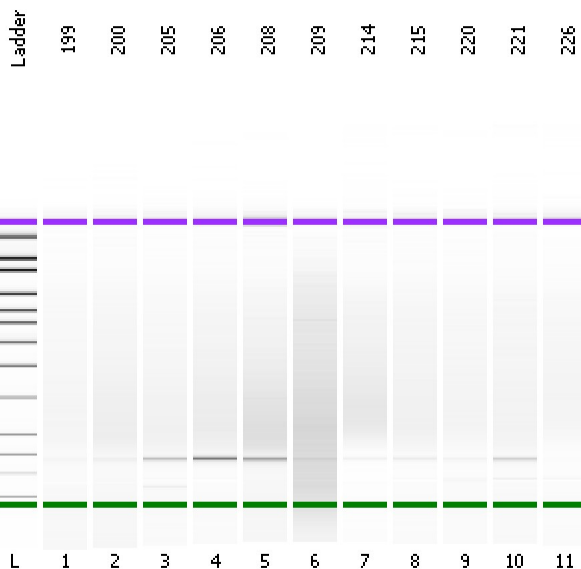


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_19-48-03.xad

Created: 12/16/2016 7:48:03 PM
Modified: 12/16/2016 8:29:25 PM

Electrophoresis File Run Summary

[bp]



Instrument Information:

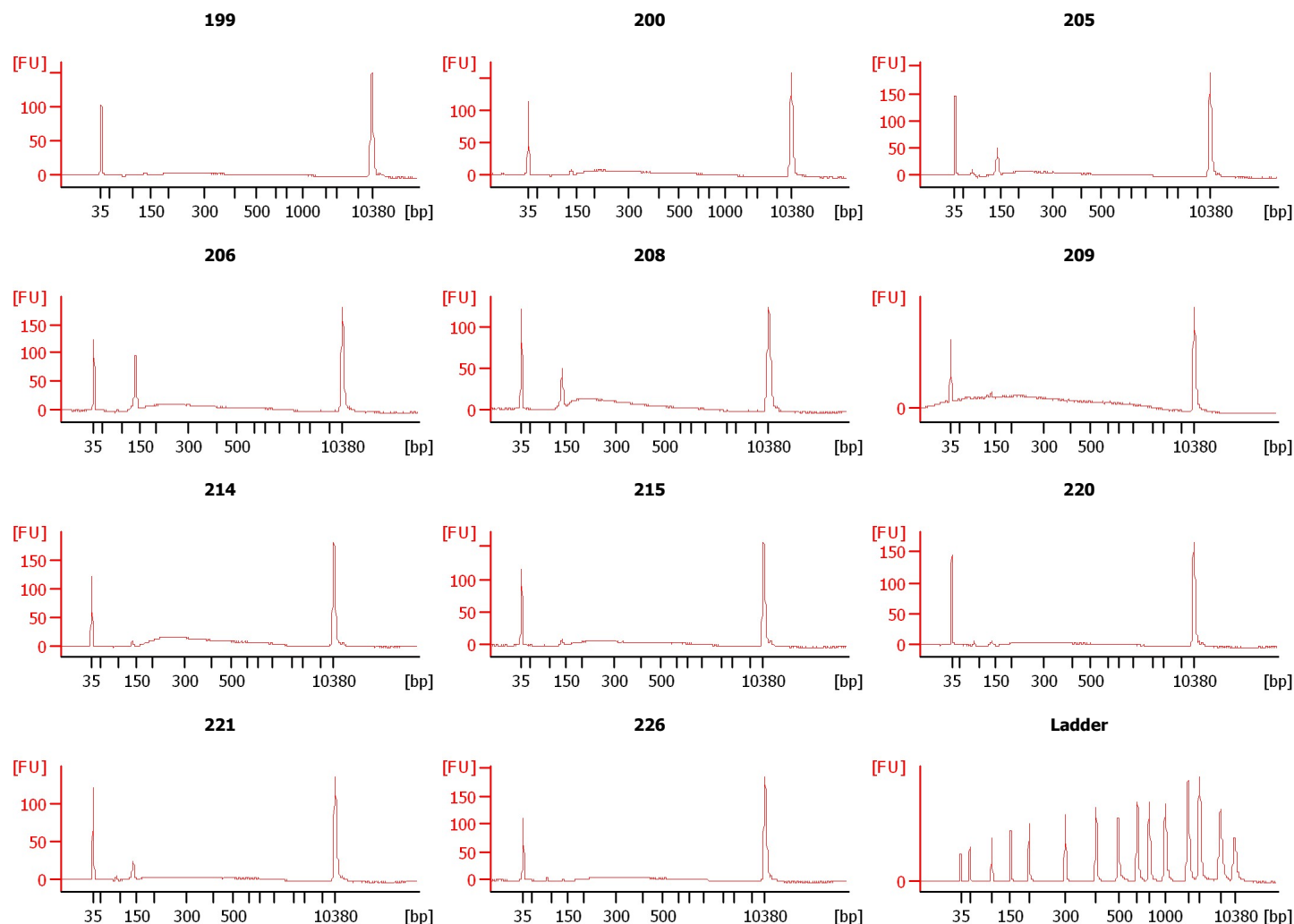
Instrument Name: DE72902486 Firmware: C.01.069
Serial#: DE72902486 Type: G2939A

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: 1.0
Assay Comments: Copyright © 2003-2009 Agilent Technologies

Chip Information:

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



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_19-48-03.xad

Created: 12/16/2016 7:48:03 PM
Modified: 12/16/2016 8:29:25 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Stat us	Observation	Result Label	Result Color
199		<input type="checkbox"/>	✓			
200		<input type="checkbox"/>	✓			
205		<input type="checkbox"/>	✓			
206		<input type="checkbox"/>	✓			
208		<input type="checkbox"/>	✓			
209		<input type="checkbox"/>	✓			
214		<input type="checkbox"/>	✓			
215		<input type="checkbox"/>	✓			
220		<input type="checkbox"/>	✓			
221		<input type="checkbox"/>	✓			
226		<input type="checkbox"/>	✓			

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_19-48-03.xad

Created: 12/16/2016 7:48:03 PM
Modified: 12/16/2016 8:29:25 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

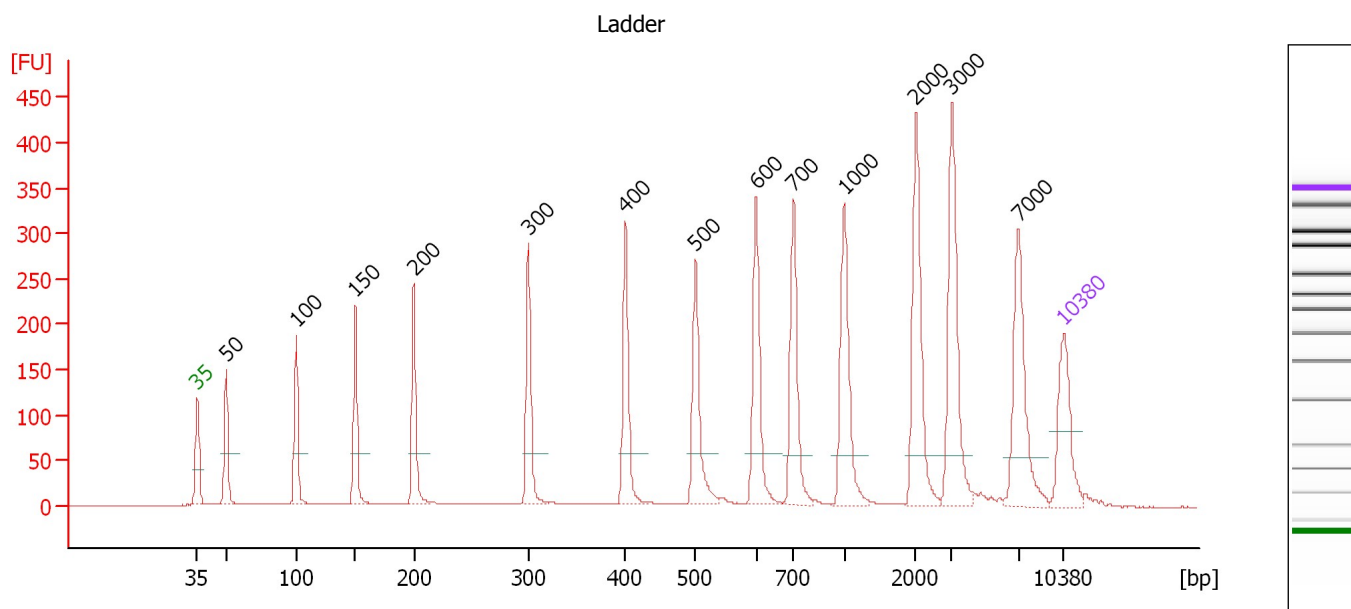
Ladder

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:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_19-48-03.xad

Created: 12/16/2016 7:48:03 PM
 Modified: 12/16/2016 8:29:25 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

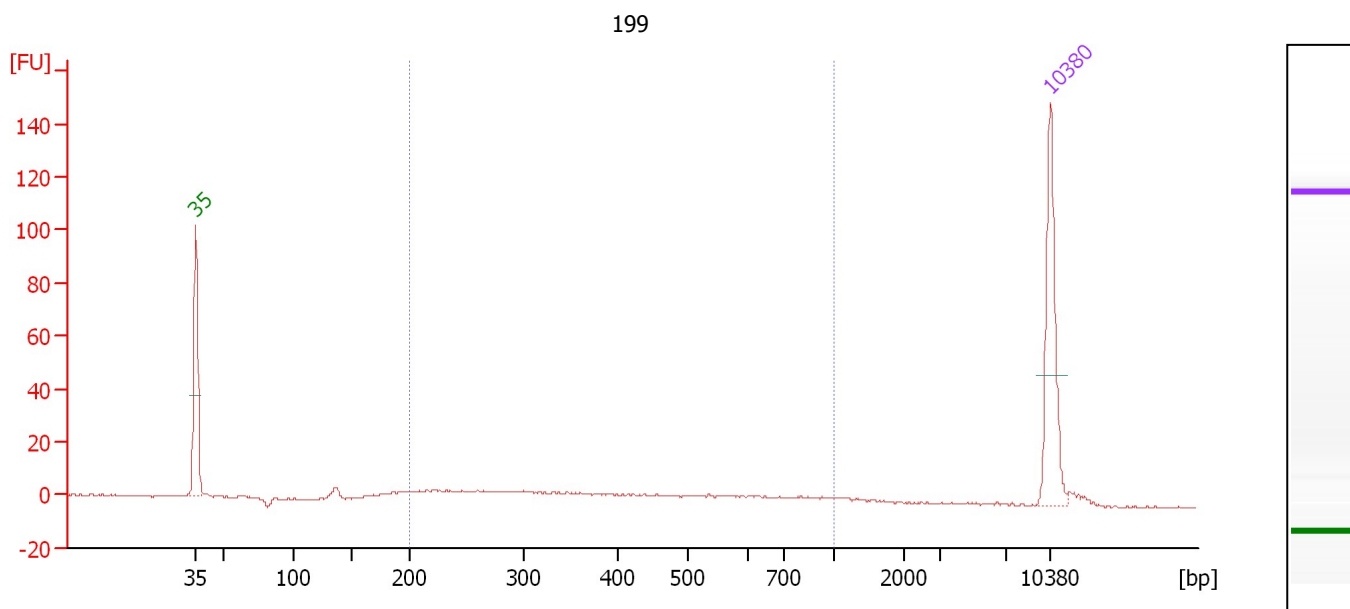
Peak table for Ladder

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:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_19-48-03.xad

Created: 12/16/2016 7:48:03 PM
 Modified: 12/16/2016 8:29:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 199

Number of peaks found: 0
 Noise: 0.4
 Corr. Area 1: 126.8

Peak table for sample 1 : 199

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

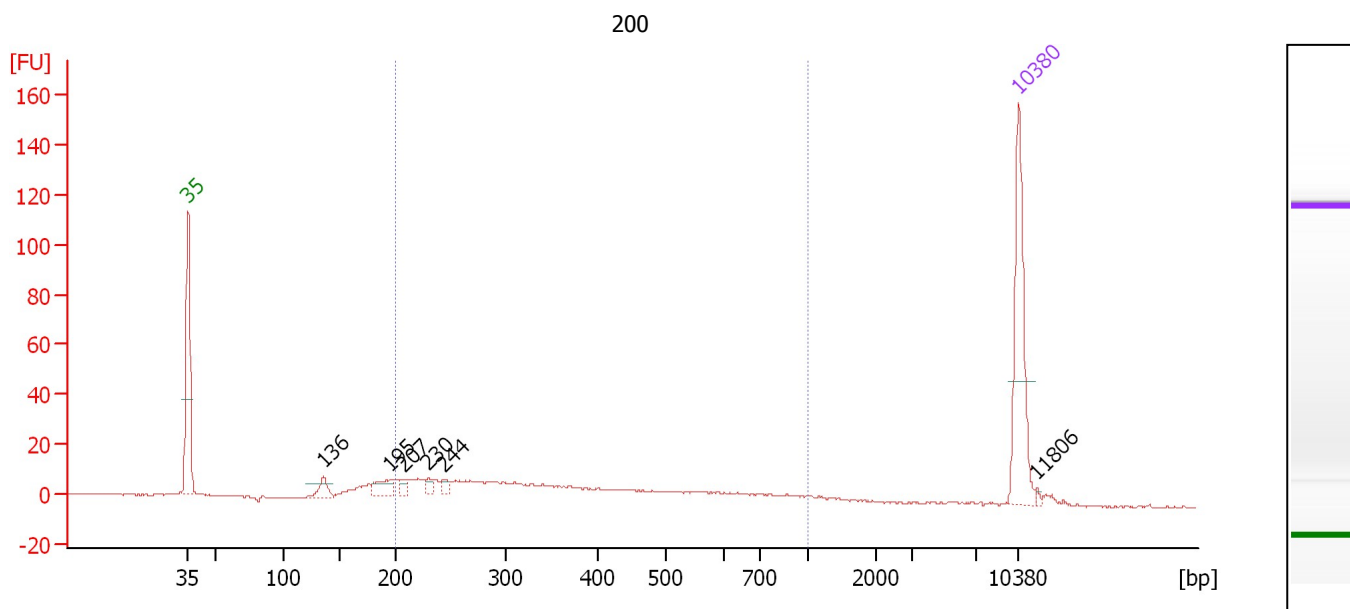
Region table for sample 1 : 199

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	126.8	74	428	44.0	121.66	547.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_19-48-03.xad

Created: 12/16/2016 7:48:03 PM
 Modified: 12/16/2016 8:29:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 200

Number of peaks found: 6 Corr. Area 1: 241.9
 Noise: 0.3

Peak table for sample 2 : 200

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	136	15.67	174.6	
3	195	19.67	152.4	
4	207	7.10	52.0	
5	230	6.46	42.6	
6	244	6.90	42.9	
7	10,380	75.00	10.9	Upper Marker
8	11,806	0.00	0.0	

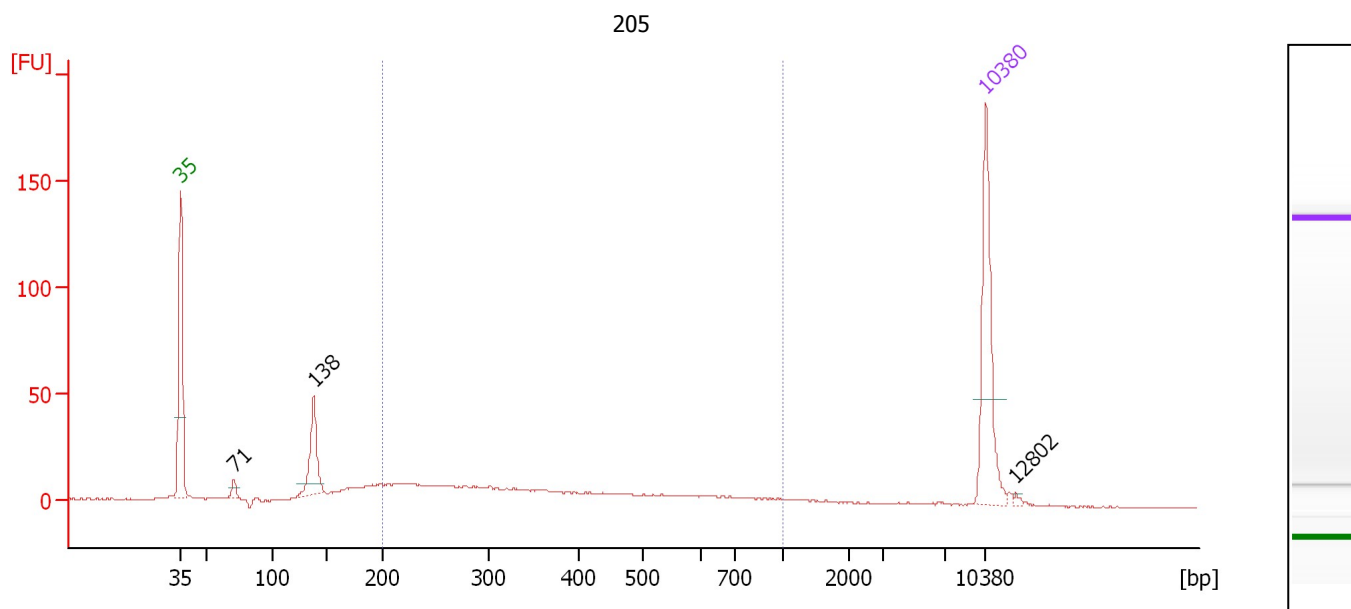
Region table for sample 2 : 200

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	241.9	75	395	44.2	216.26	1,032.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_19-48-03.xad

Created: 12/16/2016 7:48:03 PM
 Modified: 12/16/2016 8:29:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 205

Number of peaks found: 3 Corr. Area 1: 259.2
 Noise: 0.3

Peak table for sample 3 : 205

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	71	9.20	196.9	
3	138	60.52	665.9	
4	10,380	75.00	10.9	Upper Marker
5	12,802	0.00	0.0	

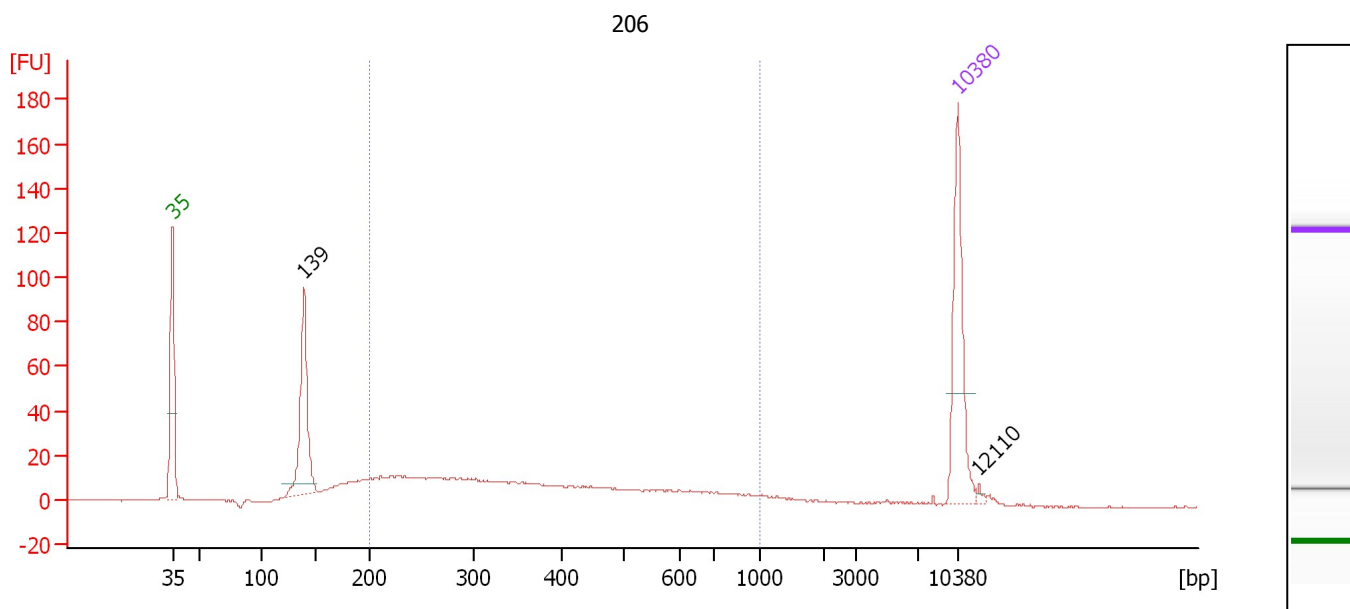
Region table for sample 3 : 205

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	259.2	57	391	43.9	194.90	935.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_19-48-03.xad

Created: 12/16/2016 7:48:03 PM
 Modified: 12/16/2016 8:29:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 206

Number of peaks found: 2 Corr. Area 1: 395.6
 Noise: 0.3

Peak table for sample 4 : 206

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	139	129.22	1,405.1	
3	10,380	75.00	10.9	Upper Marker
4	12,110	0.00	0.0	

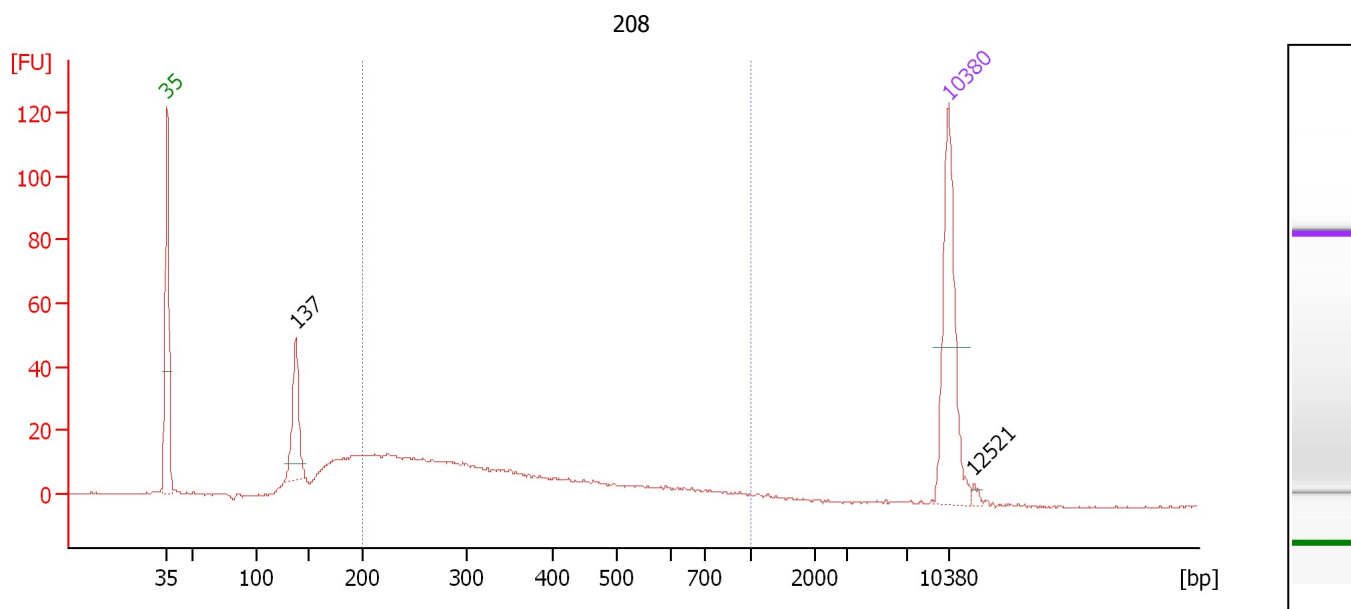
Region table for sample 4 : 206

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	395.6	60	400	43.3	299.42	1,408.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_19-48-03.xad

Created: 12/16/2016 7:48:03 PM
 Modified: 12/16/2016 8:29:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 208

Number of peaks found: 2 Corr. Area 1: 368.9
 Noise: 0.3

Peak table for sample 5 : 208

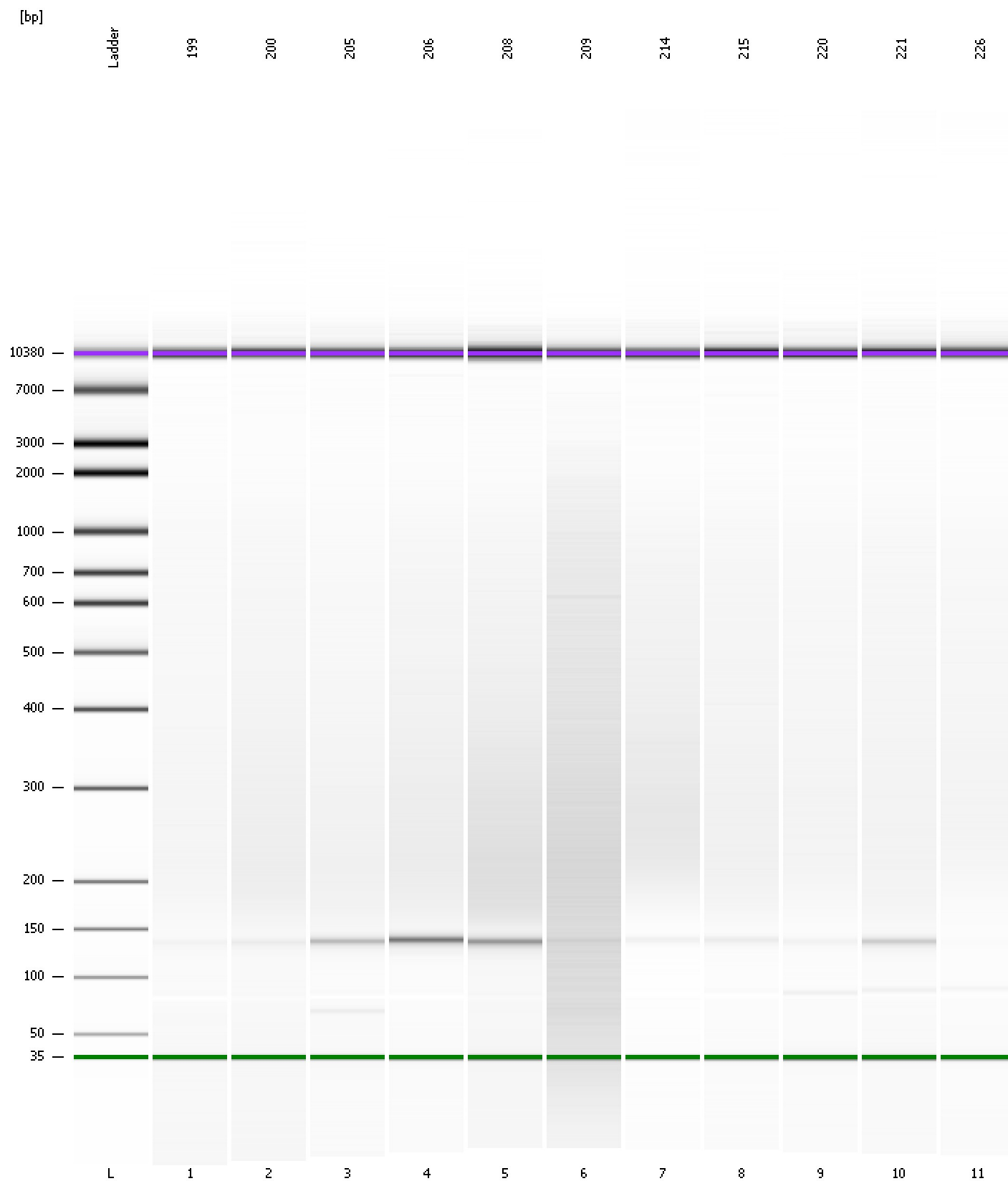
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	137	61.37	678.7	
3	10,380	75.00	10.9	Upper Marker
4	12,521	0.00	0.0	

Region table for sample 5 : 208

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	368.9	65	366	42.6	300.47	1,500.6	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_19-48-03.xad

Created: 12/16/2016 7:48:03 PM
Modified: 12/16/2016 8:29:25 PM

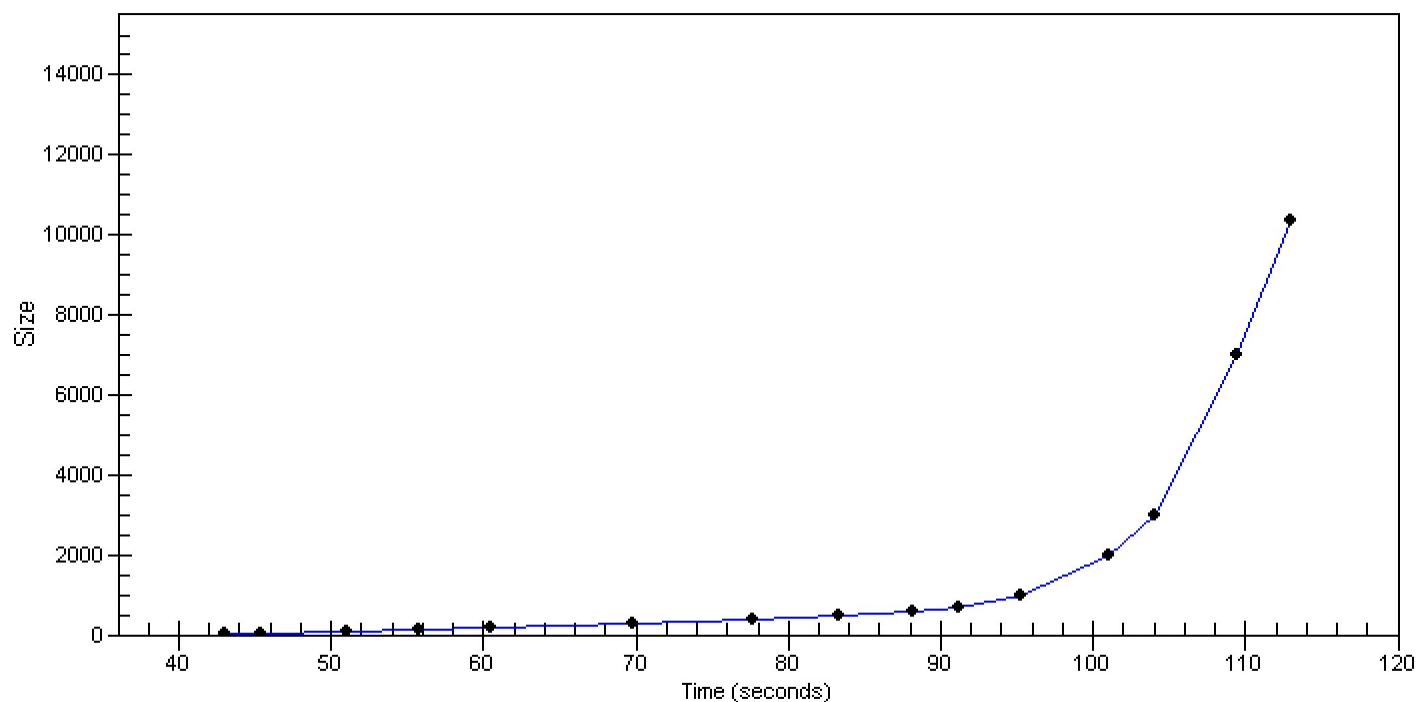
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_19-48-03.xad

Created: 12/16/2016 7:48:03 PM
Modified: 12/16/2016 8:29:25 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72902486_2016-12-16_19-48-03.xad

Created: 12/16/2016 7:48:03 PM
 Modified: 12/16/2016 8:29:25 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time Stamp	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		12/16/2016 8:29:19 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2016-12-16\2100 expert_High Sensitivity DNA Assay_DE72902486_2016-12-16_19-48-03.xad)		Instrument	Run		12/16/2016 7:48:08 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Product Number : G2939A		Instrument	Run		12/16/2016 7:48:08 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Name :		Instrument	Run		12/16/2016 7:48:08 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Vendor : Agilent Technologies		Instrument	Run		12/16/2016 7:48:08 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Serial# : DE72902486		Instrument	Run		12/16/2016 7:48:08 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Firmware : C.01.069		Instrument	Run		12/16/2016 7:48:08 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Cartridge : Electrode		Instrument	Run		12/16/2016 7:48:08 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01