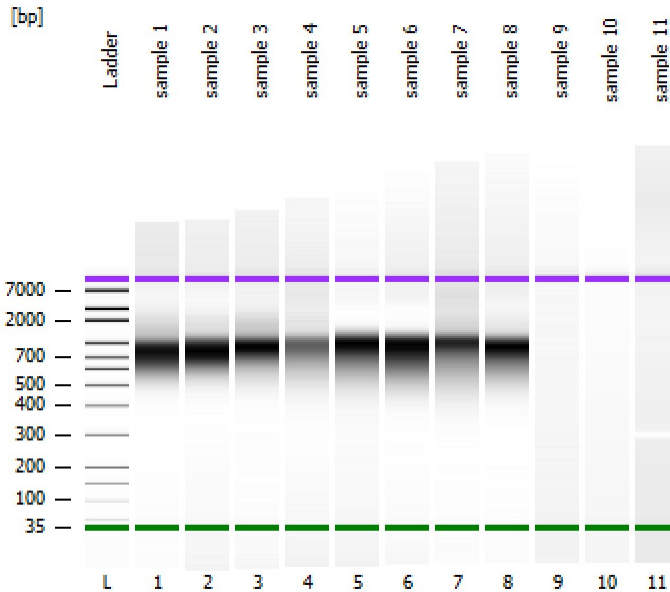


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
Modified: 6/10/2020 3:06:21 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

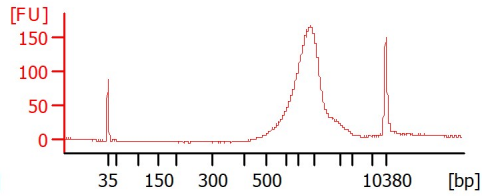
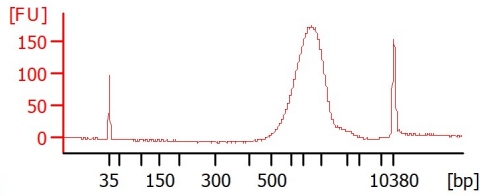
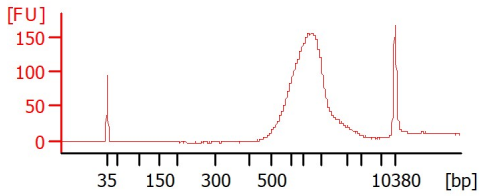
Chip Information:

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

sample 1

sample 2

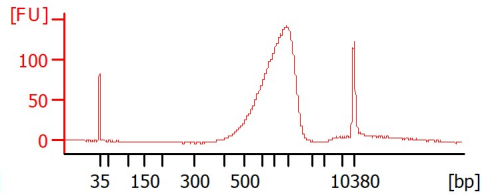
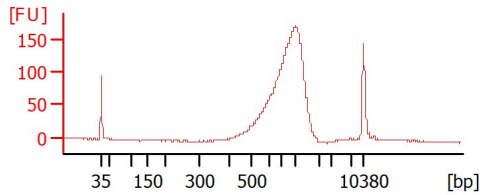
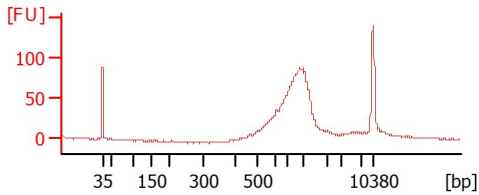
sample 3



sample 4

sample 5

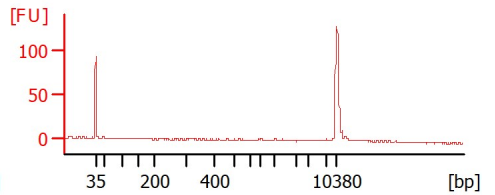
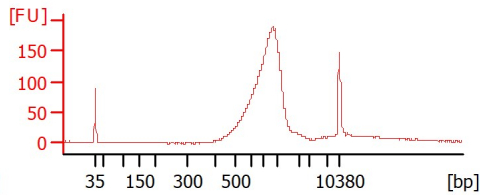
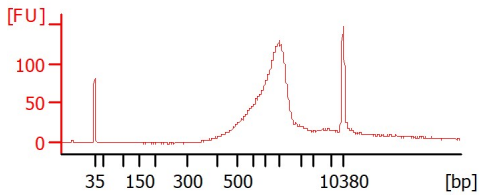
sample 6



sample 7

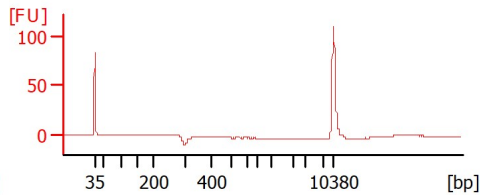
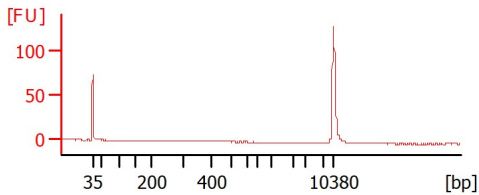
sample 8

sample 9



sample 10

sample 11



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 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

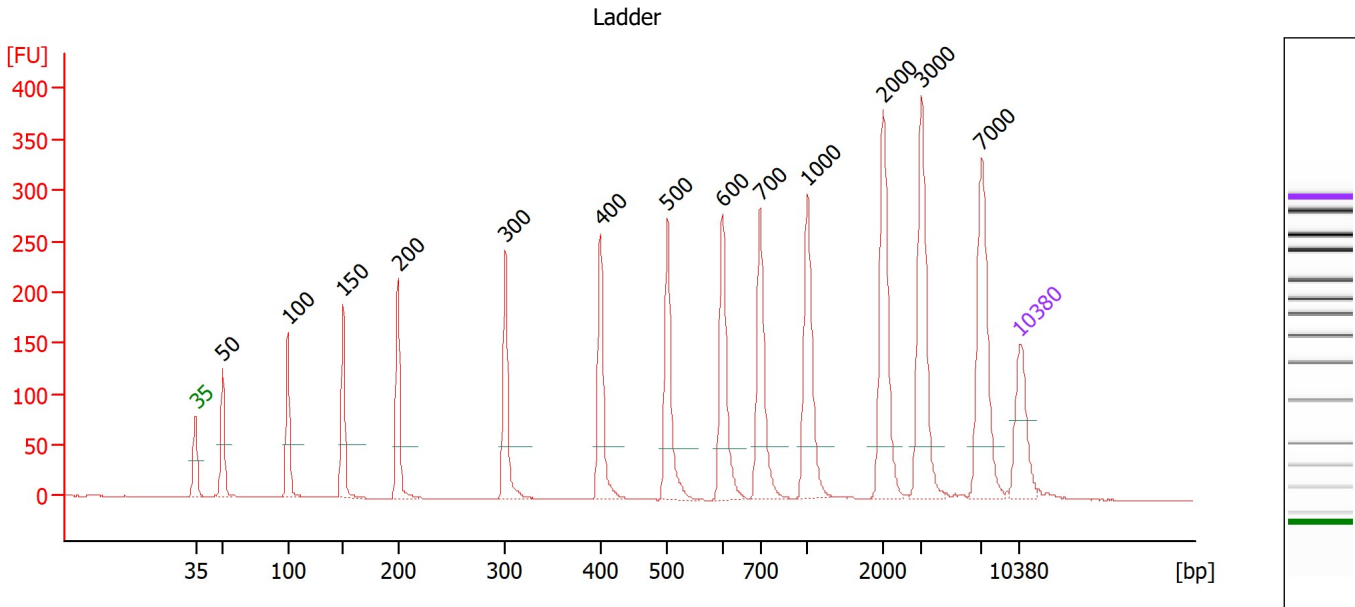
Ladder

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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

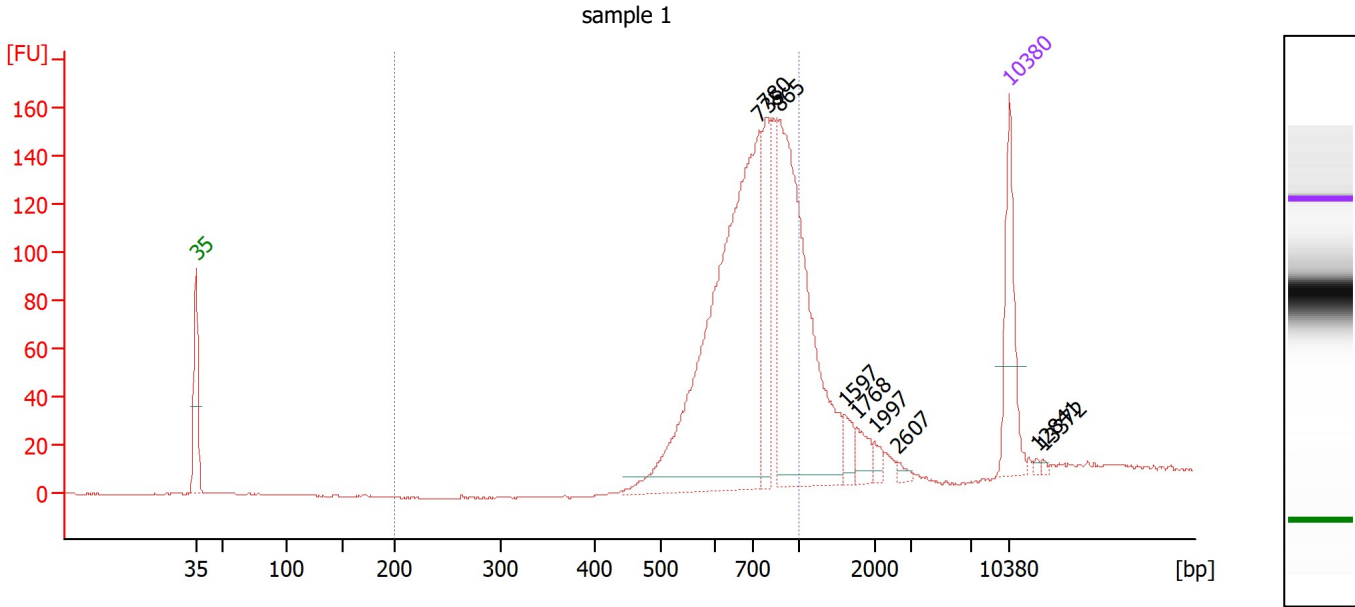
Peak table for Ladder

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_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 9 Corr. Area 1: 1,247.1
 Noise: 0.2

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	735	604.31	1,244.9	
3	780	94.19	183.0	
4	865	376.17	658.6	
5	1,597	18.67	17.7	
6	1,768	19.04	16.3	
7	1,997	8.47	6.4	
8	2,607	4.84	2.8	
9	10,380	75.00	10.9	Upper Marker
10	12,841	0.00	0.0	
11	13,372	0.00	0.0	

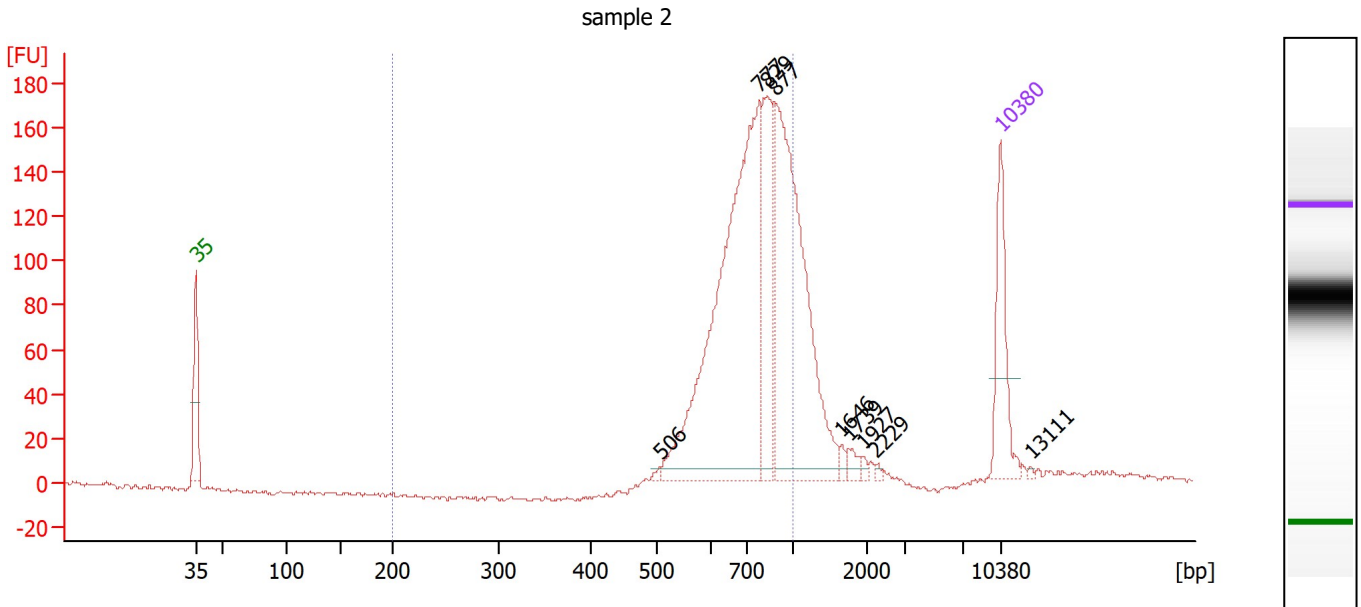
Region table for sample 1 : sample 1

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	1,247.1	80	735	17.9	941.76	2,010.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 9 Corr. Area 1: 1,295.8
 Noise: 0.9

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	506	3.59	10.7	
3	777	571.80	1,114.8	
4	829	138.90	253.9	
5	877	392.42	677.7	
6	1,646	5.62	5.2	
7	1,739	10.04	8.7	
8	1,927	3.75	3.0	
9	2,229	2.14	1.5	
10	10,380	75.00	10.9	Upper Marker
11	13,111	0.00	0.0	

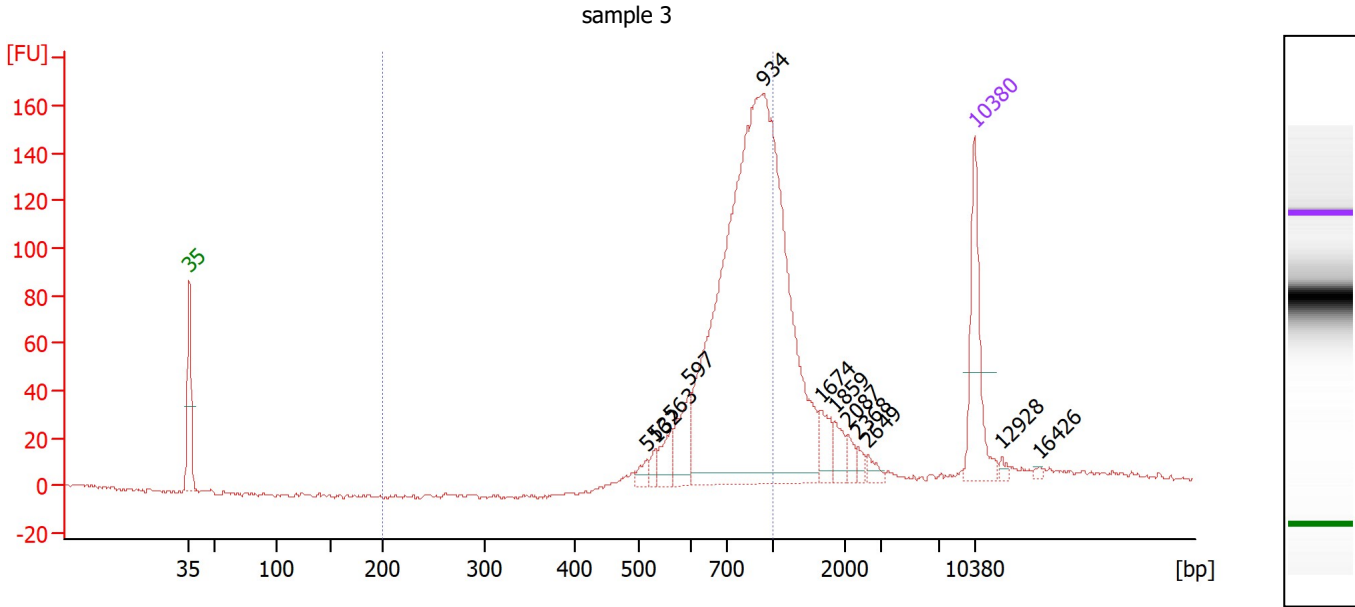
Region table for sample 2 : sample 2

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	1,295.8	79	754	17.1	949.55	1,970.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 12 Corr. Area 1: 971.5
 Noise: 0.9

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	516	10.93	32.1	
3	532	9.02	25.7	
4	563	27.75	74.7	
5	597	46.43	117.9	
6	934	864.45	1,403.1	
7	1,674	24.25	21.9	
8	1,859	16.98	13.8	
9	2,087	10.12	7.3	
10	2,368	6.60	4.2	
11	2,649	7.81	4.5	
12	10,380	75.00	10.9	Upper Marker
13	12,928	0.00	0.0	
14	16,426	0.00	0.0	

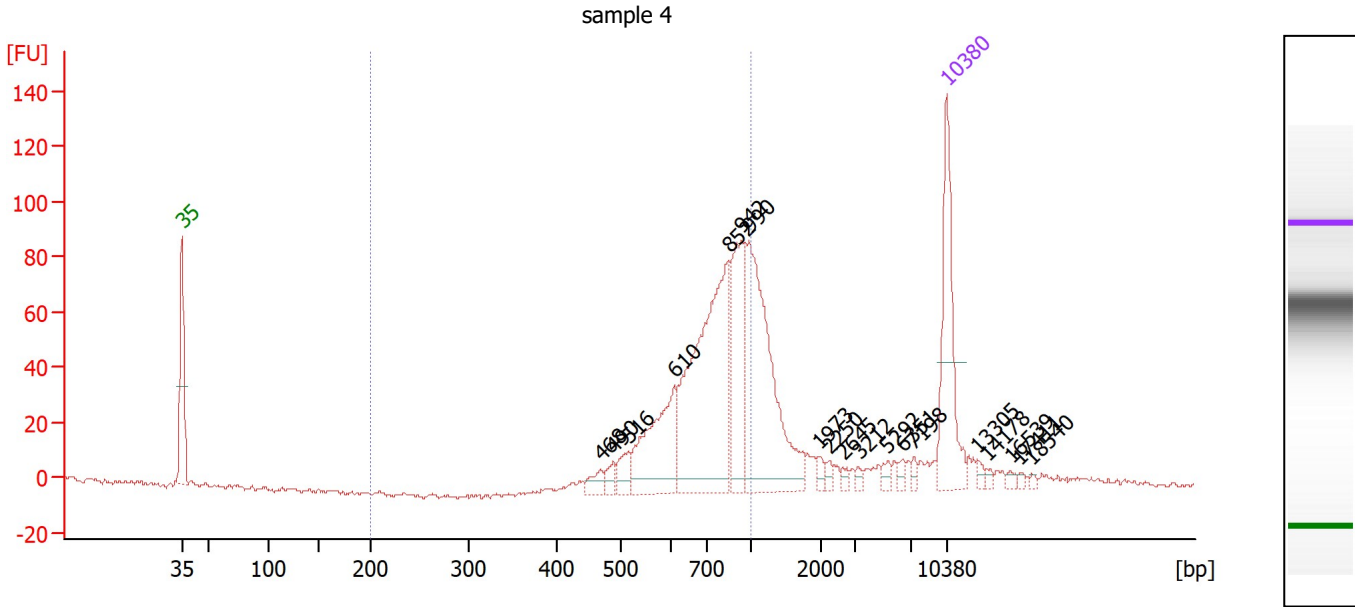
Region table for sample 3 : sample 3

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	971.5	68	780	17.1	747.04	1,502.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 19 Corr. Area 1: 596.8
 Noise: 1.0

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	468	11.41	36.9	
3	490	9.25	28.6	
4	516	17.26	50.7	
5	610	89.63	222.6	
6	852	214.25	381.2	
7	942	88.28	141.9	
8	990	167.86	257.0	
9	1,973	4.61	3.5	
10	2,250	4.21	2.8	
11	2,645	3.67	2.1	
12	3,212	3.21	1.5	
13	5,292	4.68	1.3	
14	6,351	4.46	1.1	
15	7,198	3.66	0.8	
16	10,380	75.00	10.9	Upper Marker
17	13,305	0.00	0.0	
18	14,178	0.00	0.0	
19	16,539	0.00	0.0	
20	17,411	0.00	0.0	
21	18,540	0.00	0.0	

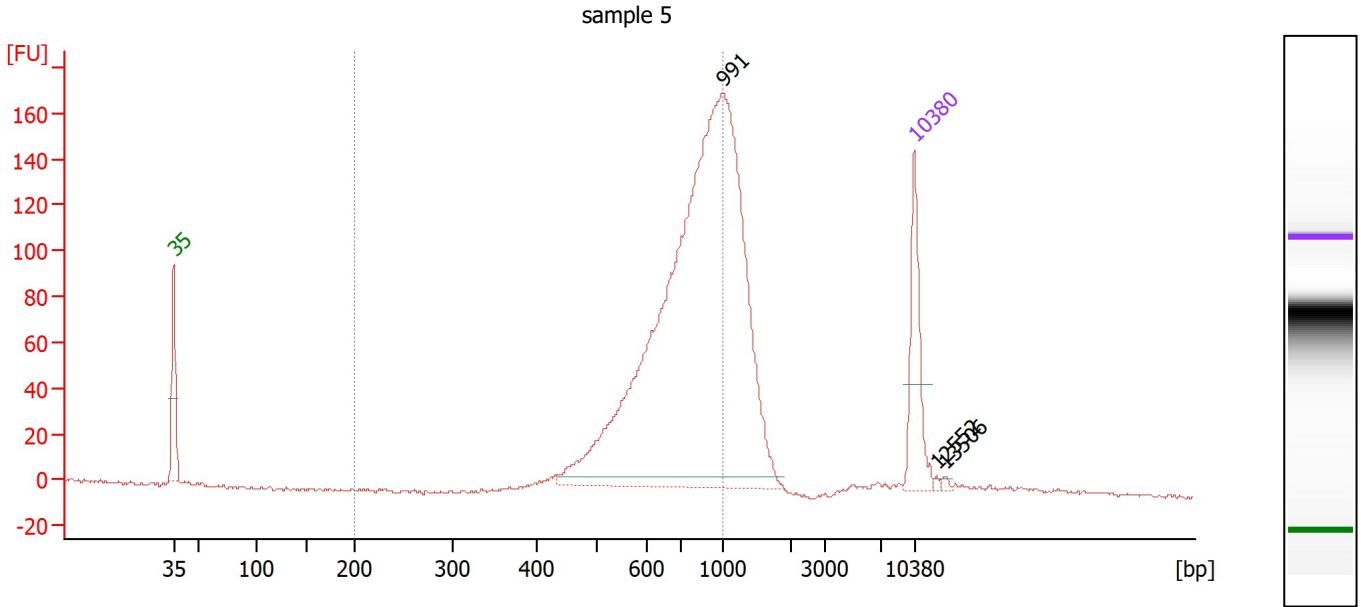
Region table for sample 4 : sample 4

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	596.8	65	754	19.0	415.70	873.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 3 Corr. Area 1: 1,209.3
 Noise: 0.6

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	991	1,072.37	1,639.7	
3	10,380	75.00	10.9	Upper Marker
4	12,552	0.00	0.0	
5	13,506	0.00	0.0	

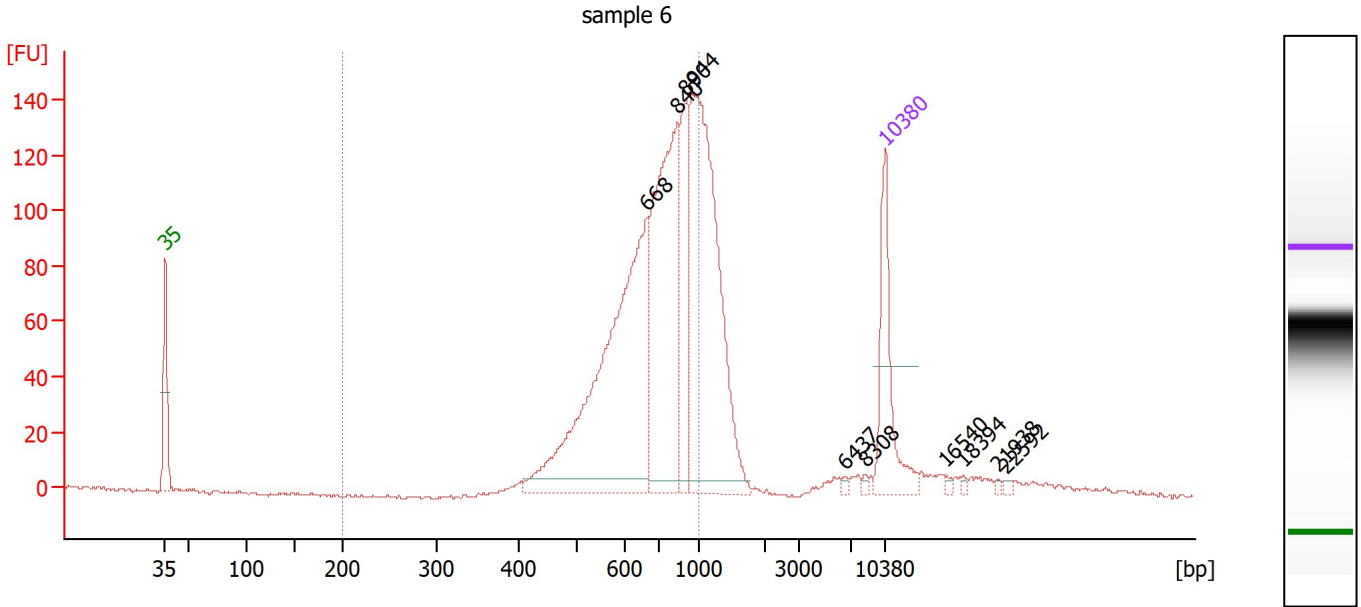
Region table for sample 5 : sample 5

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	1,209.3	70	738	20.6	895.53	1,944.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 10 Corr. Area 1: 1,231.5
 Noise: 0.6

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	668	412.18	934.7	
3	840	269.57	486.3	
4	890	91.70	156.1	
5	944	341.57	548.1	
6	6,437	2.21	0.5	
7	8,308	2.38	0.4	
8	10,380	75.00	10.9	Upper Marker
9	16,540	0.00	0.0	
10	18,394	0.00	0.0	
11	21,938	0.00	0.0	
12	22,592	0.00	0.0	

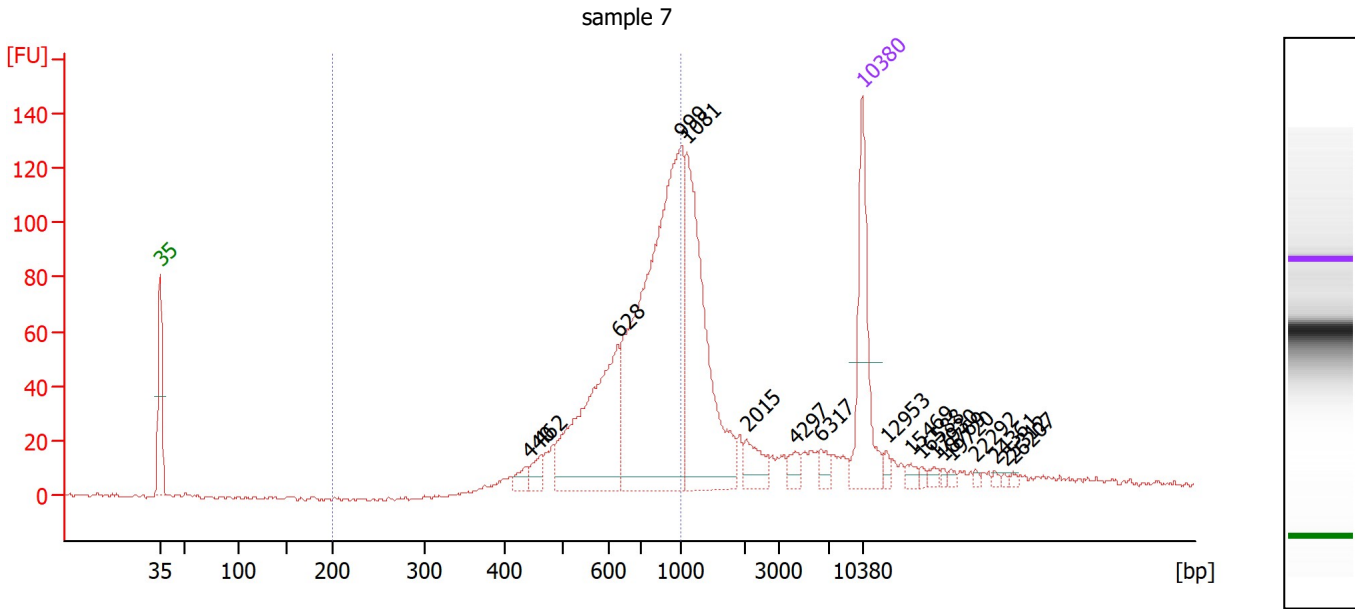
Region table for sample 6 : sample 6

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	1,231.5	74	718	21.0	904.35	2,020.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 18 Corr. Area 1: 884.5
 Noise: 0.7

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	440	10.43	35.9	
3	462	14.86	48.7	
4	628	167.87	405.0	
5	999	371.90	564.0	
6	1,081	189.18	265.2	
7	2,015	21.10	15.9	
8	4,297	9.28	3.3	
9	6,317	8.08	1.9	
10	10,380	75.00	10.9	Upper Marker
11	12,953	0.00	0.0	
12	15,469	0.00	0.0	
13	16,588	0.00	0.0	
14	17,930	0.00	0.0	
15	18,769	0.00	0.0	
16	19,720	0.00	0.0	
17	22,292	0.00	0.0	
18	24,361	0.00	0.0	
19	25,312	0.00	0.0	
20	26,207	0.00	0.0	

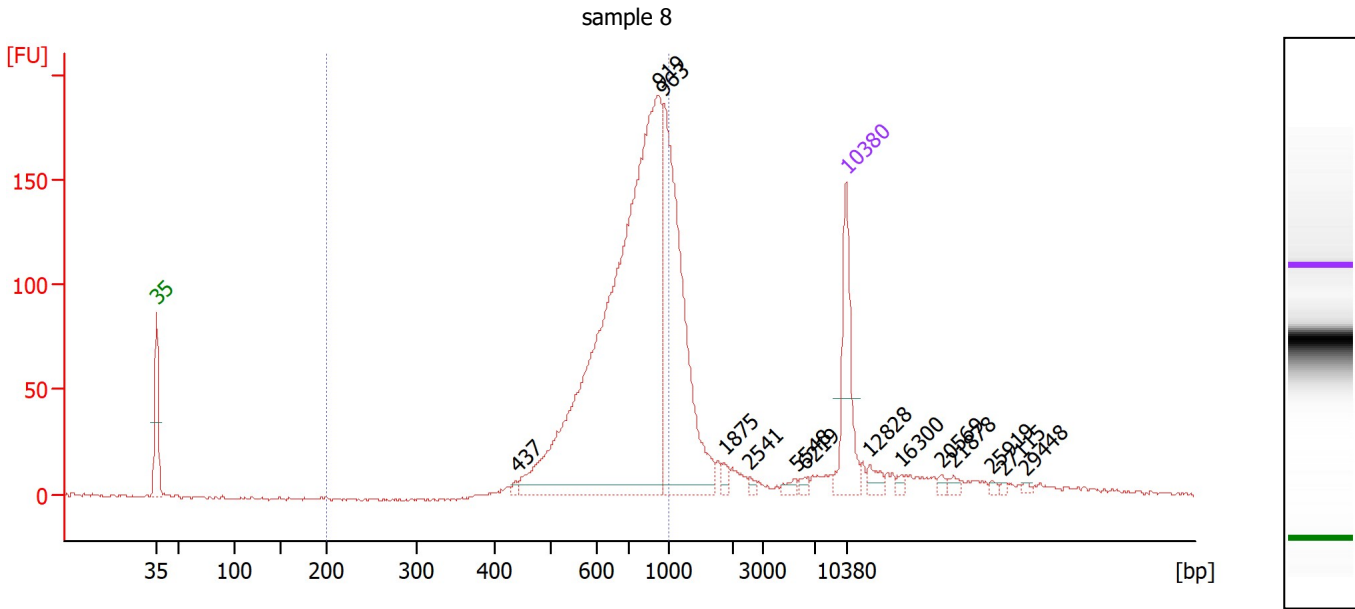
Region table for sample 7 : sample 7

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	884.5	60	722	22.5	605.58	1,364.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 14 Corr. Area 1: 1,383.0
 Noise: 0.7

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	437	4.15	14.4	
3	919	827.04	1,363.7	
4	963	307.61	483.9	
5	1,875	7.04	5.7	
6	2,541	3.68	2.2	
7	5,548	5.44	1.5	
8	6,219	4.75	1.2	
9	10,380	75.00	10.9	Upper Marker
10	12,828	0.00	0.0	
11	16,300	0.00	0.0	
12	20,569	0.00	0.0	
13	21,878	0.00	0.0	
14	25,919	0.00	0.0	
15	27,115	0.00	0.0	
16	29,448	0.00	0.0	

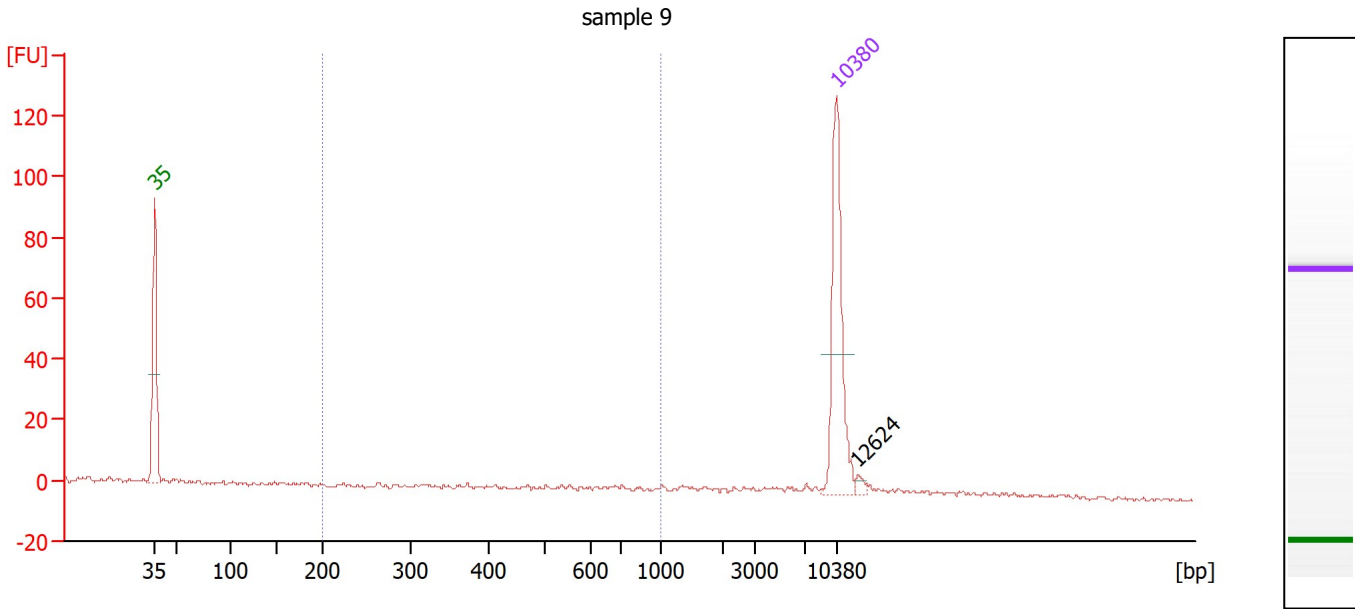
Region table for sample 8 : sample 8

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	1,383.0	71	738	20.1	1,000.29	2,162.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 1 Corr. Area 1: 21.6
 Noise: 0.6

Peak table for sample 9 : sample 9

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	12,624	0.00	0.0	

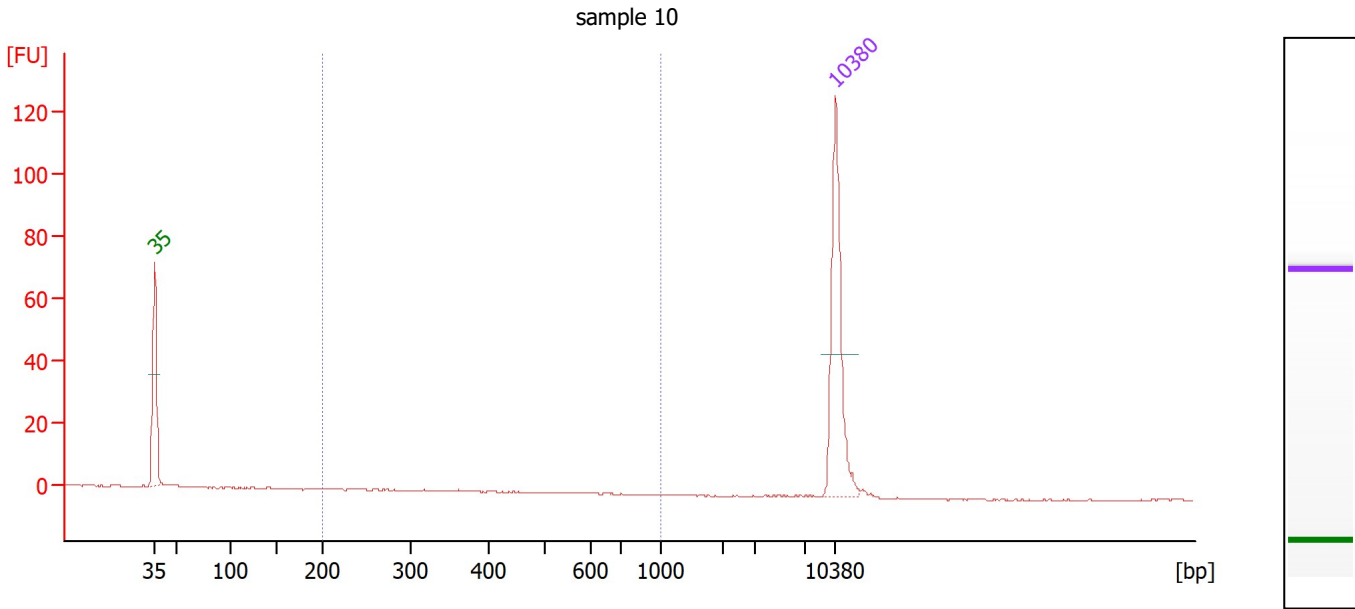
Region table for sample 9 : sample 9

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	21.6	23	526	36.7	17.01	60.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 0 Corr. Area 1: 0.6
 Noise: 0.2

Peak table for sample 10 : sample 10

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

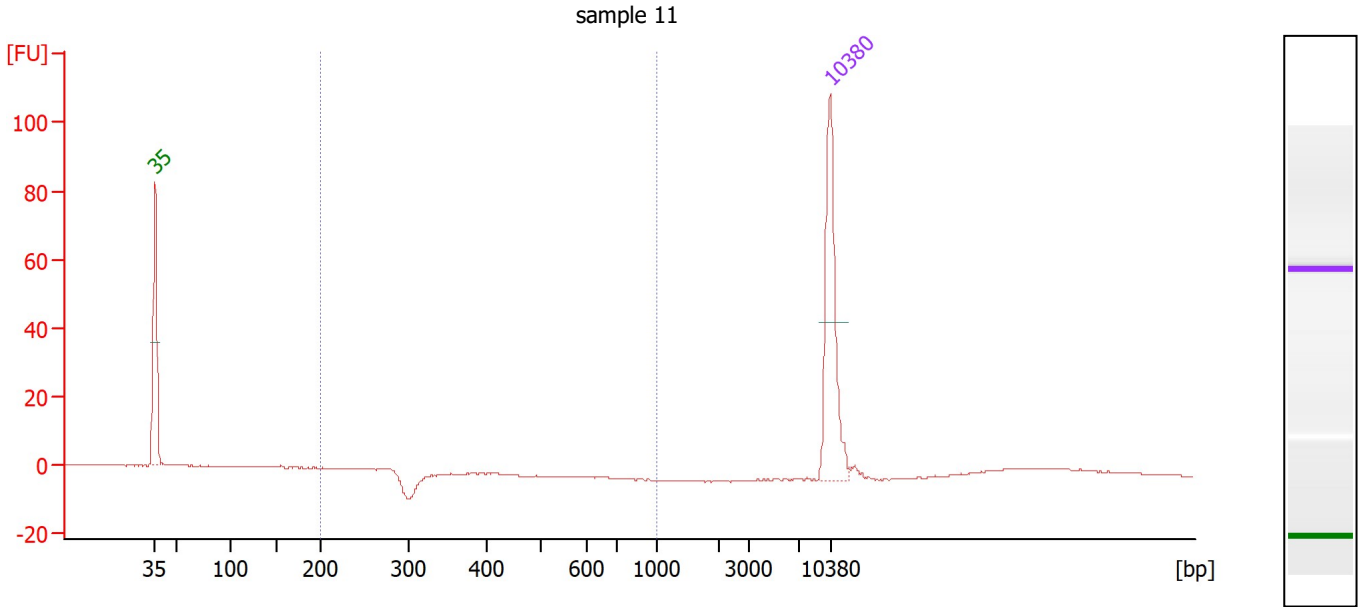
Region table for sample 10 : sample 10

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	0.6	6	296	21.9	0.54	2.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 0 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
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

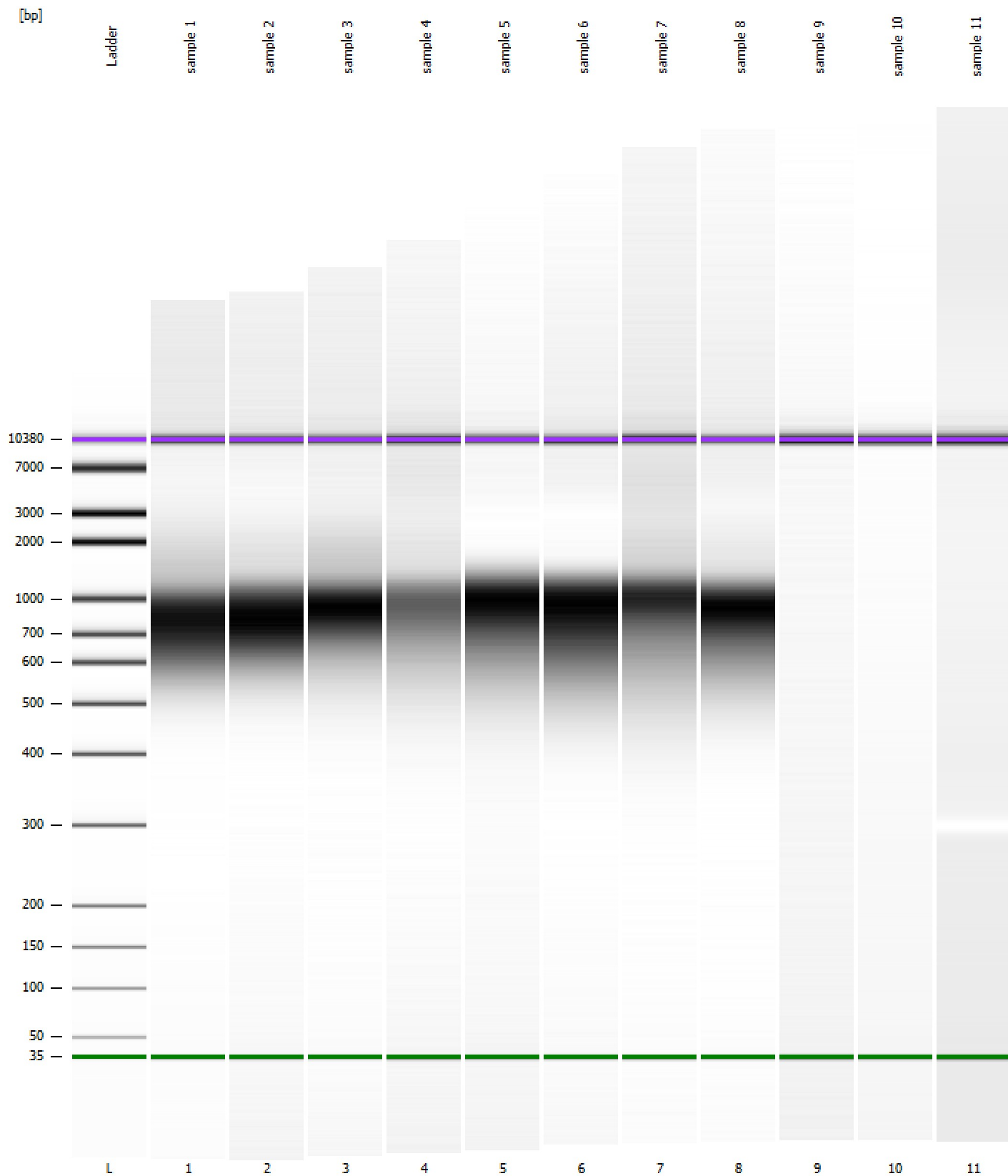
Region table for sample 11 : sample 11

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	0.0	0	0	0.0	0.00	0.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
Modified: 6/10/2020 3:06:21 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-10_001.xad

Created: 6/10/2020 2:24:59 PM
 Modified: 6/10/2020 3:06:21 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		6/10/2020 3:06:19 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-06-10\Bioanalyze r1_High Sensitivity DNA Assay_2020-06-10_001.xad)		Instrument	Run		6/10/2020 2:25:04 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/10/2020 2:25:04 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/10/2020 2:25:04 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/10/2020 2:25:04 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/10/2020 2:25:04 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/10/2020 2:25:04 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/10/2020 2:25:04 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB