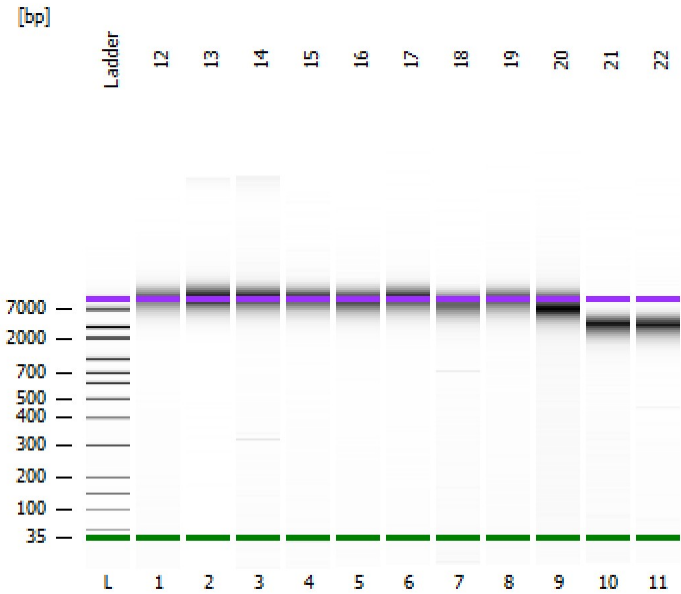


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
Modified: 8/12/2020 1:43:37 PM

Electrophoresis File Run Summary



Instrument Information:

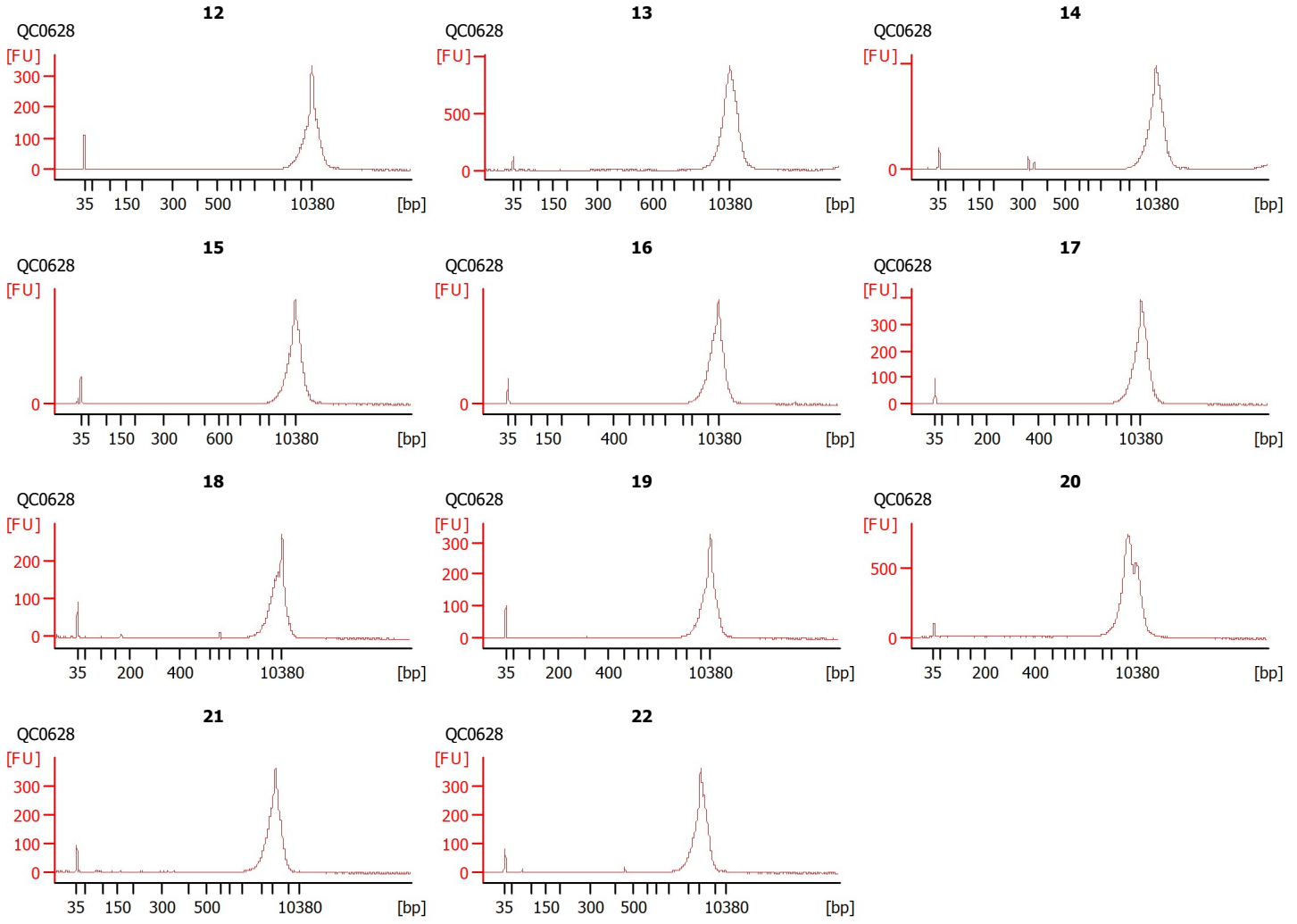
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
12	QC0628	<input type="checkbox"/>	✓			
13	QC0628	<input type="checkbox"/>	✓			
14	QC0628	<input type="checkbox"/>	✓			
15	QC0628	<input type="checkbox"/>	✓			
16	QC0628	<input type="checkbox"/>	✓			
17	QC0628	<input type="checkbox"/>	✓			
18	QC0628	<input type="checkbox"/>	✓			
19	QC0628	<input type="checkbox"/>	✓			
20	QC0628	<input type="checkbox"/>	✓			
21	QC0628	<input type="checkbox"/>	✓			
22	QC0628	<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_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
Modified: 8/12/2020 1:43:37 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

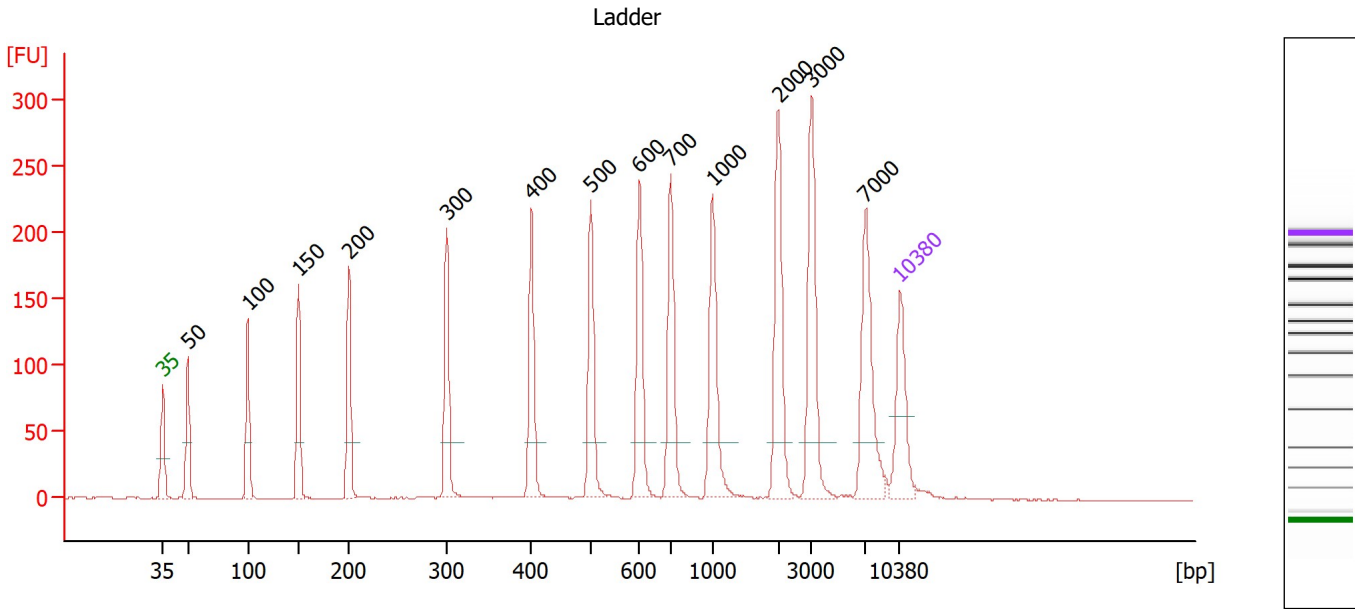
Ladder

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_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

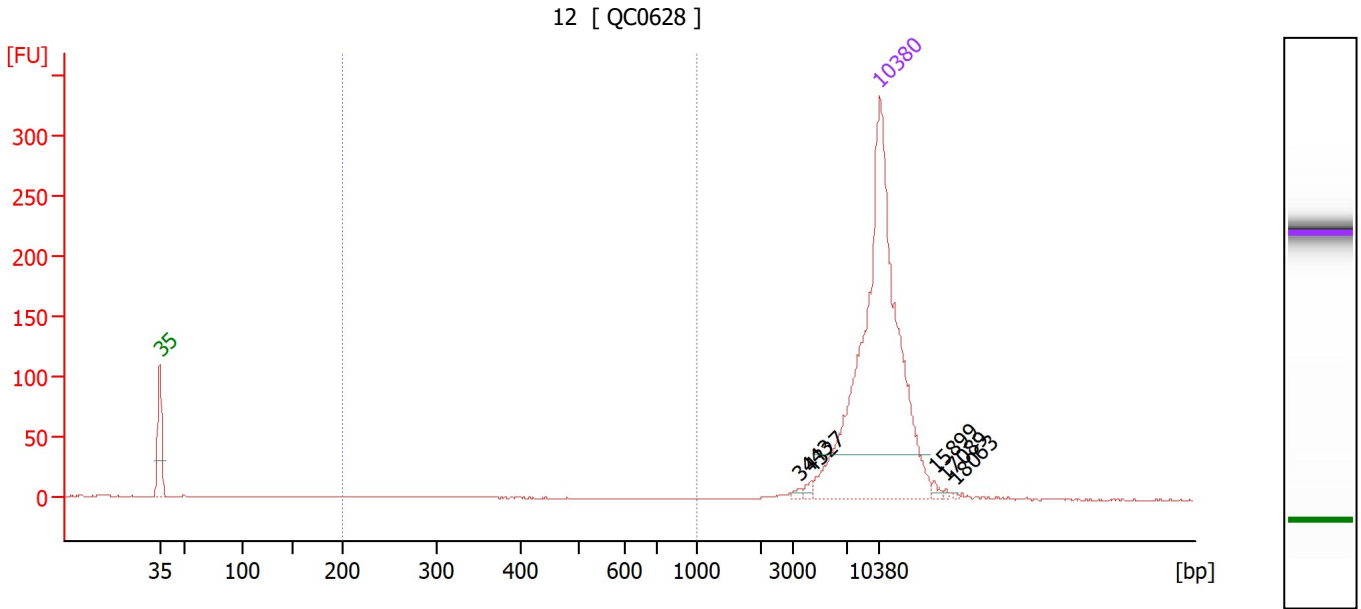
Peak table for Ladder

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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 12

Number of peaks found: 5 Corr. Area 1: 8.1
 Noise: 0.2

Peak table for sample 1 : 12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	3,443	0.52	0.2	
3	4,327	0.80	0.3	
4	10,380	75.00	10.9	Upper Marker
5	15,899	0.00	0.0	
6	17,089	0.00	0.0	
7	18,063	0.00	0.0	

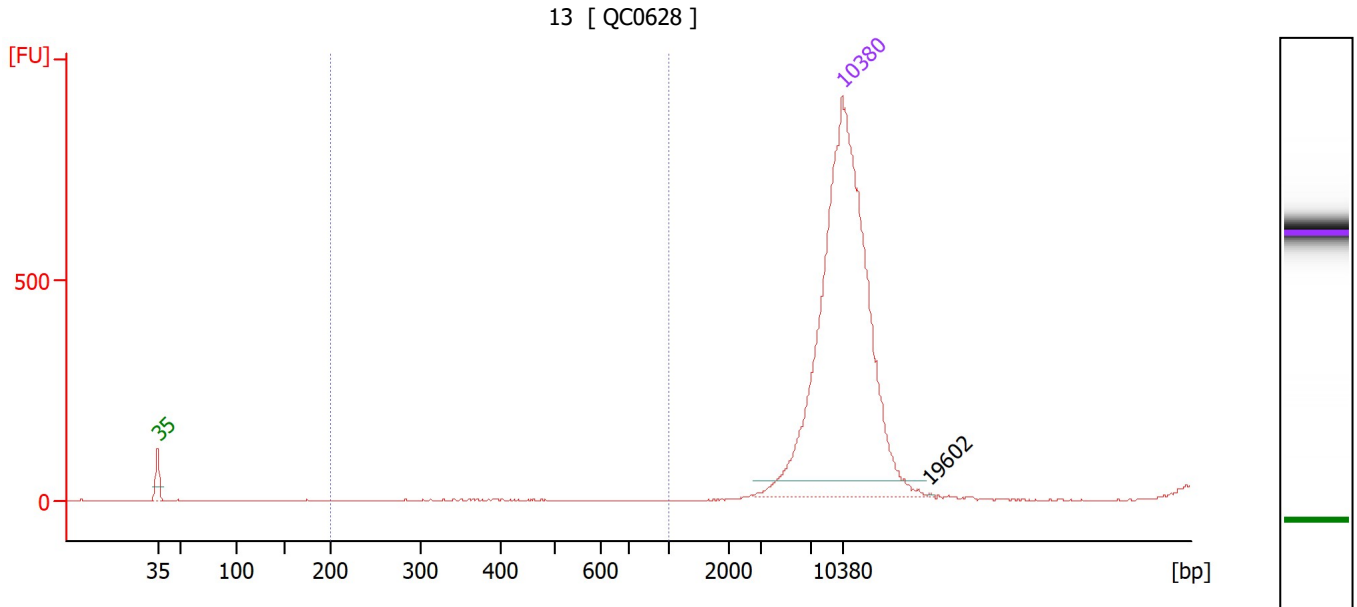
Region table for sample 1 : 12

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	8.1	10	329	35.3	0.86	4.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 13

Number of peaks found: 1 Corr. Area 1: 0.0
 Noise: 0.6

Peak table for sample 2 : 13

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	19,602	0.00	0.0	

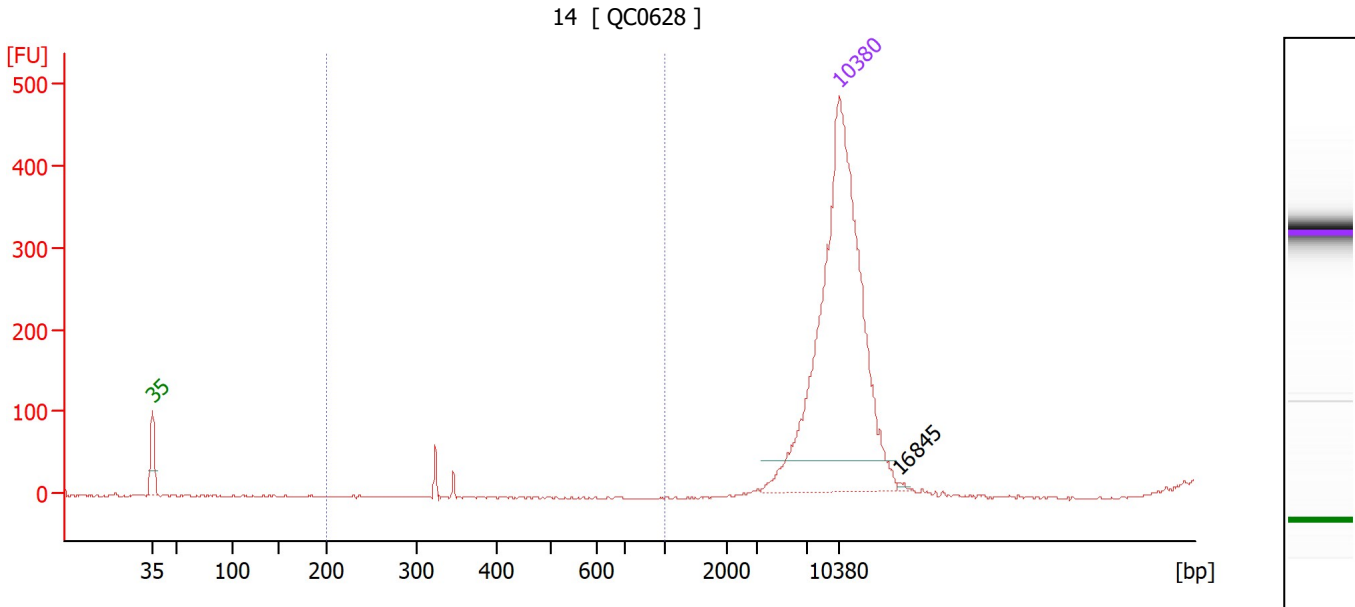
Region table for sample 2 : 13

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_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 14

Number of peaks found: 1 Corr. Area 1: 25.1
 Noise: 1.0

Peak table for sample 3 : 14

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	16,845	0.00	0.0	

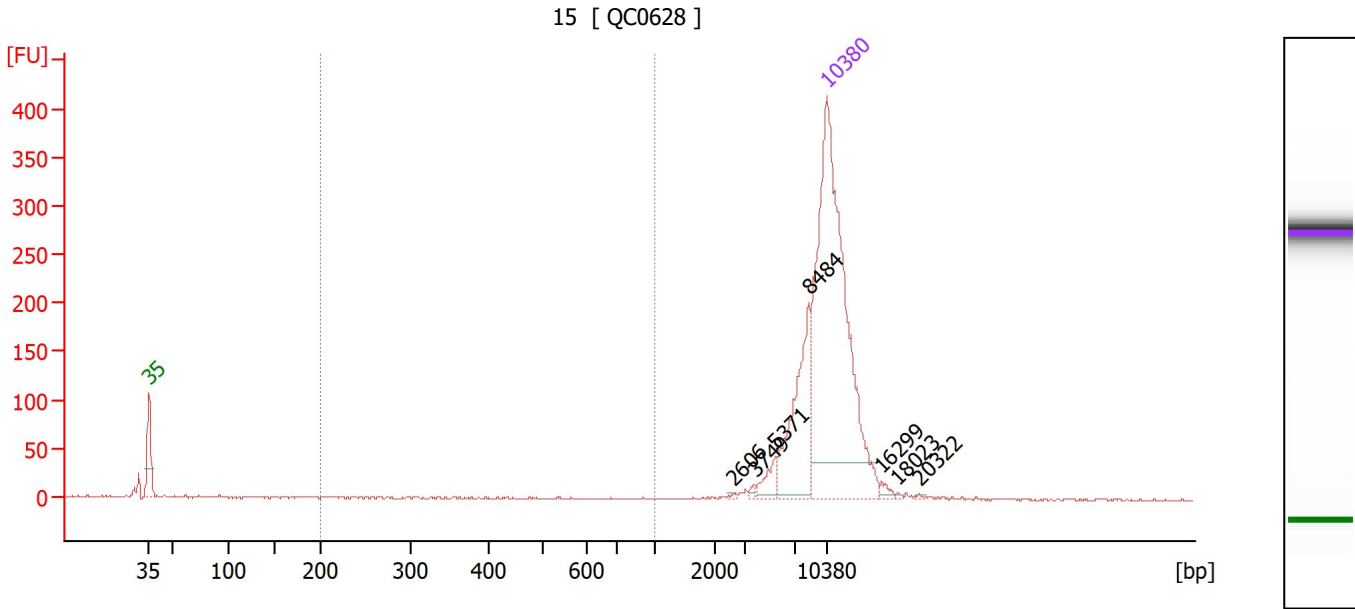
Region table for sample 3 : 14

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	25.1	80	329	3.1	1.45	6.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 15

Number of peaks found: 7 Corr. Area 1: 7.9
 Noise: 0.9

Peak table for sample 4 : 15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	2,606	0.24	0.1	
3	3,749	0.50	0.2	
4	5,371	3.21	0.9	
5	8,484	21.27	3.8	
6	10,380	75.00	10.9	Upper Marker
7	16,299	0.00	0.0	
8	18,023	0.00	0.0	
9	20,322	0.00	0.0	

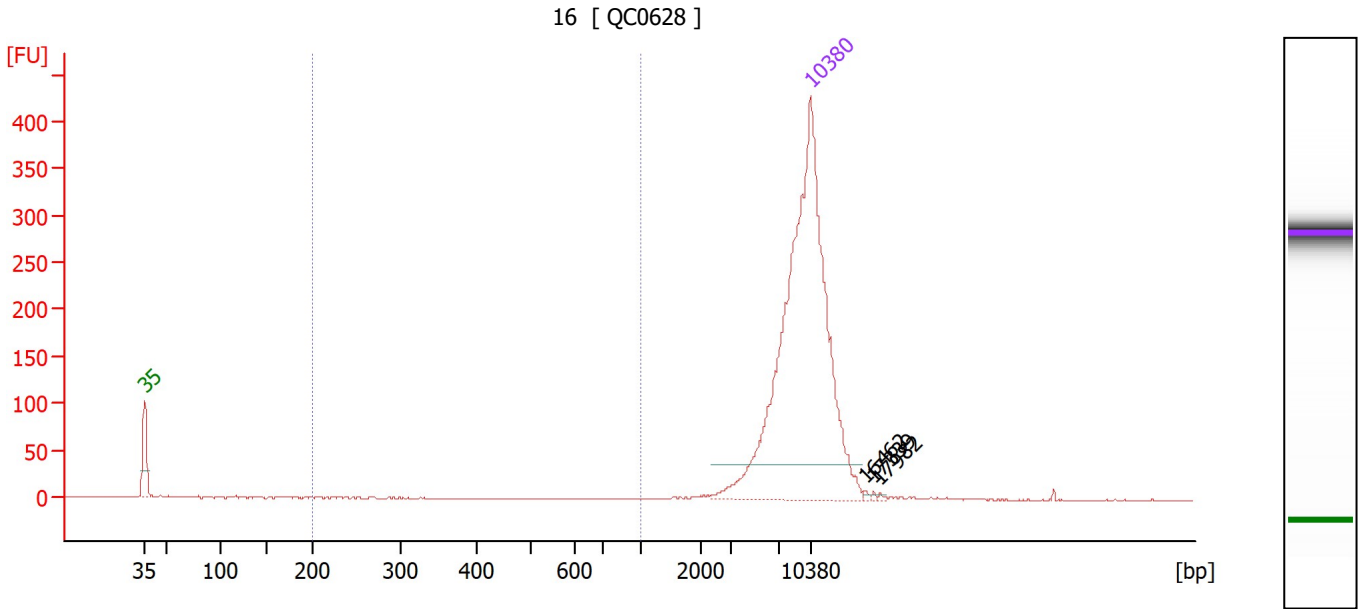
Region table for sample 4 : 15

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	7.9	2	436	44.6	0.72	3.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 16

Number of peaks found: 3 Corr. Area 1: 3.0
 Noise: 0.6

Peak table for sample 5 : 16

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	16,462	0.00	0.0	
4	17,339	0.00	0.0	
5	17,982	0.00	0.0	

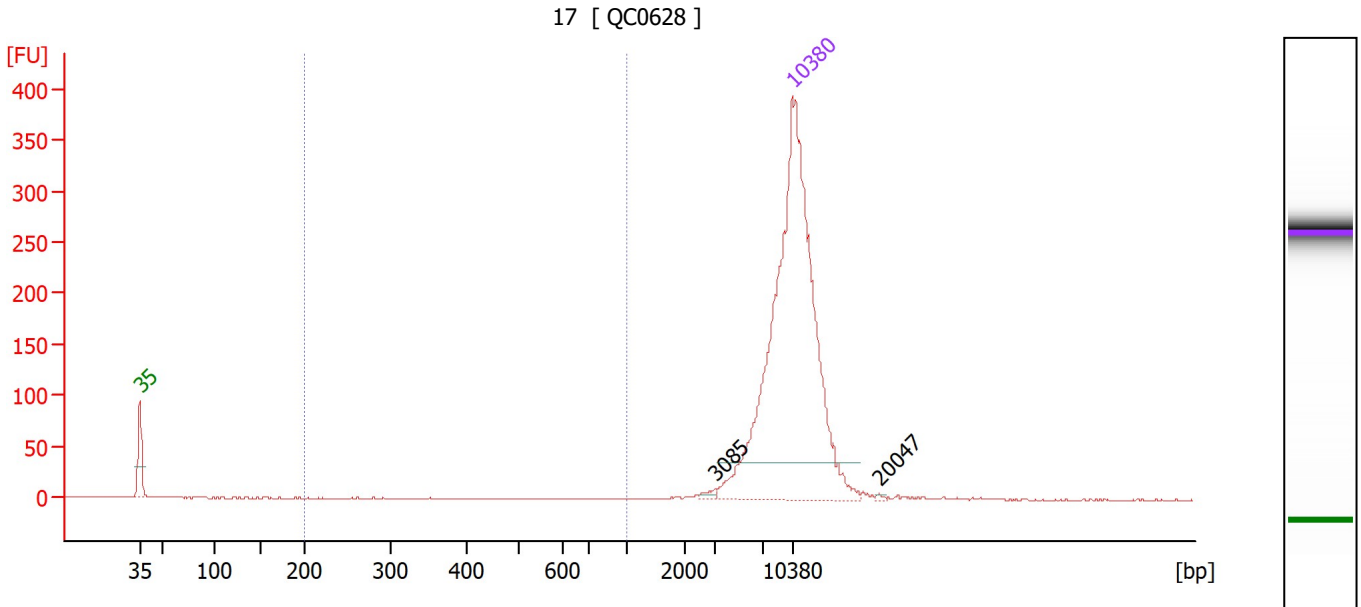
Region table for sample 5 : 16

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	3.0	5	363	49.8	0.20	1.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 17

Number of peaks found: 2 Corr. Area 1: 0.5
 Noise: 0.6

Peak table for sample 6 : 17

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	3,085	0.55	0.3	
3	10,380	75.00	10.9	Upper Marker
4	20,047	0.00	0.0	

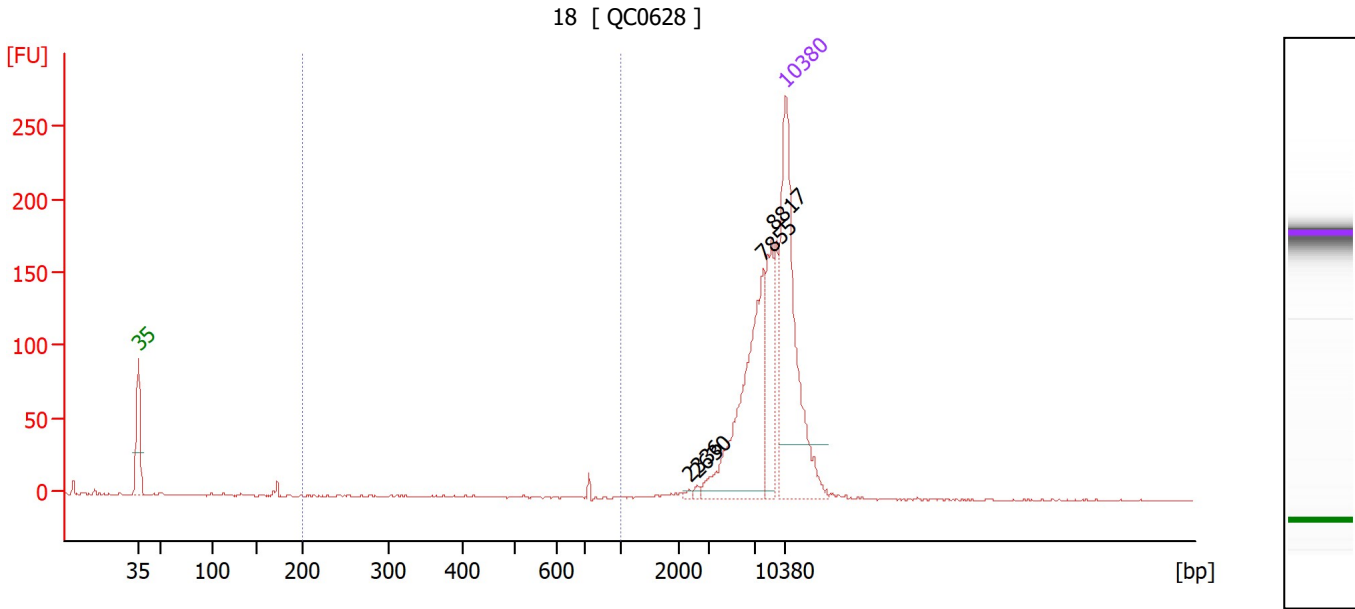
Region table for sample 6 : 17

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	0.5	1	457	59.1	0.03	0.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 18

Number of peaks found: 4 Corr. Area 1: 3.0
 Noise: 0.5

Peak table for sample 7 : 18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	2,336	0.85	0.5	
3	2,630	1.08	0.6	
4	7,855	66.52	12.8	
5	8,817	28.26	4.9	
6	10,380	75.00	10.9	Upper Marker

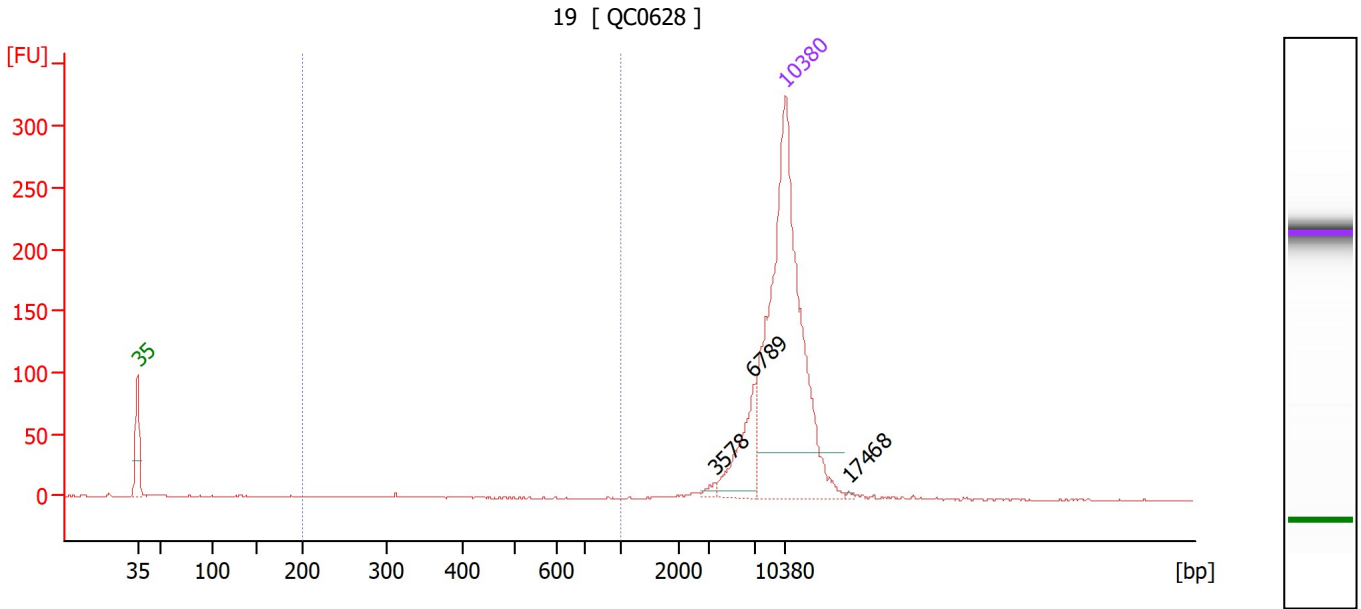
Region table for sample 7 : 18

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	3.0	1	737	0.8	0.67	1.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 19

Number of peaks found: 3 Corr. Area 1: 4.1
 Noise: 0.3

Peak table for sample 8 : 19

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	3,578	1.06	0.4	
3	6,789	12.71	2.8	
4	10,380	75.00	10.9	Upper Marker
5	17,468	0.00	0.0	

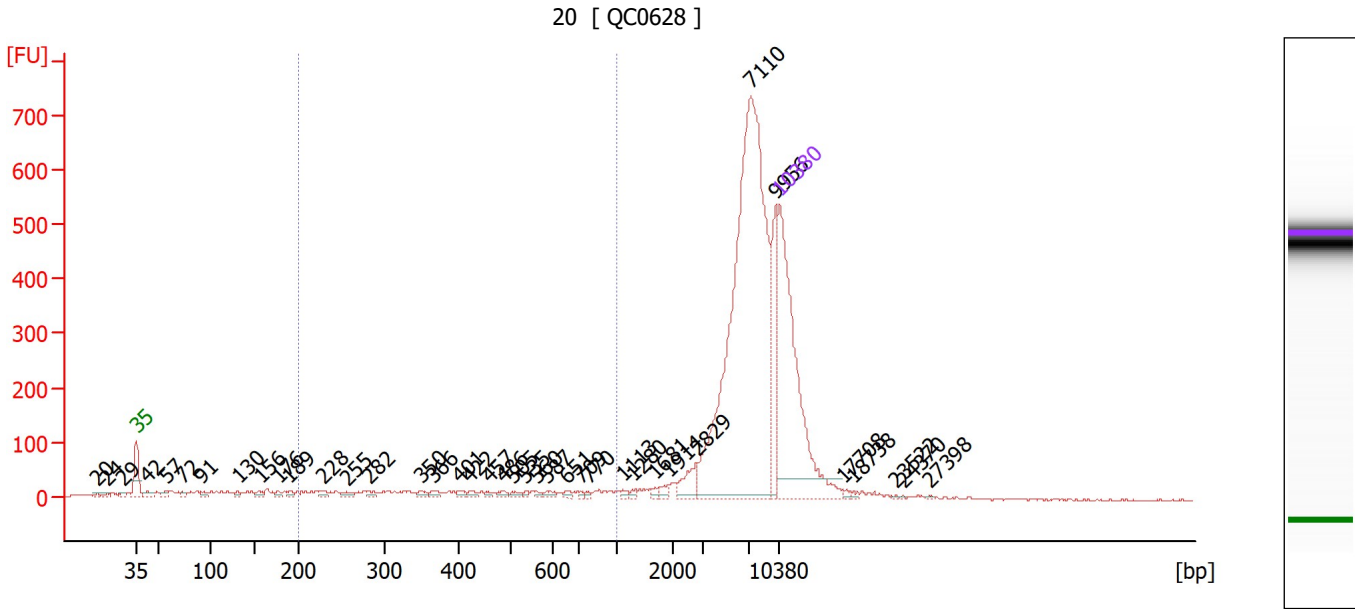
Region table for sample 8 : 19

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	4.1	2	383	47.4	0.46	2.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 20

Number of peaks found: 39 Corr. Area 1: 425.5
 Noise: 1.7

Peak table for sample 9 : 20

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	20	0.00	0.0	
2	24	0.00	0.0	
3	29	0.00	0.0	
4	35	125.00	5,411.3	Lower Marker
5	42	3.34	119.7	
6	57	2.18	57.9	
7	72	1.76	36.8	
8	91	1.92	32.0	
9	130	1.63	19.0	
10	156	1.95	19.0	
11	176	1.56	13.4	
12	189	1.49	12.0	
13	228	1.95	12.9	
14	255	2.53	15.0	
15	282	1.66	8.9	
16	350	1.84	8.0	
17	366	1.97	8.2	
18	401	1.57	5.9	
19	422	1.51	5.4	
20	457	0.96	3.2	
21	486	1.71	5.3	
22	505	1.48	4.4	
23	535	1.00	2.8	
24	560	1.04	2.8	
25	587	1.69	4.4	
26	651	1.19	2.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electropherogram Summary Continued ...

... Peak table for sample 9 : 20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	709	0.84	1.8	
28	770	0.78	1.5	
29	1,113	1.16	1.6	
30	1,280	0.93	1.1	
31	1,681	1.19	1.1	
32	1,914	1.90	1.5	
33	2,829	7.39	4.0	
34	7,110	209.83	44.7	
35	9,956	25.85	3.9	
36	10,380	75.00	10.9	Upper Marker
37	17,708	0.00	0.0	
38	18,738	0.00	0.0	
39	23,522	0.00	0.0	
40	24,370	0.00	0.0	
41	27,398	0.00	0.0	

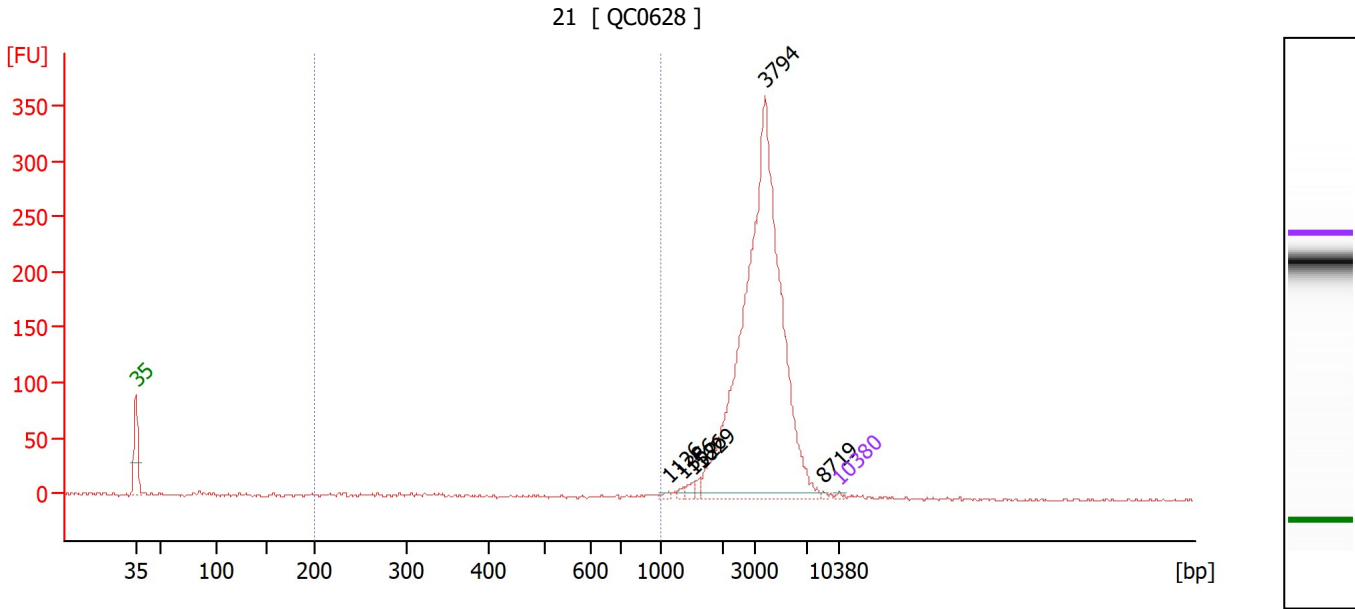
Region table for sample 9 : 20

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	425.5	10	467	42.9	44.22	184.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 21

Number of peaks found: 6 Corr. Area 1: 39.7
 Noise: 1.1

Peak table for sample 10 : 21

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,126	118.53	159.5	
3	1,356	171.54	191.7	
4	1,526	227.50	225.8	
5	1,629	257.09	239.2	
6	3,794	28,121.72	11,229.5	
7	8,719	69.65	12.1	
8	10,380	75.00	10.9	Upper Marker

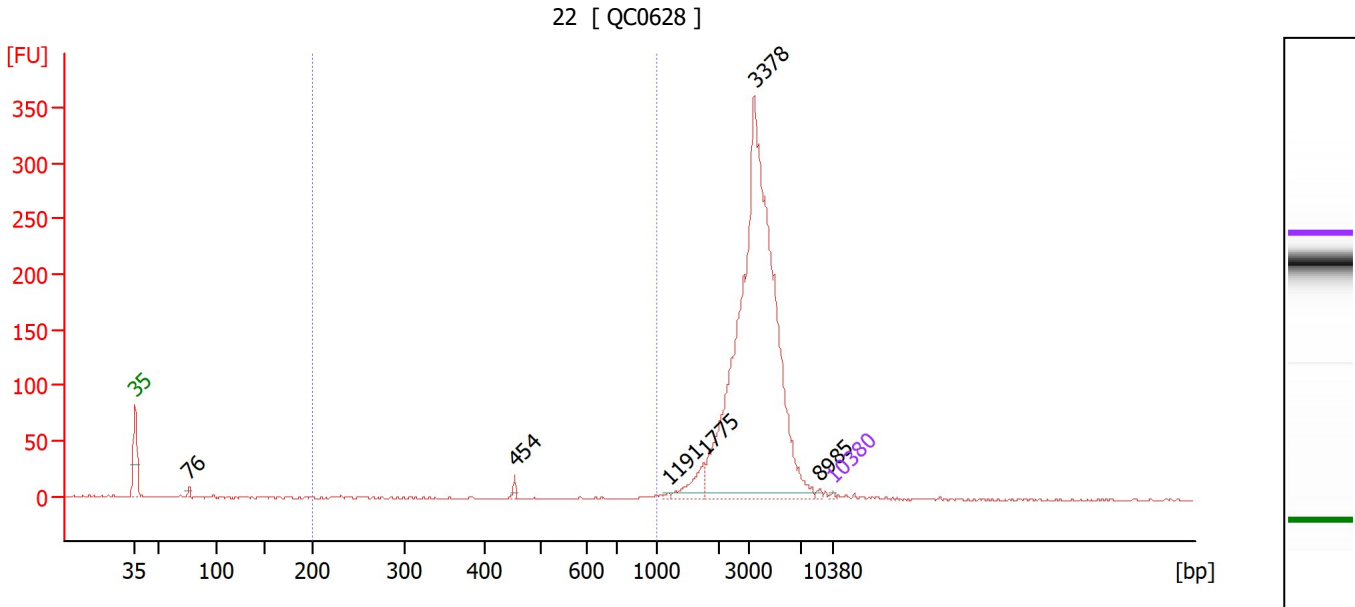
Region table for sample 10 : 21

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	39.7	3	474	51.9	1,096.31	4,820.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 22

Number of peaks found: 6 Corr. Area 1: 10.5
 Noise: 0.5

Peak table for sample 11 : 22

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	76	313.96	6,224.7	
3	454	286.15	955.4	
4	1,191	96.48	122.7	
5	1,775	1,348.93	1,151.5	
6	3,378	36,107.84	16,196.7	
7	8,985	132.00	22.3	
8	10,380	75.00	10.9	Upper Marker

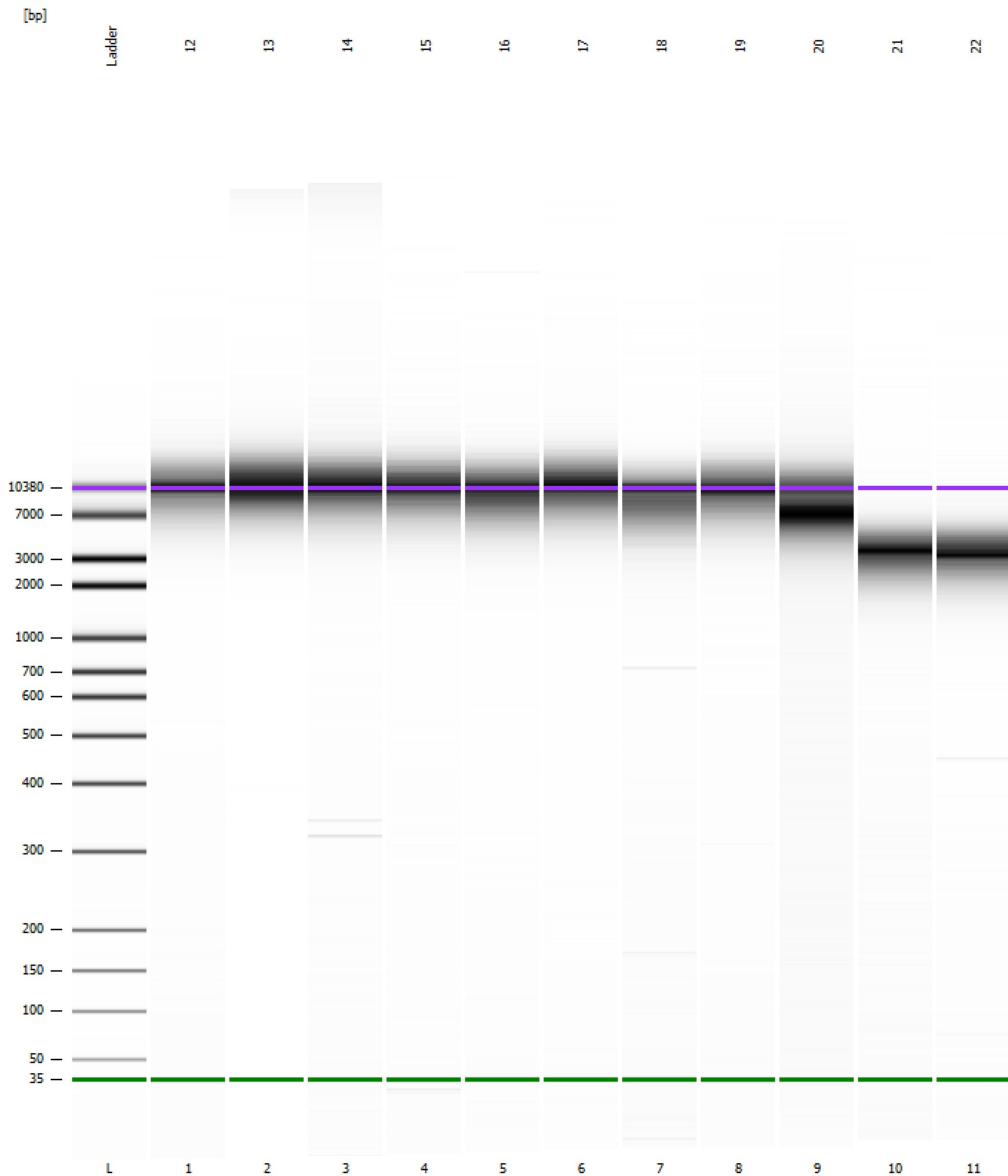
Region table for sample 11 : 22

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	10.5	1	569	37.9	358.32	1,125.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
Modified: 8/12/2020 1:43:37 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-12_001.xad

Created: 8/12/2020 12:57:20 PM
 Modified: 8/12/2020 1:43:37 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		8/12/2020 1:38:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-08-12\Bioanalyze r1_High Sensitivity DNA Assay_2020-08-12_001.xad)		Instrument	Run		8/12/2020 12:57:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		8/12/2020 12:57:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/12/2020 12:57:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/12/2020 12:57:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/12/2020 12:57:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/12/2020 12:57:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/12/2020 12:57:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB