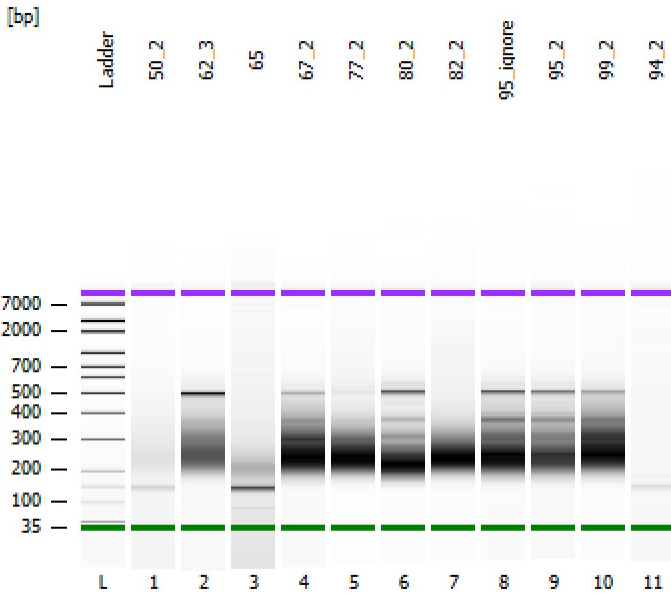


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
Modified: 12/2/2019 5:01:50 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

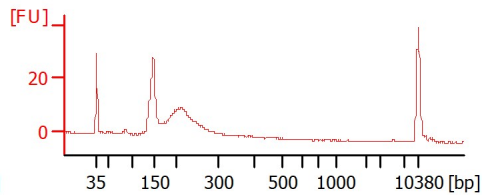
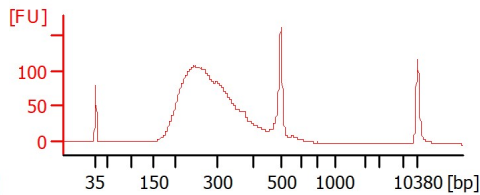
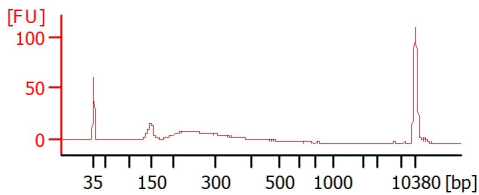
Chip Information:

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

50_2

62_3

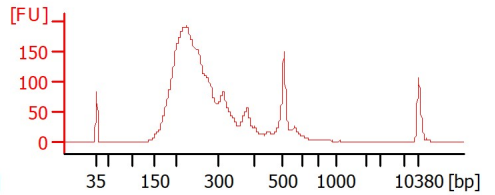
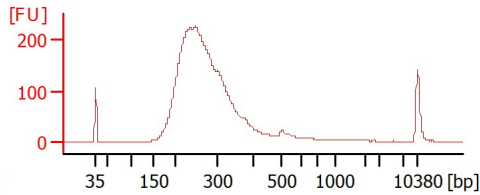
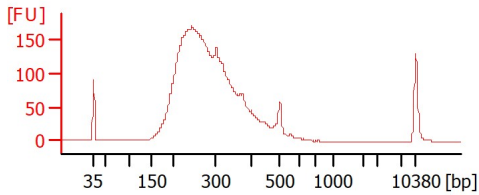
65



67_2

77_2

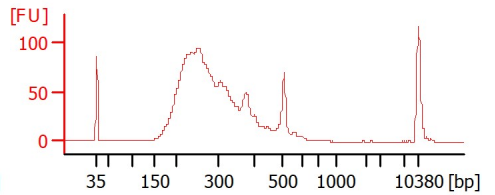
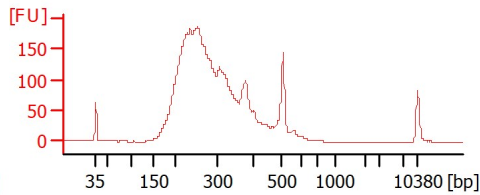
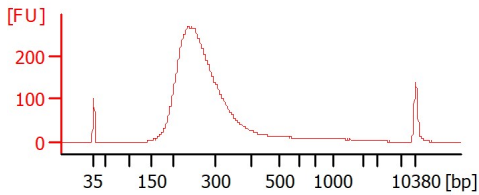
80_2



82_2

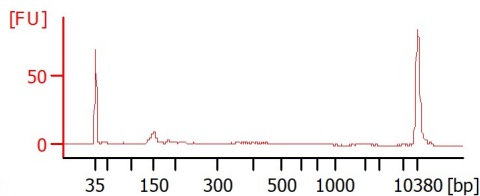
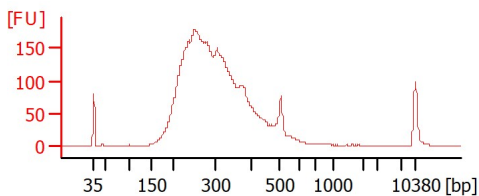
95_ignore

95_2



99_2

94_2



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
50_2		<input type="checkbox"/>	✓			
62_3		<input type="checkbox"/>	✓			
65		<input type="checkbox"/>	✓			
67_2		<input type="checkbox"/>	✓			
77_2		<input type="checkbox"/>	✓			
80_2		<input type="checkbox"/>	✓			
82_2		<input type="checkbox"/>	✓			
95_ignore		<input type="checkbox"/>	✓			
95_2		<input type="checkbox"/>	✓			
99_2		<input type="checkbox"/>	✓			
94_2		<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_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 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

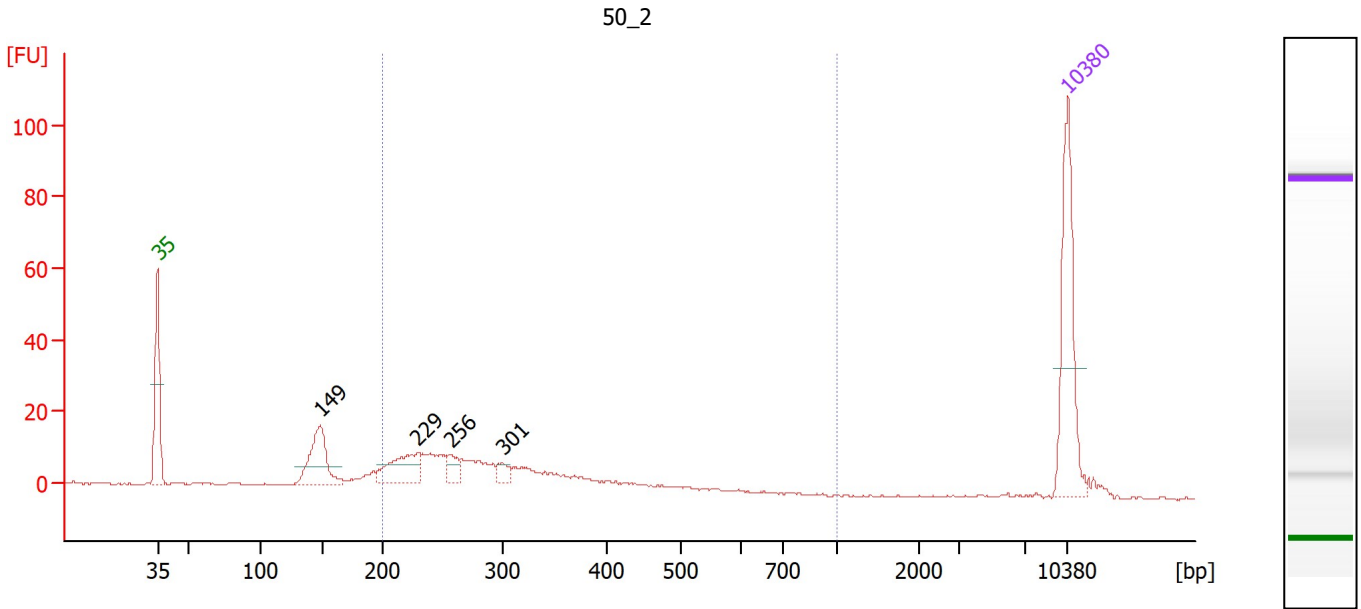
Ladder

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_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 PM

Electropherogram Summary



Overall Results for sample 1 : 50_2

Number of peaks found: 4 Corr. Area 1: 189.3
 Noise: 0.3

Peak table for sample 1 : 50_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	149	65.34	665.1	
3	229	46.20	305.9	
4	256	15.42	91.1	
5	301	9.26	46.7	
6	10,380	75.00	10.9	Upper Marker

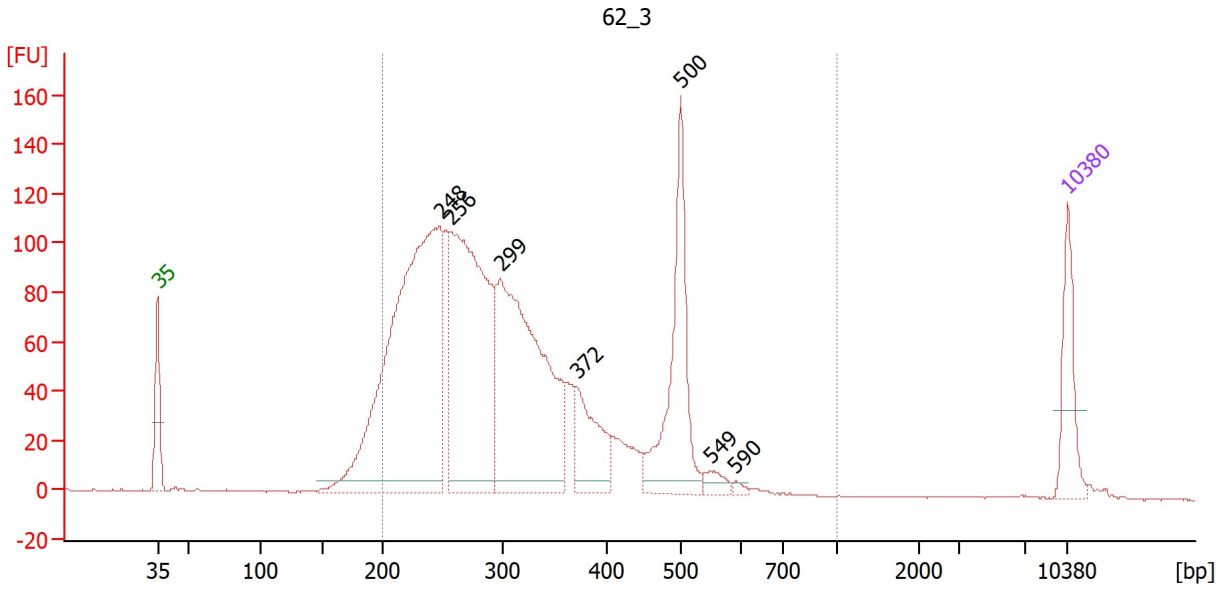
Region table for sample 1 : 50_2

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	189.3	70	301	27.1	230.71	1,254.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 62_3

Number of peaks found: 7 Corr. Area 1: 2,304.5
 Noise: 0.2

Peak table for sample 2 : 62_3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	248	970.79	5,933.5	
3	256	638.11	3,770.2	
4	299	620.53	3,147.8	
5	372	122.27	498.7	
6	500	257.33	780.3	
7	549	20.29	56.0	
8	590	5.74	14.7	
9	10,380	75.00	10.9	Upper Marker

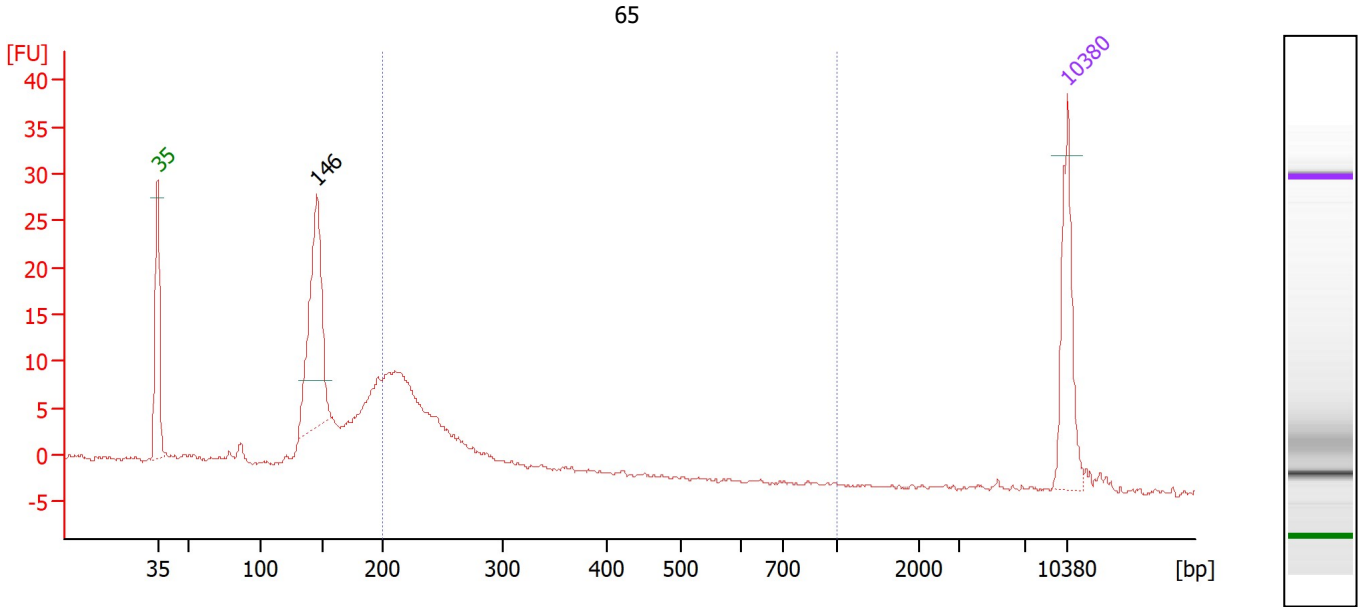
Region table for sample 2 : 62_3

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	2,304.5	94	321	30.1	2,706.73	14,156.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 65

Number of peaks found: 1 Corr. Area 1: 82.4
 Noise: 0.2

Peak table for sample 3 : 65

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	146	221.21	2,293.4	
3	10,380	75.00	10.9	Upper Marker

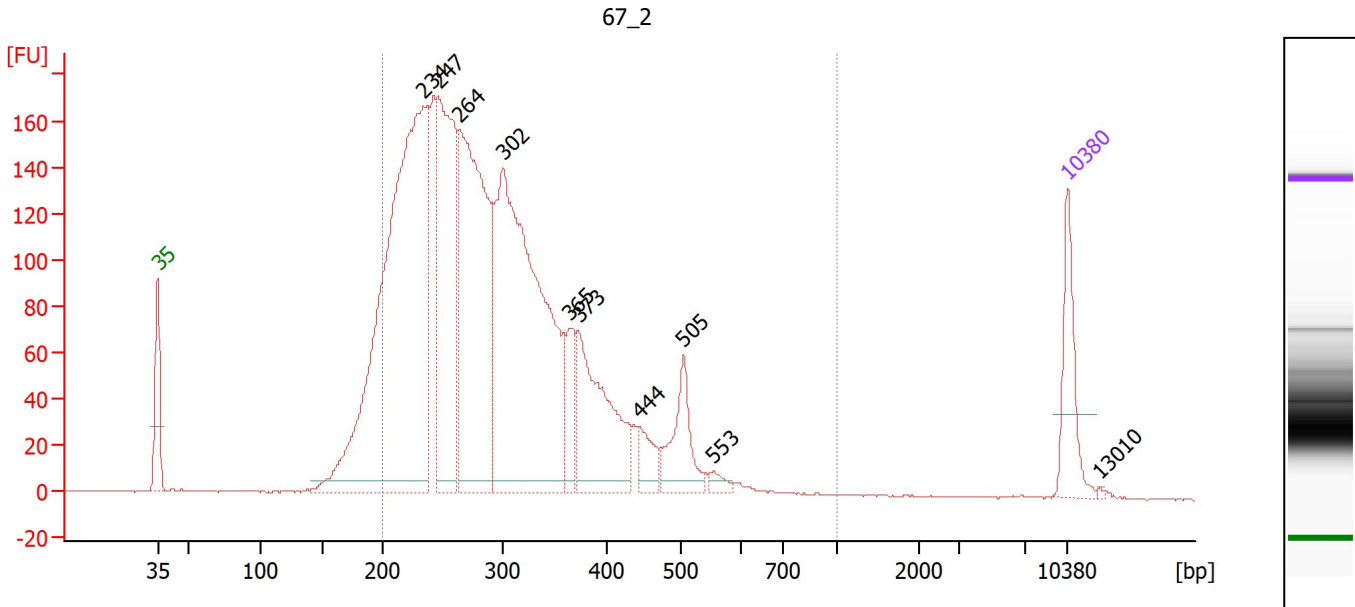
Region table for sample 3 : 65

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	82.4	40	241	16.3	313.42	2,005.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 67_2

Number of peaks found: 10 Corr. Area 1: 3,321.3
 Noise: 0.3

Peak table for sample 4 : 67_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	234	1,142.81	7,405.6	
3	247	437.39	2,686.3	
4	264	619.69	3,551.0	
5	302	835.57	4,196.9	
6	365	70.57	293.0	
7	373	236.20	958.2	
8	444	41.45	141.4	
9	505	96.77	290.3	
10	553	12.88	35.3	
11	10,380	75.00	10.9	Upper Marker
12	13,010	0.00	0.0	

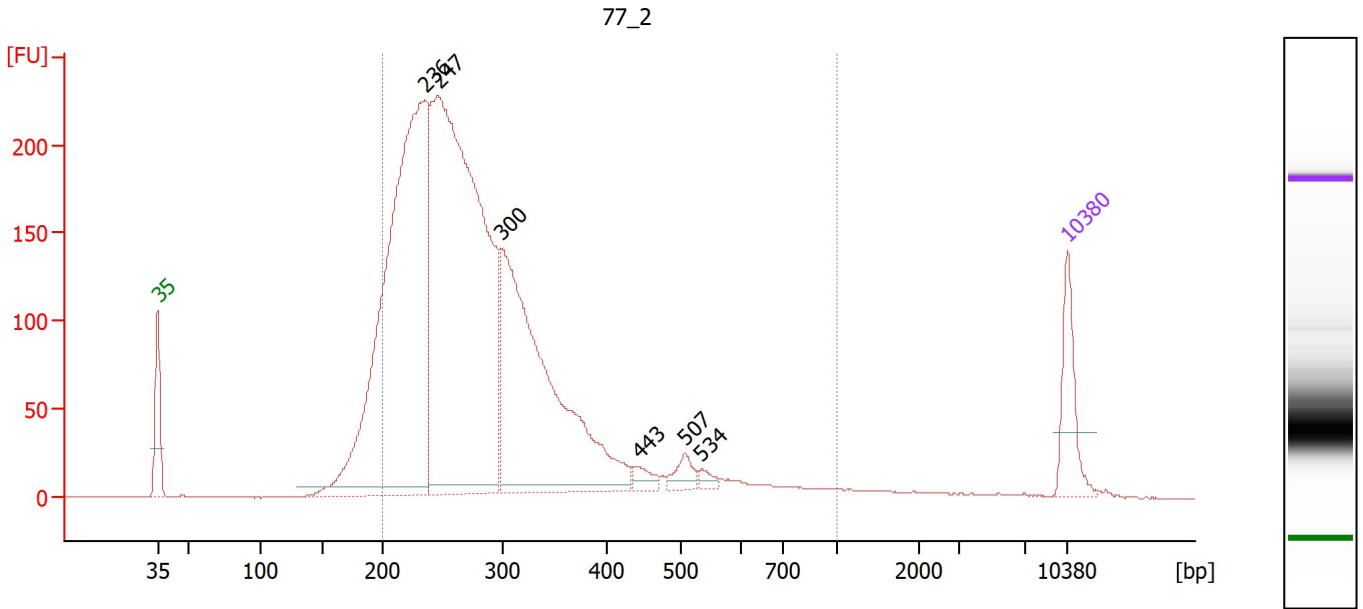
Region table for sample 4 : 67_2

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	3,321.3	92	302	27.4	3,455.27	18,700.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 77_2

Number of peaks found: 6 Corr. Area 1: 3,732.8
 Noise: 0.3

Peak table for sample 5 : 77_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	236	1,336.59	8,578.6	
3	247	1,507.54	9,238.7	
4	300	794.46	4,016.1	
5	443	23.16	79.1	
6	507	30.31	90.6	
7	534	12.99	36.8	
8	10,380	75.00	10.9	Upper Marker

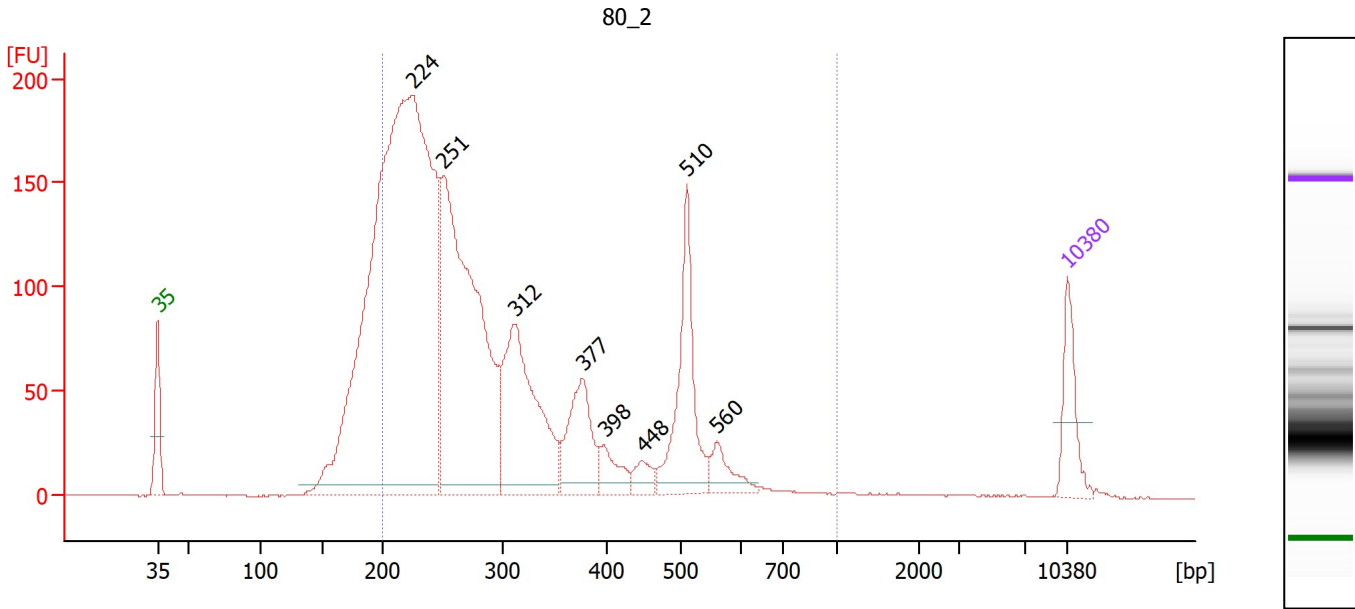
Region table for sample 5 : 77_2

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	3,732.8	91	294	33.0	3,509.41	19,634.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 80_2

Number of peaks found: 8 Corr. Area 1: 2,860.8
 Noise: 0.3

Peak table for sample 6 : 80_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	224	2,307.99	15,577.7	
3	251	967.57	5,836.9	
4	312	414.04	2,012.0	
5	377	166.26	667.4	
6	398	54.52	207.6	
7	448	34.35	116.1	
8	510	244.22	725.7	
9	560	54.01	146.2	
10	10,380	75.00	10.9	Upper Marker

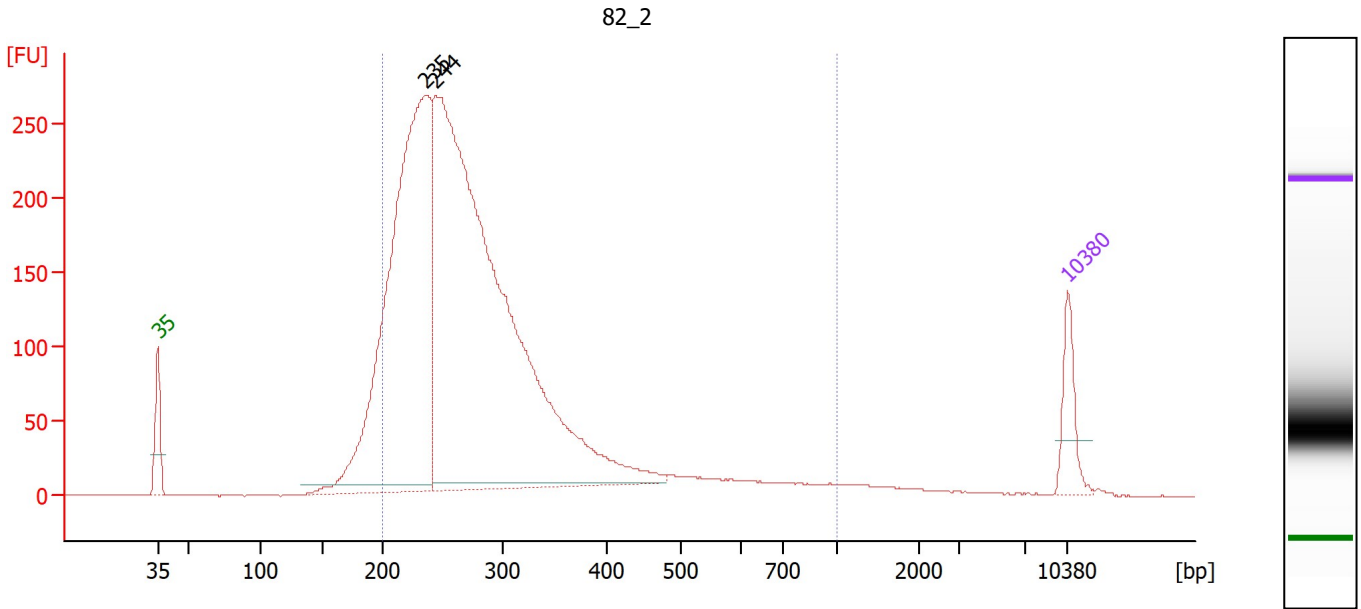
Region table for sample 6 : 80_2

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	2,860.8	84	307	36.1	3,652.92	20,413.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 82_2

Number of peaks found: 2 Corr. Area 1: 3,994.7
 Noise: 0.3

Peak table for sample 7 : 82_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	235	1,615.48	10,403.1	
3	244	2,622.76	16,267.9	
4	10,380	75.00	10.9	Upper Marker

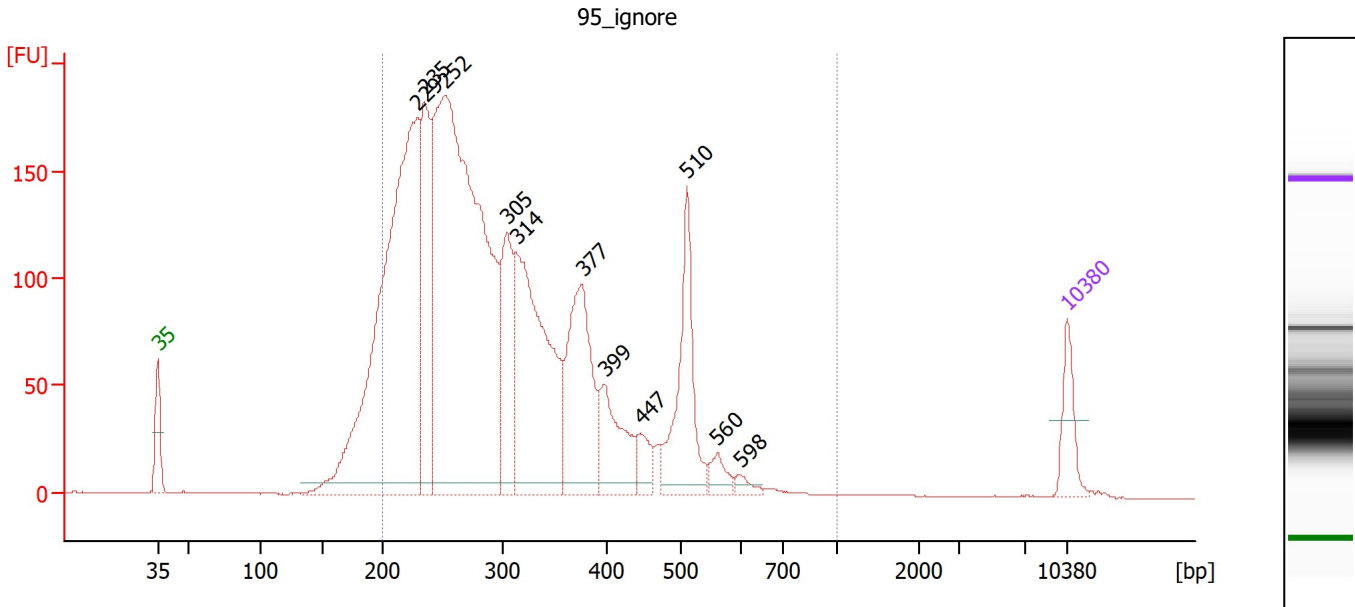
Region table for sample 7 : 82_2

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	3,994.7	91	293	35.4	4,048.40	22,848.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 95 ignore

Number of peaks found: 11 Corr. Area 1: 3,410.9
 Noise: 0.2

Peak table for sample 8 : 95 ignore

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	229	1,649.85	10,902.3	
3	235	468.90	3,017.8	
4	252	2,076.34	12,485.4	
5	305	287.92	1,428.6	
6	314	707.91	3,418.3	
7	377	416.35	1,673.8	
8	399	195.94	744.8	
9	447	63.91	216.7	
10	510	303.54	901.4	
11	560	41.98	113.5	
12	598	19.67	49.9	
13	10,380	75.00	10.9	Upper Marker

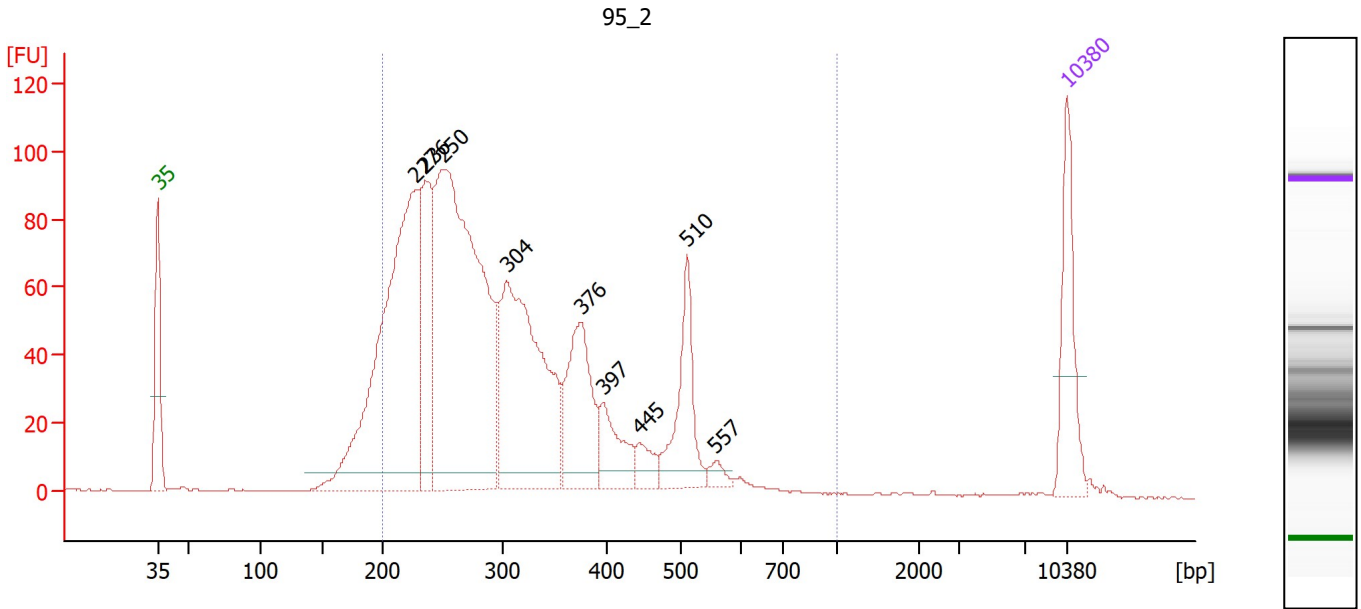
Region table for sample 8 : 95 ignore

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	3,410.9	92	312	30.4	5,787.62	31,004.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 95_2

Number of peaks found: 9 Corr. Area 1: 1,752.0
 Noise: 0.2

Peak table for sample 9 : 95_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	227	552.35	3,681.3	
3	236	158.78	1,019.2	
4	250	670.68	4,059.3	
5	304	353.02	1,757.6	
6	376	139.09	560.3	
7	397	59.54	227.0	
8	445	24.65	83.9	
9	510	99.14	294.5	
10	557	11.54	31.4	
11	10,380	75.00	10.9	Upper Marker

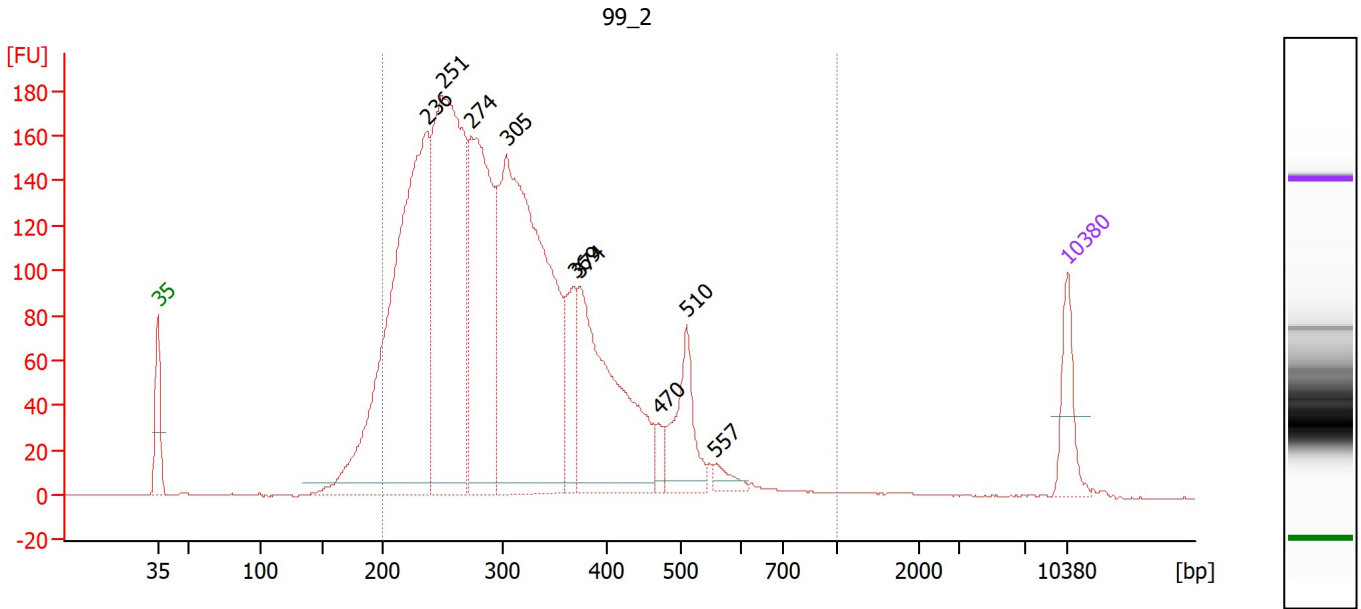
Region table for sample 9 : 95_2

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	1,752.0	91	313	30.8	1,968.48	10,527.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 99_2

Number of peaks found: 9 Corr. Area 1: 3,524.3
 Noise: 0.2

Peak table for sample 10 : 99_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	236	1,226.47	7,870.2	
3	251	986.30	5,963.9	
4	274	625.09	3,450.8	
5	305	1,167.51	5,807.7	
6	369	121.95	500.4	
7	374	497.35	2,013.1	
8	470	31.09	100.1	
9	510	155.48	461.7	
10	557	26.31	71.6	
11	10,380	75.00	10.9	Upper Marker

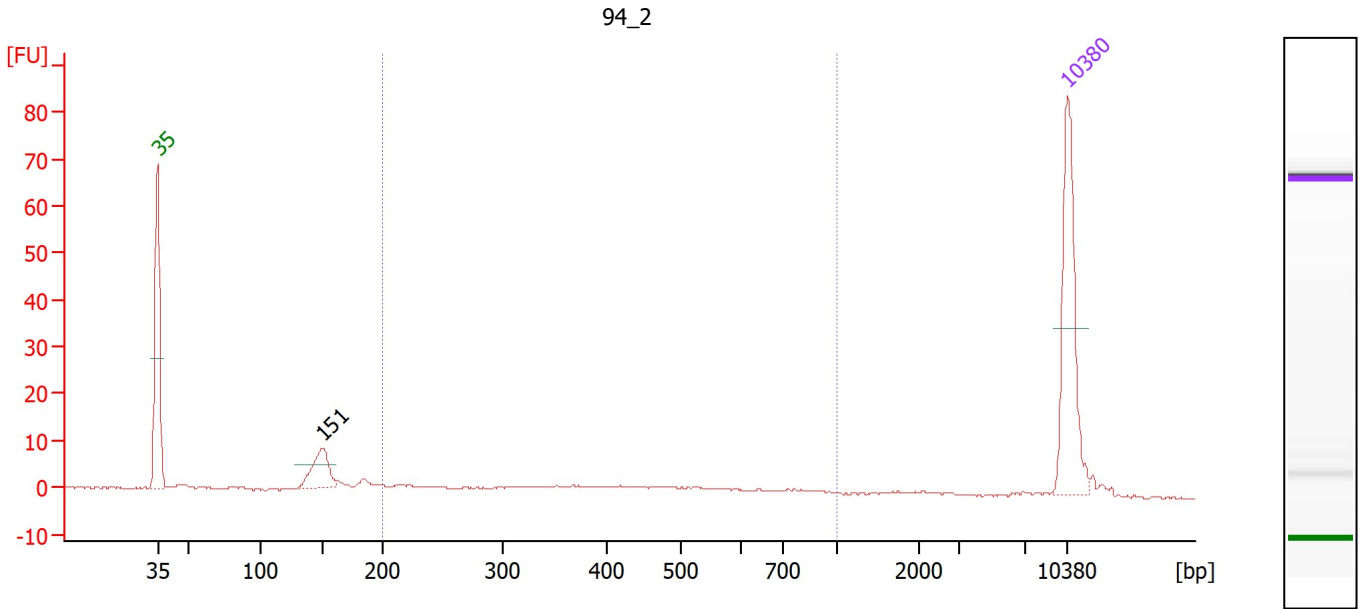
Region table for sample 10 : 99_2

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	3,524.3	94	317	28.9	4,668.14	24,344.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 94_2

Number of peaks found: 1 Corr. Area 1: 40.9
 Noise: 0.2

Peak table for sample 11 : 94_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	151	39.34	394.8	
3	10,380	75.00	10.9	Upper Marker

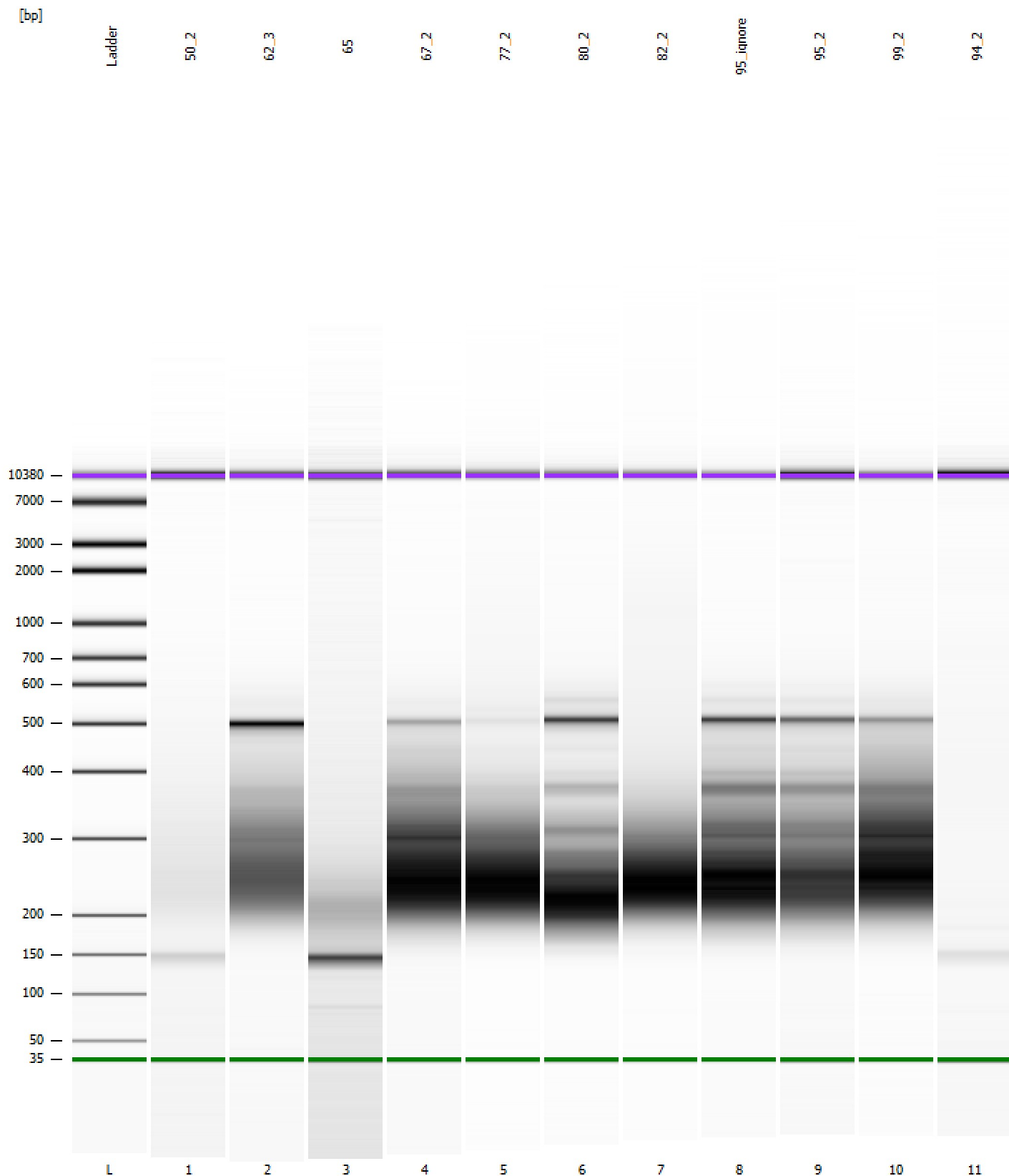
Region table for sample 11 : 94_2

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	40.9	47	433	39.0	58.18	249.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
Modified: 12/2/2019 5:01:50 PM

Gel Image

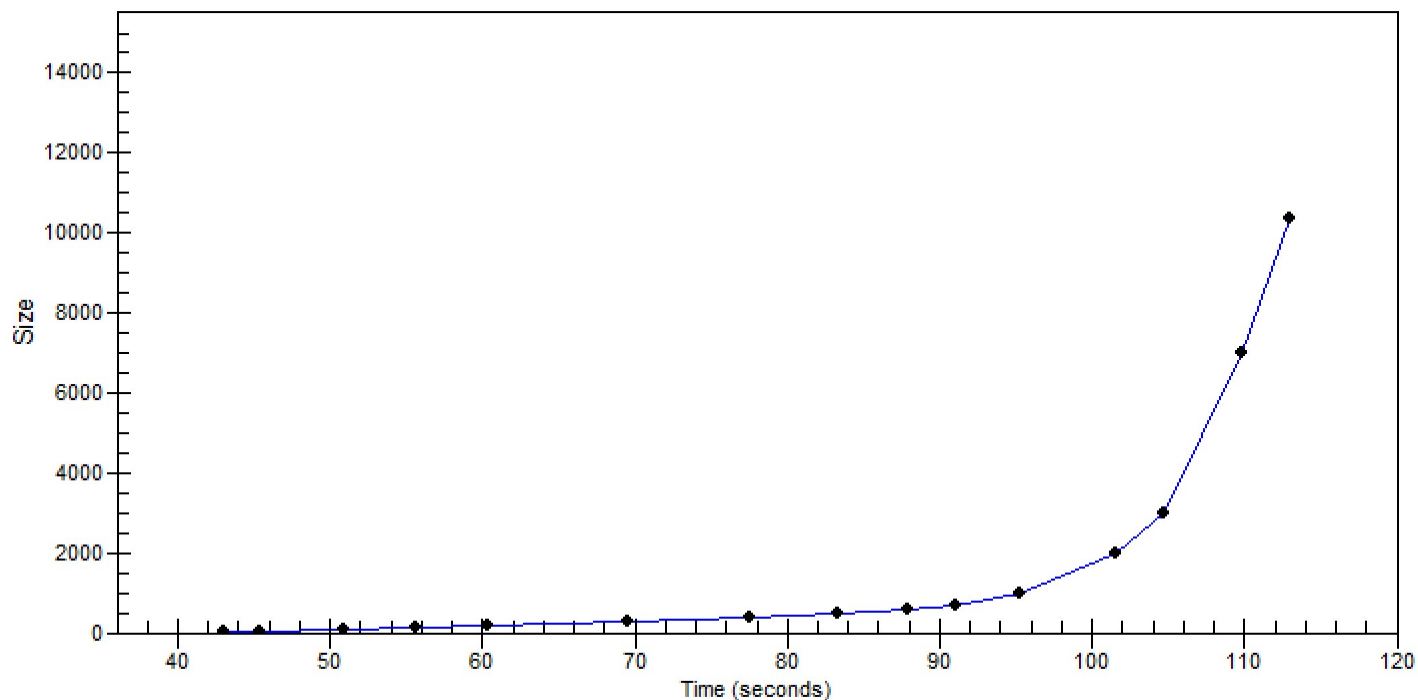


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
Modified: 12/2/2019 5:01:50 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad

Created: 12/2/2019 4:21:27 PM
 Modified: 12/2/2019 5:01:50 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		12/2/2019 5:01:48 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-12-02\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-02_002.xad)		Instrument	Run		12/2/2019 4:21:27 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/2/2019 4:21:27 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/2/2019 4:21:27 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/2/2019 4:21:27 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/2/2019 4:21:27 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/2/2019 4:21:27 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/2/2019 4:21:27 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB