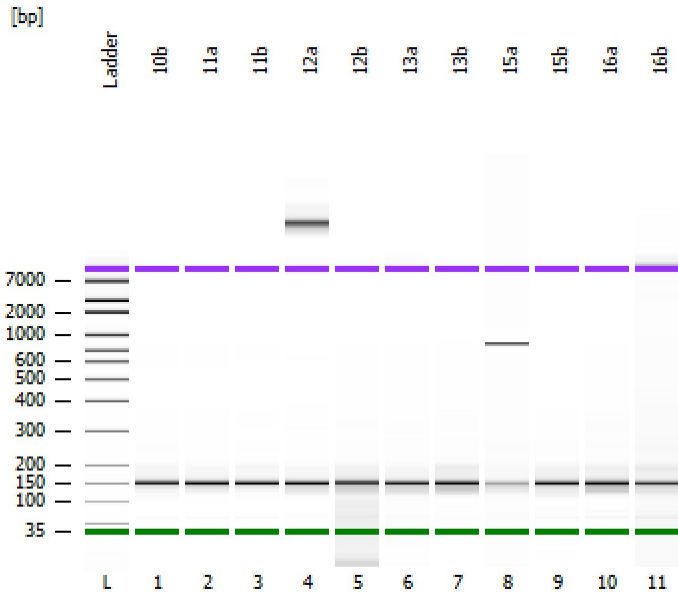


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
Modified: 1/30/2020 8:32:06 AM

Electrophoresis File Run Summary



Instrument Information:

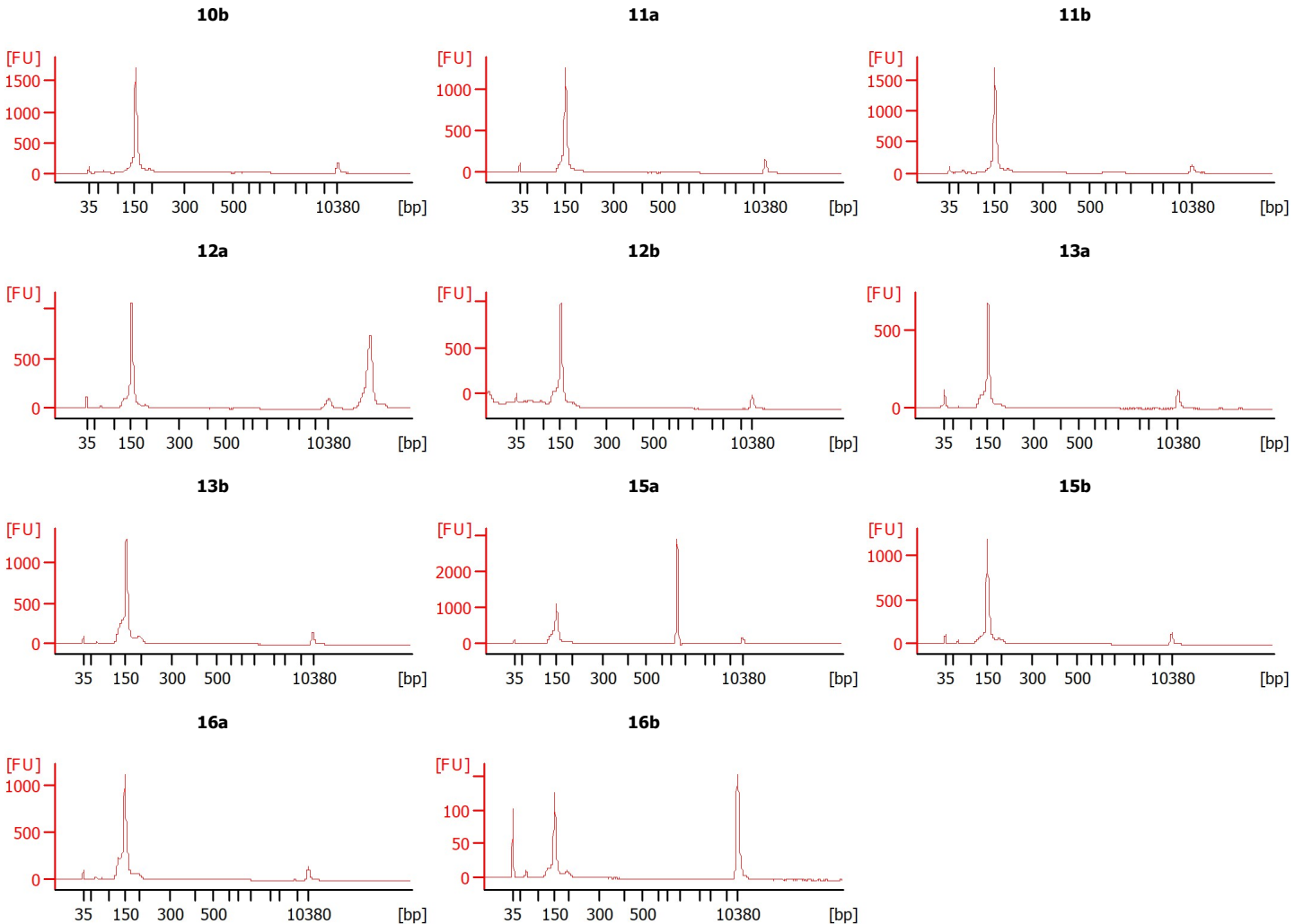
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
10b		<input type="checkbox"/>	✓			
11a		<input type="checkbox"/>	✓			
11b		<input type="checkbox"/>	✓			
12a		<input type="checkbox"/>	✓			
12b		<input type="checkbox"/>	✓			
13a		<input type="checkbox"/>	✓			
13b		<input type="checkbox"/>	✓			
15a		<input type="checkbox"/>	✓			
15b		<input type="checkbox"/>	✓			
16a		<input type="checkbox"/>	✓			
16b		<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_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 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

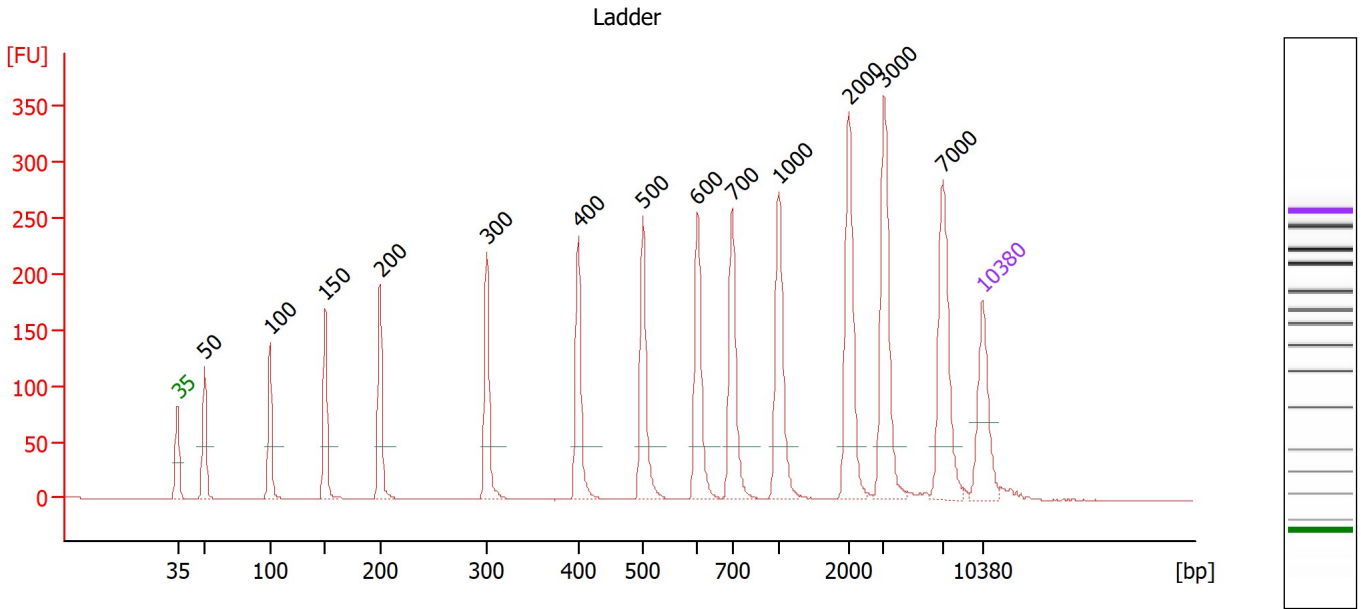
Ladder

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_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

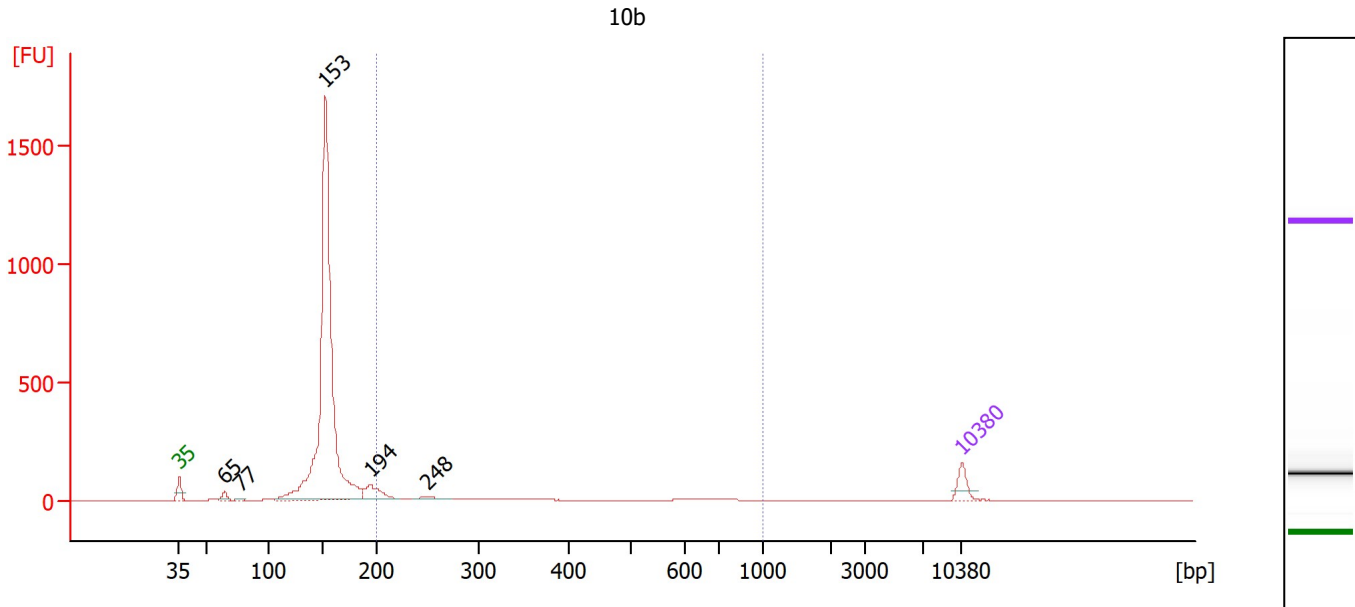
Peak table for Ladder

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_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 10b

Number of peaks found: 5 Corr. Area 1: 363.0
 Noise: 0.3

Peak table for sample 1 : 10b

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	65	46.66	1,086.6	
3	77	6.87	135.8	
4	153	3,681.89	36,534.7	
5	194	171.74	1,338.3	
6	248	28.25	172.6	
7	10,380	75.00	10.9	Upper Marker

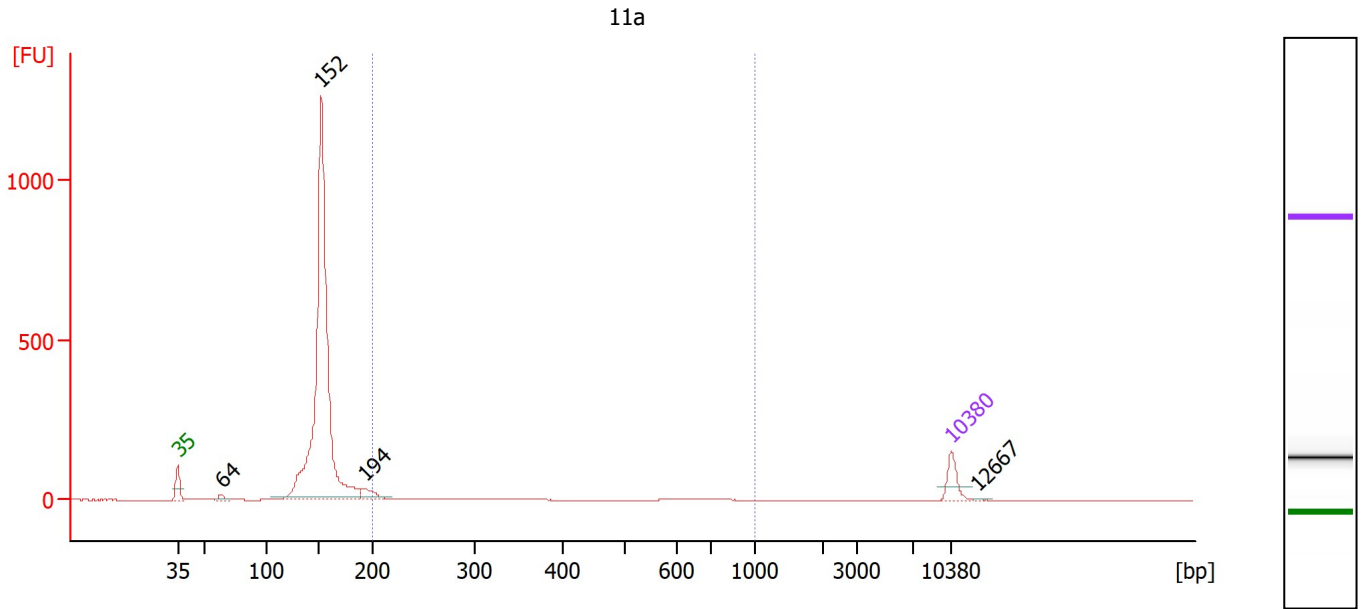
Region table for sample 1 : 10b

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	363.0	9	368	49.4	307.79	1,626.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 11a

Number of peaks found: 4 Corr. Area 1: 167.4
 Noise: 0.3

Peak table for sample 2 : 11a

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	64	27.88	657.9	
3	152	2,860.98	28,560.0	
4	194	78.06	611.2	
5	10,380	75.00	10.9	Upper Marker
6	12,667	0.00	0.0	

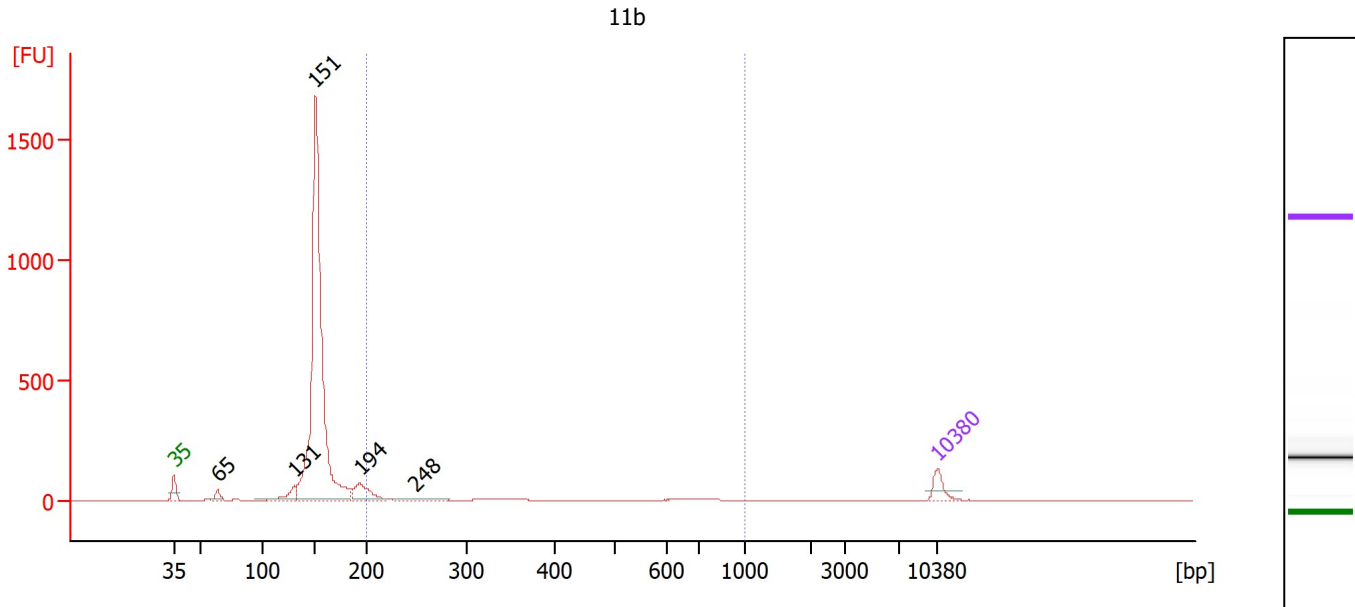
Region table for sample 2 : 11a

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	167.4	5	390	49.1	140.35	719.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 11b

Number of peaks found: 5 Corr. Area 1: 266.6
 Noise: 0.3

Peak table for sample 3 : 11b

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	65	57.37	1,344.7	
3	131	125.29	1,448.2	
4	151	3,547.81	35,494.3	
5	194	205.66	1,604.5	
6	248	44.37	271.6	
7	10,380	75.00	10.9	Upper Marker

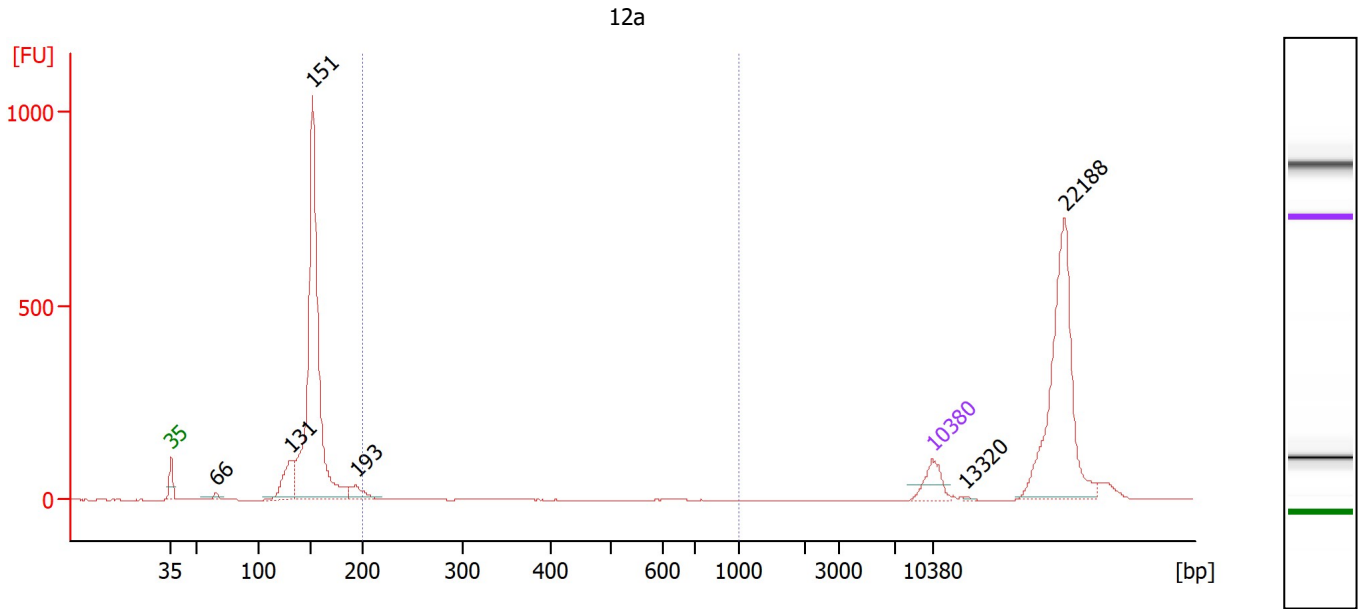
Region table for sample 3 : 11b

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	266.6	7	360	52.8	241.29	1,330.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 12a

Number of peaks found: 6 Corr. Area 1: 49.3
 Noise: 0.3

Peak table for sample 4 : 12a

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	66	21.56	497.7	
3	131	200.17	2,315.5	
4	151	1,791.63	17,928.9	
5	193	73.90	579.2	
6	10,380	75.00	10.9	Upper Marker
7	13,320	0.00	0.0	
8	22,188	0.00	0.0	

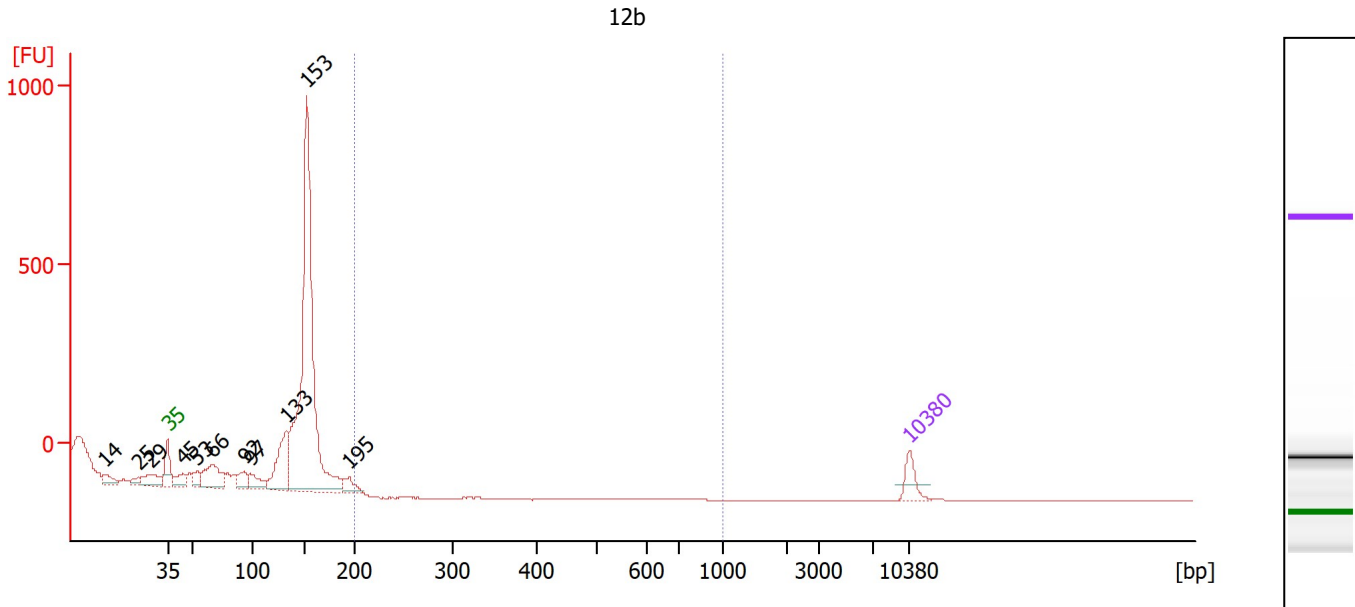
Region table for sample 4 : 12a

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	49.3	1	246	21.6	36.84	238.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 12b

Number of peaks found: 11 Corr. Area 1: 0.0
 Noise: 0.3

Peak table for sample 5 : 12b

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	14	0.00	0.0	
2	25	0.00	0.0	
3	29	0.00	0.0	
4	35	125.00	5,411.3	Lower Marker
5	45	103.36	3,517.8	
6	53	84.76	2,425.7	
7	66	292.93	6,714.9	
8	92	105.98	1,737.7	
9	97	126.28	1,967.9	
10	133	416.73	4,754.0	
11	153	2,533.40	25,049.6	
12	195	82.47	642.1	
13	10,380	75.00	10.9	Upper Marker

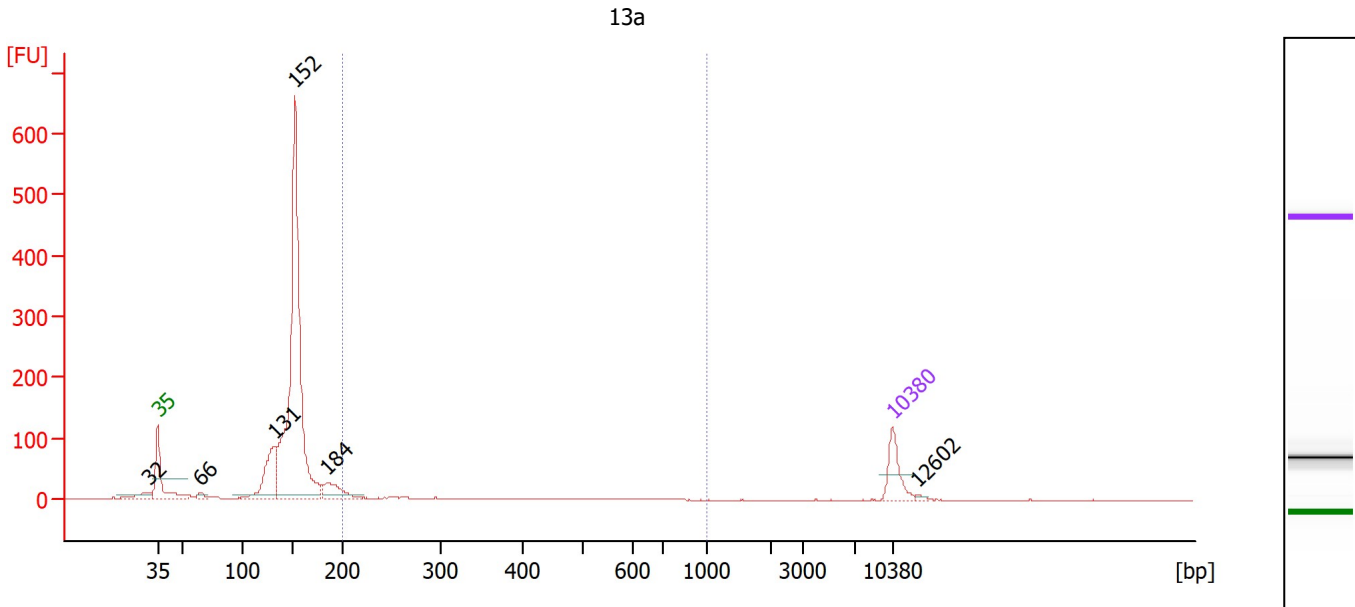
Region table for sample 5 : 12b

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	■

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 13a

Number of peaks found: 6 Corr. Area 1: 90.4
 Noise: 0.2

Peak table for sample 6 : 13a

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	66	20.47	471.5	
4	131	224.24	2,583.7	
5	152	1,496.12	14,889.7	
6	184	92.04	757.2	
7	10,380	75.00	10.9	Upper Marker
8	12,602	0.00	0.0	

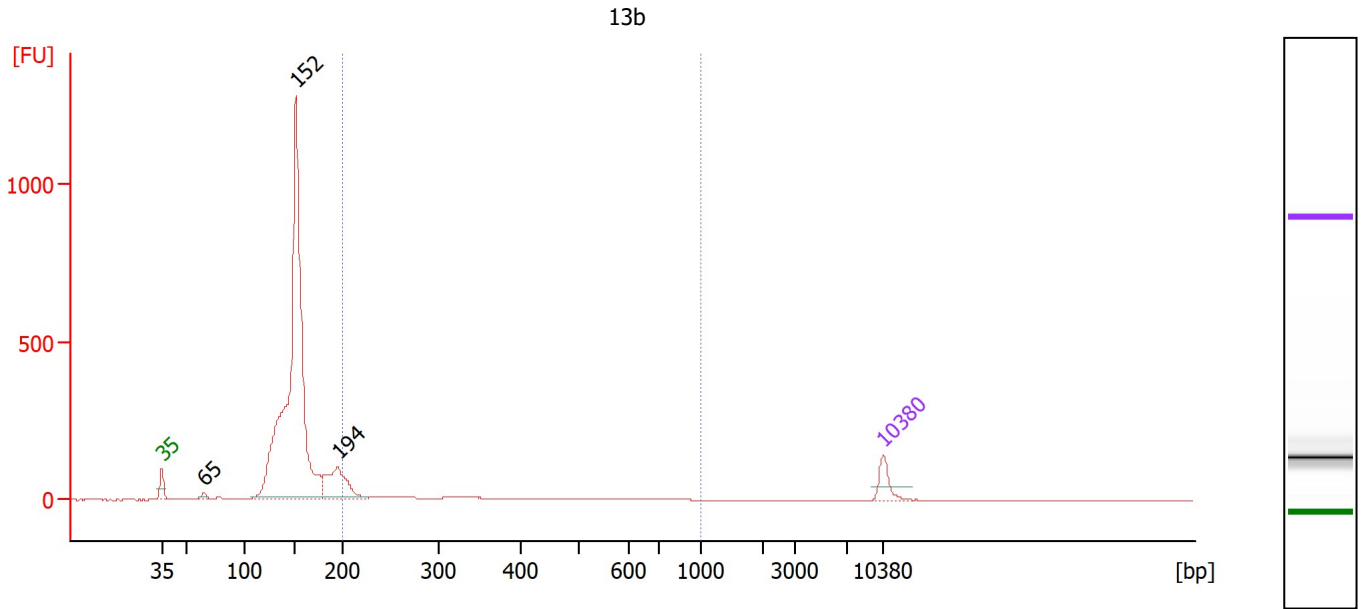
Region table for sample 6 : 13a

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	90.4	5	346	44.1	85.99	458.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 13b

Number of peaks found: 3 Corr. Area 1: 383.7
 Noise: 0.3

Peak table for sample 7 : 13b

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	65	21.70	503.1	
3	152	3,259.86	32,538.4	
4	194	345.37	2,692.6	
5	10,380	75.00	10.9	Upper Marker

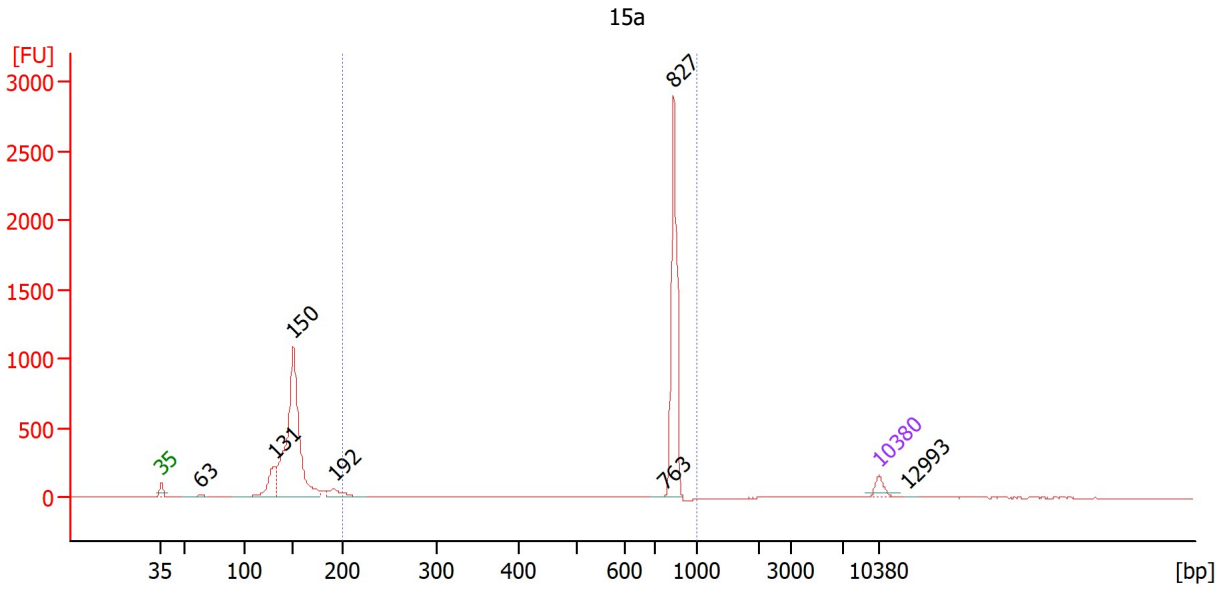
Region table for sample 7 : 13b

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	383.7	9	357	48.0	310.75	1,670.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 15a

Number of peaks found: 7 Corr. Area 1: 2,258.2
 Noise: 0.2

Peak table for sample 8 : 15a

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	63	52.47	1,256.5	
3	131	363.78	4,212.5	
4	150	2,615.68	26,362.2	
5	192	148.81	1,174.2	
6	763	2.73	5.4	
7	827	1,247.05	2,284.3	
8	10,380	75.00	10.9	Upper Marker
9	12,993	0.00	0.0	

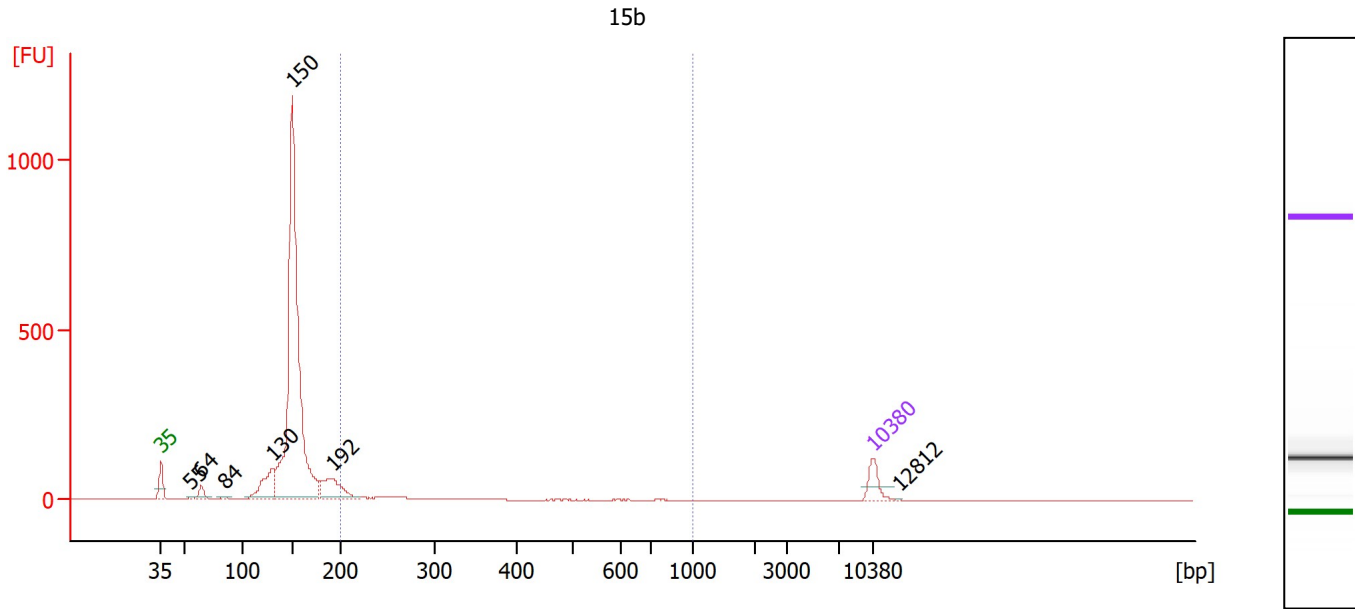
Region table for sample 8 : 15a

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	2,258.2	40	793	17.9	1,437.71	3,261.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 15b

Number of peaks found: 7 Corr. Area 1: 215.6
 Noise: 0.2

Peak table for sample 9 : 15b

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	11.30	309.6	
3	64	62.00	1,467.7	
4	84	15.06	272.7	
5	130	251.49	2,940.1	
6	150	2,638.60	26,591.1	
7	192	217.22	1,715.7	
8	10,380	75.00	10.9	Upper Marker
9	12,812	0.00	0.0	

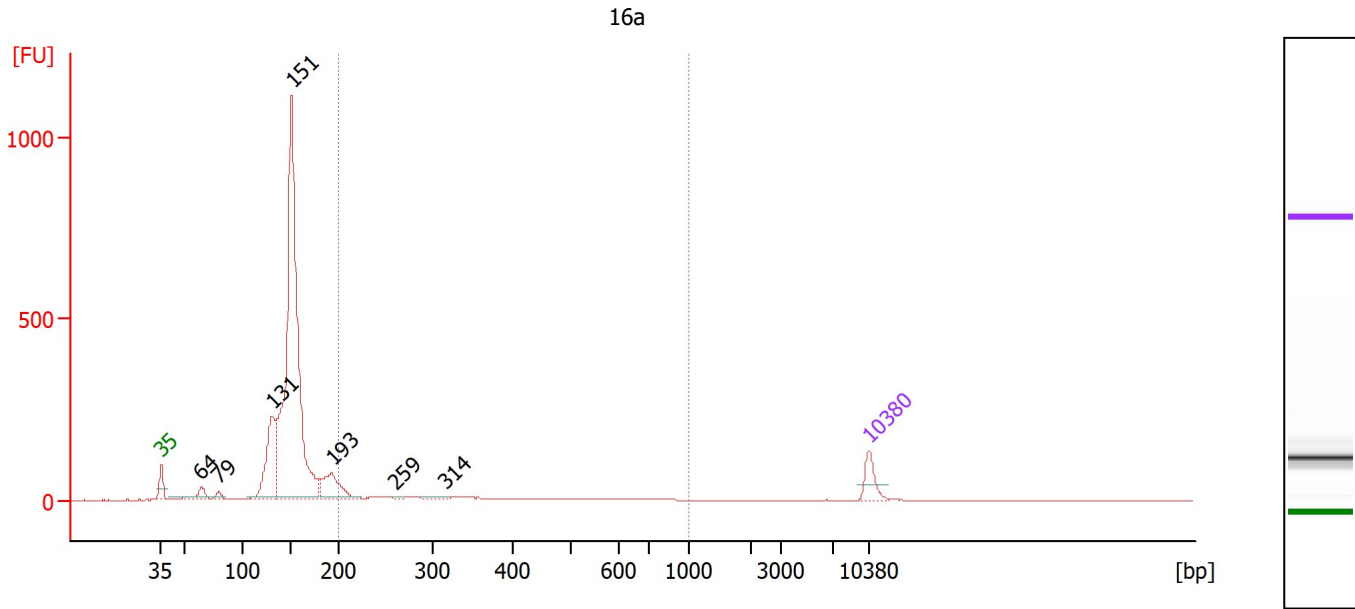
Region table for sample 9 : 15b

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	215.6	7	327	48.7	202.39	1,143.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 16a

Number of peaks found: 7 Corr. Area 1: 313.9
 Noise: 0.2

Peak table for sample 10 : 16a

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	64	91.28	2,152.1	
3	79	32.78	625.0	
4	131	513.15	5,934.6	
5	151	2,725.95	27,387.2	
6	193	223.34	1,757.0	
7	259	8.44	49.3	
8	314	16.50	79.5	
9	10,380	75.00	10.9	Upper Marker

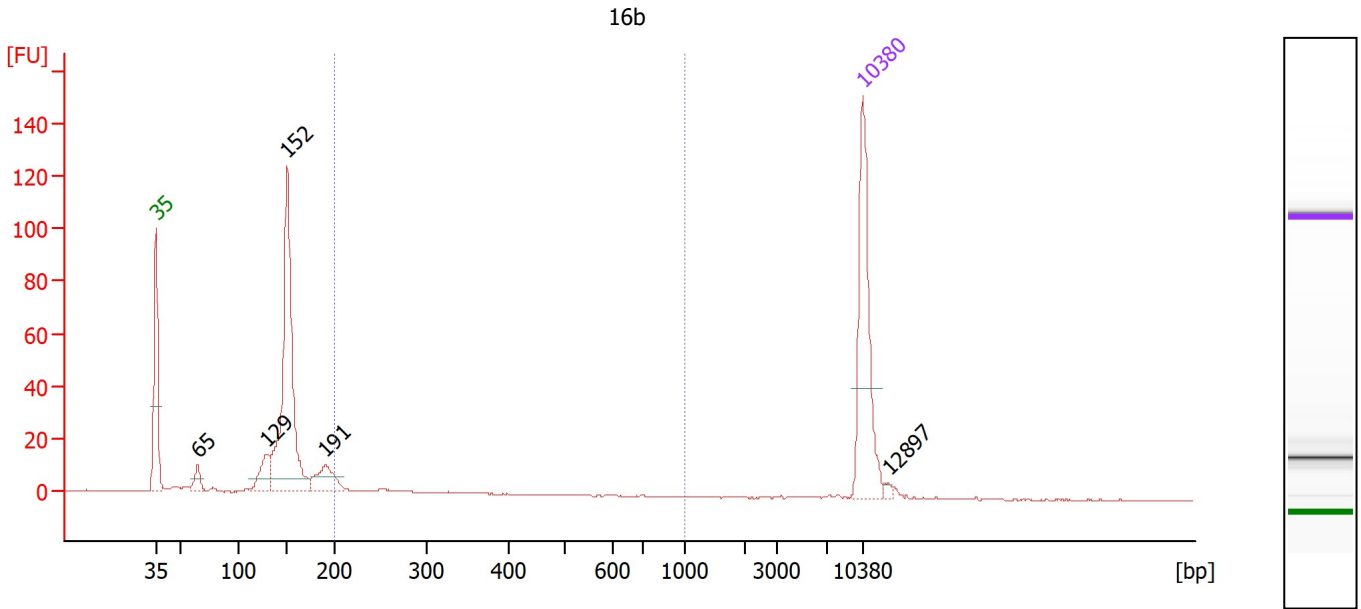
Region table for sample 10 : 16a

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	313.9	8	349	45.7	274.60	1,446.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 16b

Number of peaks found: 5 Corr. Area 1: 27.8
 Noise: 0.2

Peak table for sample 11 : 16b

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	65	13.85	320.8	
3	129	26.81	313.7	
4	152	220.44	2,202.8	
5	191	29.13	231.2	
6	10,380	75.00	10.9	Upper Marker
7	12,897	0.00	0.0	

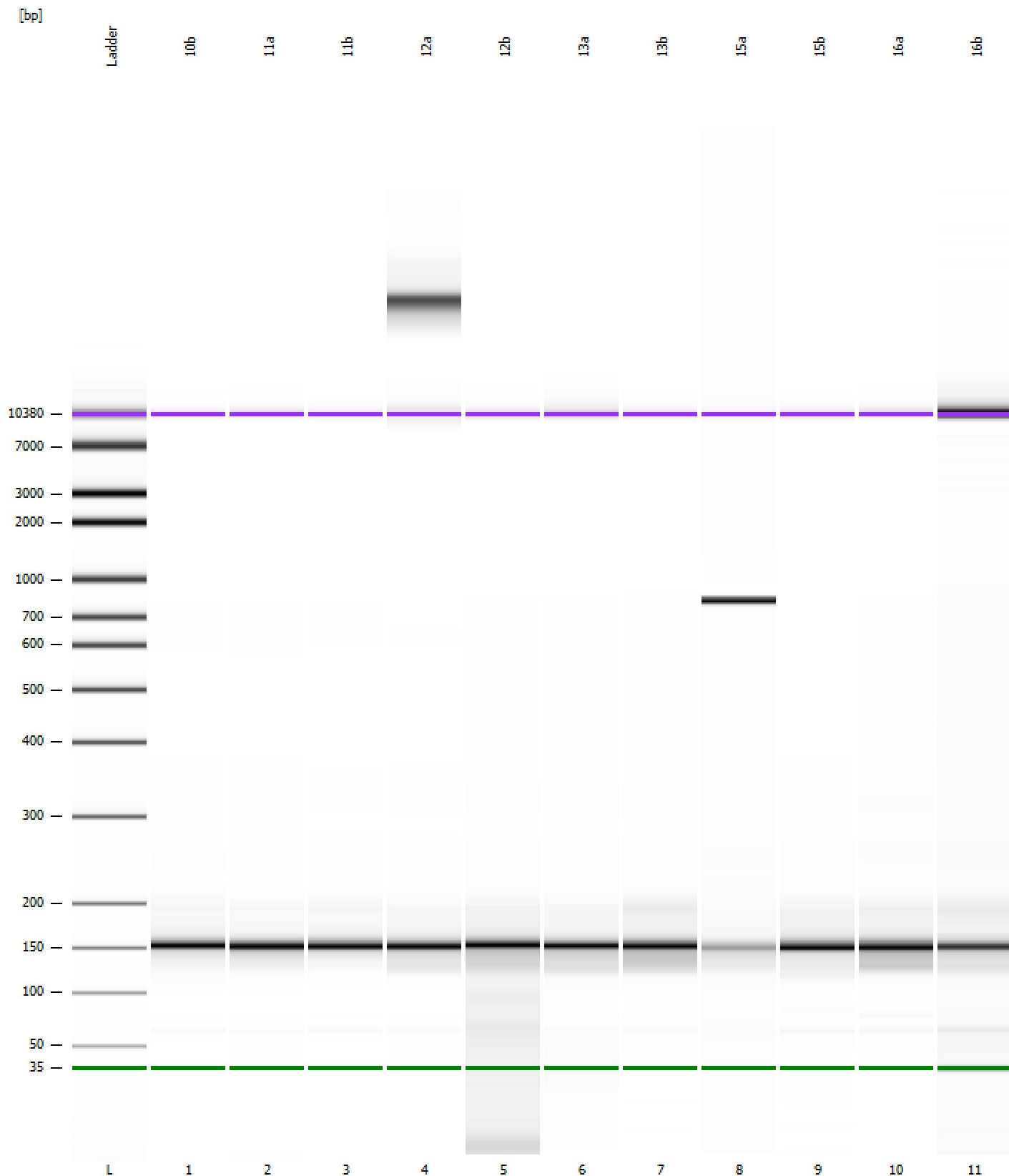
Region table for sample 11 : 16b

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	27.8	7	265	26.4	21.87	132.3	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
Modified: 1/30/2020 8:32:06 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-30_001.xad

Created: 1/30/2020 7:48:43 AM
 Modified: 1/30/2020 8:32:06 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		1/30/2020 8:30:01 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-01-30\Bioanalyze r1_High Sensitivity DNA Assay_2020-01-30_001.xad)		Instrument	Run		1/30/2020 7:48:48 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/30/2020 7:48:48 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/30/2020 7:48:48 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/30/2020 7:48:48 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/30/2020 7:48:48 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/30/2020 7:48:48 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/30/2020 7:48:48 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB