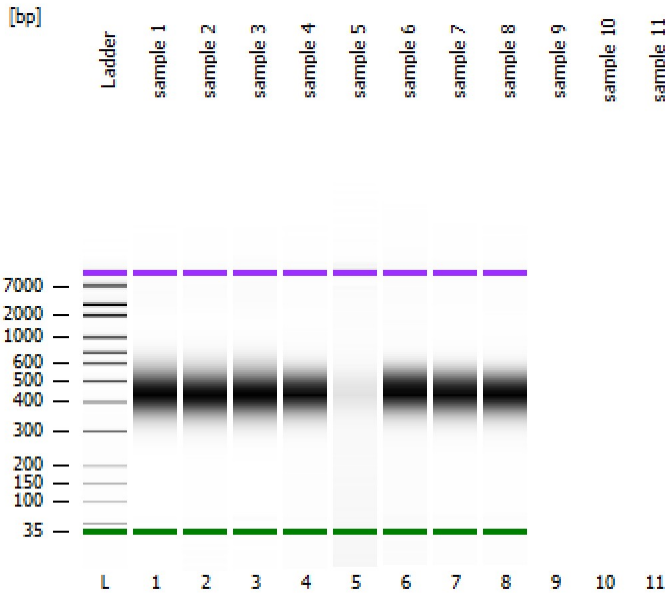


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...nalyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
Modified: 11/14/2019 1:19:49 PM

**Electrophoresis File Run Summary**



Instrument Information:

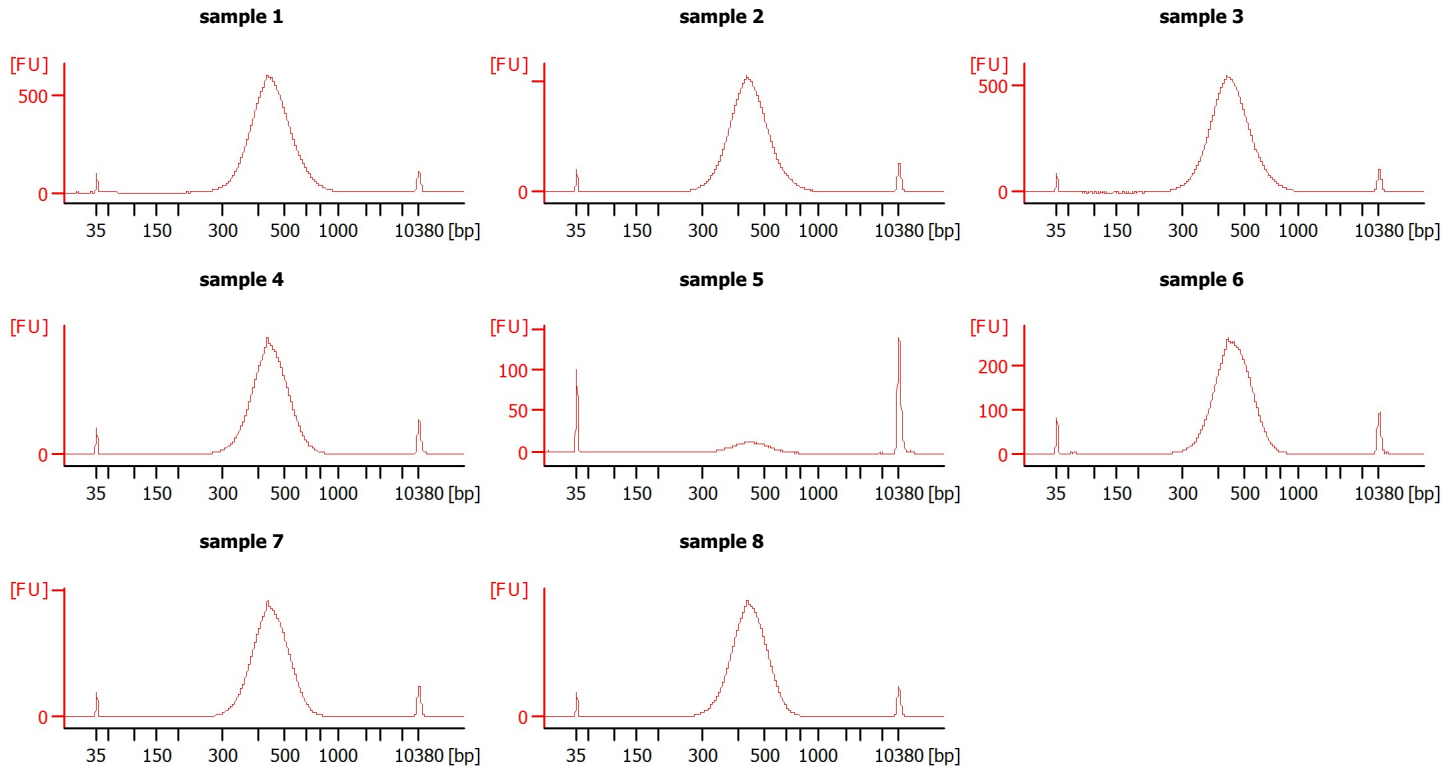
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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:\...nalyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
 Modified: 11/14/2019 1:19:49 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<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:\...nalyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
Modified: 11/14/2019 1:19:49 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

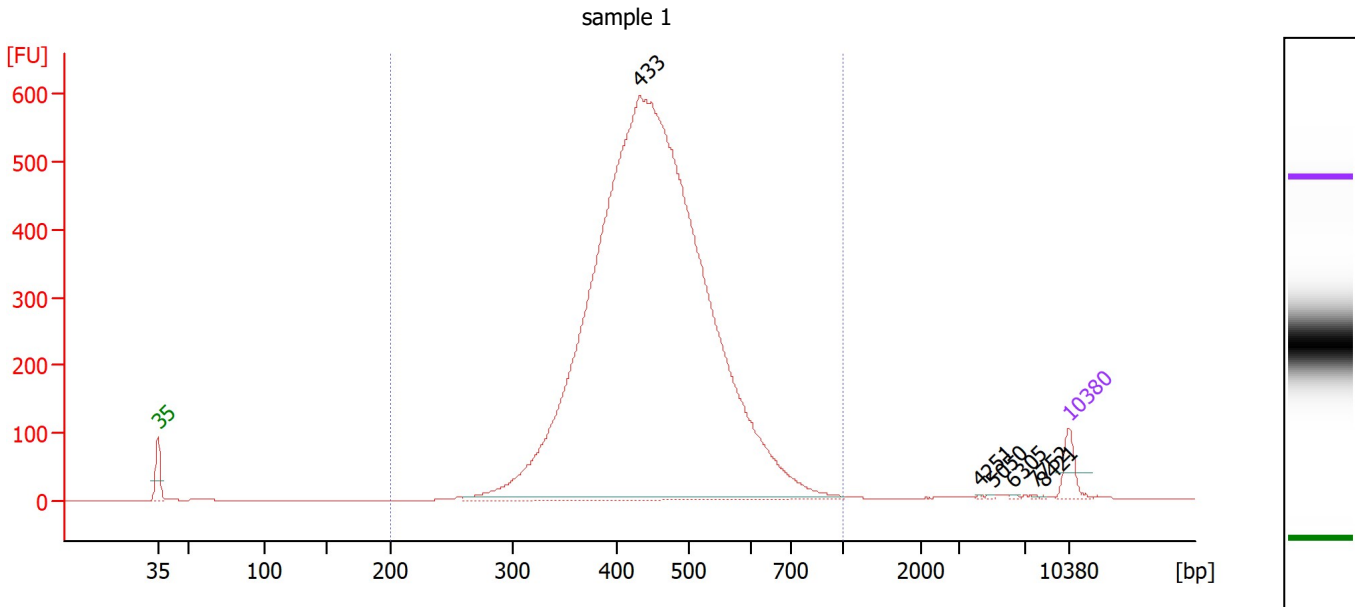
**Ladder**

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:\...analyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
 Modified: 11/14/2019 1:19:49 PM

**Electropherogram Summary**



**Overall Results for sample 1 : sample 1**

Number of peaks found: 6                      Corr. Area 1: 7,835.4  
 Noise: 0.3

**Peak table for sample 1 : sample 1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	433	8,601.17	30,127.1	
3	4,251	2.61	0.9	
4	5,050	3.25	1.0	
5	6,305	3.72	0.9	
6	7,752	2.72	0.5	
7	8,421	2.07	0.4	
8	10,380	75.00	10.9	Upper Marker

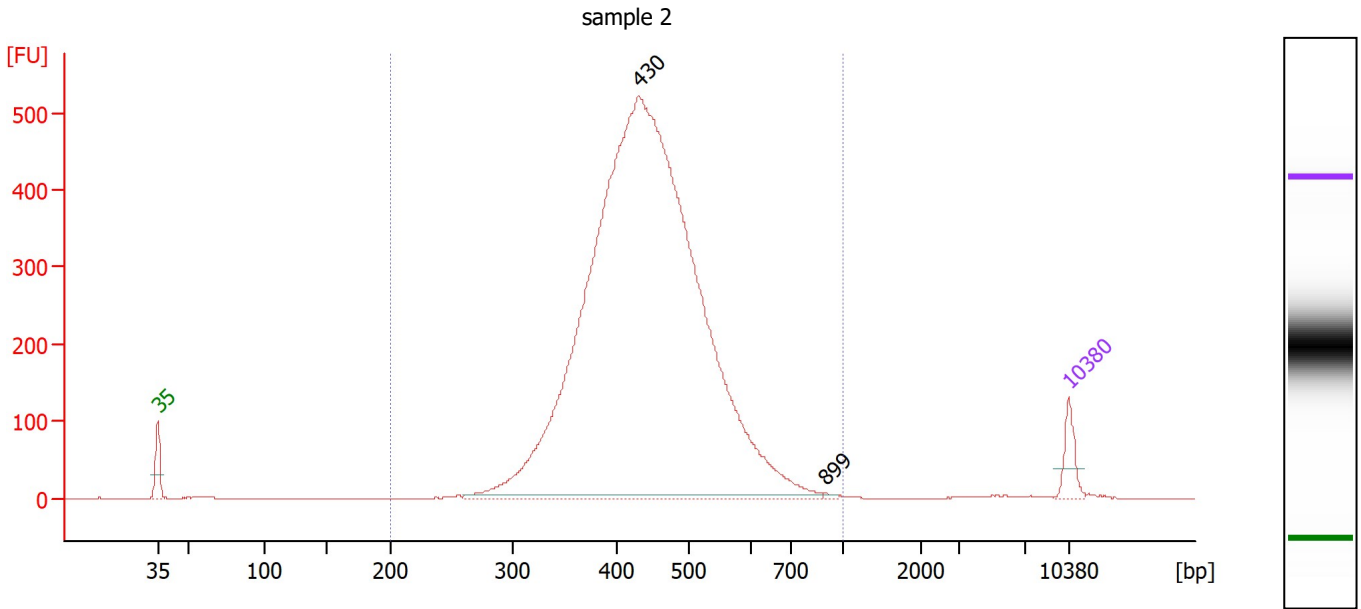
**Region table for sample 1 : sample 1**

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	7,835.4	98	455	18.3	8,643.08	29,974.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...analyzer1 XADs\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
 Modified: 11/14/2019 1:19:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 2**

Number of peaks found: 2                      Corr. Area 1: 6,623.8  
 Noise: 0.4

**Peak table for sample 2 : sample 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	430	6,574.35	23,152.7	
3	899	6.15	10.4	
4	10,380	75.00	10.9	Upper Marker

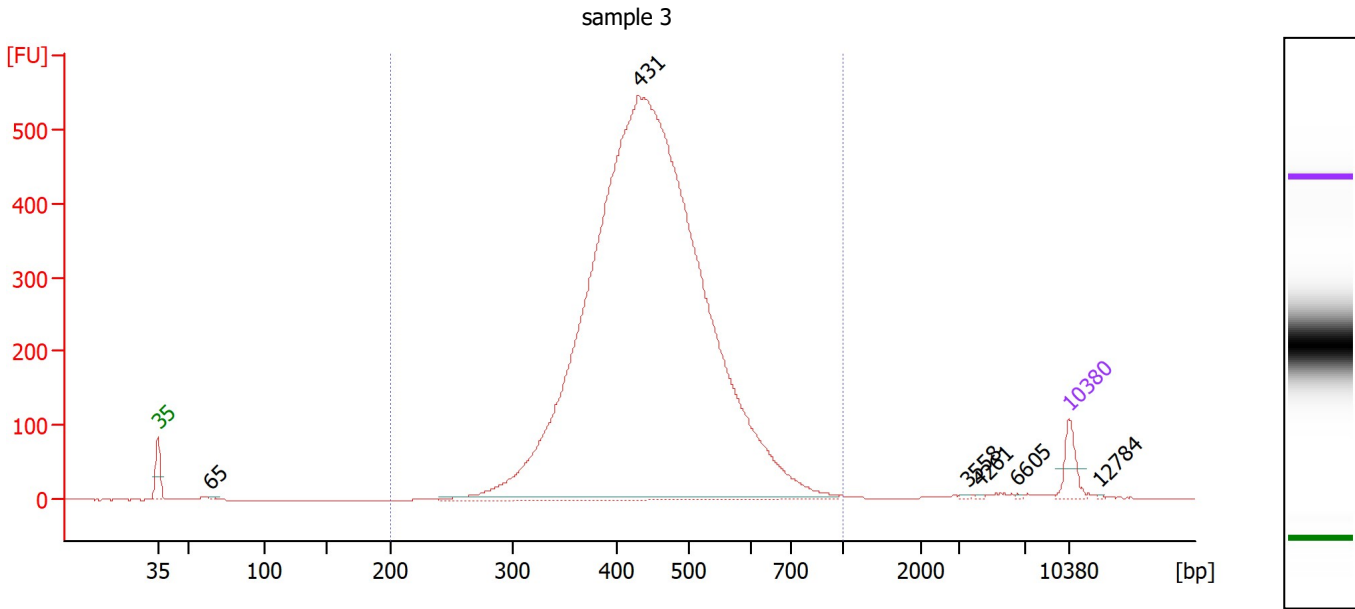
**Region table for sample 2 : sample 2**

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	6,623.8	99	447	17.9	6,648.11	23,409.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...analyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
 Modified: 11/14/2019 1:19:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 3**

Number of peaks found: 6                      Corr. Area 1: 7,121.8  
 Noise: 0.4

**Peak table for sample 3 : sample 3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	65	9.99	233.0	
3	431	8,050.79	28,308.1	
4	3,558	3.72	1.6	
5	4,261	3.53	1.3	
6	6,605	3.20	0.7	
7	10,380	75.00	10.9	Upper Marker
8	12,784	0.00	0.0	

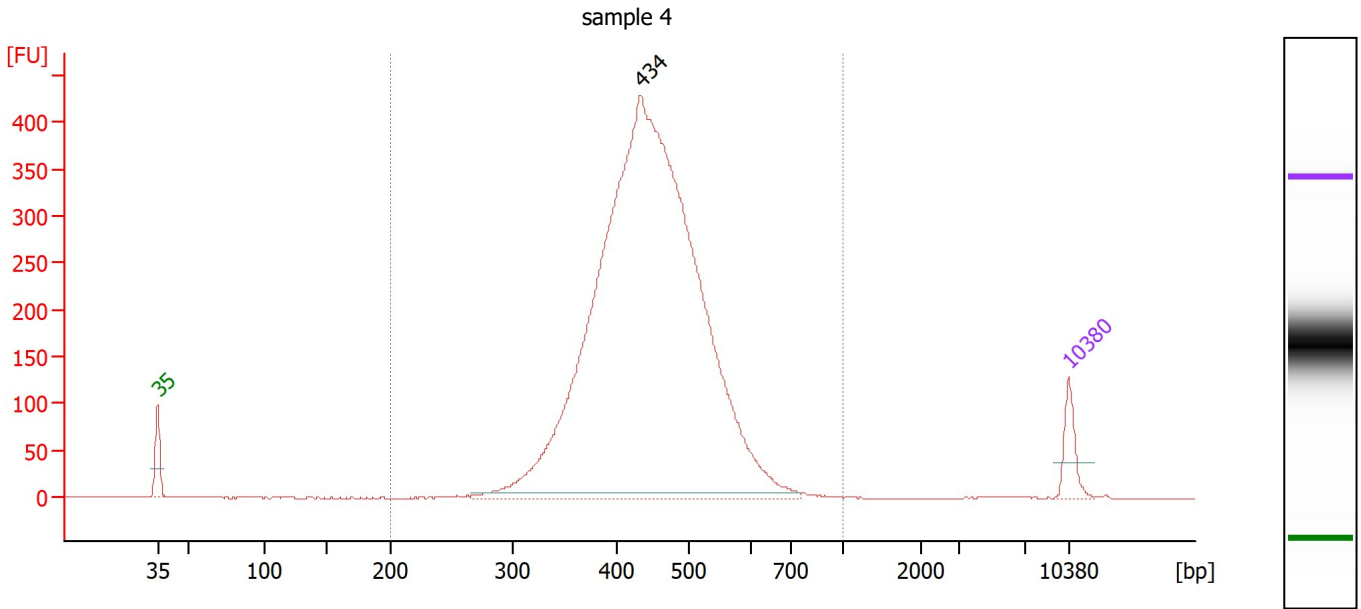
**Region table for sample 3 : sample 3**

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	7,121.8	98	452	18.4	8,072.26	28,194.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...nalyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
 Modified: 11/14/2019 1:19:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 4**

Number of peaks found: 1                      Corr. Area 1: 4,915.1  
 Noise: 0.3

**Peak table for sample 4 : sample 4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	434	4,787.18	16,705.6	
3	10,380	75.00	10.9	Upper Marker

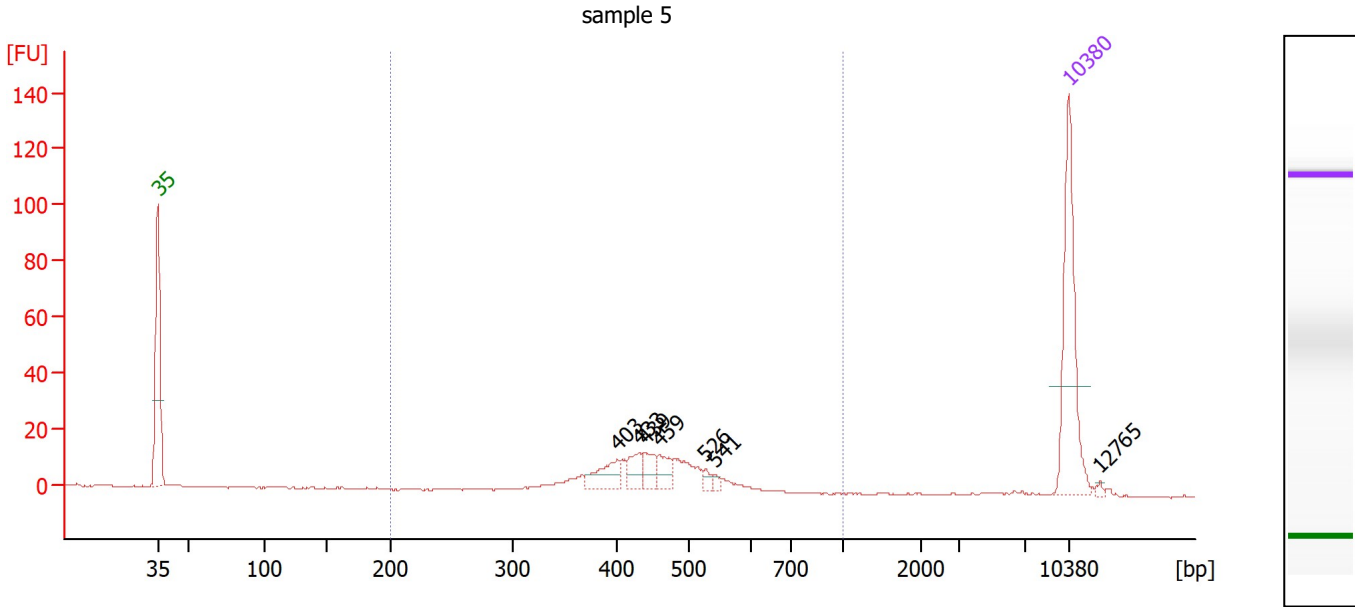
**Region table for sample 4 : sample 4**

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	4,915.1	99	449	16.1	4,828.96	16,809.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...nalyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
 Modified: 11/14/2019 1:19:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 5**

Number of peaks found: 7                      Corr. Area 1: 160.8  
 Noise: 0.2

**Peak table for sample 5 : sample 5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	403	23.43	88.2	
3	433	16.15	56.6	
4	439	13.34	46.1	
5	459	16.59	54.8	
6	526	4.70	13.5	
7	541	3.38	9.5	
8	10,380	75.00	10.9	Upper Marker
9	12,765	0.00	0.0	

**Region table for sample 5 : sample 5**

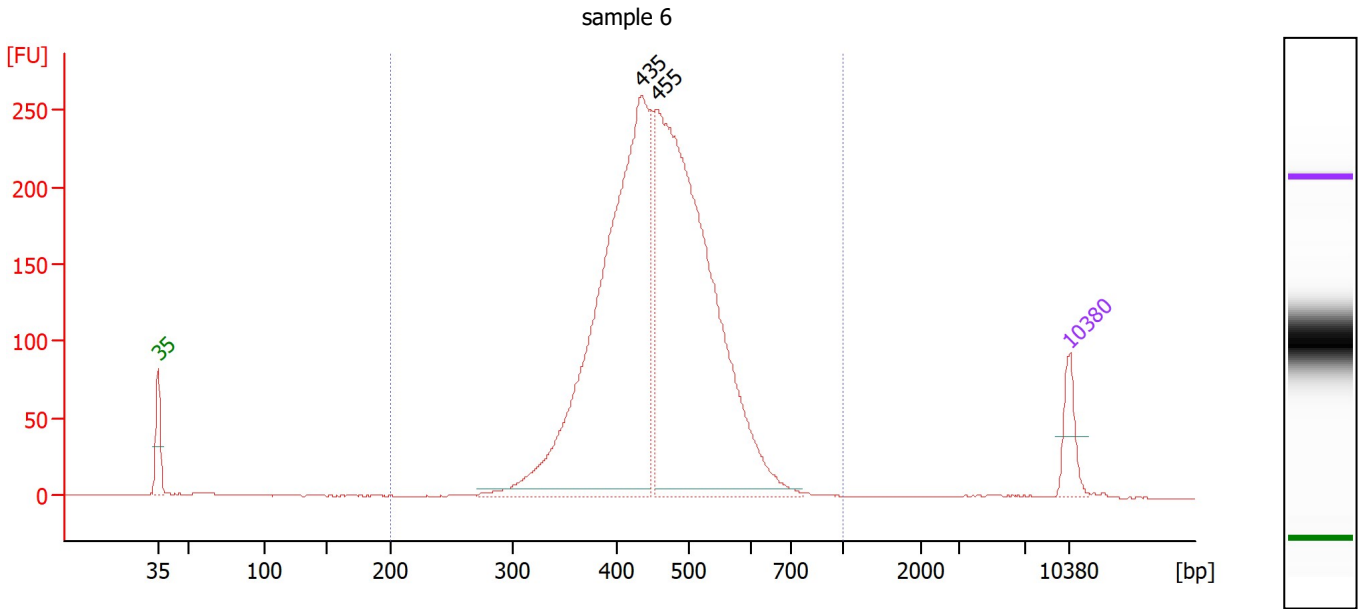
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	160.8	90	450	15.2	141.41	491.0	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...nalyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
 Modified: 11/14/2019 1:19:49 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 6**

Number of peaks found: 2                      Corr. Area 1: 3,121.8  
 Noise: 0.2

**Peak table for sample 6 : sample 6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	435	1,867.62	6,501.0	
3	455	1,986.04	6,616.4	
4	10,380	75.00	10.9	Upper Marker

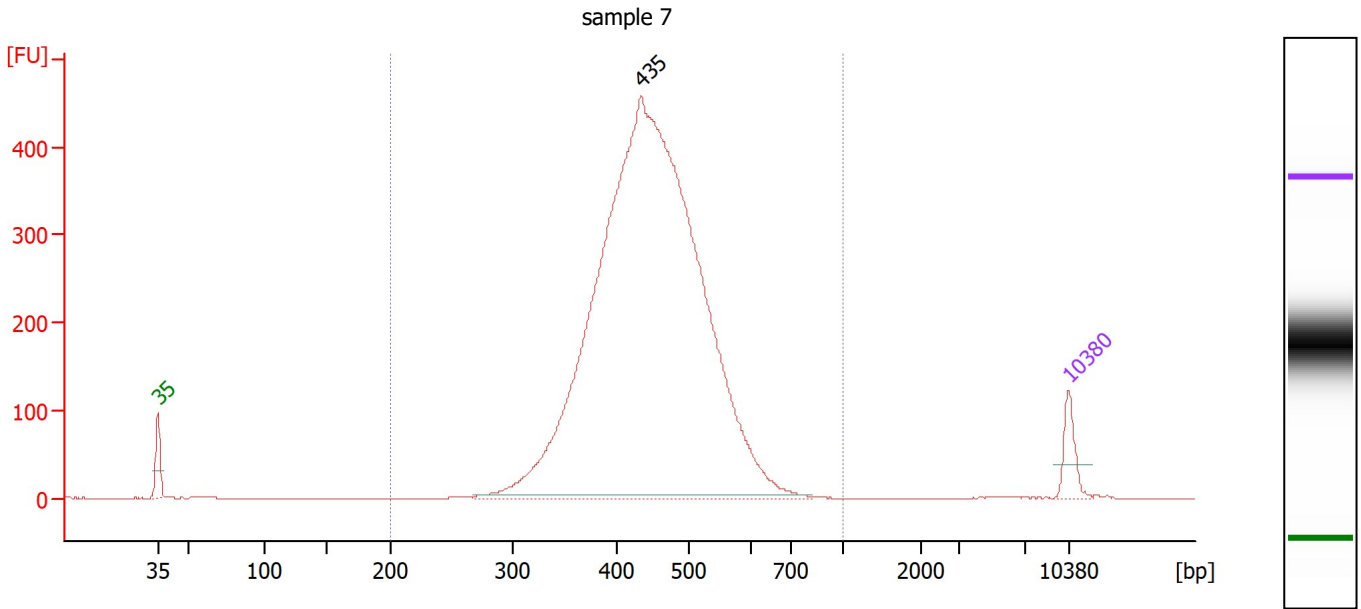
**Region table for sample 6 : sample 6**

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	3,121.8	98	459	15.8	3,945.02	13,431.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...analyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
 Modified: 11/14/2019 1:19:49 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 1                      Corr. Area 1: 5,288.9  
 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	435	5,120.69	17,839.2	
3	10,380	75.00	10.9	Upper Marker

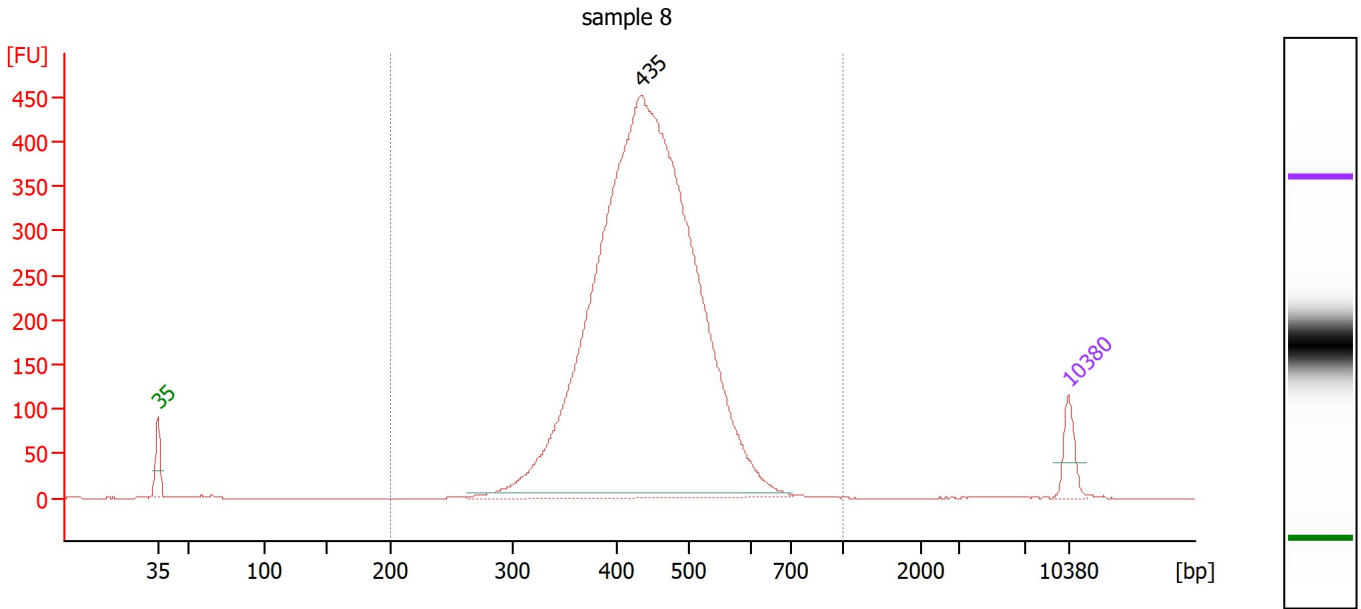
**Region table for sample 7 : sample 7**

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	5,288.9	99	450	15.6	5,137.83	17,829.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...nalyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
 Modified: 11/14/2019 1:19:49 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 1                      Corr. Area 1: 5,199.0  
 Noise: 0.2

**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	435	5,471.77	19,066.3	
3	10,380	75.00	10.9	Upper Marker

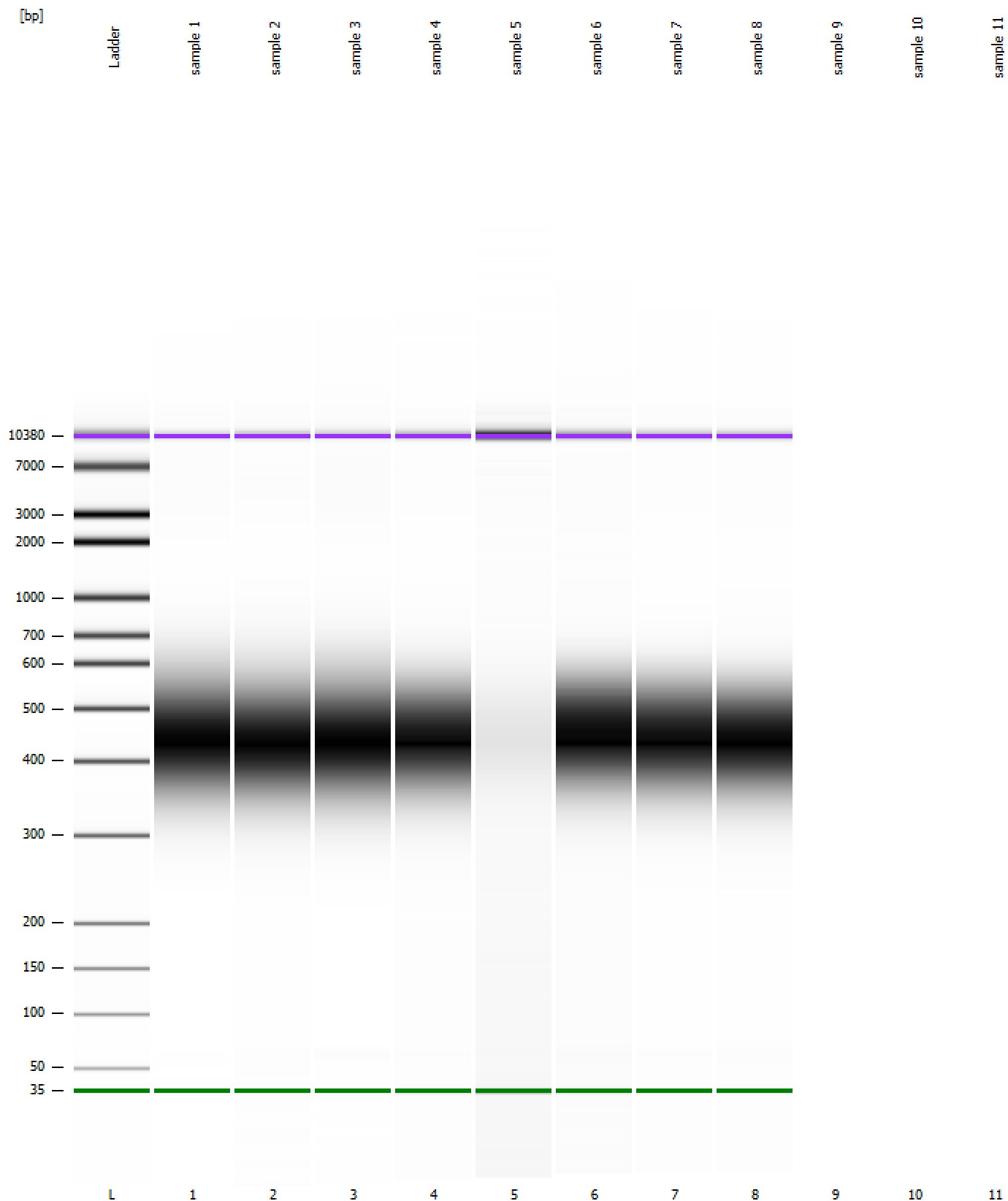
**Region table for sample 8 : sample 8**

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	5,199.0	98	445	15.5	5,576.73	19,540.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...nalyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
Modified: 11/14/2019 1:19:49 PM

**Gel Image**

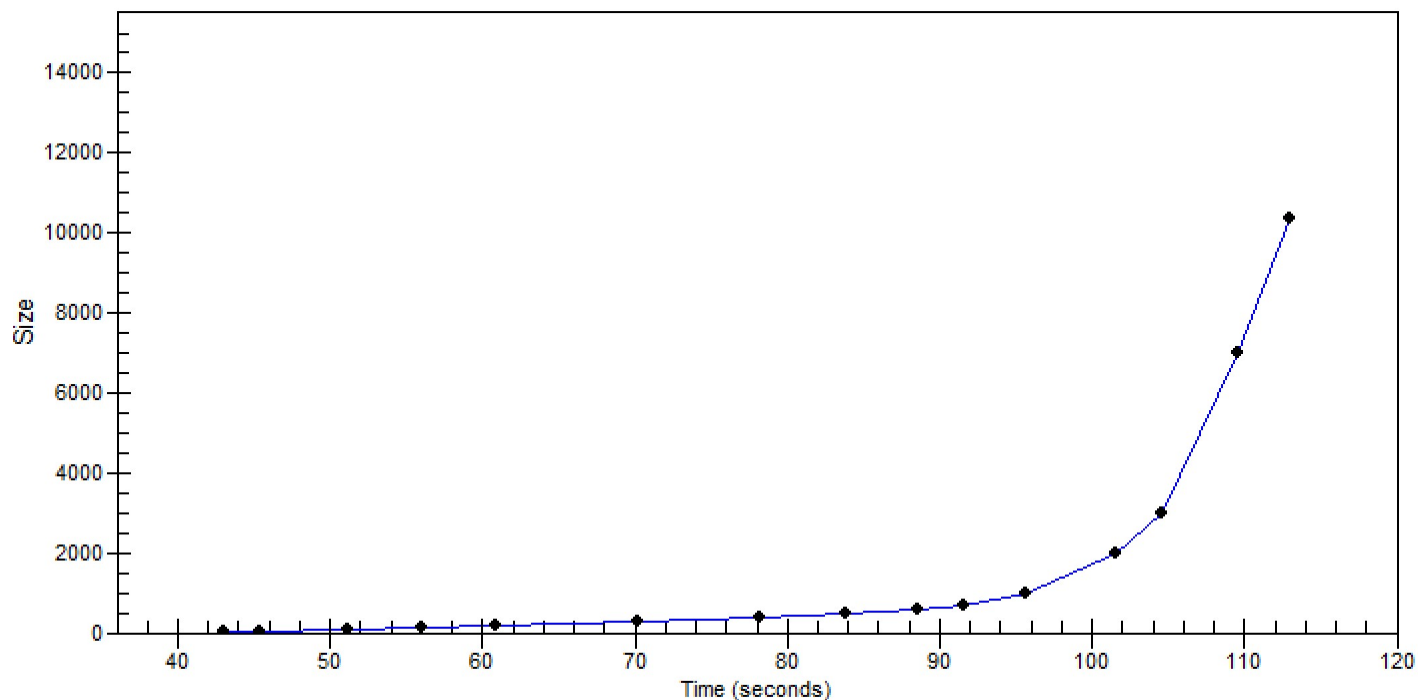


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...nalyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
Modified: 11/14/2019 1:19:49 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...nalyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
Modified: 11/14/2019 1:19:49 PM

**Invalid Samples**

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:\...nalyzer1 XADs\2019\2019-11-14\2019-11-14\_001\_failedchip.xad

Created: 11/14/2019 12:05:27 PM  
 Modified: 11/14/2019 1:19:49 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		11/14/2019 12:38:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-11-14\2019-11-14_001_xad\ Product Number : G2938C		Instrument	Run		11/14/2019 12:05:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/14/2019 12:05:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/14/2019 12:05:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		11/14/2019 12:05:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/14/2019 12:05:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/14/2019 12:05:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1