

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
Modified: 11/8/2019 3:58:07 PM

**Electrophoresis File Run Summary**

Instrument Information:

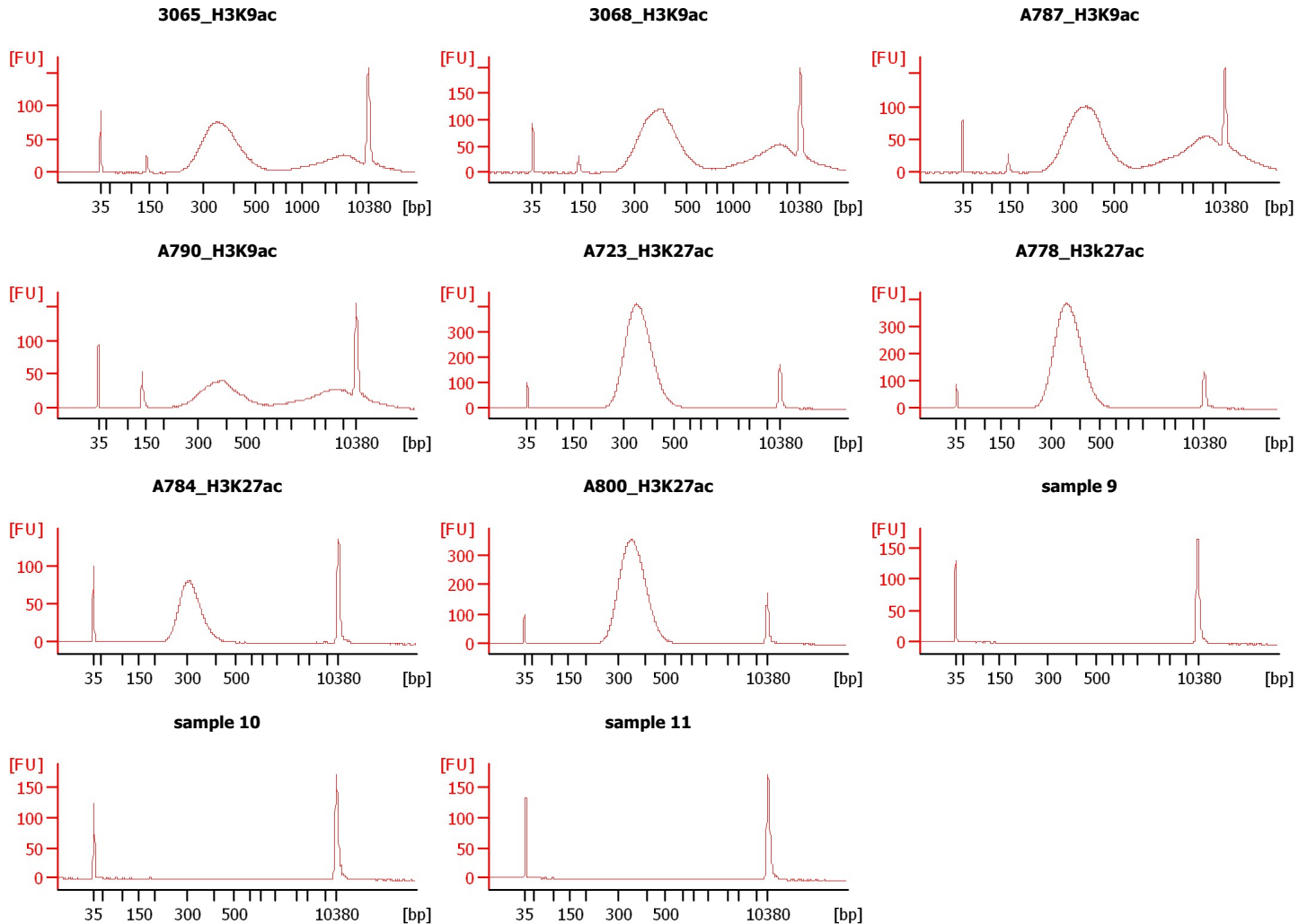
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
3065_H3K9ac		<input type="checkbox"/>	✓			
3068_H3K9ac		<input type="checkbox"/>	✓			
A787_H3K9ac		<input type="checkbox"/>	✓			
A790_H3K9ac		<input type="checkbox"/>	✓			
A723_H3K27ac		<input type="checkbox"/>	✓			
A778_H3k27ac		<input type="checkbox"/>	✓			
A784_H3K27ac		<input type="checkbox"/>	✓			
A800_H3K27ac		<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:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
Modified: 11/8/2019 3:58:07 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

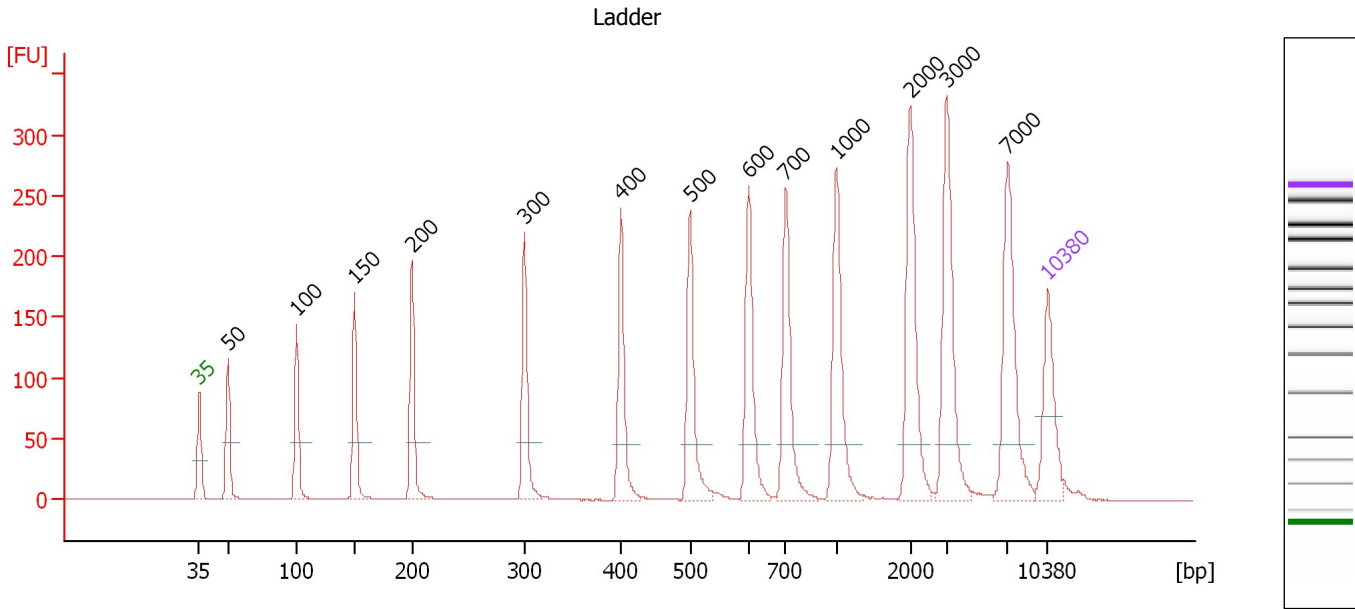
**Ladder**

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:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.4

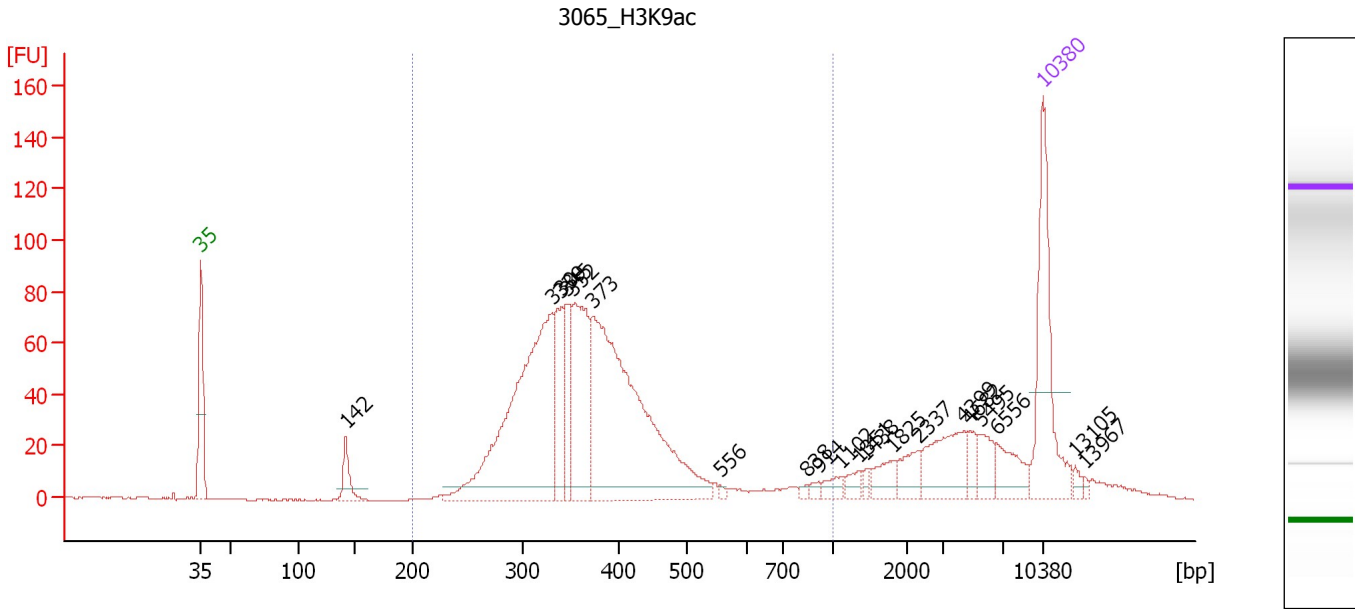
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.38
3	100	150.00	2,272.7	Ladder Peak	51.05
4	150	150.00	1,515.2	Ladder Peak	55.80
5	200	150.00	1,136.4	Ladder Peak	60.56
6	300	150.00	757.6	Ladder Peak	69.84
7	400	150.00	568.2	Ladder Peak	77.80
8	500	150.00	454.5	Ladder Peak	83.48
9	600	150.00	378.8	Ladder Peak	88.32
10	700	150.00	324.7	Ladder Peak	91.40
11	1,000	150.00	227.3	Ladder Peak	95.58
12	2,000	150.00	113.6	Ladder Peak	101.65
13	3,000	150.00	75.8	Ladder Peak	104.68
14	7,000	150.00	32.5	Ladder Peak	109.70
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 3065 H3K9ac**

Number of peaks found: 20                      Corr. Area 1: 1,244.5  
 Noise: 0.3

**Peak table for sample 1 : 3065 H3K9ac**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	142	26.12	278.4		55.06
3	330	285.83	1,310.8		72.26
4	339	57.67	257.5		72.97
5	345	42.04	184.7		73.41
6	352	112.04	482.1		73.99
7	373	312.24	1,269.3		75.63
8	556	2.01	5.5		86.18
9	838	2.63	4.8		93.32
10	914	3.78	6.3		94.38
11	1,102	8.28	11.4		96.20
12	1,351	7.38	8.3		97.71
13	1,438	3.53	3.7		98.24
14	1,825	14.42	12.0		100.59
15	2,337	16.46	10.7		102.67
16	4,399	40.96	14.1		106.44
17	4,682	9.99	3.2		106.79
18	5,495	15.55	4.3		107.81
19	6,556	21.96	5.1		109.14
20	10,380	75.00	10.9	Upper Marker	113.00
21	13,105	0.00	0.0		115.66
22	13,967	0.00	0.0		116.50

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary Continued ...**

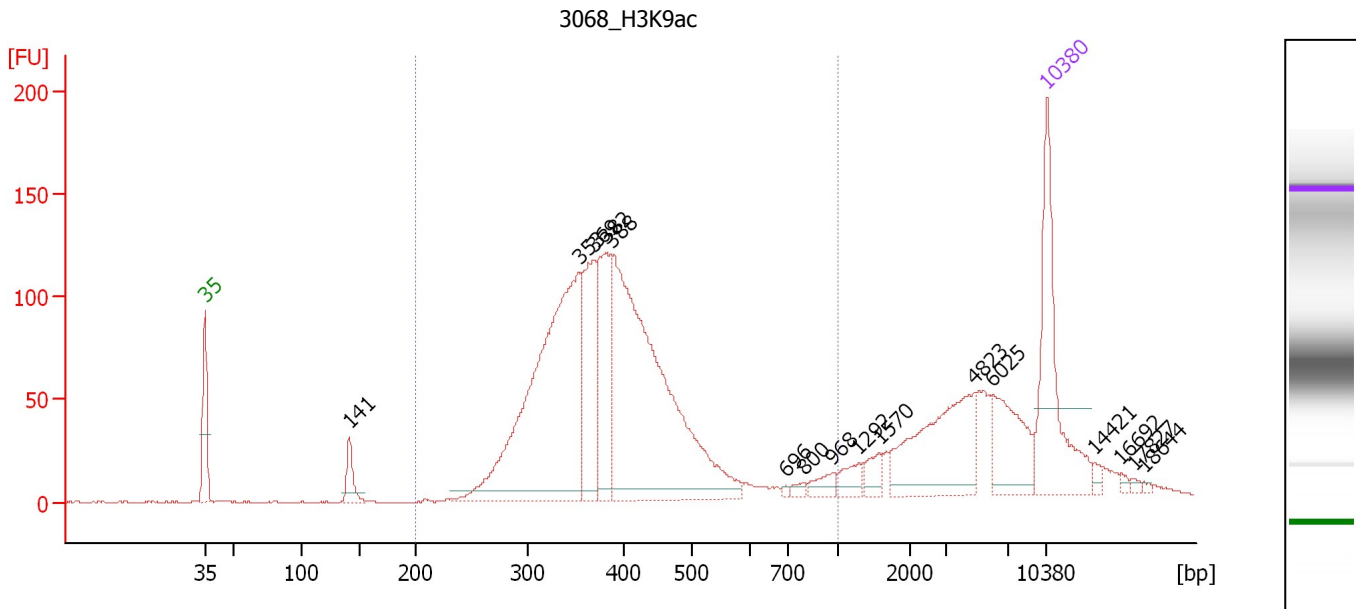
... Region table for sample 1 : 3065\_H3K9ac

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	381	830.72	1,244.5	3,534.8	 78	27.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 3068\_H3K9ac**

Number of peaks found: 16                      Corr. Area 1: 1,884.3  
 Noise: 0.3

**Peak table for sample 2 : 3068\_H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	141	21.67	232.4		54.97
3	353	321.66	1,379.8		74.08
4	369	94.74	389.2		75.32
5	382	86.17	342.1		76.34
6	388	339.07	1,325.0		76.83
7	696	1.57	3.4		91.28
8	800	3.90	7.4		92.78
9	968	9.30	14.6		95.13
10	1,292	11.01	12.9		97.35
11	1,570	9.94	9.6		99.04
12	4,823	82.08	25.8		106.97
13	6,025	43.65	11.0		108.48
14	10,380	75.00	10.9	Upper Marker	113.00
15	14,421	0.00	0.0		116.95
16	16,692	0.00	0.0		119.16
17	17,827	0.00	0.0		120.27
18	18,644	0.00	0.0		121.07

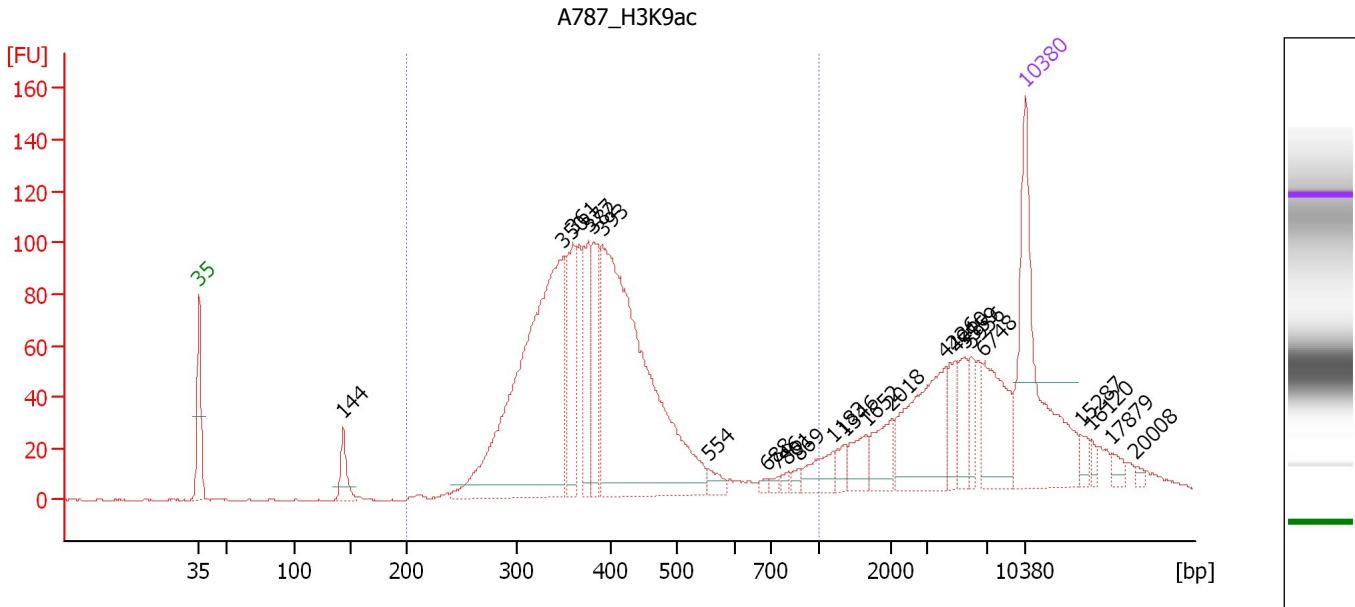
**Region table for sample 2 : 3068\_H3K9ac**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	397	851.28	1,884.3	3,446.7	76	25.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : A787 H3K9ac**

Number of peaks found: 24                      Corr. Area 1: 1,592.3  
 Noise: 0.3

**Peak table for sample 3 : A787 H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	144	19.49	205.6		55.20
3	350	269.39	1,166.2		73.82
4	361	52.19	219.2		74.68
5	377	43.01	172.7		75.99
6	382	42.77	169.5		76.40
7	393	259.89	1,003.1		77.21
8	554	6.69	18.3		86.11
9	688	2.12	4.7		91.04
10	746	2.21	4.5		92.03
11	801	2.51	4.7		92.80
12	869	2.84	4.9		93.75
13	1,183	13.54	17.3		96.69
14	1,346	5.70	6.4		97.68
15	1,652	12.66	11.6		99.53
16	2,018	16.29	12.2		101.70
17	4,226	53.90	19.3		106.22
18	4,910	14.00	4.3		107.08
19	5,559	13.63	3.7		107.89
20	5,956	10.07	2.6		108.39
21	6,748	35.26	7.9		109.38
22	10,380	75.00	10.9	Upper Marker	113.00
23	15,287	0.00	0.0		117.79
24	16,120	0.00	0.0		118.60
25	17,879	0.00	0.0		120.32



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 3 : A787 H3K9ac

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	20,008	0.00	0.0		122.40

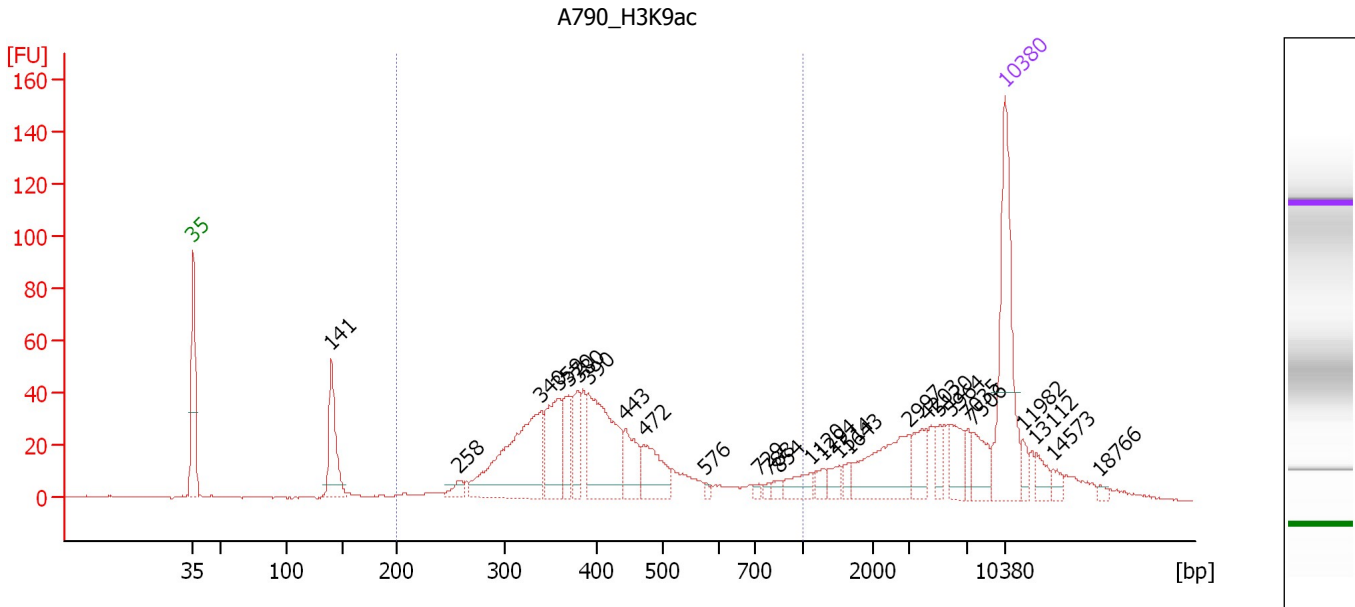
#### Region table for sample 3 : A787 H3K9ac

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	397	722.57	1,592.3	2,933.8	 72	26.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : A790 H3K9ac**

Number of peaks found: 27                      Corr. Area 1: 728.2  
 Noise: 0.3

**Peak table for sample 4 : A790 H3K9ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	141	60.22	648.9		54.91
3	258	9.01	53.0		65.90
4	340	122.89	548.4		72.99
5	359	53.04	223.8		74.55
6	370	29.49	120.9		75.38
7	380	26.62	106.1		76.21
8	390	90.15	349.9		77.03
9	443	28.96	99.0		80.25
10	472	34.90	112.0		81.91
11	576	2.32	6.1		87.15
12	729	2.96	6.1		91.80
13	788	2.48	4.8		92.63
14	854	4.12	7.3		93.55
15	1,120	12.92	17.5		96.30
16	1,294	6.41	7.5		97.36
17	1,514	7.35	7.4		98.70
18	1,643	4.83	4.5		99.48
19	2,997	46.40	23.5		104.68
20	4,203	17.42	6.3		106.19
21	5,120	9.04	2.7		107.34
22	5,964	16.06	4.1		108.40
23	7,035	7.31	1.6		109.73
24	7,506	16.85	3.4		110.19
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary Continued ...****... Peak table for sample 4 : A790\_H3K9ac**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	11,982	0.00	0.0		114.56
27	13,112	0.00	0.0		115.67
28	14,573	0.00	0.0		117.09
29	18,766	0.00	0.0		121.19

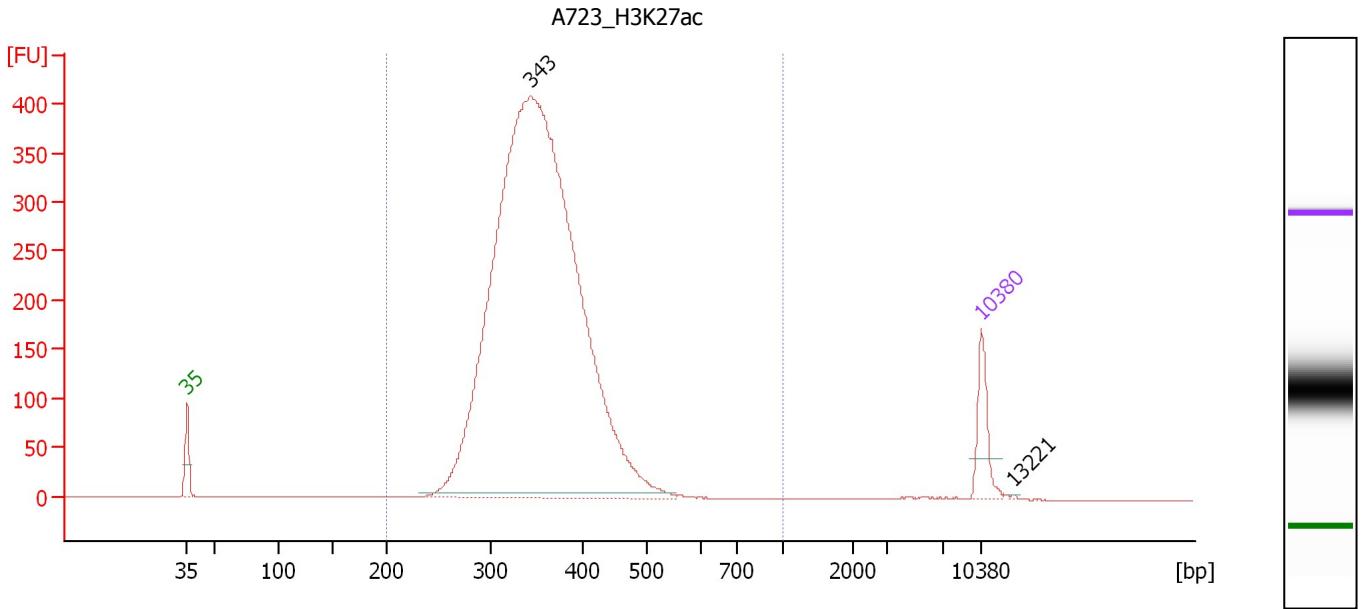
**Region table for sample 4 : A790\_H3K9ac**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	419	488.53	728.2	1,954.3	 60	32.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : A723 H3K27ac**

Number of peaks found: 2                      Corr. Area 1: 5,007.7  
 Noise: 0.2

**Peak table for sample 5 : A723 H3K27ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	343	3,701.55	16,343.5		73.28
3	10,380	75.00	10.9	Upper Marker	113.00
4	13,221	0.00	0.0		115.77

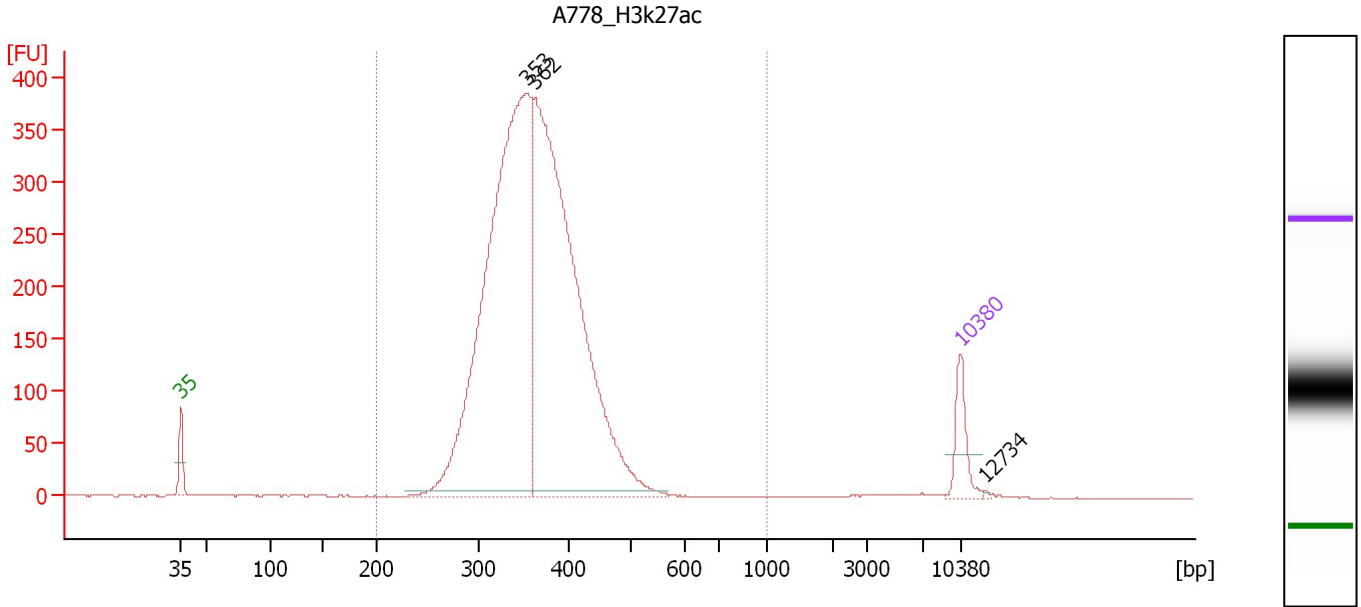
**Region table for sample 5 : A723 H3K27ac**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	354	3,668.99	5,007.7	16,016.7	99	13.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : A778 H3k27ac**

Number of peaks found: 3                      Corr. Area 1: 4,837.7  
 Noise: 0.3

**Peak table for sample 6 : A778 H3k27ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	353	2,027.79	8,699.1		74.07
3	362	1,895.57	7,929.4		74.79
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,734	0.00	0.0		115.30

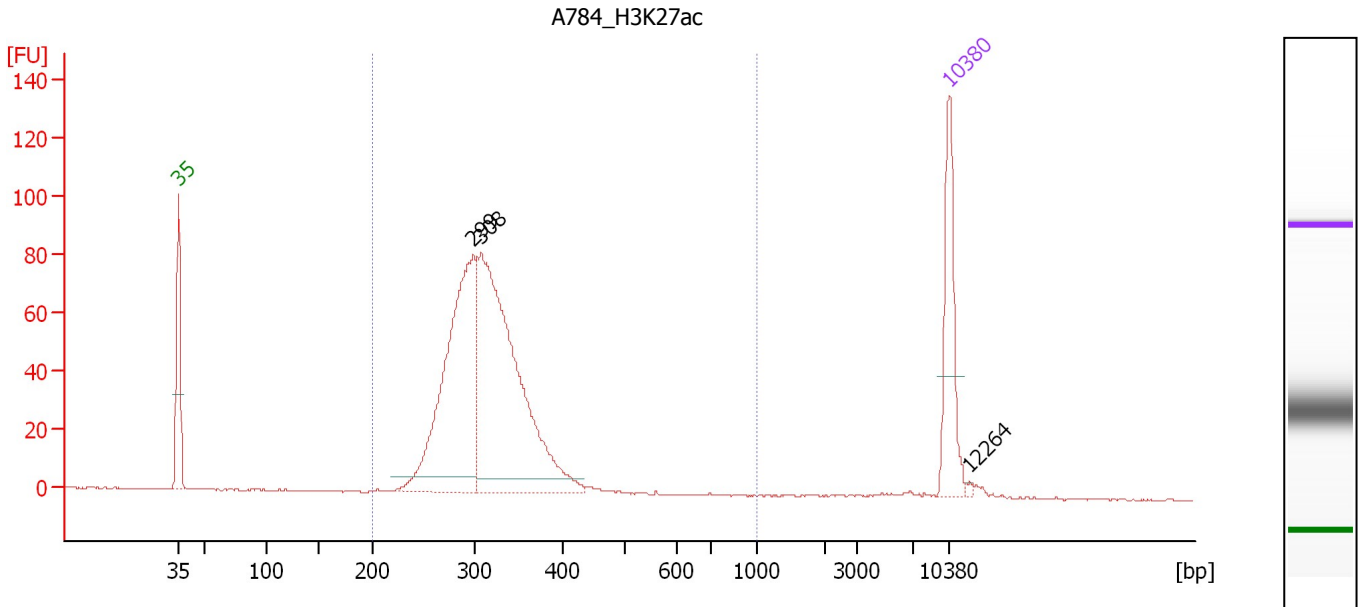
**Region table for sample 6 : A778 H3k27ac**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	363	3,971.78	4,837.7	16,914.1	99	13.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : A784 H3K27ac**

Number of peaks found: 3                      Corr. Area 1: 877.8  
 Noise: 0.2

**Peak table for sample 7 : A784 H3K27ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	299	368.41	1,865.2		69.77
3	308	455.44	2,238.6		70.50
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,264	0.00	0.0		114.84

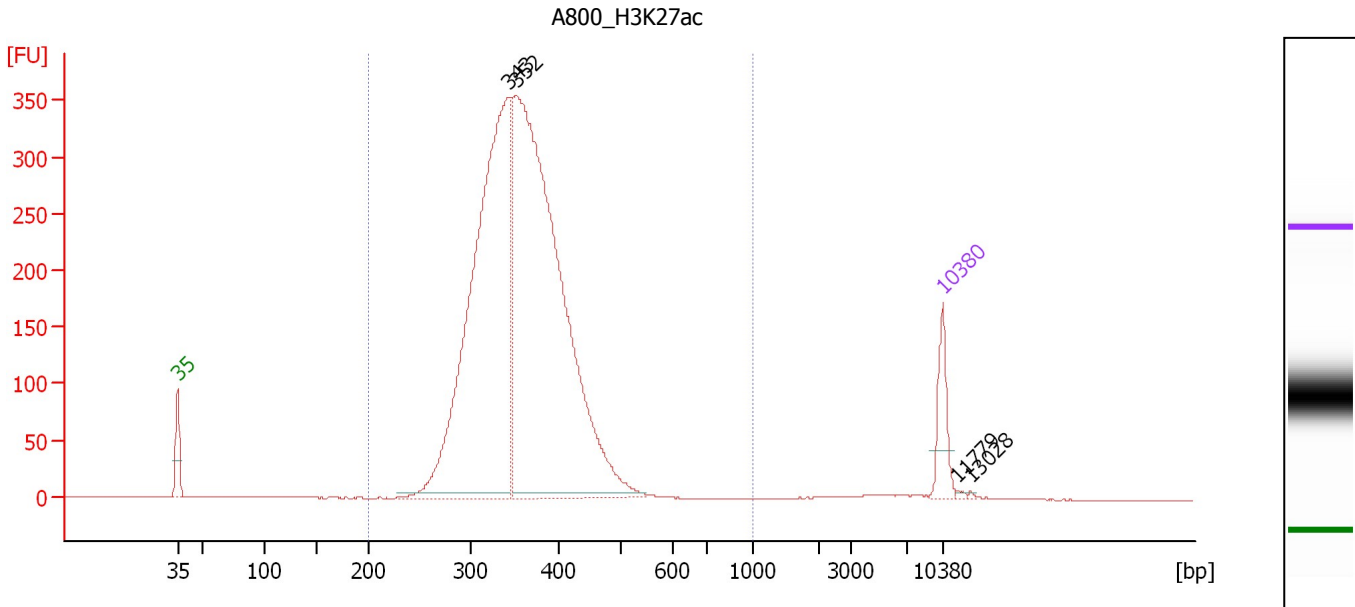
**Region table for sample 7 : A784 H3K27ac**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	316	816.37	877.8	3,992.9	98	13.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : A800\_H3K27ac**

Number of peaks found: 4                      Corr. Area 1: 4,463.0  
 Noise: 0.2

**Peak table for sample 8 : A800\_H3K27ac**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	343	1,570.08	6,928.0		73.29
3	352	1,958.44	8,431.1		73.98
4	10,380	75.00	10.9	Upper Marker	113.00
5	11,779	0.00	0.0		114.37
6	13,028	0.00	0.0		115.59

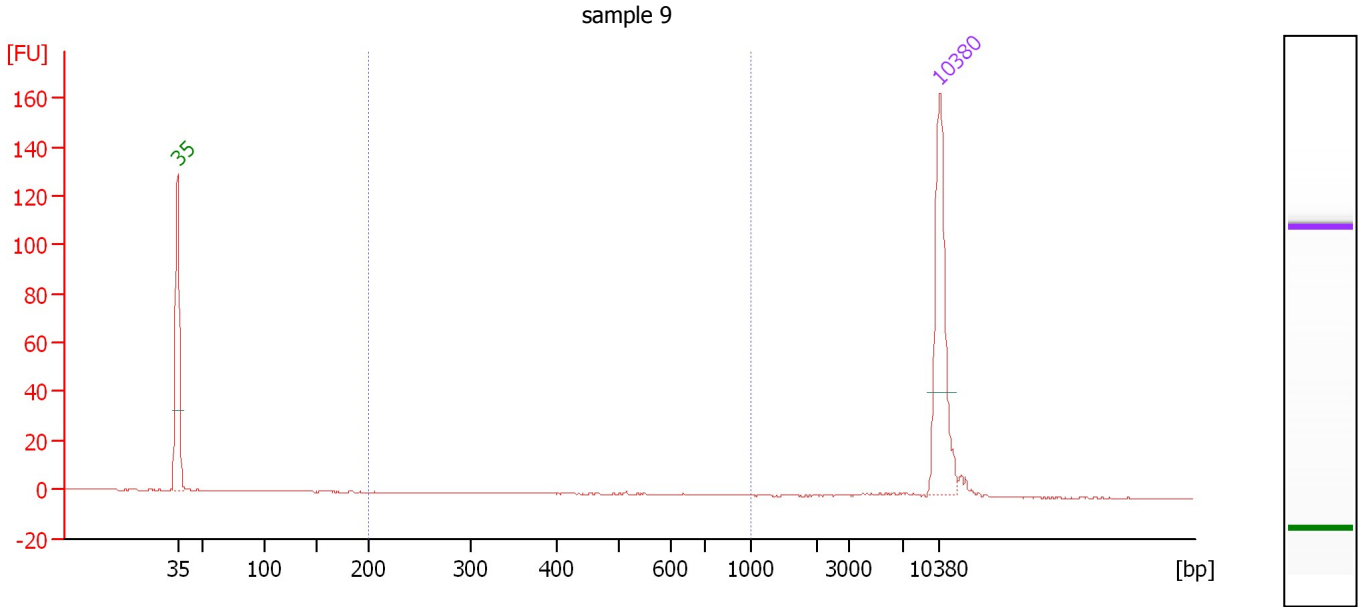
**Region table for sample 8 : A800\_H3K27ac**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	359	3,556.99	4,463.0	15,352.5	99	14.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 1.4  
 Noise: 0.2

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

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

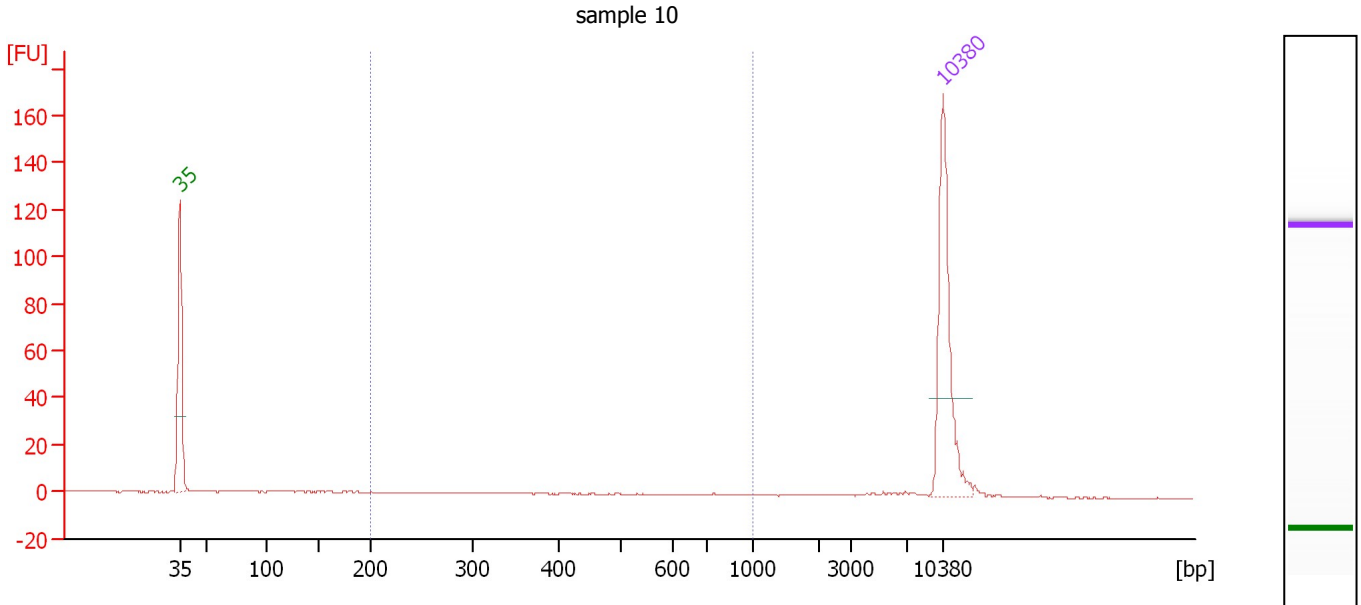
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	504	0.91	1.4	3.1	7	30.8



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 12.5  
 Noise: 0.2

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

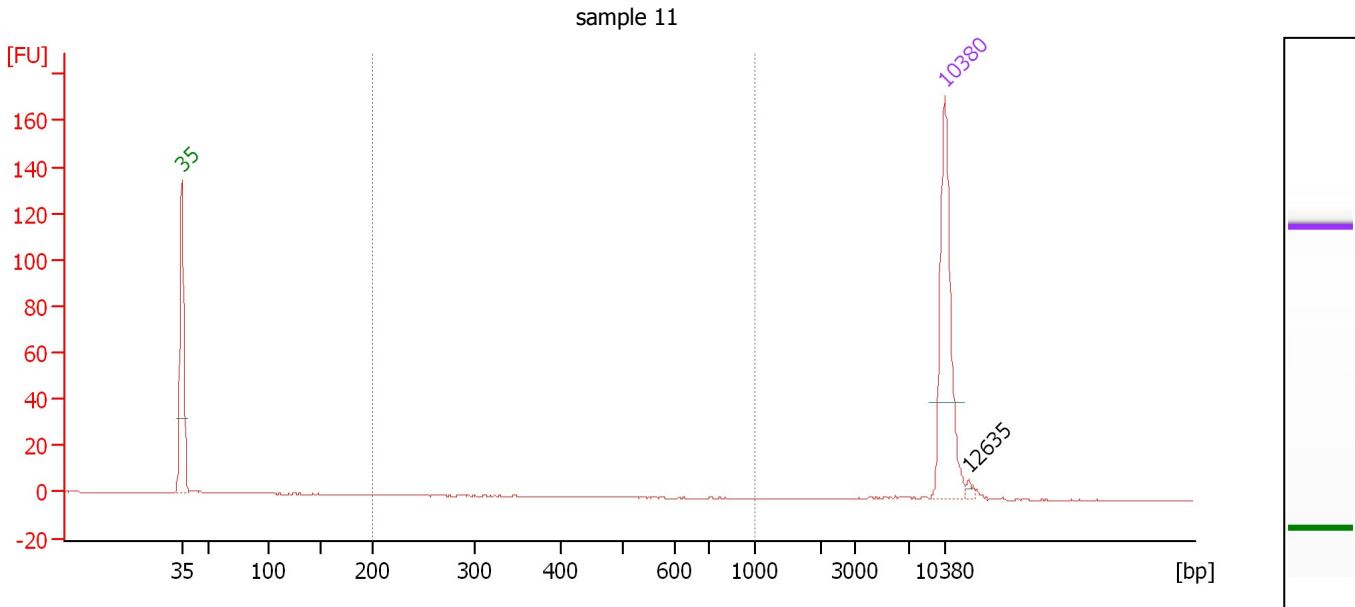
**Region table for sample 10 : sample 10**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	455	8.04	12.5	34.7	31	44.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 1                      Corr. Area 1: 0.0  
 Noise: 0.2

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00
3	12,635	0.00	0.0		115.20

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

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	0	0.00	0.0	0.0	0	0.0

---

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
Modified: 11/8/2019 3:58:07 PM

**Gel Image**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_004.xad

Created: 11/8/2019 3:17:34 PM  
 Modified: 11/8/2019 3:58:07 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		11/8/2019 3:58:02 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\2019-11-08\2019-11-08_004.xad)		Instrument	Run		11/8/2019 3:17:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		11/8/2019 3:17:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/8/2019 3:17:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/8/2019 3:17:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		11/8/2019 3:17:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/8/2019 3:17:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/8/2019 3:17:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1