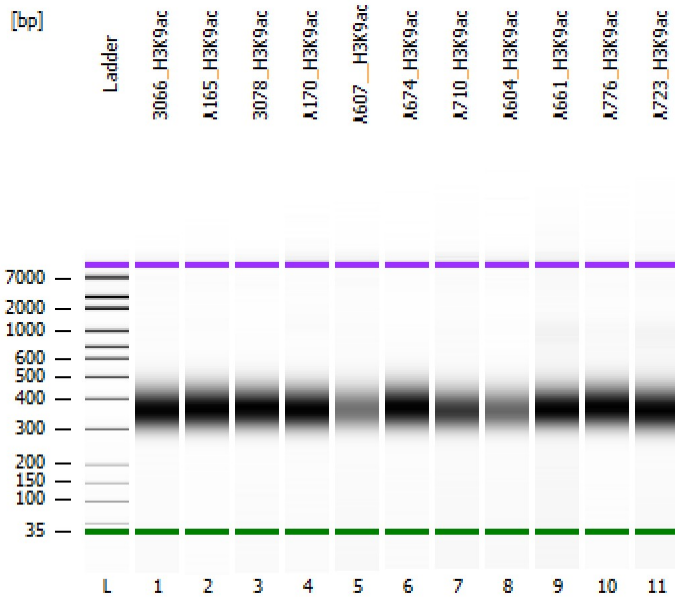


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
Modified: 11/15/2019 11:14:50 AM

**Electrophoresis File Run Summary**



Instrument Information:

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

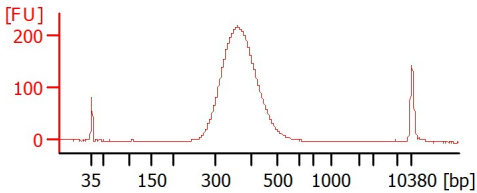
Assay Information:

Assay Origin Path: C:\Program Files (x86)\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

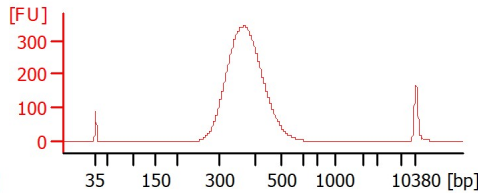
Chip Information:

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

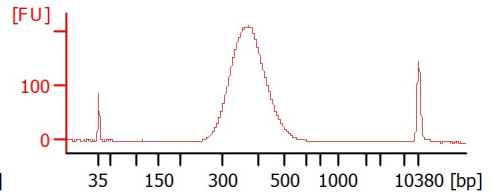
**3066\_H3K9ac**



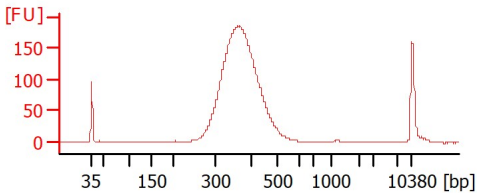
**A165\_H3K9ac**



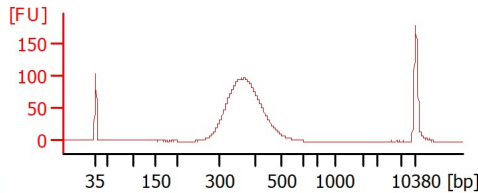
**3078\_H3K9ac**



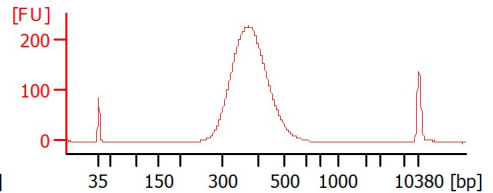
**A170\_H3K9ac**



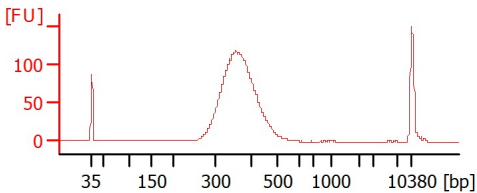
**A607\_H3K9ac**



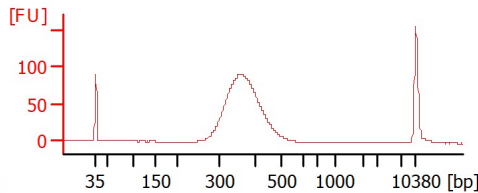
**A674\_H3K9ac**



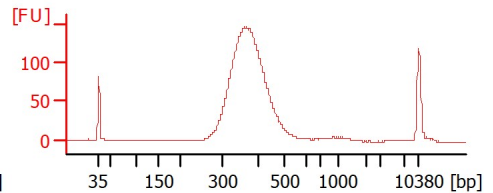
**A710\_H3K9ac**



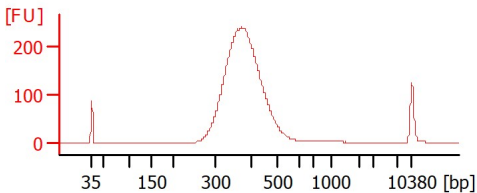
**A604\_H3K9ac**



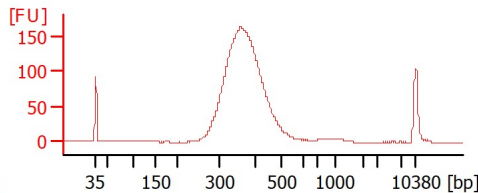
**A661\_H3K9ac**



**A776\_H3K9ac**



**A723\_H3K9ac**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
3066_H3K9ac		<input type="checkbox"/>	✓			
A165_H3K9ac		<input type="checkbox"/>	✓			
3078_H3K9ac		<input type="checkbox"/>	✓			
A170_H3K9ac		<input type="checkbox"/>	✓			
A607_H3K9ac		<input type="checkbox"/>	✓			
A674_H3K9ac		<input type="checkbox"/>	✓			
A710_H3K9ac		<input type="checkbox"/>	✓			
A604_H3K9ac		<input type="checkbox"/>	✓			
A661_H3K9ac		<input type="checkbox"/>	✓			
A776_H3K9ac		<input type="checkbox"/>	✓			
A723_H3K9ac		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 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

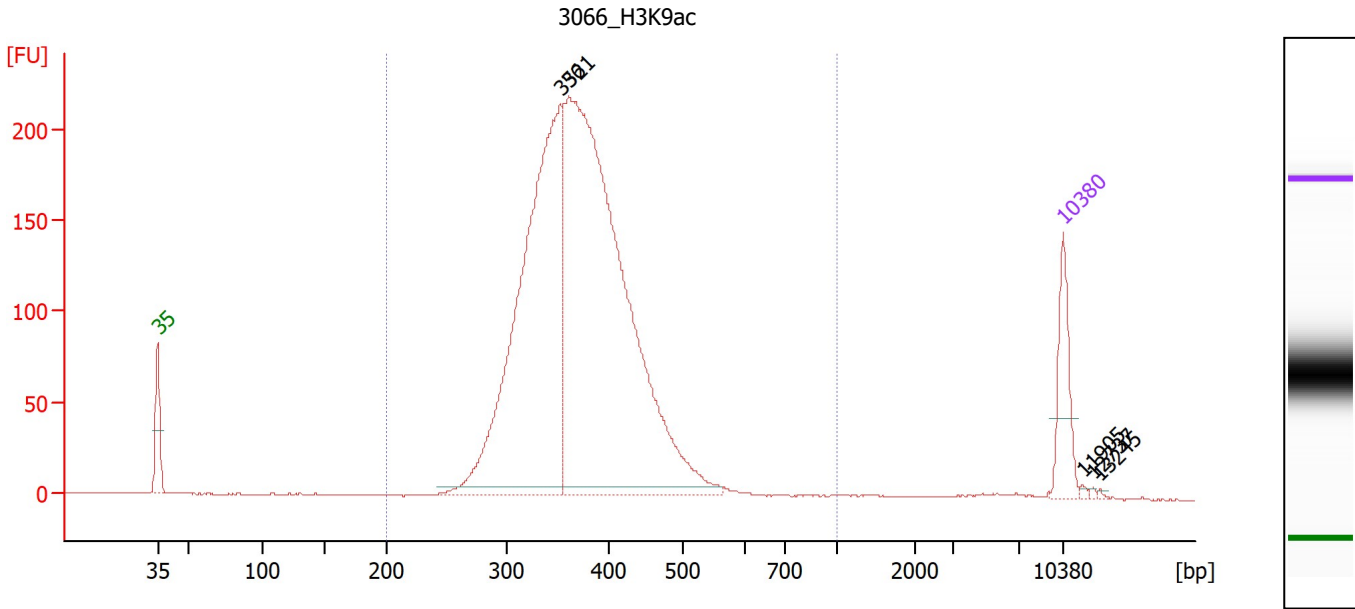
**Ladder**

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:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 AM

**Electropherogram Summary**



**Overall Results for sample 1 : 3066 H3K9ac**

Number of peaks found: 5                      Corr. Area 1: 2,766.1  
 Noise: 0.3

**Peak table for sample 1 : 3066 H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	352	1,000.97	4,308.6	
3	361	1,449.89	6,090.8	
4	10,380	75.00	10.9	Upper Marker
5	11,905	0.00	0.0	
6	12,737	0.00	0.0	
7	13,245	0.00	0.0	

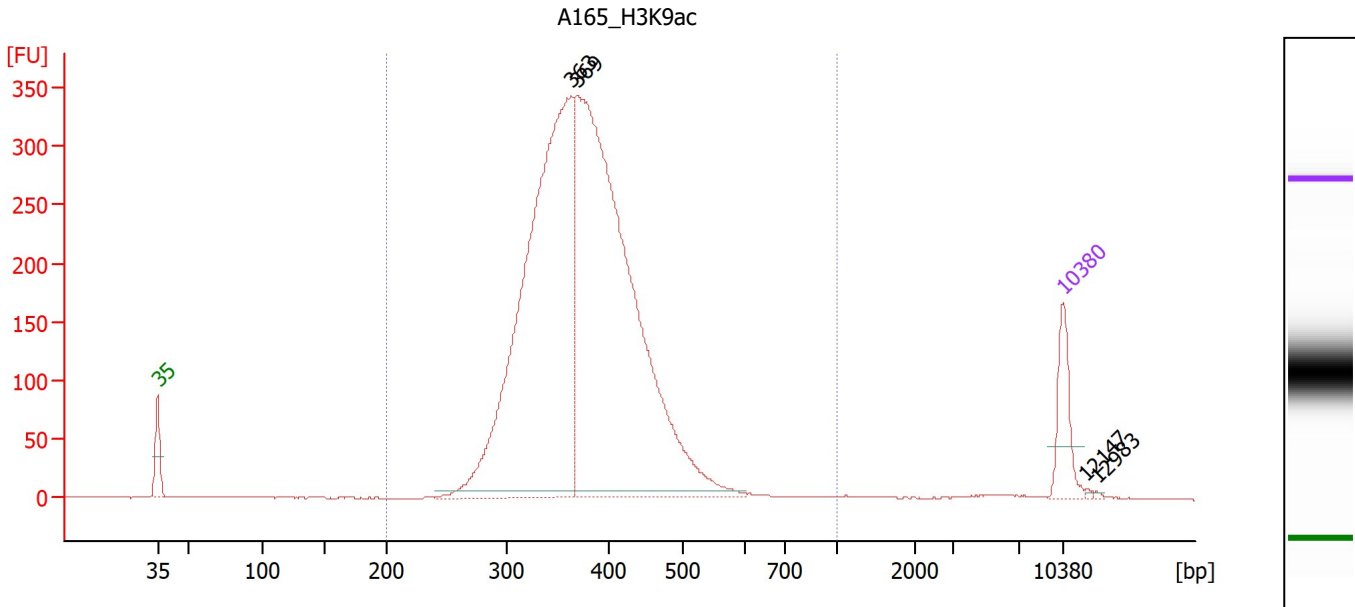
**Region table for sample 1 : 3066 H3K9ac**

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	2,766.1	99	374	15.6	2,444.03	10,161.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : A165 H3K9ac**

Number of peaks found: 4                      Corr. Area 1: 4,486.5  
 Noise: 0.2

**Peak table for sample 2 : A165 H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	363	1,462.68	6,104.3	
3	369	1,676.62	6,886.8	
4	10,380	75.00	10.9	Upper Marker
5	12,147	0.00	0.0	
6	12,983	0.00	0.0	

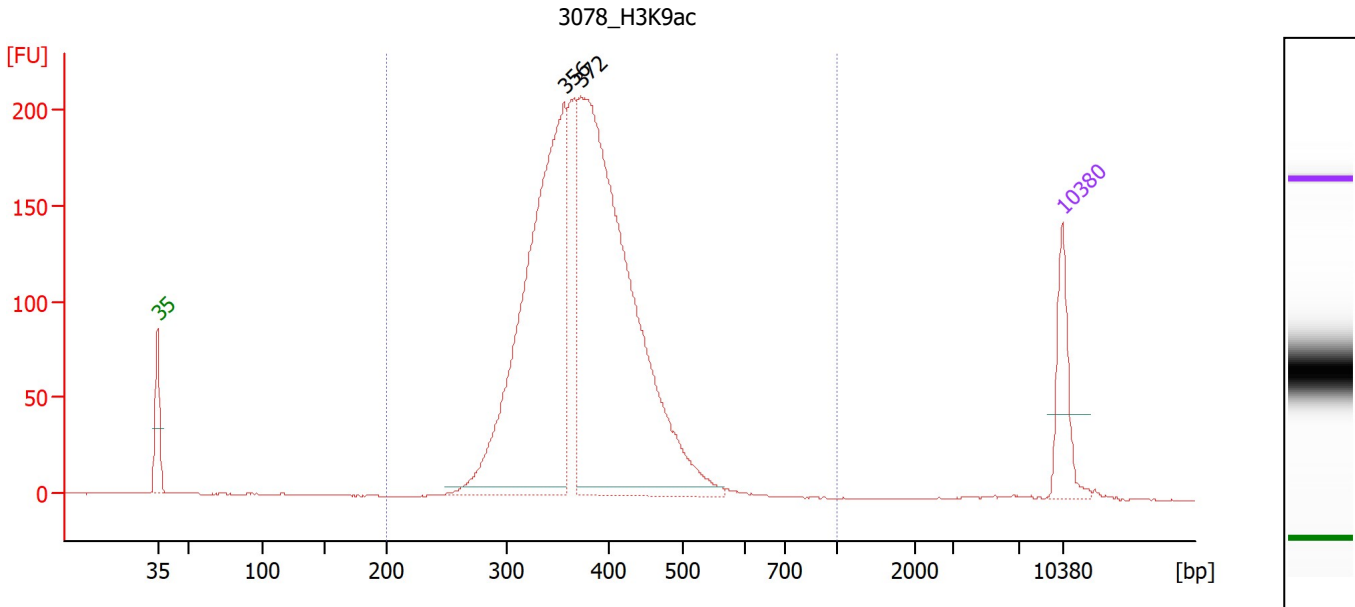
**Region table for sample 2 : A165 H3K9ac**

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	4,486.5	98	379	16.1	3,171.38	13,035.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 3078 H3K9ac**

Number of peaks found: 2                      Corr. Area 1: 2,616.6  
 Noise: 0.3

**Peak table for sample 3 : 3078 H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	356	876.27	3,732.8	
3	372	1,123.19	4,572.1	
4	10,380	75.00	10.9	Upper Marker

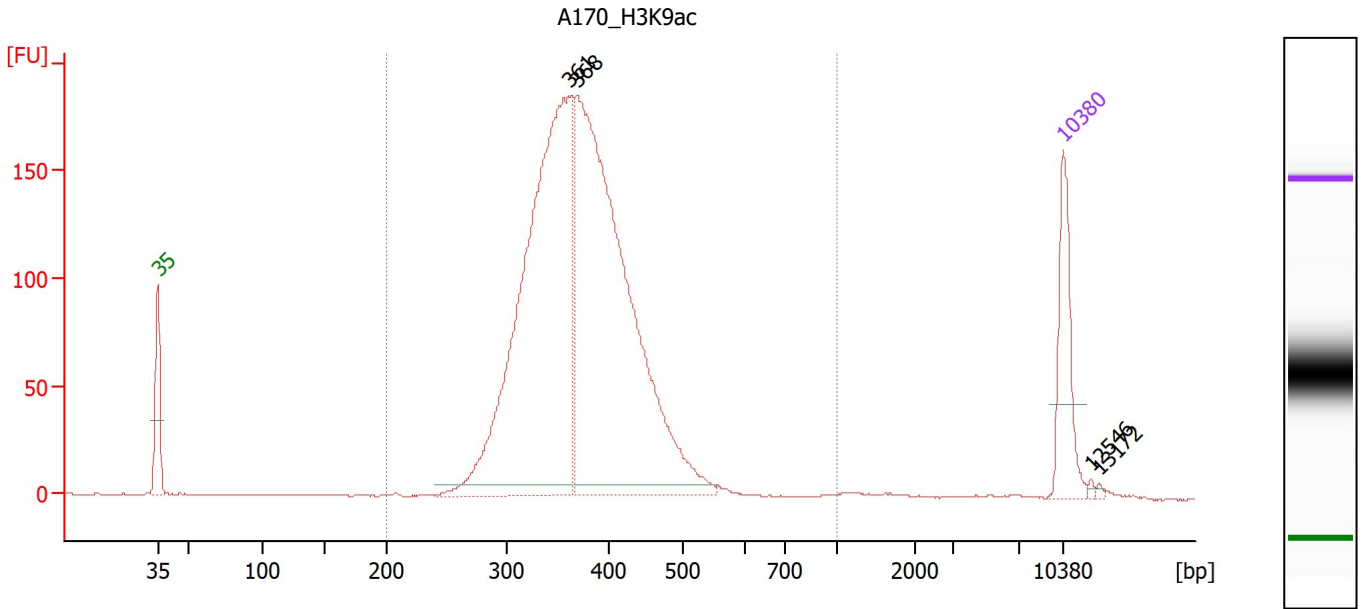
**Region table for sample 3 : 3078 H3K9ac**

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	2,616.6	99	378	14.3	2,196.78	9,018.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : A170 H3K9ac**

Number of peaks found: 4                      Corr. Area 1: 2,324.6  
 Noise: 0.3

**Peak table for sample 4 : A170 H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	361	806.57	3,389.9	
3	368	846.16	3,480.7	
4	10,380	75.00	10.9	Upper Marker
5	12,546	0.00	0.0	
6	13,172	0.00	0.0	

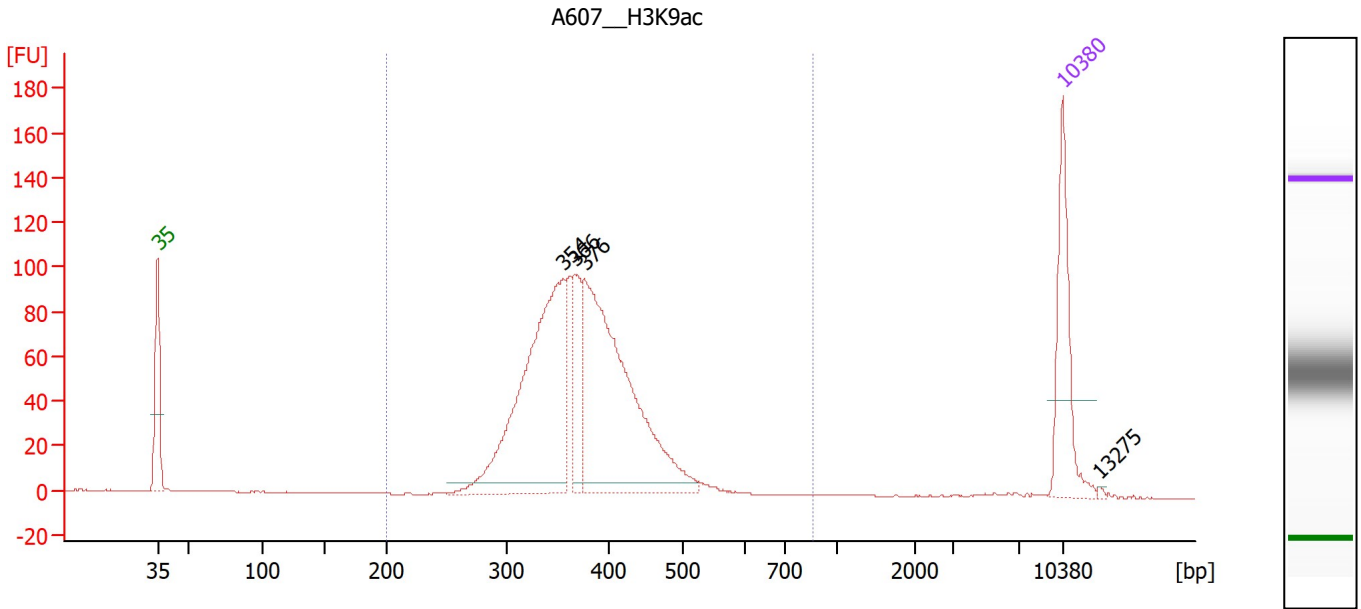
**Region table for sample 4 : A170 H3K9ac**

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	2,324.6	98	375	15.3	1,694.90	7,026.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : A607 H3K9ac**

Number of peaks found: 4                      Corr. Area 1: 1,207.3  
 Noise: 0.3

**Peak table for sample 5 : A607 H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	354	342.64	1,465.7	
3	366	66.13	273.4	
4	376	360.01	1,451.9	
5	10,380	75.00	10.9	Upper Marker
6	13,275	0.00	0.0	

**Region table for sample 5 : A607 H3K9ac**

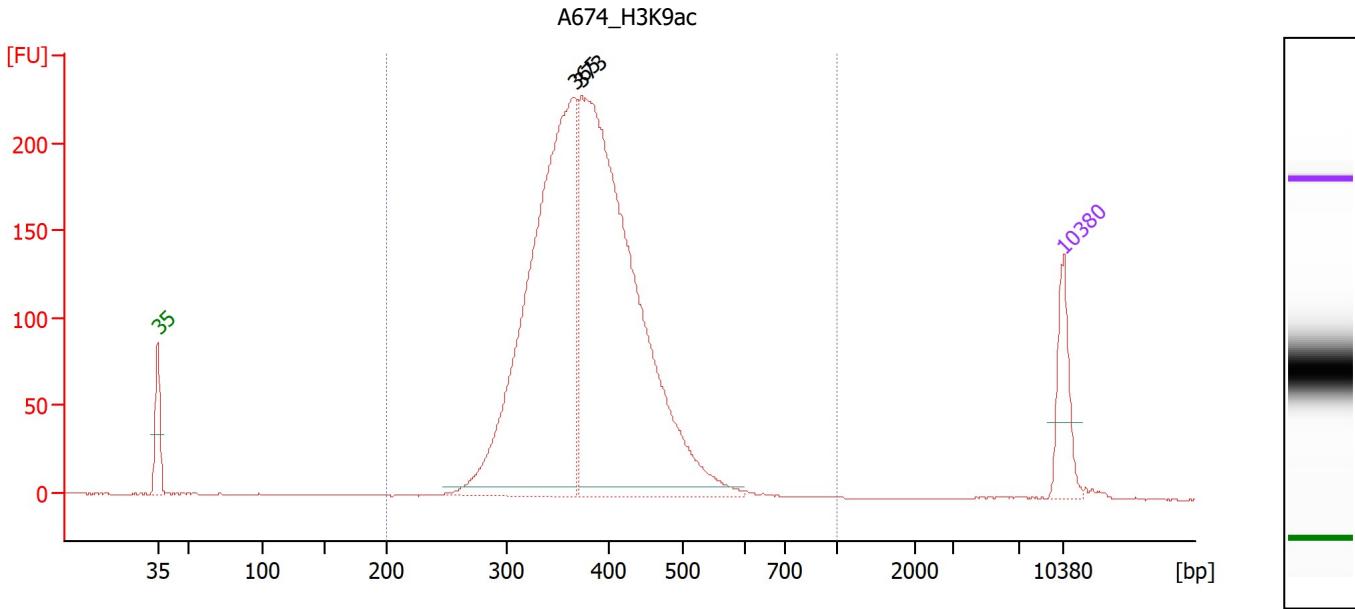
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	862	1,207.3	98	376	14.8	834.29	3,438.1	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : A674\_H3K9ac**

Number of peaks found: 2                      Corr. Area 1: 2,870.5  
 Noise: 0.2

**Peak table for sample 6 : A674\_H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	365	1,093.66	4,534.8	
3	373	1,290.98	5,245.0	
4	10,380	75.00	10.9	Upper Marker

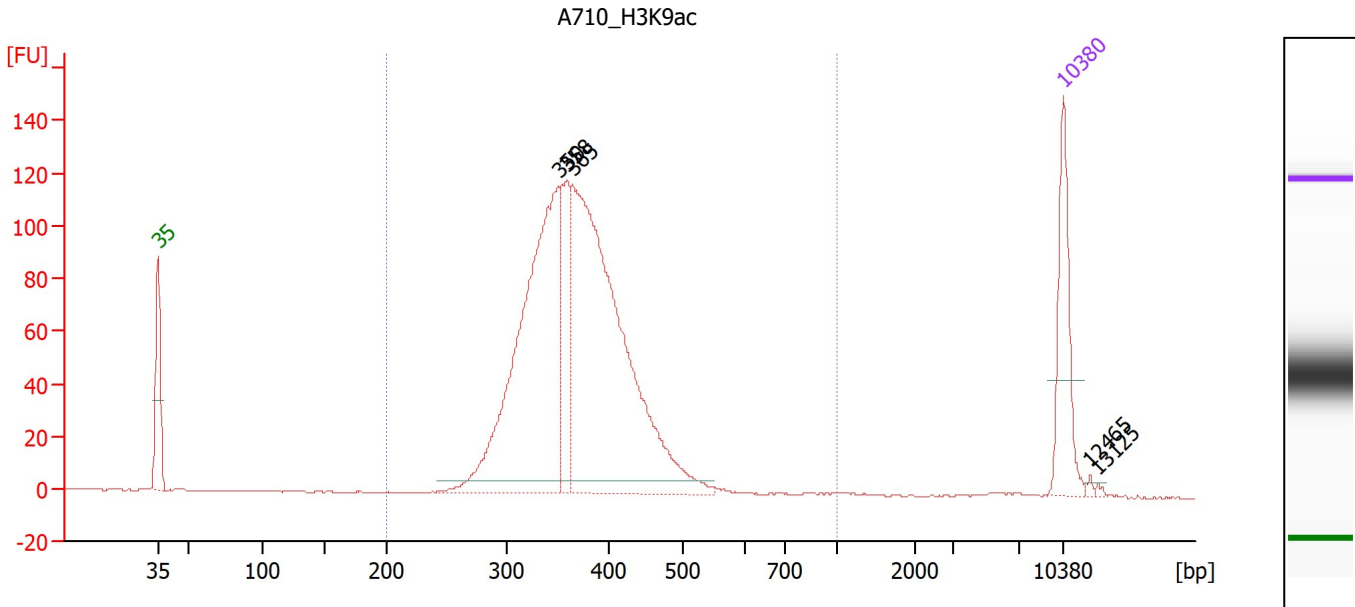
**Region table for sample 6 : A674\_H3K9ac**

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	2,870.5	100	382	14.5	2,393.37	9,727.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : A710 H3K9ac**

Number of peaks found: 5                      Corr. Area 1: 1,413.2  
 Noise: 0.2

**Peak table for sample 7 : A710 H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	350	480.82	2,081.6	
3	358	93.95	397.3	
4	365	592.93	2,464.0	
5	10,380	75.00	10.9	Upper Marker
6	12,465	0.00	0.0	
7	13,125	0.00	0.0	

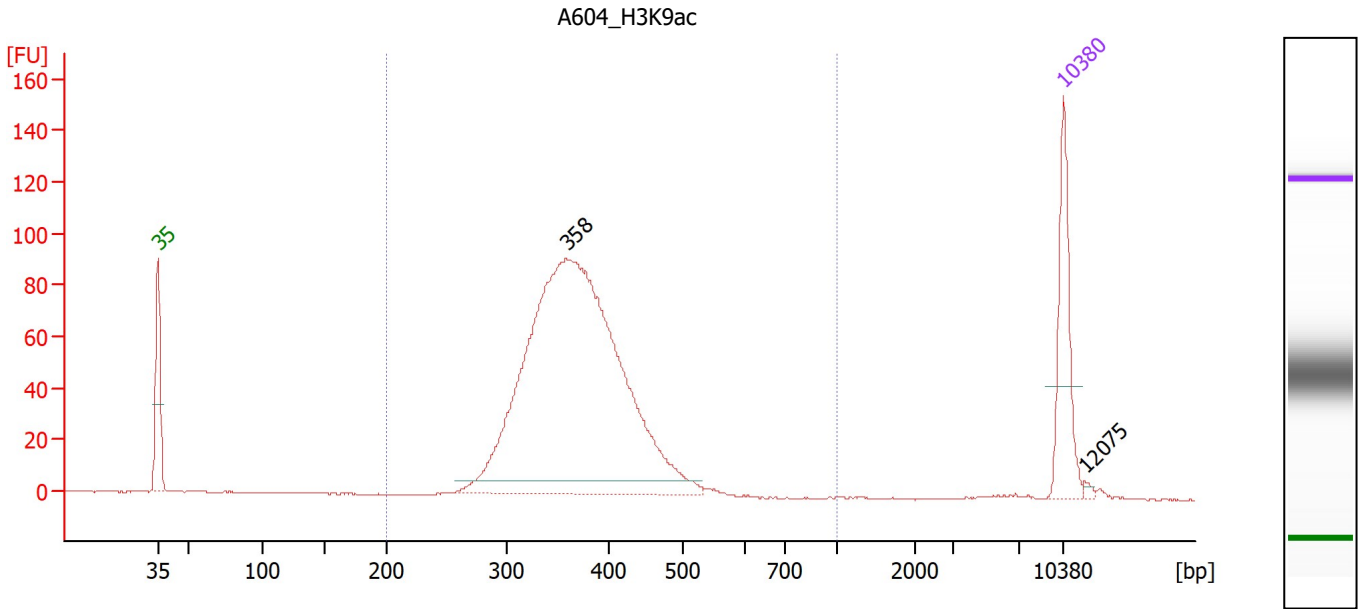
**Region table for sample 7 : A710 H3K9ac**

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	1,413.2	98	372	16.1	1,177.33	4,921.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : A604\_H3K9ac**

Number of peaks found: 2                      Corr. Area 1: 1,074.0  
 Noise: 0.2

**Peak table for sample 8 : A604\_H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	358	893.63	3,784.1	
3	10,380	75.00	10.9	Upper Marker
4	12,075	0.00	0.0	

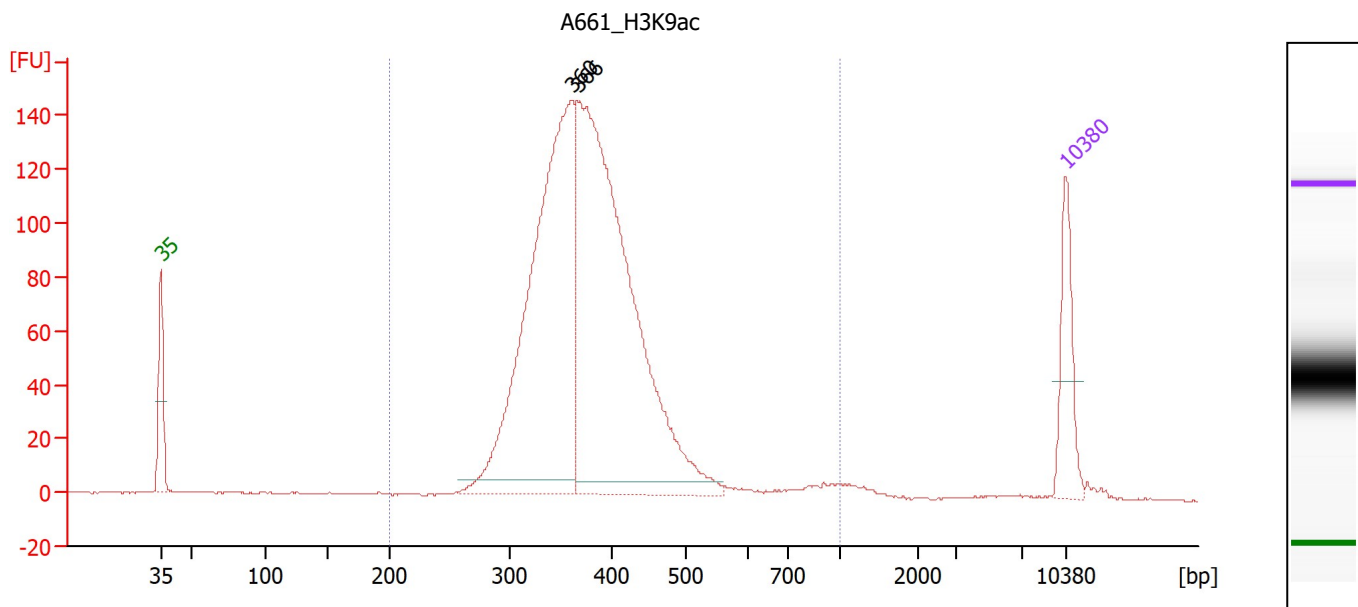
**Region table for sample 8 : A604\_H3K9ac**

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	1,074.0	99	370	13.1	885.82	3,694.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : A661\_H3K9ac**

Number of peaks found: 2                      Corr. Area 1: 1,774.2  
 Noise: 0.2

**Peak table for sample 9 : A661\_H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	360	769.99	3,243.2	
3	366	948.98	3,933.3	
4	10,380	75.00	10.9	Upper Marker

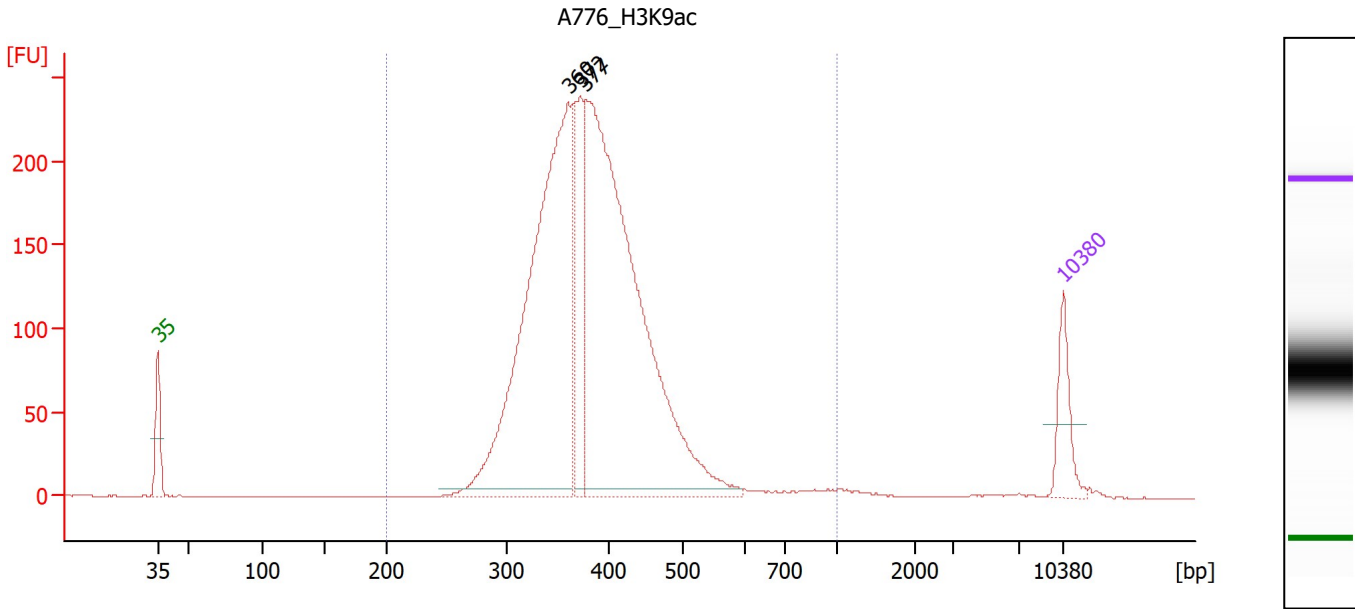
**Region table for sample 9 : A661\_H3K9ac**

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	1,774.2	97	386	21.2	1,790.20	7,297.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : A776\_H3K9ac**

Number of peaks found: 3                      Corr. Area 1: 2,999.3  
 Noise: 0.2

**Peak table for sample 10 : A776\_H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	360	1,192.85	5,022.6	
3	372	209.35	853.7	
4	377	1,444.79	5,810.1	
5	10,380	75.00	10.9	Upper Marker

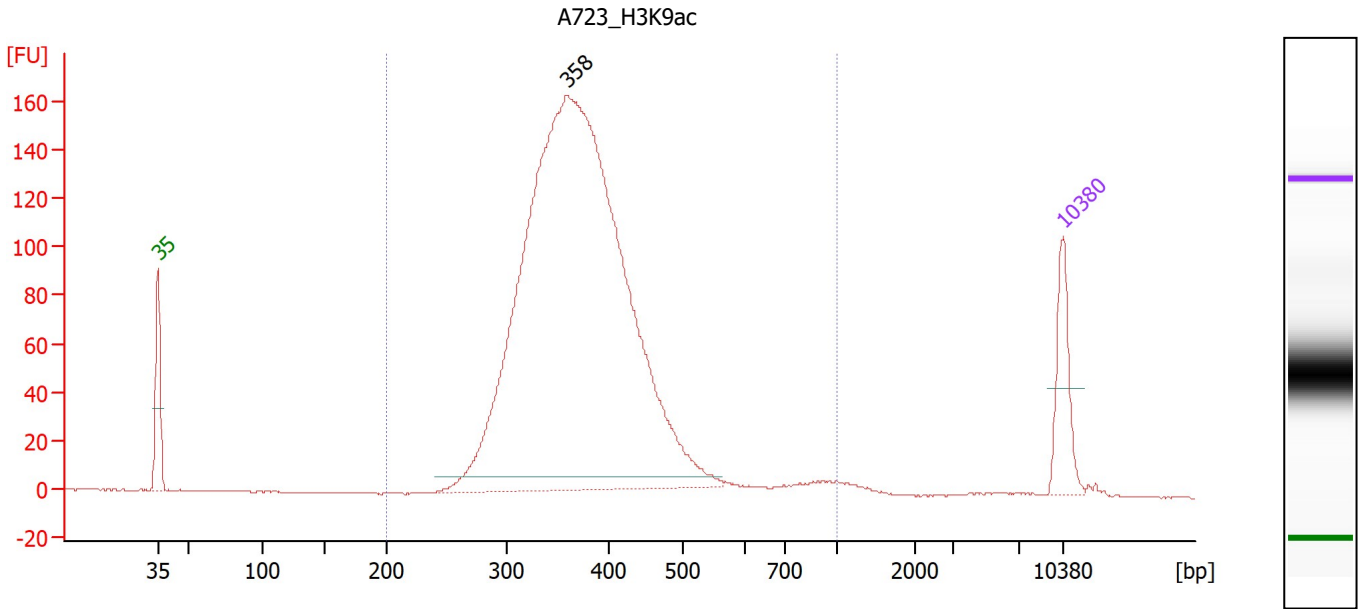
**Region table for sample 10 : A776\_H3K9ac**

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	2,999.3	98	388	18.8	2,979.53	12,009.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : A723 H3K9ac**

Number of peaks found: 1                      Corr. Area 1: 2,086.8  
 Noise: 0.1

**Peak table for sample 11 : A723 H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	358	2,180.87	9,222.7	
3	10,380	75.00	10.9	Upper Marker

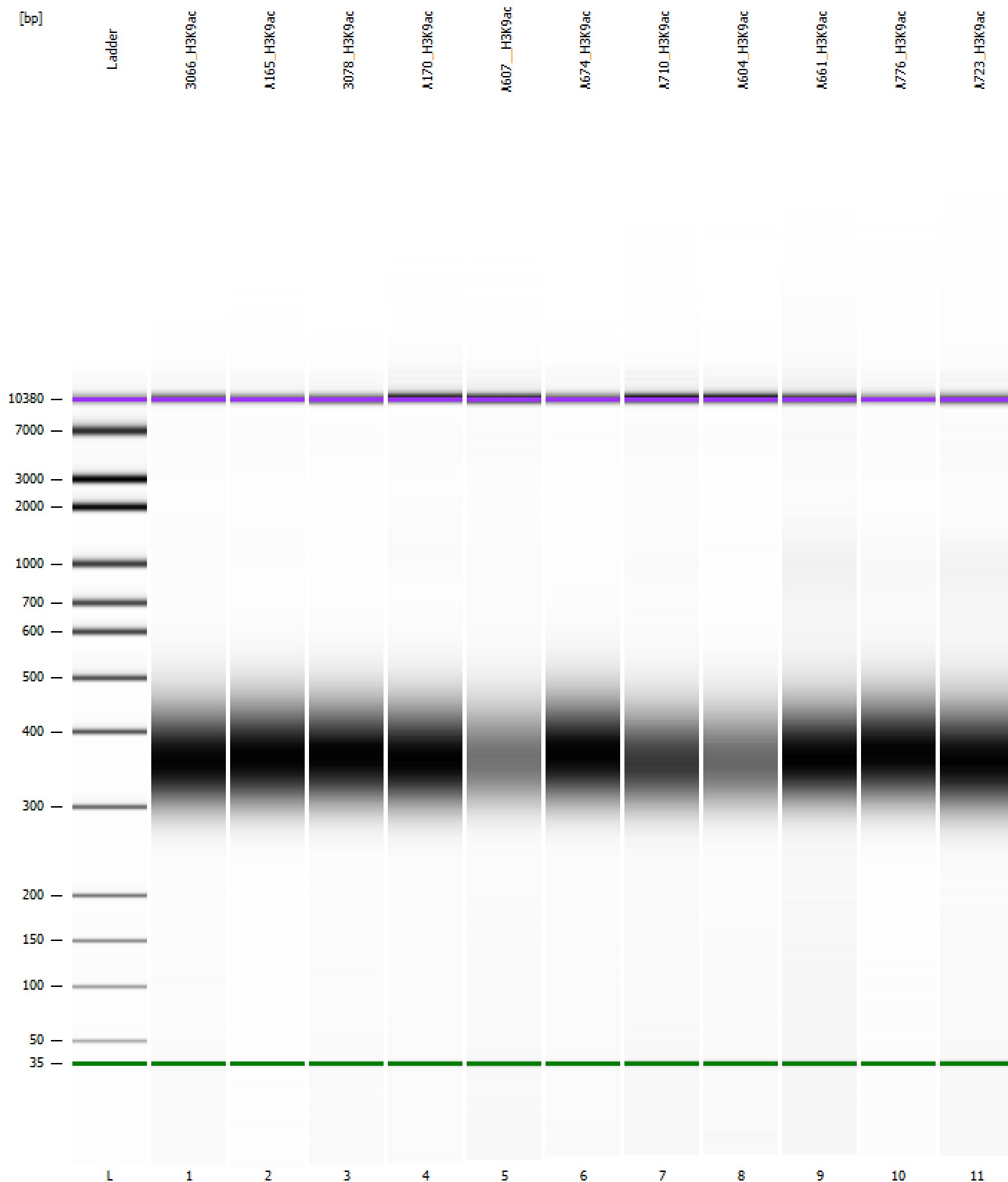
**Region table for sample 11 : A723 H3K9ac**

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	2,086.8	98	381	21.2	2,246.94	9,288.6	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
Modified: 11/15/2019 11:14:50 AM

Gel Image

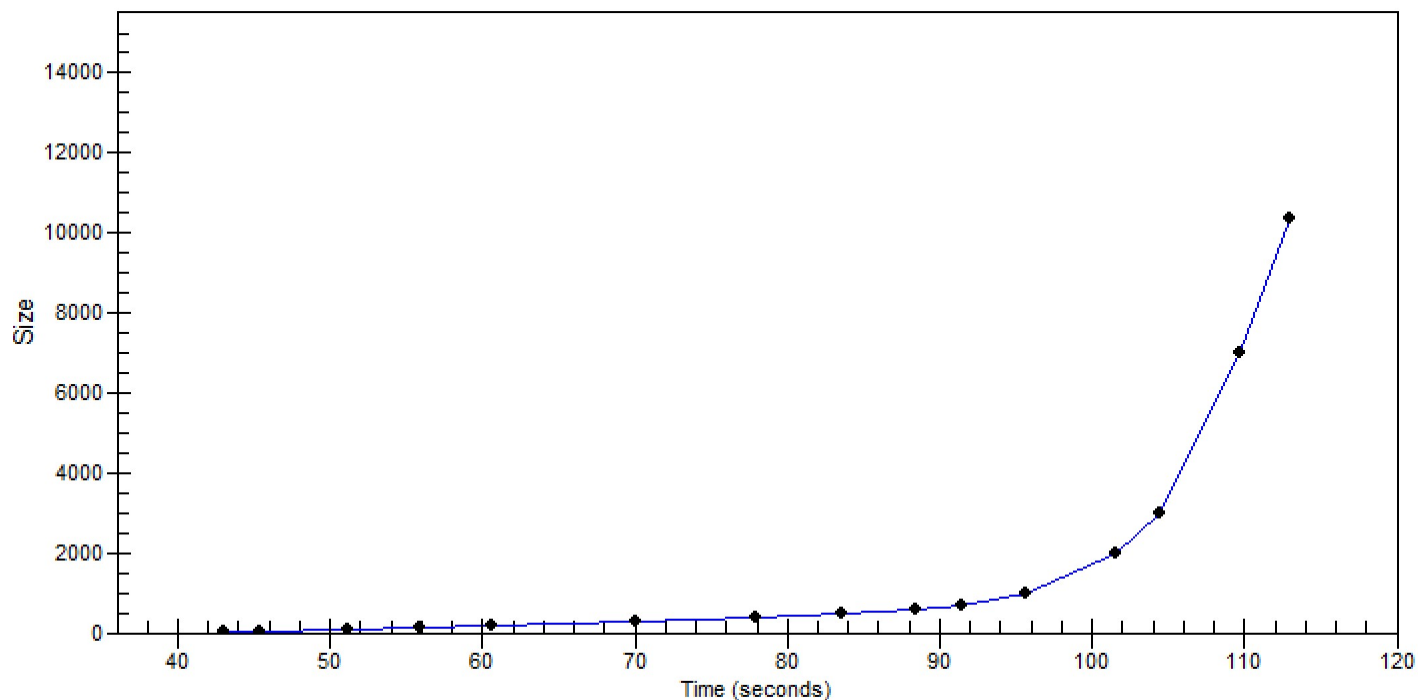


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
Modified: 11/15/2019 11:14:50 AM

**Curves**

**Standard Curve**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2019-11-15\_001.xad

Created: 11/15/2019 10:27:02 AM  
 Modified: 11/15/2019 11:14:50 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		11/15/2019 11:08:23 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\Data\2019-11-15\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-15_001.xad)		Instrument	Run		11/15/2019 10:27:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/15/2019 10:27:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/15/2019 10:27:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/15/2019 10:27:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/15/2019 10:27:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/15/2019 10:27:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/15/2019 10:27:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB