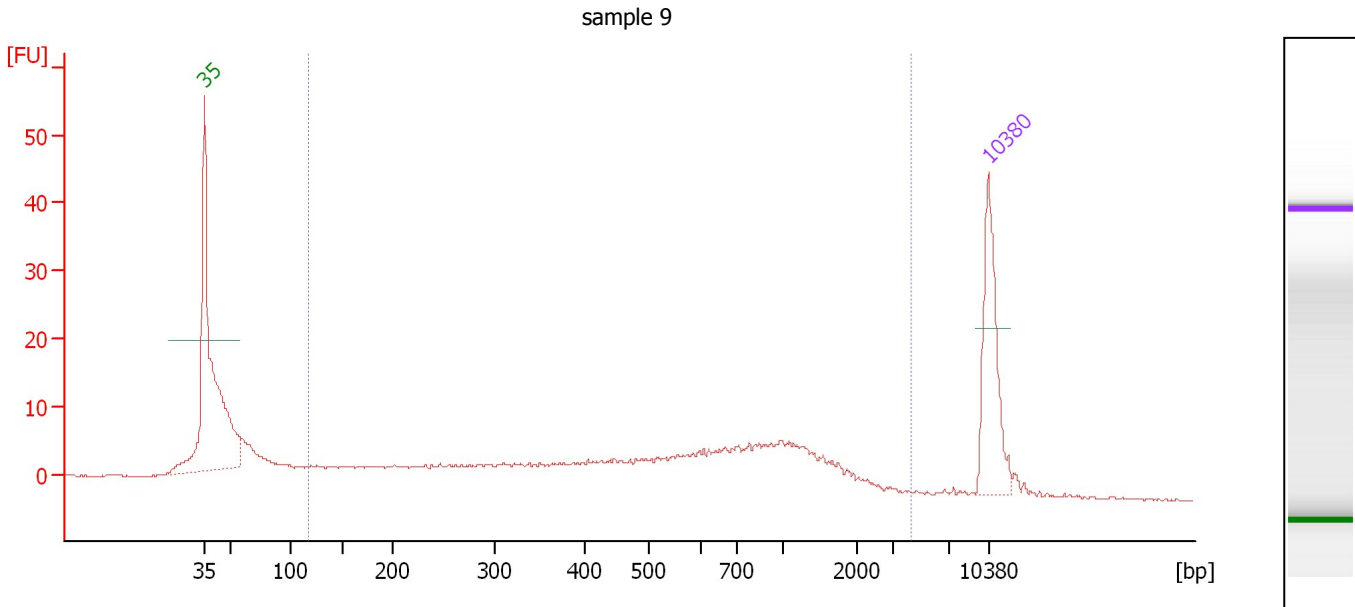
**Region table for sample 8 : sample 8**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
93	726	4,088	328.5	90	80.5	1,210.32	5,924.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 9**

Number of peaks found: 0                      Corr. Area 1: 242.2  
 Noise: 0.1

**Peak table for sample 9 : sample 9**

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

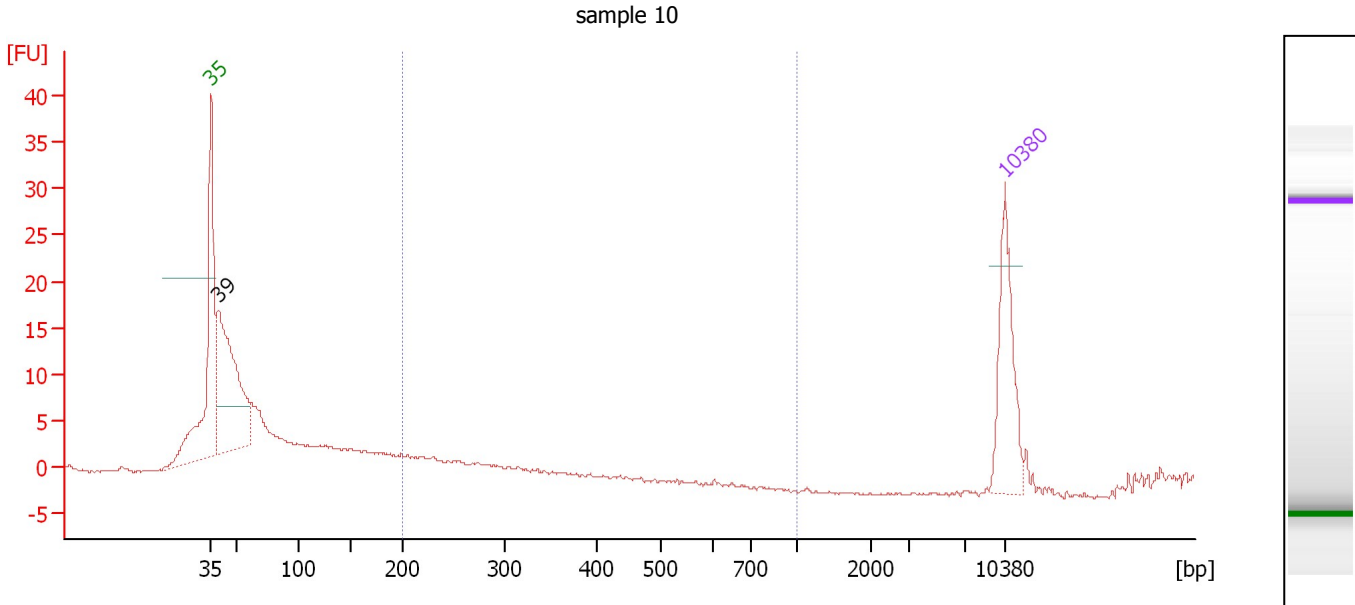
**Region table for sample 9 : sample 9**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
117	699	4,251	242.2	84	75.3	463.91	2,035.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : sample 10**

Number of peaks found: 1                      Corr. Area 1: 19.7  
 Noise: 0.1

**Peak table for sample 10 : sample 10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	277.35	10,687.1	
3	10,380	75.00	10.9	Upper Marker

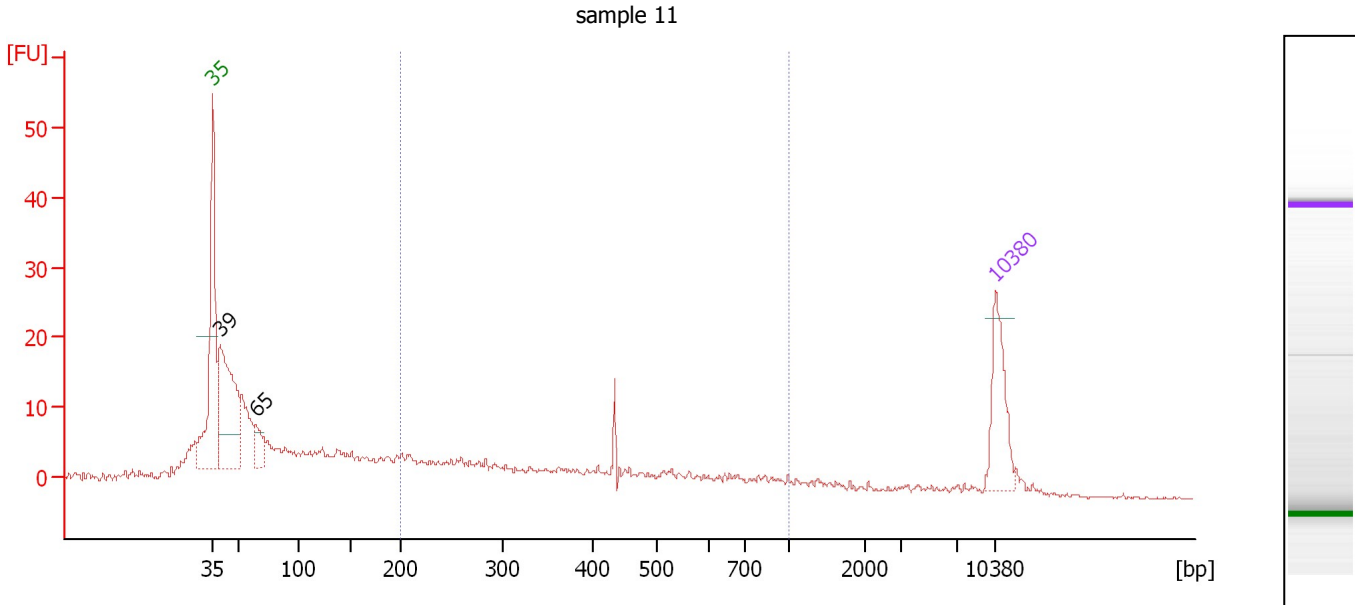
**Region table for sample 10 : sample 10**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	253	1,000	19.7	11	15.3	63.00	383.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 11**

Number of peaks found: 2                      Corr. Area 1: 93.5  
 Noise: 0.2

**Peak table for sample 11 : sample 11**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	308.14	11,855.9	
3	65	43.77	1,027.1	
4	10,380	75.00	10.9	Upper Marker

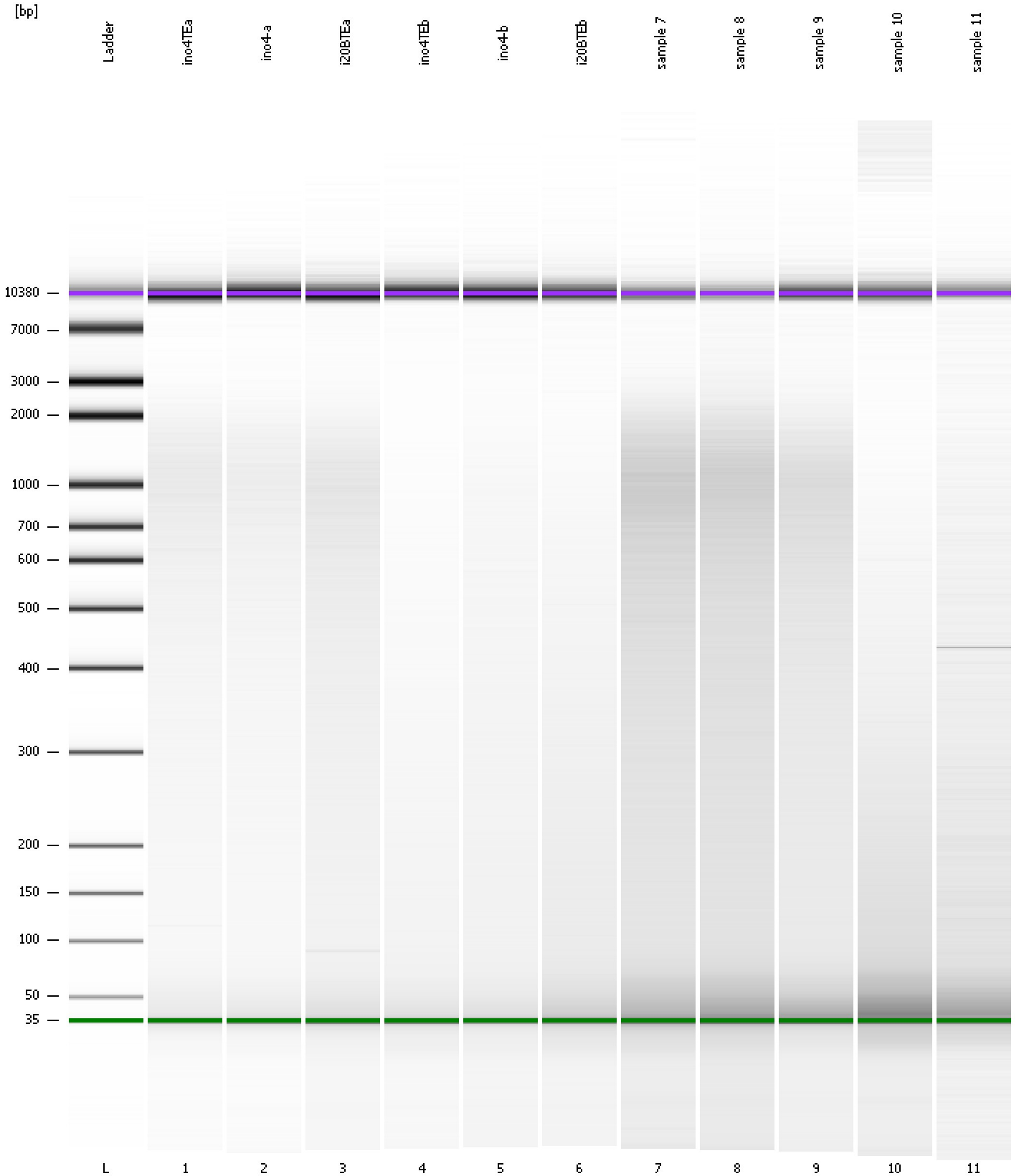
**Region table for sample 11 : sample 11**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	410	1,000	93.5	31	43.7	322.12	1,494.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
Modified: 10/27/2014 11:17:11 AM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-27\2014-10-27\_002.xad

Created: 10/27/2014 10:35:48 AM  
 Modified: 10/27/2014 11:17:11 AM

**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		10/27/2014 11:17:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-27\2014-10-27_002.xad)		Instrument	Run		10/27/2014 10:35:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/27/2014 10:35:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/27/2014 10:35:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/27/2014 10:35:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/27/2014 10:35:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/27/2014 10:35:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/27/2014 10:35:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1