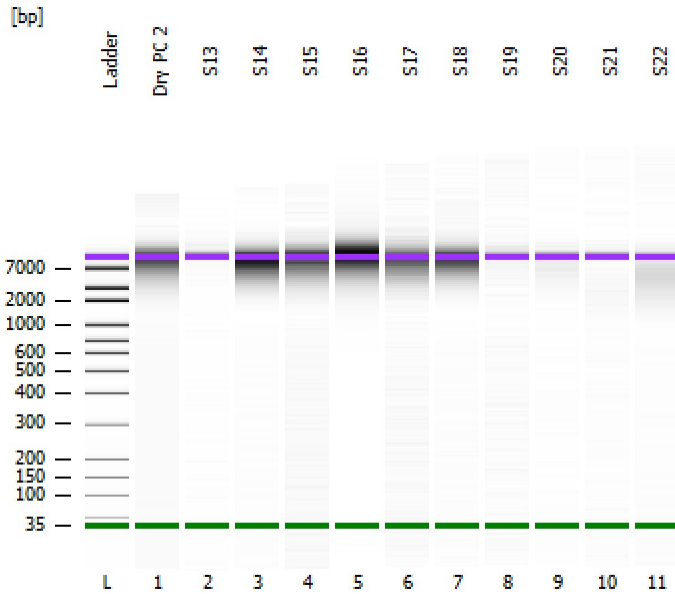


Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
Modified: 2/4/2020 10:56:06 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

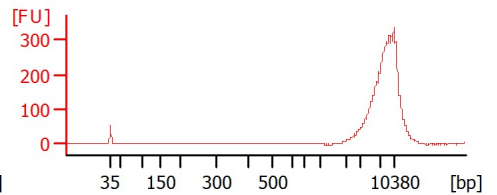
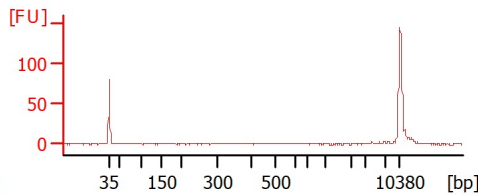
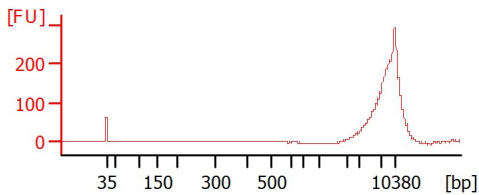
Chip Information:

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

**Dry PC 2**

**S13**

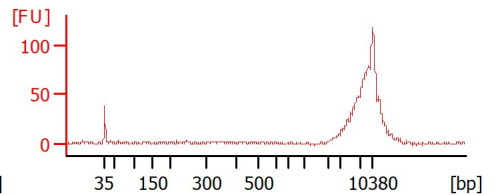
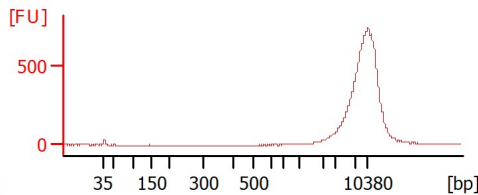
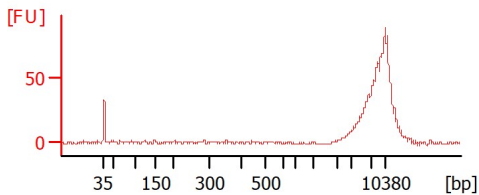
**S14**



**S15**

**S16**

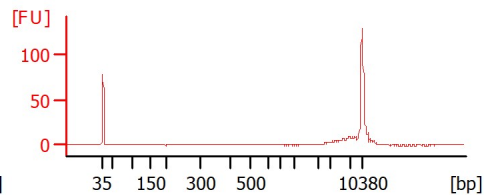
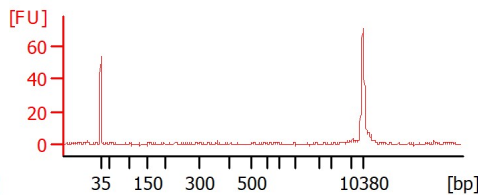
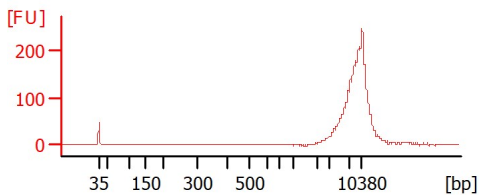
**S17**



**S18**

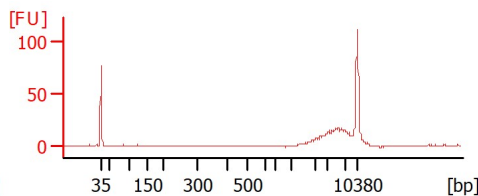
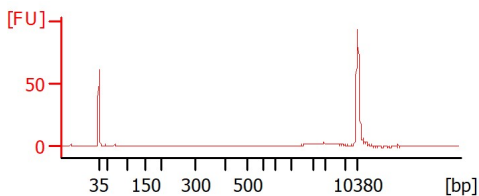
**S19**

**S20**



**S21**

**S22**



Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Dry PC 2		<input type="checkbox"/>	✓			
S13		<input type="checkbox"/>	✓			
S14		<input type="checkbox"/>	✓			
S15		<input type="checkbox"/>	✓			
S16		<input type="checkbox"/>	✓			
S17		<input type="checkbox"/>	✓			
S18		<input type="checkbox"/>	✓			
S19		<input type="checkbox"/>	✓			
S20		<input type="checkbox"/>	✓			
S21		<input type="checkbox"/>	✓			
S22		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 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

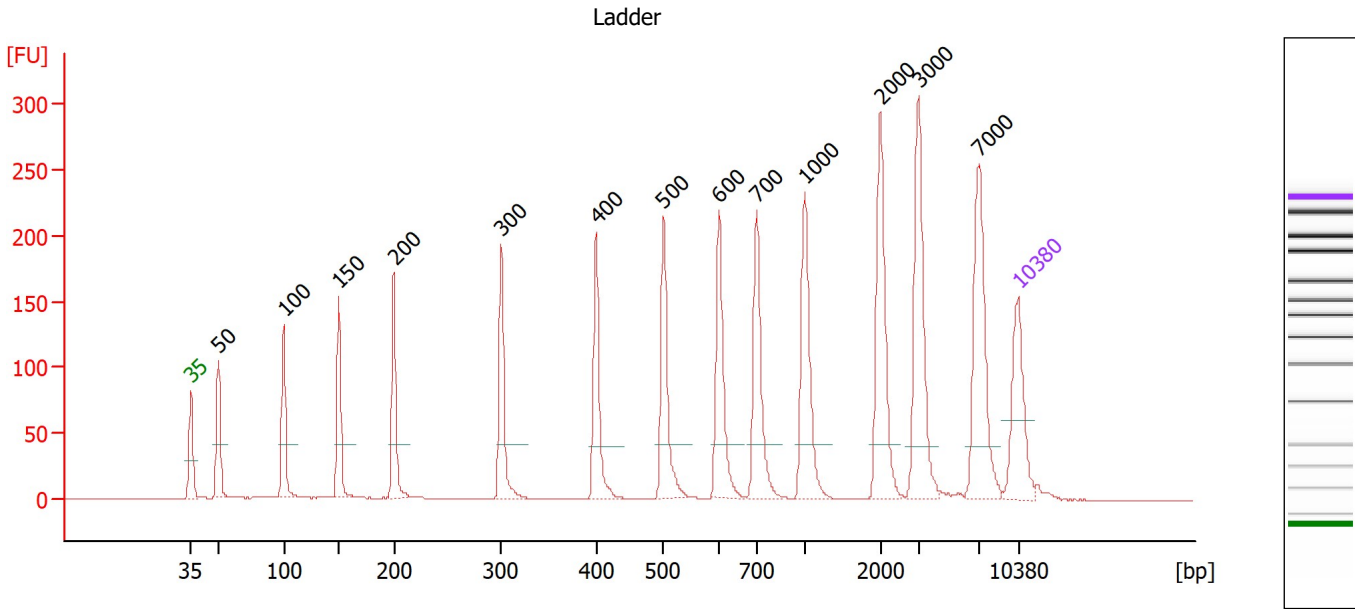
**Ladder**

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: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

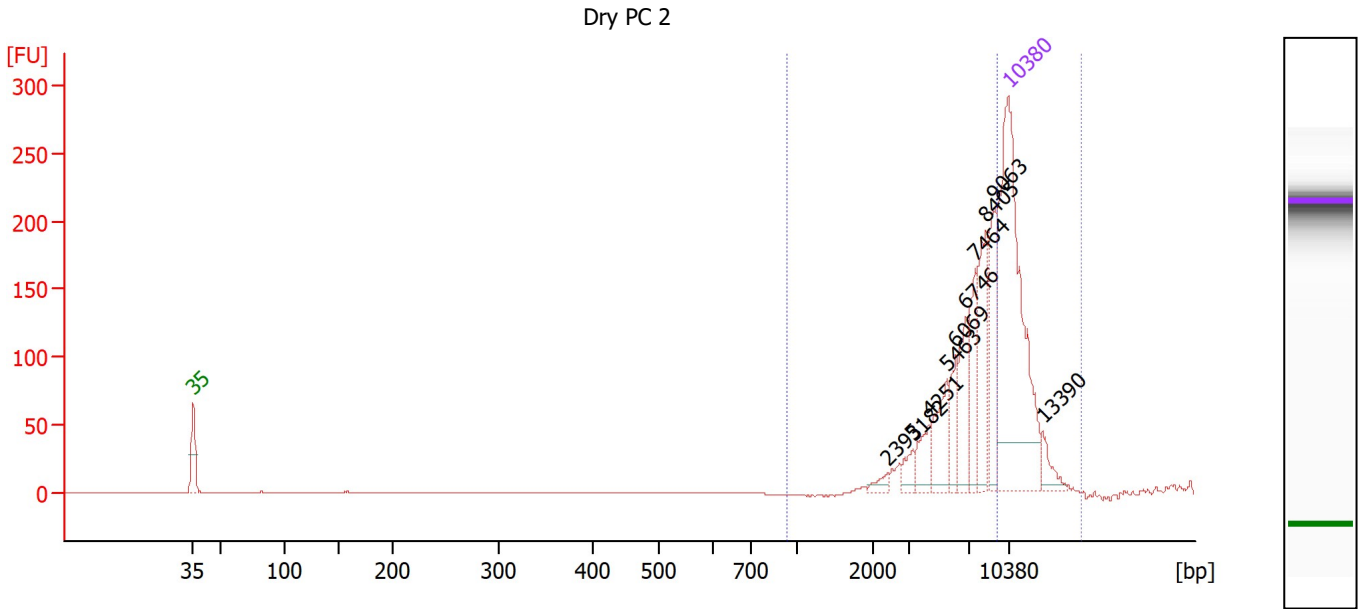
**Peak table for Ladder**

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: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Dry PC 2**

Number of peaks found: 10                      Corr. Area 1: 776.8  
 Noise: 0.3    Corr. Area 2: 744.8

**Peak table for sample 1 : Dry PC 2**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	2,395	2.34	1.5	
3	3,182	4.03	1.9	
4	4,251	7.41	2.6	
5	5,463	13.71	3.8	
6	6,069	8.74	2.2	
7	6,746	13.82	3.1	
8	7,464	15.91	3.2	
9	8,405	19.81	3.6	
10	9,063	18.34	3.1	
11	10,380	75.00	10.9	Upper Marker
12	13,390	0.00	0.0	

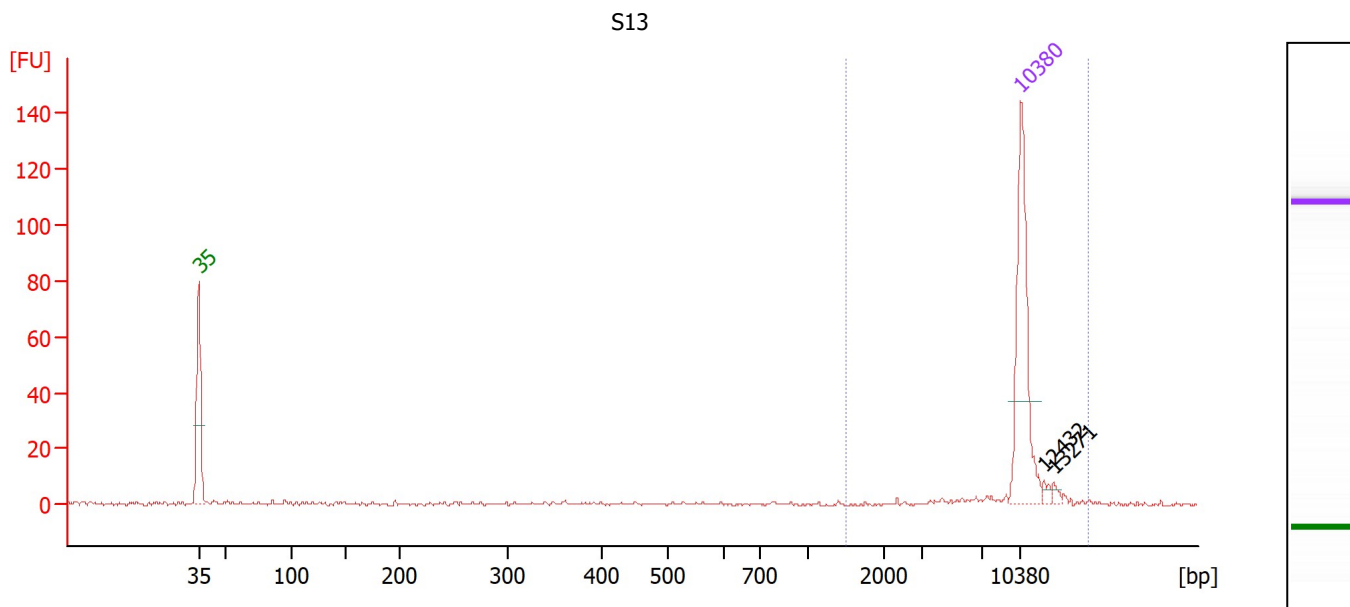
**Region table for sample 1 : Dry PC 2**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
927	16,901	776.8	100	8,675	30.5	106.86	25.9	Blue
927	9,481	744.8	96	6,819	27.8	102.75	25.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : S13**

Number of peaks found: 2                      Corr. Area 1: 23.3  
 Noise: 0.4

**Peak table for sample 2 : S13**

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
3	12,432	0.00	0.0	
4	13,271	0.00	0.0	

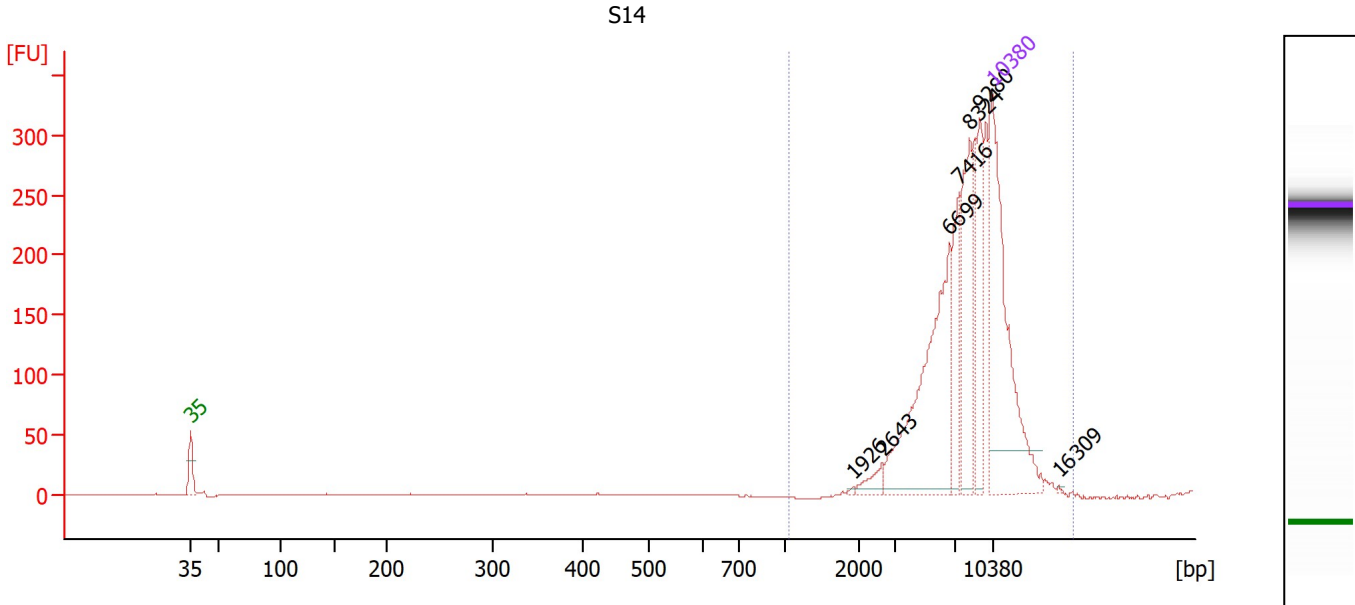
**Region table for sample 2 : S13**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
1,496	16,325	23.3	75	10,532	14.9	13.51	2.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : S14**

Number of peaks found: 7      Corr. Area 1: 1,394.5  
 Noise: 0.3

**Peak table for sample 3 : S14**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,926	0.52	0.4	
3	2,643	5.11	2.9	
4	6,699	77.55	17.5	
5	7,416	23.37	4.8	
6	8,324	39.30	7.2	
7	9,280	25.59	4.2	
8	10,380	75.00	10.9	Upper Marker
9	16,309	0.00	0.0	

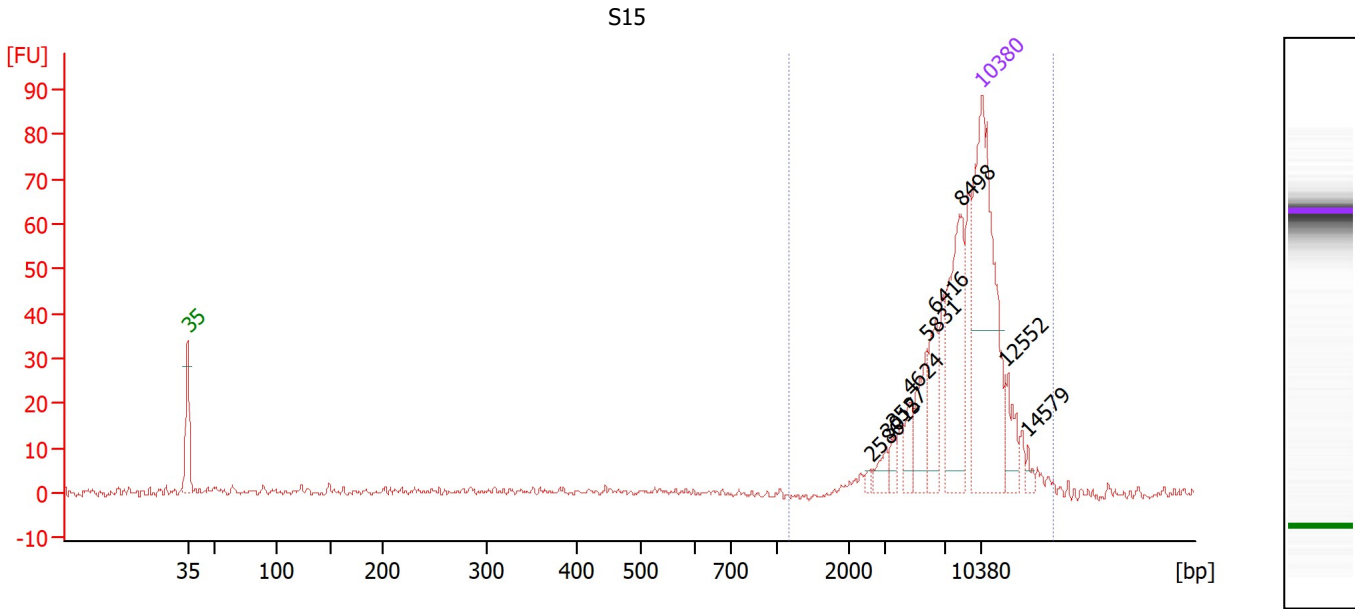
**Region table for sample 3 : S14**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
1,056	17,605	1,394.5	100	8,348	32.3	202.96	47.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : S15**

Number of peaks found: 9                      Corr. Area 1: 298.6  
 Noise: 0.9

**Peak table for sample 4 : S15**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	2,586	1.52	0.9	
3	3,015	4.77	2.4	
4	3,527	3.55	1.5	
5	4,624	7.54	2.5	
6	5,831	15.20	3.9	
7	6,416	16.23	3.8	
8	8,498	41.61	7.4	
9	10,380	75.00	10.9	Upper Marker
10	12,552	0.00	0.0	
11	14,579	0.00	0.0	

**Region table for sample 4 : S15**

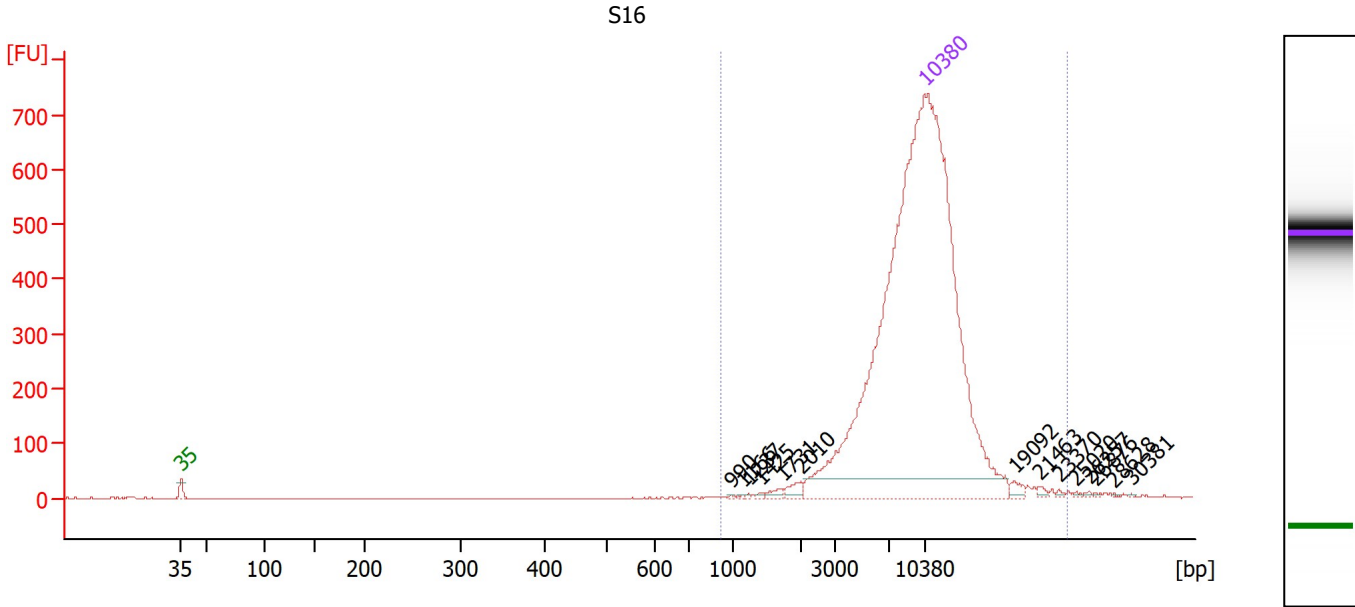
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
1,177	16,947	298.6	82	8,765	33.4	143.73	33.8	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : S16**

Number of peaks found: 14                      Corr. Area 1: 155.4  
 Noise: 0.4

**Peak table for sample 5 : S16**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	990	0.07	0.1	
3	1,166	0.07	0.1	
4	1,237	0.09	0.1	
5	1,425	0.14	0.1	
6	1,731	0.41	0.4	
7	2,010	0.67	0.5	
8	10,380	75.00	10.9	Upper Marker
9	19,092	0.00	0.0	
10	21,463	0.00	0.0	
11	23,370	0.00	0.0	
12	25,020	0.00	0.0	
13	26,257	0.00	0.0	
14	26,876	0.00	0.0	
15	28,628	0.00	0.0	
16	30,381	0.00	0.0	

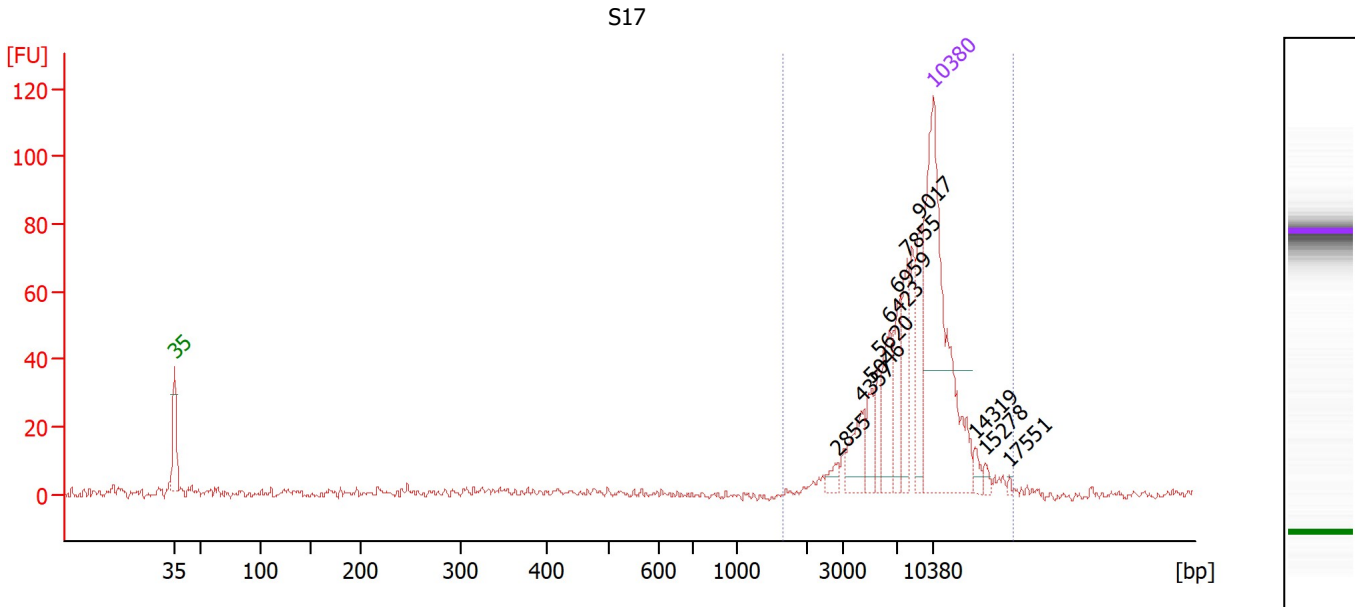
**Region table for sample 5 : S16**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
919	24,115	155.4	79	9,768	36.7	2.39	1.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : S17**

Number of peaks found: 11                      Corr. Area 1: 318.0  
 Noise: 1.3

**Peak table for sample 6 : S17**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	2,855	3.06	1.6	
3	4,357	11.12	3.9	
4	5,046	7.66	2.3	
5	5,620	7.16	1.9	
6	6,423	16.22	3.8	
7	6,959	11.02	2.4	
8	7,855	15.73	3.0	
9	9,017	14.79	2.5	
10	10,380	75.00	10.9	Upper Marker
11	14,319	0.00	0.0	
12	15,278	0.00	0.0	
13	17,551	0.00	0.0	

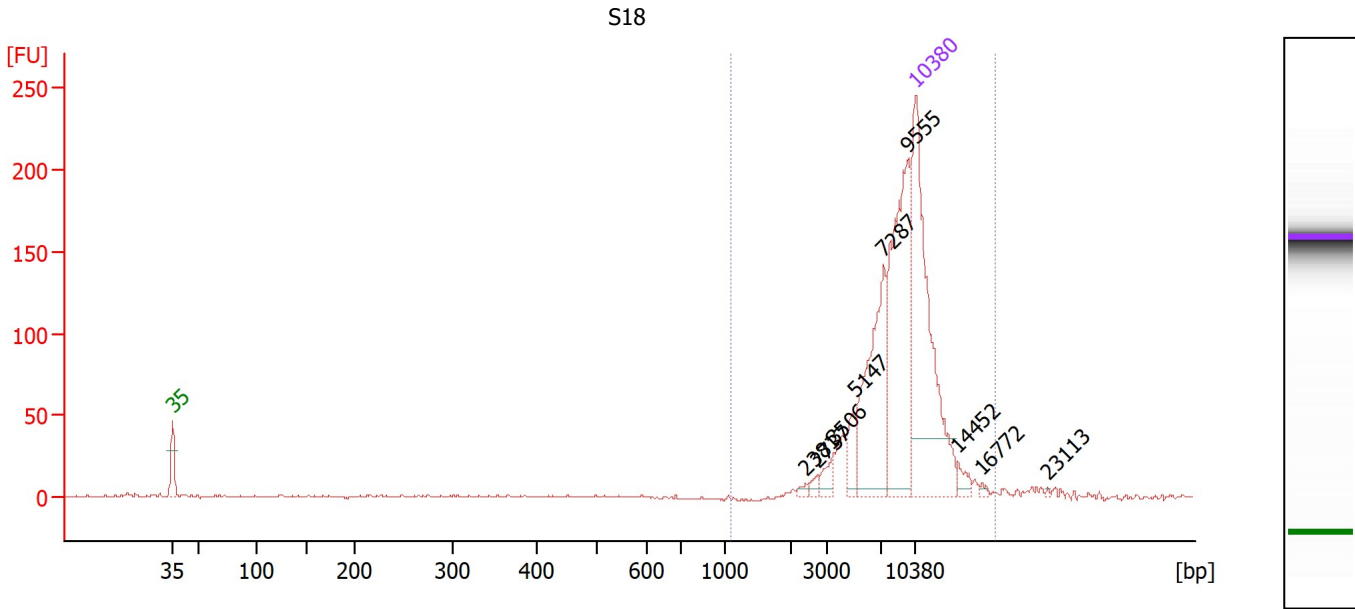
**Region table for sample 6 : S17**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
1,656	17,960	318.0	78	8,750	33.6	108.11	26.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : S18**

Number of peaks found: 9                      Corr. Area 1: 761.5  
 Noise: 0.6

**Peak table for sample 7 : S18**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	2,381	1.43	0.9	
3	2,737	2.13	1.2	
4	3,506	4.64	2.0	
5	5,147	8.37	2.5	
6	7,287	46.92	9.8	
7	9,555	63.91	10.1	
8	10,380	75.00	10.9	Upper Marker
9	14,452	0.00	0.0	
10	16,772	0.00	0.0	
11	23,113	0.00	0.0	

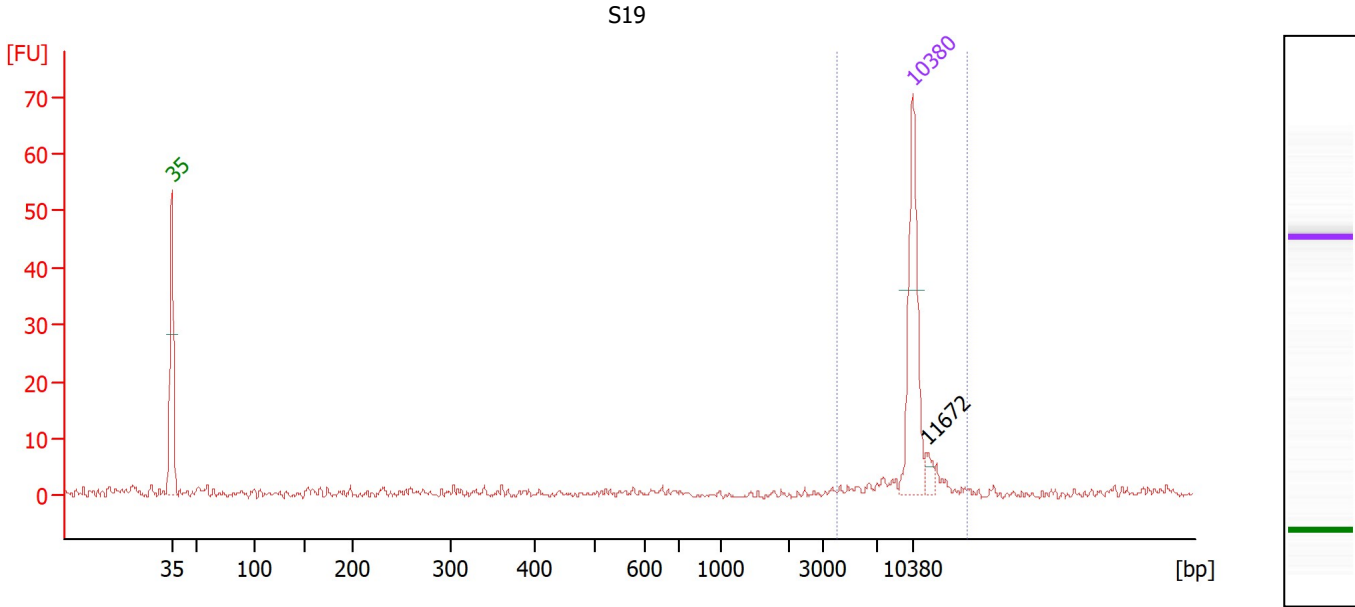
**Region table for sample 7 : S18**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
1,091	18,012	761.5	91	8,876	31.5	141.78	32.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : S19**

Number of peaks found: 1      Corr. Area 1: 17.4  
 Noise: 0.5

**Peak table for sample 8 : S19**

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
3	11,672	0.00	0.0	

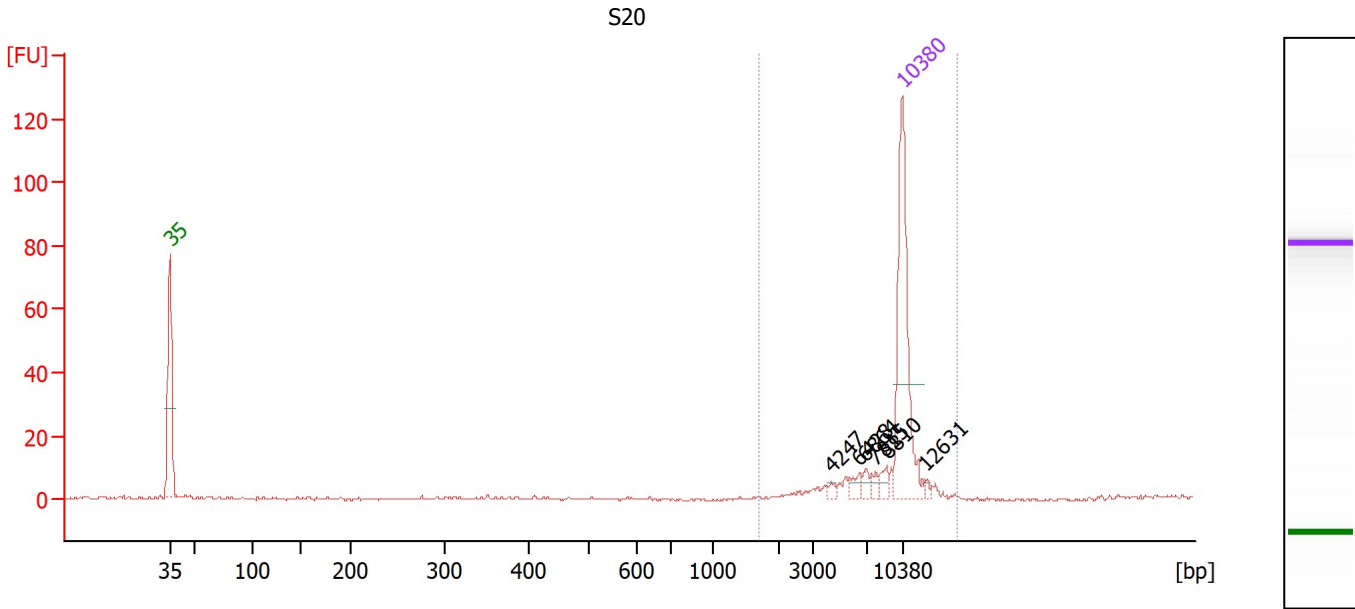
**Region table for sample 8 : S19**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
3,922	15,625	17.4	19	10,346	14.9	21.05	3.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : S20**

Number of peaks found: 6                      Corr. Area 1: 50.8  
 Noise: 0.2

**Peak table for sample 9 : S20**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	4,247	2.47	0.9	
3	6,428	4.94	1.2	
4	6,864	4.08	0.9	
5	7,815	3.48	0.7	
6	8,810	4.88	0.8	
7	10,380	75.00	10.9	Upper Marker
8	12,631	0.00	0.0	

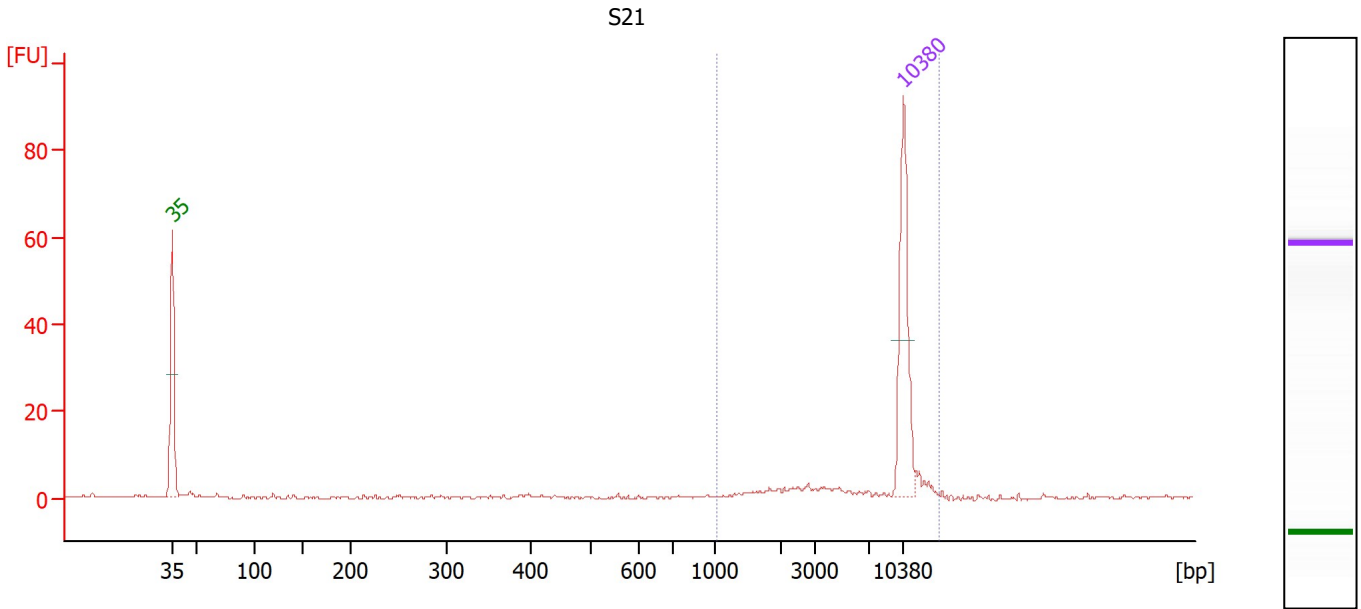
**Region table for sample 9 : S20**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
1,675	15,820	50.8	78	9,525	24.6	32.55	8.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : S21**

Number of peaks found: 0                      Corr. Area 1: 28.0  
 Noise: 0.2

**Peak table for sample 10 : S21**

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

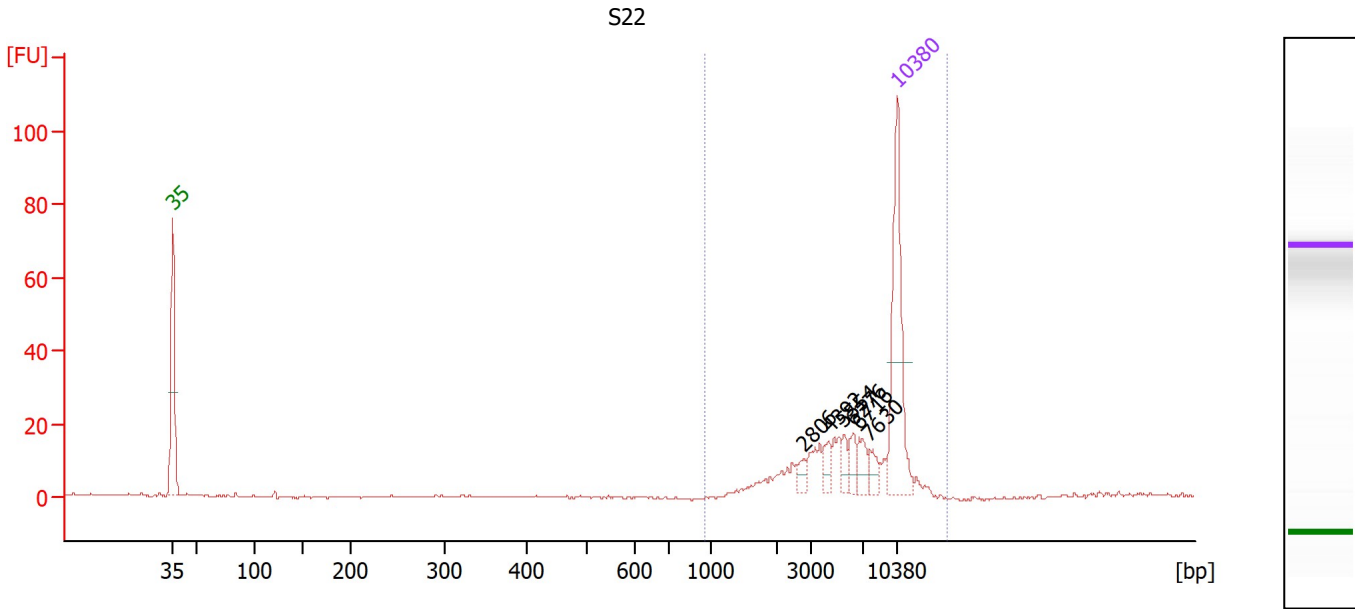
**Region table for sample 10 : S21**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
1,050	13,885	28.0	65	9,190	33.1	29.20	13.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : S22**

Number of peaks found: 6                      Corr. Area 1: 132.4  
 Noise: 0.2

**Peak table for sample 11 : S22**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	2,806	6.46	3.5	
3	4,392	8.77	3.0	
4	5,554	7.71	2.1	
5	6,276	9.72	2.3	
6	6,716	12.22	2.8	
7	7,630	8.78	1.7	
8	10,380	75.00	10.9	Upper Marker

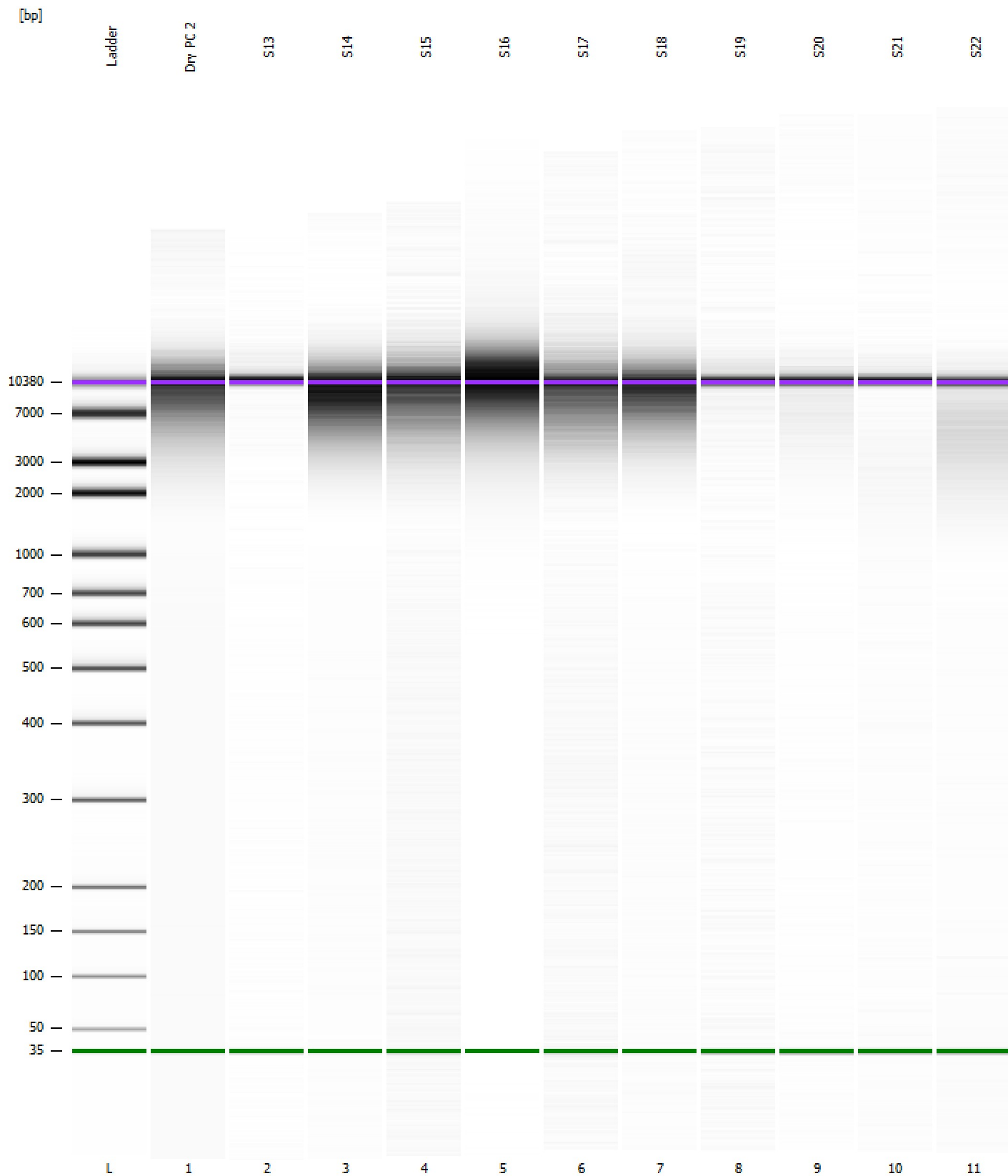
**Region table for sample 11 : S22**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
958	15,221	132.4	97	7,384	44.3	111.83	42.6	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
Modified: 2/4/2020 10:56:06 AM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-04\_002.xad

Created: 2/4/2020 10:11:32 AM  
 Modified: 2/4/2020 10:56:06 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		2/4/2020 10:52:02 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-02-04\Bioanalyze r1_High Sensitivity DNA Assay_2020-02-04_002.xad)		Instrument	Run		2/4/2020 10:11:38 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		2/4/2020 10:11:38 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		2/4/2020 10:11:38 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		2/4/2020 10:11:38 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		2/4/2020 10:11:38 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		2/4/2020 10:11:38 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		2/4/2020 10:11:38 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB