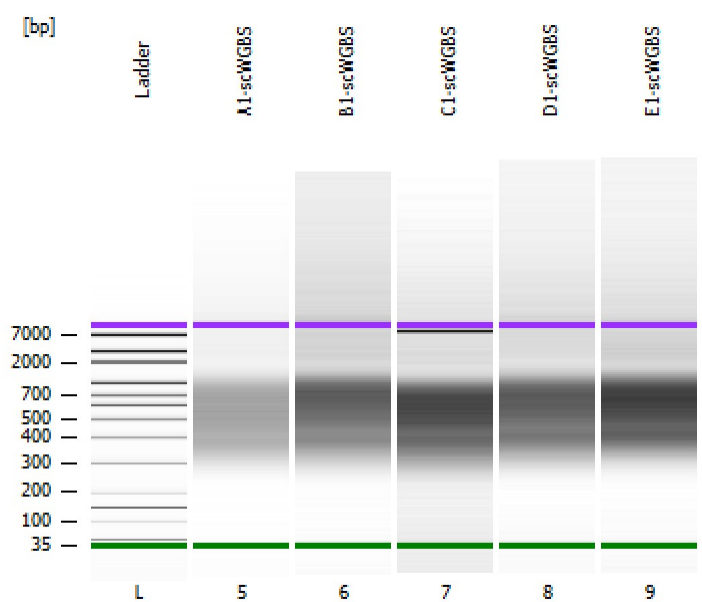


Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-15\AVT0080\_1-5.xad

Created: 11/15/2023 3:22:34 PM  
 Modified: 11/15/2023 4:13:16 PM

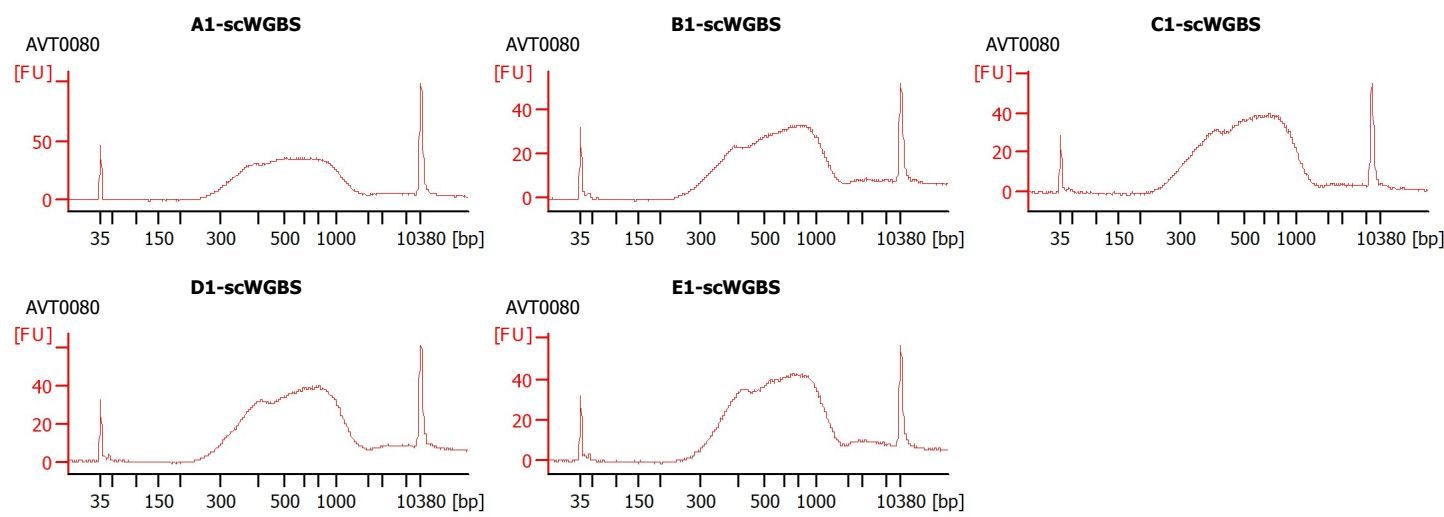
**Electrophoresis File Run Summary**



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

Assay Information:  
 Assay Origin Path: C:\Program Files (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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-15\AVT0080\_1-5.xad

Created: 11/15/2023 3:22:34 PM  
 Modified: 11/15/2023 4:13:16 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A1-scWGBS	AVT0080	<input type="checkbox"/>	✓			
B1-scWGBS	AVT0080	<input type="checkbox"/>	✓			
C1-scWGBS	AVT0080	<input type="checkbox"/>	✓			
D1-scWGBS	AVT0080	<input type="checkbox"/>	✓			
E1-scWGBS	AVT0080	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-15\AVT0080\_1-5.xad

Created: 11/15/2023 3:22:34 PM  
Modified: 11/15/2023 4:13:16 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

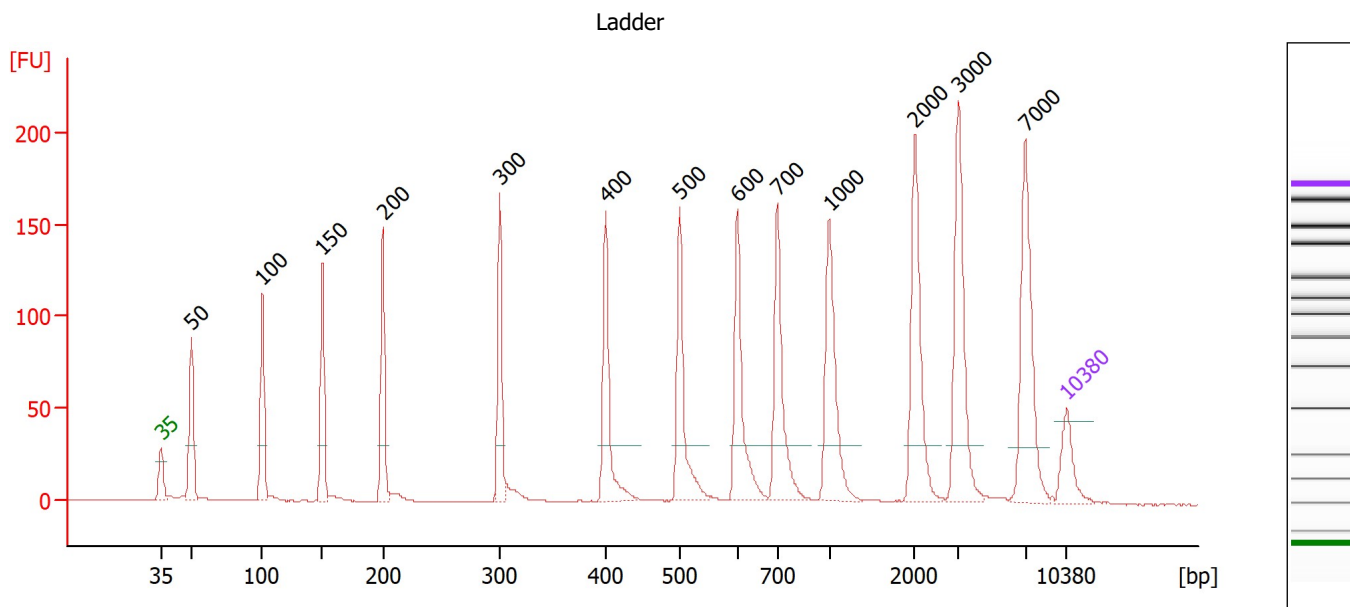
### Ladder

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:\...100 bioanalyzer\2100 expert\data\2023-11-15\AVT0080\_1-5.xad

Created: 11/15/2023 3:22:34 PM  
 Modified: 11/15/2023 4:13:16 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

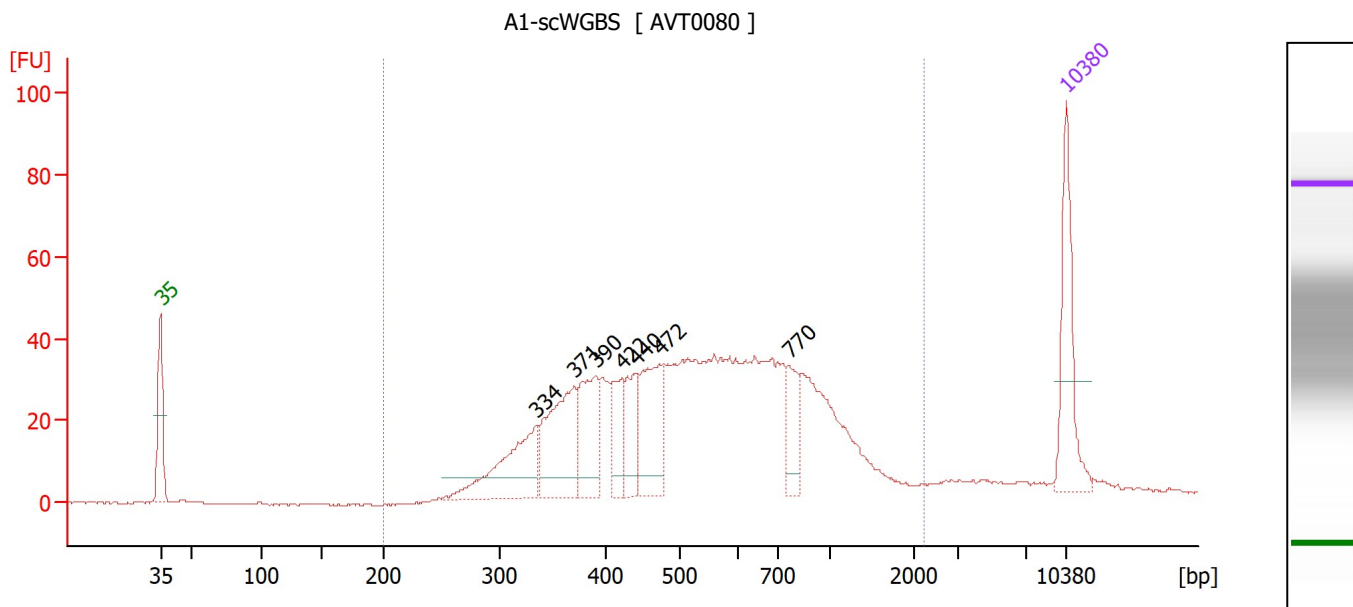
**Peak table for Ladder**

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:\...100 bioanalyzer\2100 expert\data\2023-11-15\AVT0080\_1-5.xad

Created: 11/15/2023 3:22:34 PM  
 Modified: 11/15/2023 4:13:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : A1-scWGBS**

Number of peaks found: 7                      Corr. Area 1: 984.1  
 Noise: 0.2

**Peak table for sample 5 : A1-scWGBS**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	334	110.83	502.5	
3	371	124.63	509.6	
4	390	87.64	340.1	
5	422	44.86	161.0	
6	440	54.34	186.9	
7	472	98.01	314.5	
8	770	40.89	80.5	
9	10,380	75.00	10.9	Upper Marker

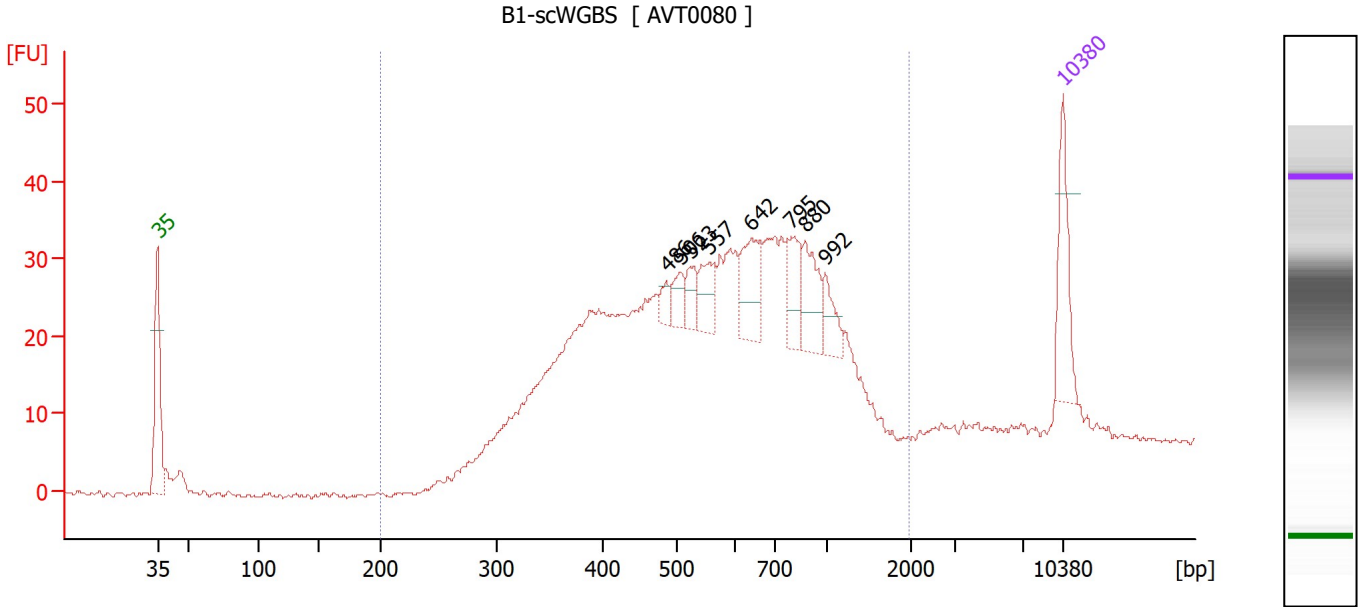
**Region table for sample 5 : A1-scWGBS**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,236	984.1	90	613	50.6	1,324.99	4,112.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-15\AVT0080\_1-5.xad

Created: 11/15/2023 3:22:34 PM  
 Modified: 11/15/2023 4:13:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : B1-scWGBS**

Number of peaks found: 8                      Corr. Area 1: 782.7  
 Noise: 0.4

**Peak table for sample 6 : B1-scWGBS**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	486	19.47	60.7	
3	506	27.33	81.9	
4	523	28.33	82.0	
5	557	46.23	125.8	
6	642	74.58	176.0	
7	795	56.60	107.9	
8	880	65.70	113.2	
9	992	34.53	52.8	
10	10,380	75.00	10.9	Upper Marker

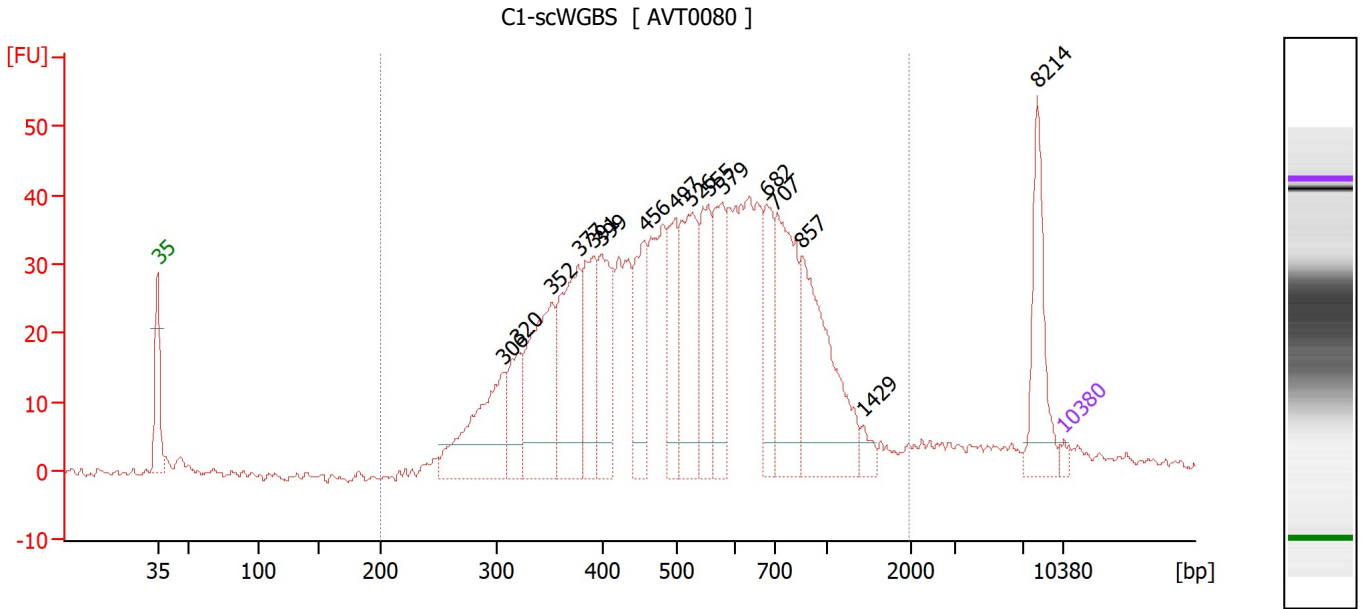
**Region table for sample 6 : B1-scWGBS**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,965	782.7	83	648	48.3	2,764.35	8,144.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-15\AVT0080\_1-5.xad

Created: 11/15/2023 3:22:34 PM  
 Modified: 11/15/2023 4:13:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : C1-scWGBS**

Number of peaks found: 16      Corr. Area 1: 1,072.8  
 Noise: 0.4

**Peak table for sample 7 : C1-scWGBS**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	306	2,160.80	10,699.2	
3	320	929.63	4,405.3	
4	352	2,447.66	10,549.1	
5	377	2,255.82	9,069.4	
6	391	1,368.47	5,298.5	
7	399	1,485.30	5,646.5	
8	456	1,342.09	4,460.0	
9	497	1,157.34	3,525.6	
10	526	1,889.14	5,444.6	
11	555	1,412.03	3,856.3	
12	579	1,316.99	3,448.9	
13	682	1,064.53	2,365.0	
14	707	2,129.61	4,563.3	
15	857	2,465.70	4,357.0	
16	1,429	185.86	197.1	
17	8,214	1,139.39	210.2	
18	10,380	75.00	10.9	Upper Marker

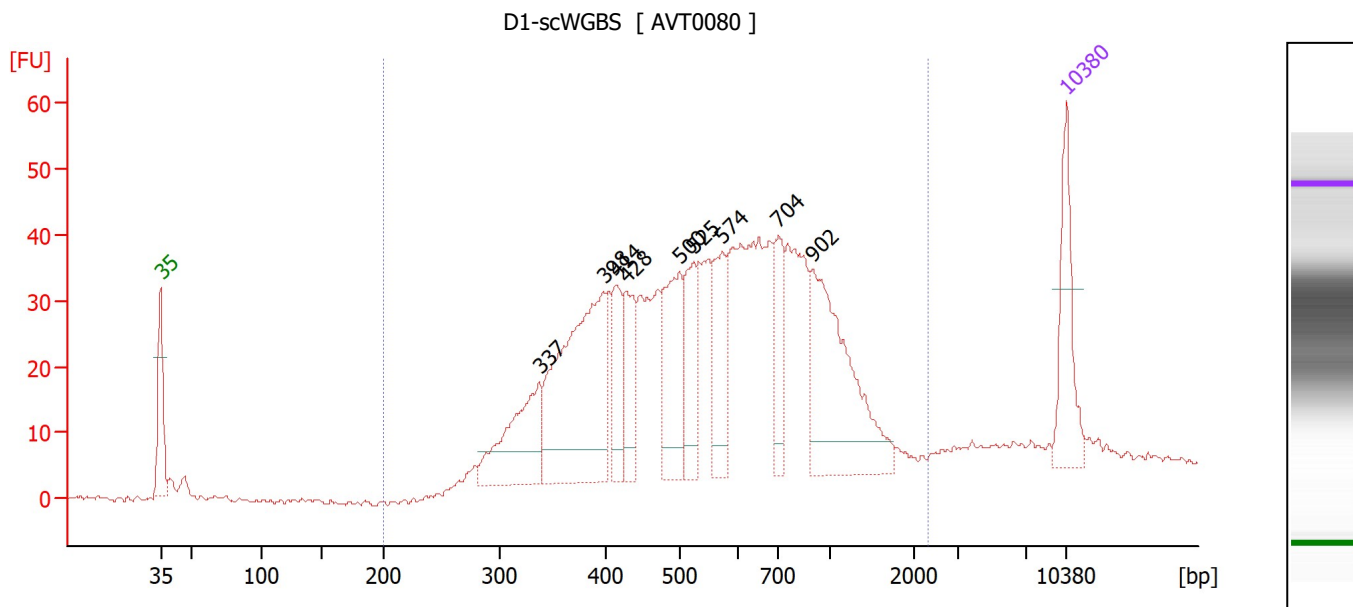
**Region table for sample 7 : C1-scWGBS**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,972	1,072.8	86	581	46.3	31,922.90	102,469.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-15\AVT0080\_1-5.xad

Created: 11/15/2023 3:22:34 PM  
 Modified: 11/15/2023 4:13:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : D1-scWGBS**

Number of peaks found: 9                      Corr. Area 1: 975.7  
 Noise: 0.5

**Peak table for sample 8 : D1-scWGBS**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	337	133.54	599.9	
3	398	302.39	1,150.6	
4	414	69.64	255.1	
5	428	71.09	251.9	
6	500	126.22	382.6	
7	525	88.03	254.3	
8	574	86.05	227.1	
9	704	65.50	140.9	
10	902	205.06	344.4	
11	10,380	75.00	10.9	Upper Marker

**Region table for sample 8 : D1-scWGBS**

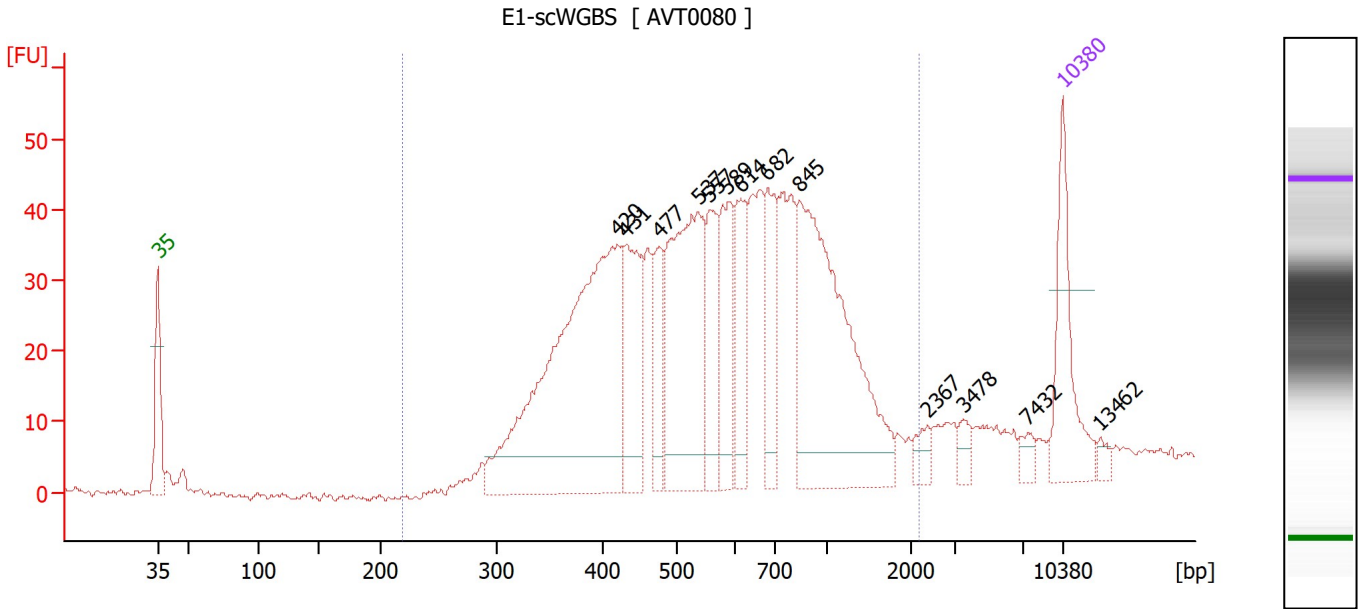
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,296	975.7	87	642	51.0	2,005.77	5,992.8	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-15\AVT0080\_1-5.xad

Created: 11/15/2023 3:22:34 PM  
 Modified: 11/15/2023 4:13:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : E1-scWGBS**

Number of peaks found: 13                      Corr. Area 1: 1,025.7  
 Noise: 0.5

**Peak table for sample 9 : E1-scWGBS**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	420	481.00	1,734.5	
3	431	118.47	416.4	
4	477	59.59	189.4	
5	537	227.48	641.7	
6	557	76.00	206.9	
7	589	88.29	227.3	
8	614	65.35	161.4	
9	682	76.89	170.8	
10	845	311.03	557.9	
11	2,367	13.36	8.6	
12	3,478	12.27	5.3	
13	7,432	10.71	2.2	
14	10,380	75.00	10.9	Upper Marker
15	13,462	0.00	0.0	

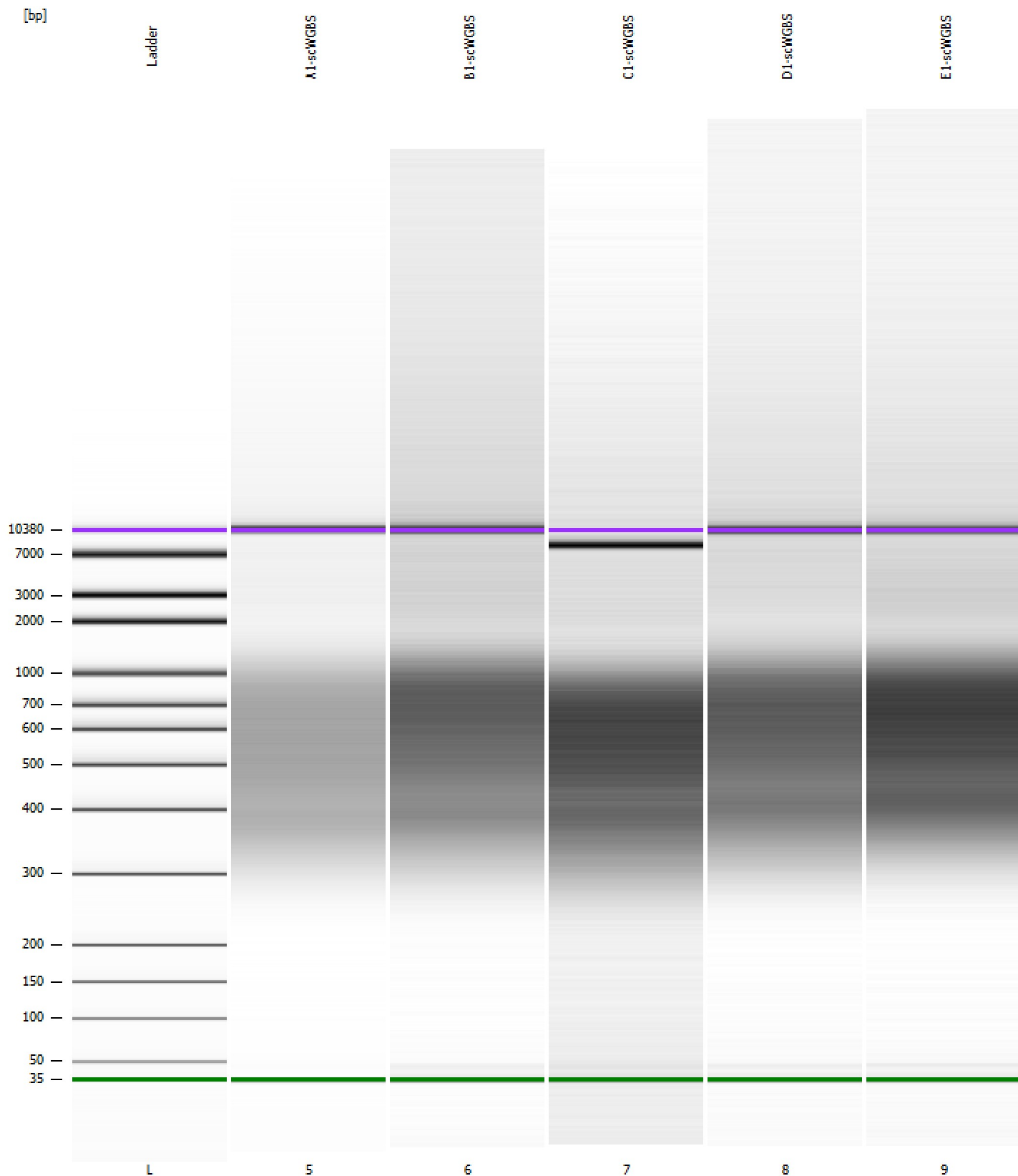
**Region table for sample 9 : E1-scWGBS**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
220	2,180	1,025.7	86	661	49.8	1,831.57	5,271.4	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-15\AVT0080\_1-5.xad

Created: 11/15/2023 3:22:34 PM  
Modified: 11/15/2023 4:13:16 PM

**Gel Image**

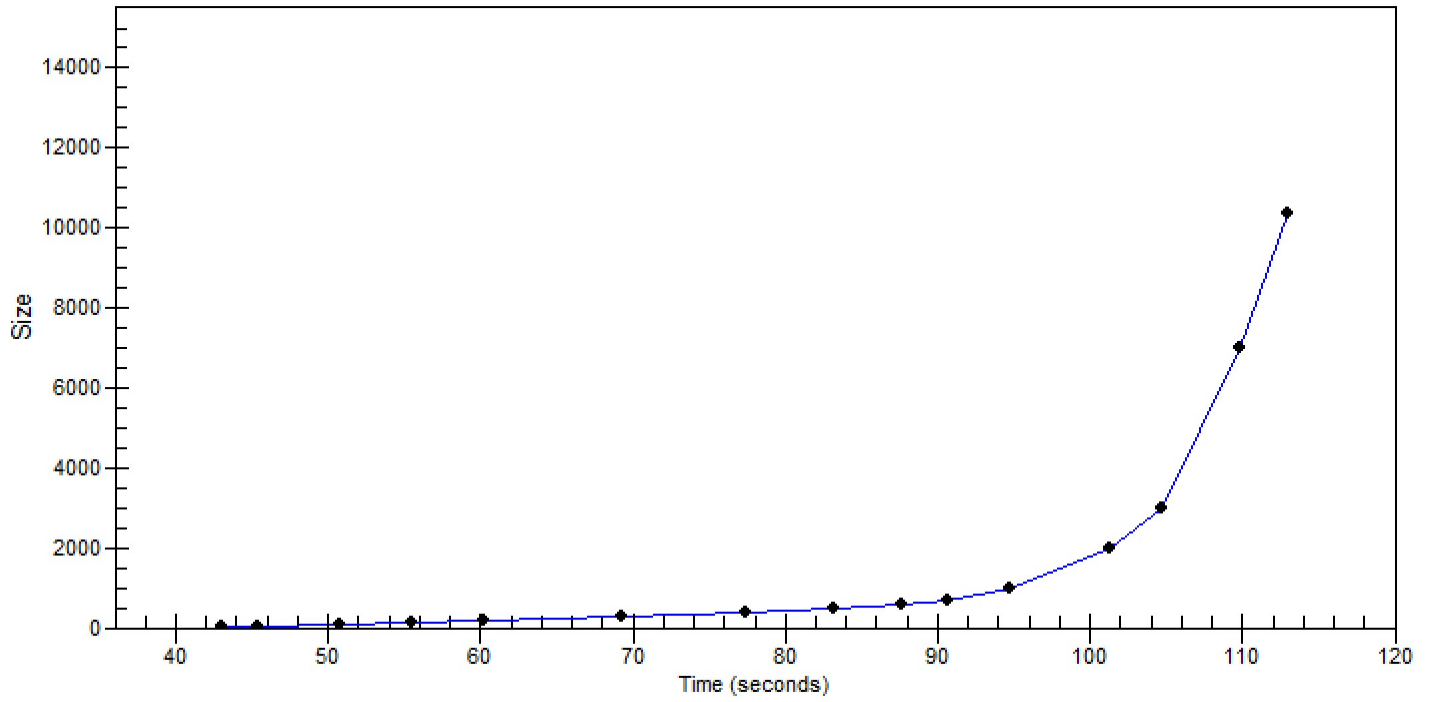


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-15\AVT0080\_1-5.xad

Created: 11/15/2023 3:22:34 PM  
Modified: 11/15/2023 4:13:16 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-15\AVT0080\_1-5.xad

Created: 11/15/2023 3:22:34 PM  
 Modified: 11/15/2023 4:13:16 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		11/15/2023 4:03:02 PM	(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\2023-11-15\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-11-15_002.xad)		Instrument	Run		11/15/2023 3:22:40 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/15/2023 3:22:40 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/15/2023 3:22:40 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/15/2023 3:22:40 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/15/2023 3:22:40 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/15/2023 3:22:40 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/15/2023 3:22:40 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB