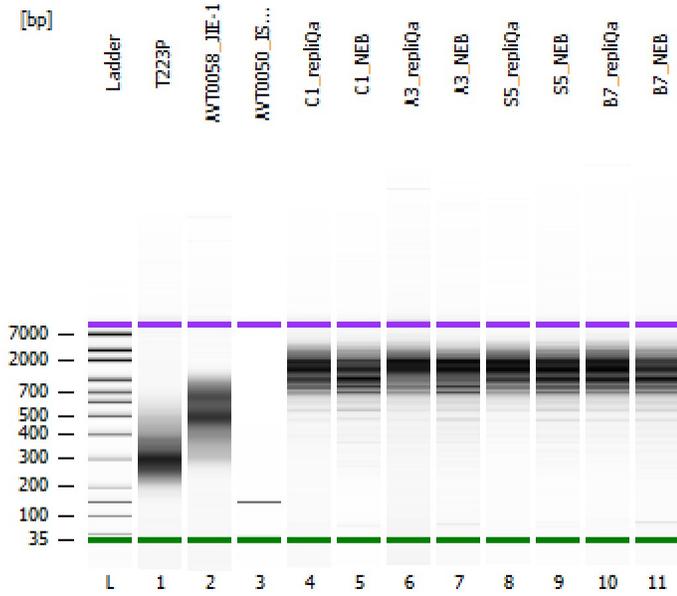


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
Modified: 9/7/2023 5:18:56 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

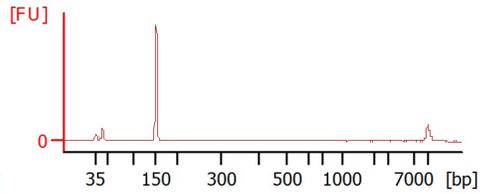
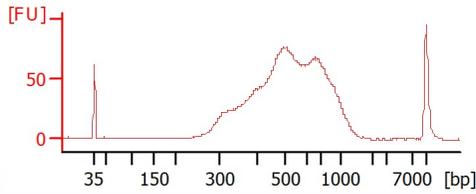
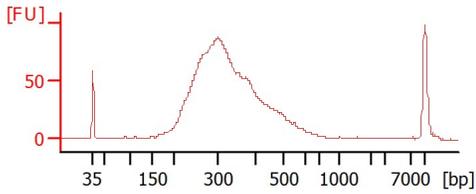
Chip Information:

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

T223P

AVT0058_JIE-1

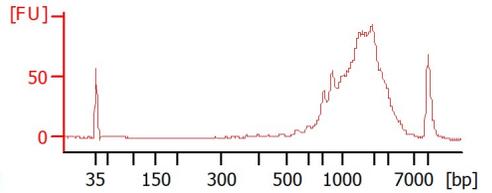
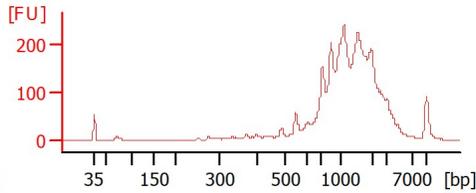
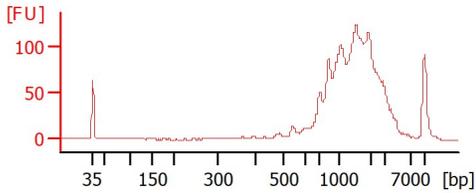
AVT0050_ISR_23



C1_repliQa

C1_NEB

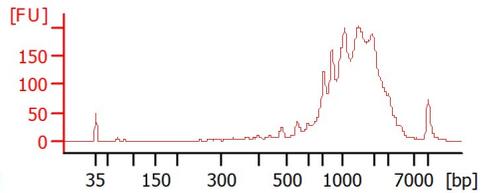
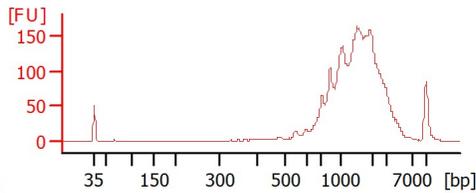
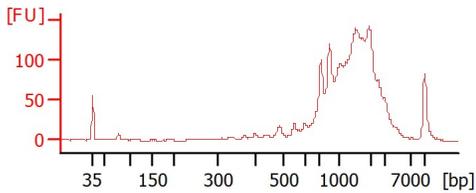
A3_repliQa



A3_NEB

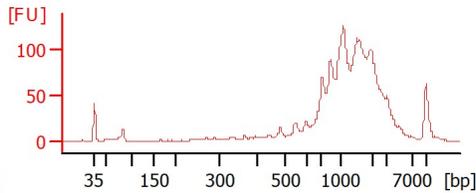
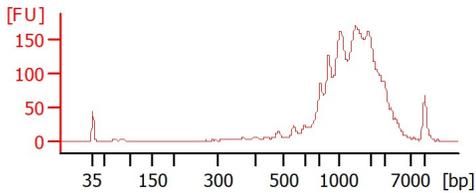
S5_repliQa

S5_NEB



B7_repliQa

B7_NEB



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
 Modified: 9/7/2023 5:18:56 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
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AVT0058_JIE-1		<input type="checkbox"/>		✓		
AVT0050_ISR_23		<input type="checkbox"/>		✓		
C1_repliQa		<input type="checkbox"/>		✓		
C1_NEB		<input type="checkbox"/>		✓		
A3_repliQa		<input type="checkbox"/>		✓		
A3_NEB		<input type="checkbox"/>		✓		
S5_repliQa		<input type="checkbox"/>		✓		
S5_NEB		<input type="checkbox"/>		✓		
B7_repliQa		<input type="checkbox"/>		✓		
B7_NEB		<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
 Modified: 9/7/2023 5:18:56 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

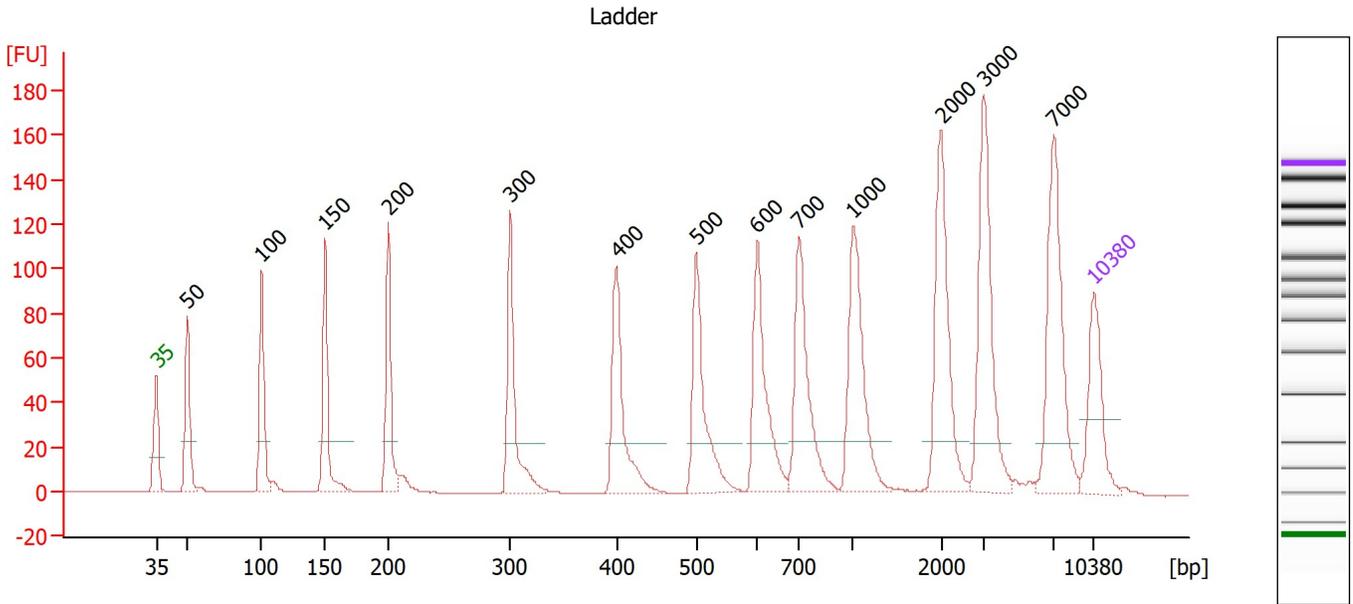
Ladder

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: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
 Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

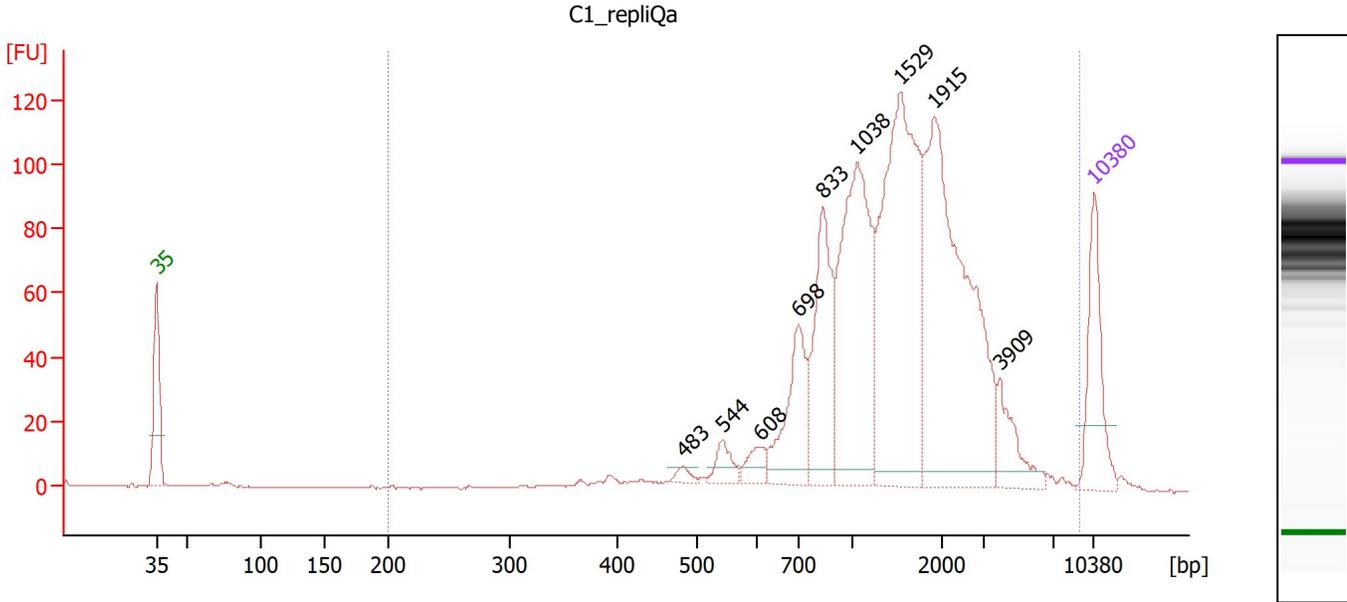
Peak table for Ladder

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: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
 Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : C1_repliQa

Number of peaks found: 9 Corr. Area 1: 1,426.7
 Noise: 0.2

Peak table for sample 4 : C1_repliQa

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	483	8.82	27.7	
3	544	23.76	66.2	
4	608	20.91	52.1	
5	698	102.20	221.9	
6	833	146.09	265.7	
7	1,038	255.67	373.2	
8	1,529	340.99	337.9	
9	1,915	351.71	278.3	
10	3,909	44.34	17.2	
11	10,380	75.00	10.9	Upper Marker

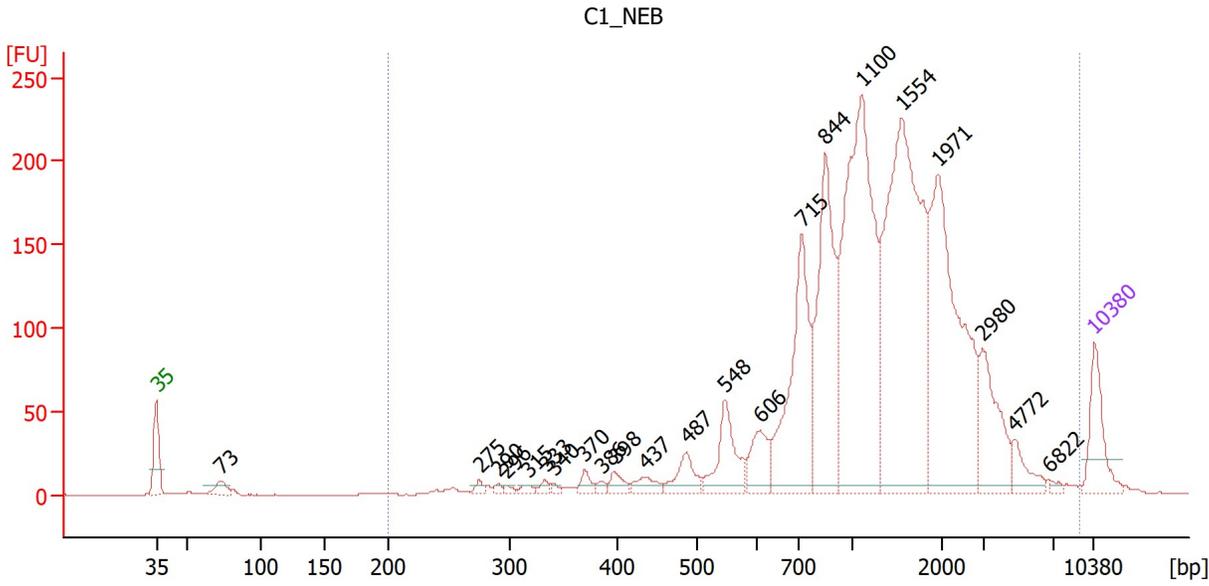
Region table for sample 4 : C1_repliQa

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	9,124	1,426.7	99	1,665	62.1	1,375.06	1,779.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
 Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : C1_NEB

Number of peaks found: 22 Corr. Area 1: 2,893.4
 Noise: 0.2

Peak table for sample 5 : C1_NEB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	73	28.84	600.4	
3	275	11.48	63.3	
4	290	7.93	41.4	
5	296	7.73	39.5	
6	315	11.40	54.8	
7	333	11.04	50.3	
8	340	7.77	34.6	
9	370	19.37	79.4	
10	386	9.72	38.1	
11	398	24.07	91.6	
12	437	28.89	100.3	
13	487	53.89	167.5	
14	548	108.24	299.5	
15	606	70.22	175.6	
16	715	309.30	655.9	
17	844	326.05	585.3	
18	1,100	601.90	829.0	
19	1,554	621.55	606.1	
20	1,971	412.63	317.2	
21	2,980	119.46	60.7	
22	4,772	35.73	11.3	
23	6,822	5.85	1.3	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
 Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary Continued ...

... Region table for sample 5 :

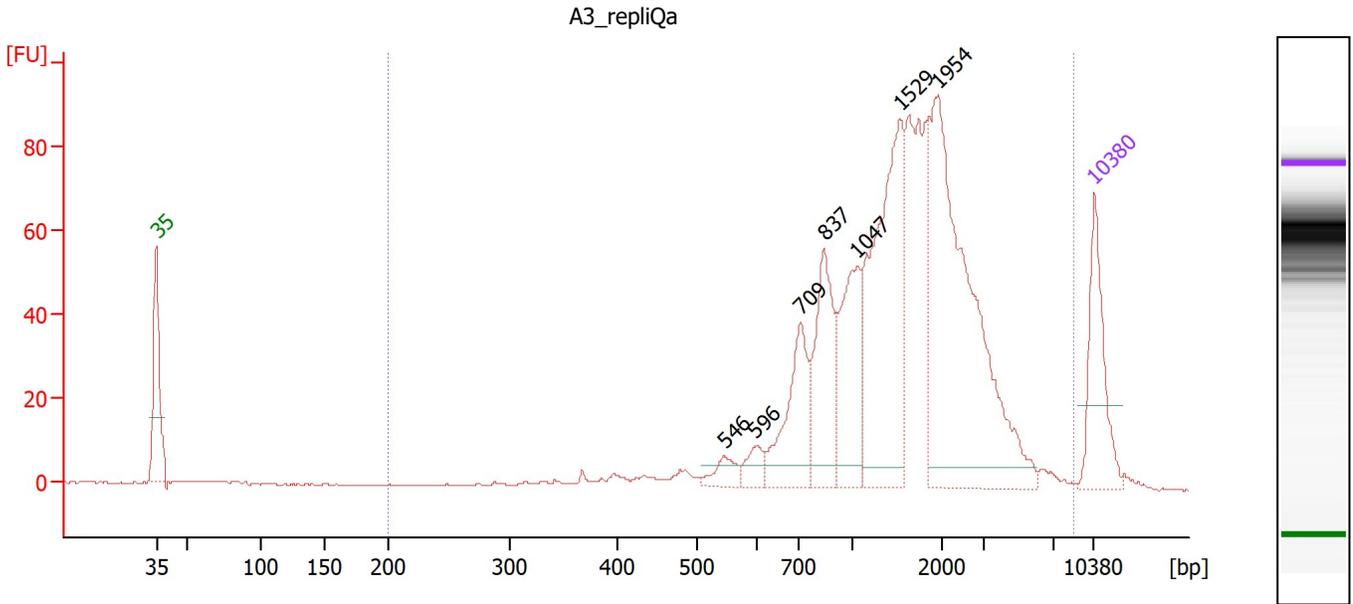
C1_NEB

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	9,195	2,893.4	97	1,517	69.6	2,933.30	4,628.8	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
 Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : A3_repliQa

Number of peaks found: 7 Corr. Area 1: 1,011.0
 Noise: 0.2

Peak table for sample 6 : A3_repliQa

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	546	20.42	56.6	
3	596	20.38	51.8	
4	709	100.91	215.6	
5	837	115.89	209.9	
6	1,047	104.22	150.8	
7	1,529	235.11	233.0	
8	1,954	329.75	255.7	
9	10,380	75.00	10.9	Upper Marker

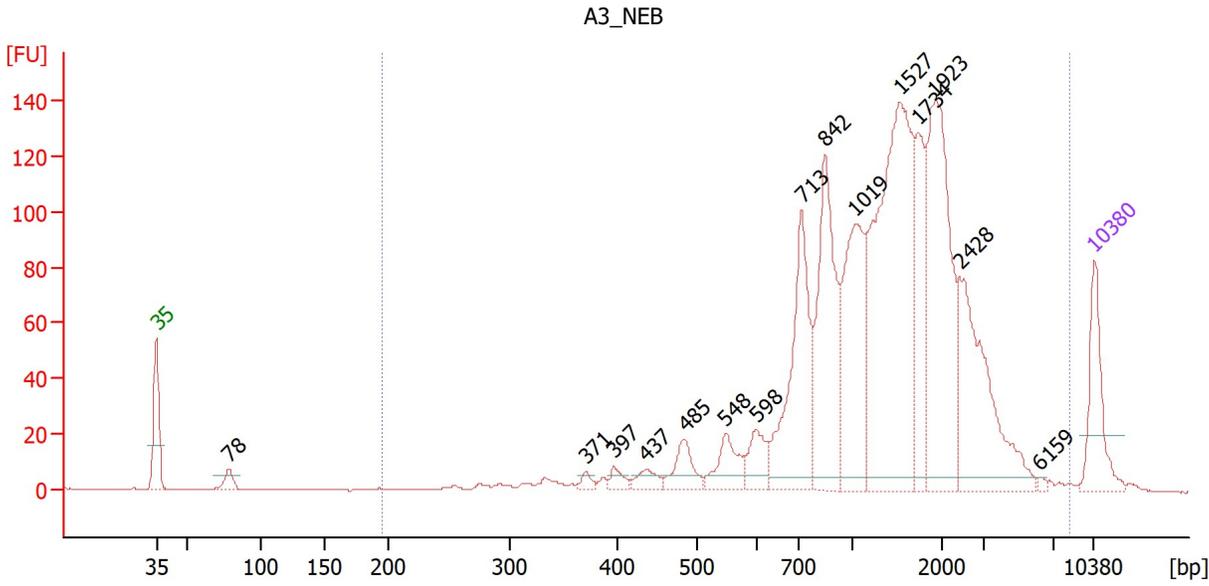
Region table for sample 6 : A3_repliQa

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	8,708	1,011.0	99	1,711	60.0	1,154.57	1,463.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
 Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : A3_NEB

Number of peaks found: 15 Corr. Area 1: 1,705.9
 Noise: 0.2

Peak table for sample 7 : A3_NEB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	78	21.02	406.6	
3	371	10.90	44.5	
4	397	16.13	61.5	
5	437	21.20	73.5	
6	485	45.45	142.1	
7	548	53.48	147.9	
8	598	41.61	105.4	
9	713	222.25	472.5	
10	842	234.93	422.5	
11	1,019	192.69	286.6	
12	1,527	444.63	441.1	
13	1,734	119.61	104.5	
14	1,923	269.82	212.6	
15	2,428	189.07	118.0	
16	6,159	3.40	0.8	
17	10,380	75.00	10.9	Upper Marker

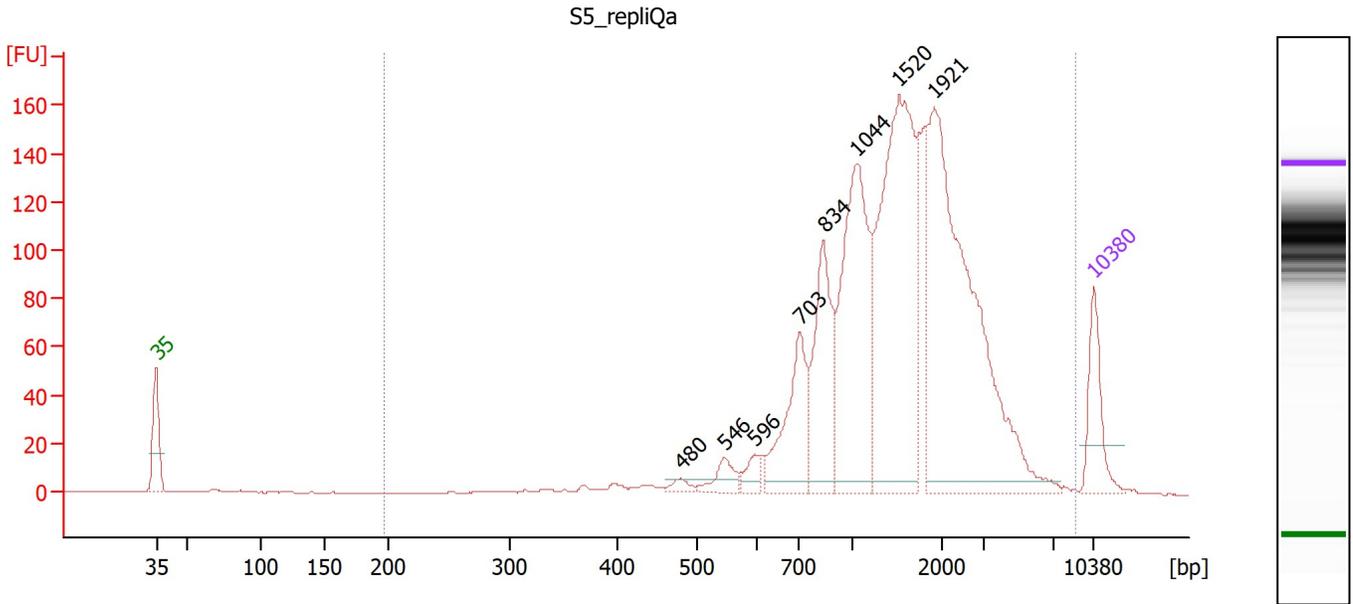
Region table for sample 7 : A3_NEB

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
196	8,286	1,705.9	98	1,539	61.7	1,954.28	2,881.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
 Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : S5_repliQa

Number of peaks found: 8 Corr. Area 1: 1,843.0
 Noise: 0.2

Peak table for sample 8 : S5_repliQa

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	480	14.23	44.9	
3	546	33.94	94.1	
4	596	25.01	63.6	
5	703	163.73	352.8	
6	834	201.26	365.5	
7	1,044	355.75	516.2	
8	1,520	498.71	497.0	
9	1,921	602.03	474.9	
10	10,380	75.00	10.9	Upper Marker

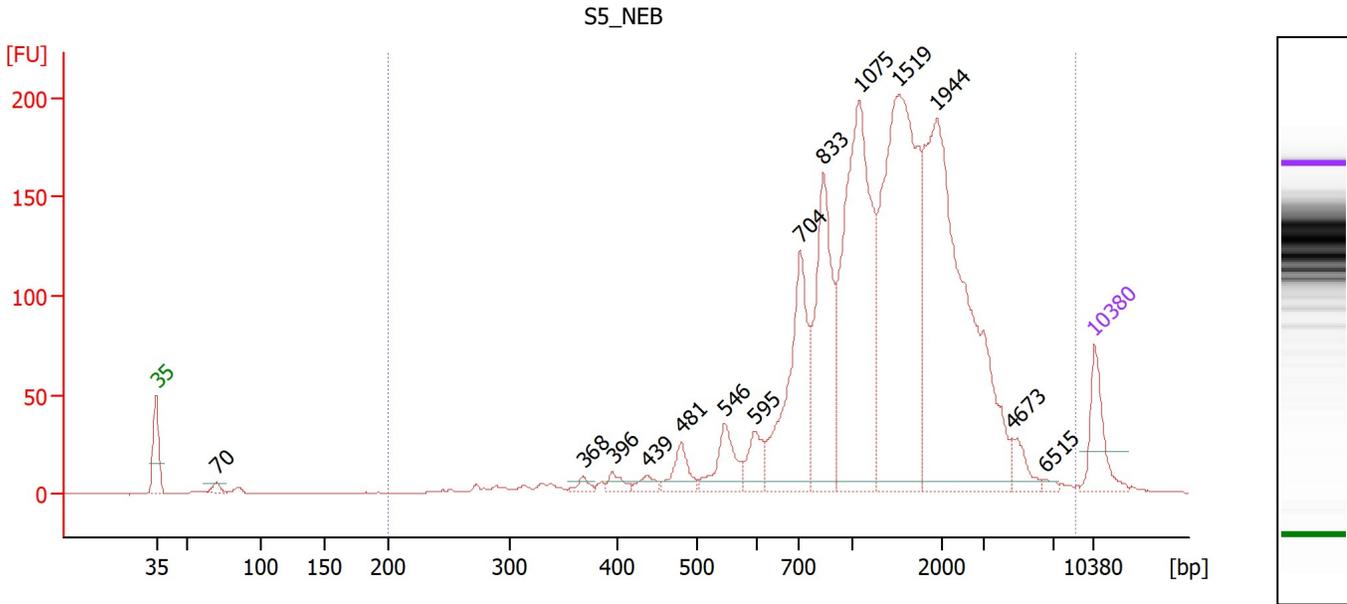
Region table for sample 8 : S5_repliQa

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
197	8,788	1,843.0	99	1,685	59.1	2,064.26	2,586.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
 Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : S5_NEB

Number of peaks found: 14 Corr. Area 1: 2,513.4
 Noise: 0.3

Peak table for sample 9 : S5_NEB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	70	15.11	327.6	
3	368	16.13	66.4	
4	396	22.10	84.5	
5	439	22.50	77.7	
6	481	56.34	177.4	
7	546	88.33	244.9	
8	595	55.30	140.8	
9	704	315.30	678.1	
10	833	315.67	574.3	
11	1,075	583.38	822.1	
12	1,519	680.50	678.6	
13	1,944	753.91	587.6	
14	4,673	35.30	11.4	
15	6,515	7.50	1.7	
16	10,380	75.00	10.9	Upper Marker

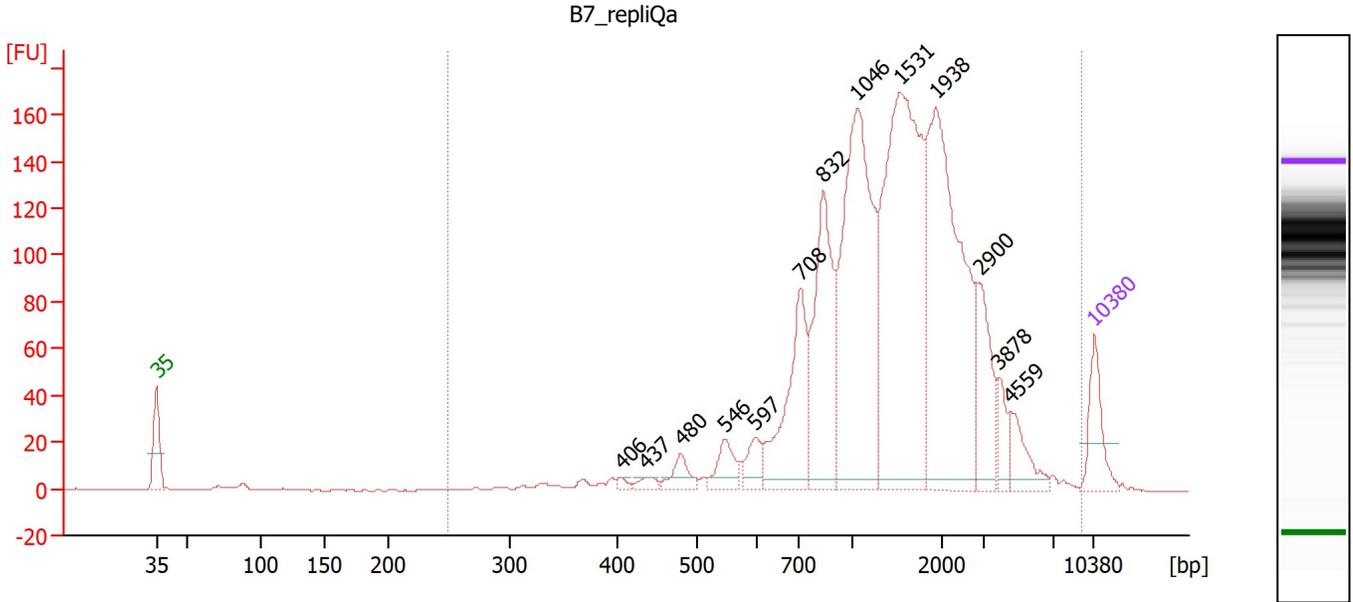
Region table for sample 9 : S5_NEB

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	8,847	2,513.4	97	1,563	64.9	3,130.28	4,640.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
 Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : B7_repliQa

Number of peaks found: 13 Corr. Area 1: 2,087.9
 Noise: 0.2

Peak table for sample 10 : B7_repliQa

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	406	10.18	38.0	
3	437	18.12	62.9	
4	480	45.42	143.3	
5	546	61.44	170.6	
6	597	49.02	124.3	
7	708	263.31	563.4	
8	832	325.08	592.0	
9	1,046	608.31	881.0	
10	1,531	727.70	720.3	
11	1,938	594.98	465.3	
12	2,900	126.67	66.2	
13	3,878	44.36	17.3	
14	4,559	60.37	20.1	
15	10,380	75.00	10.9	Upper Marker

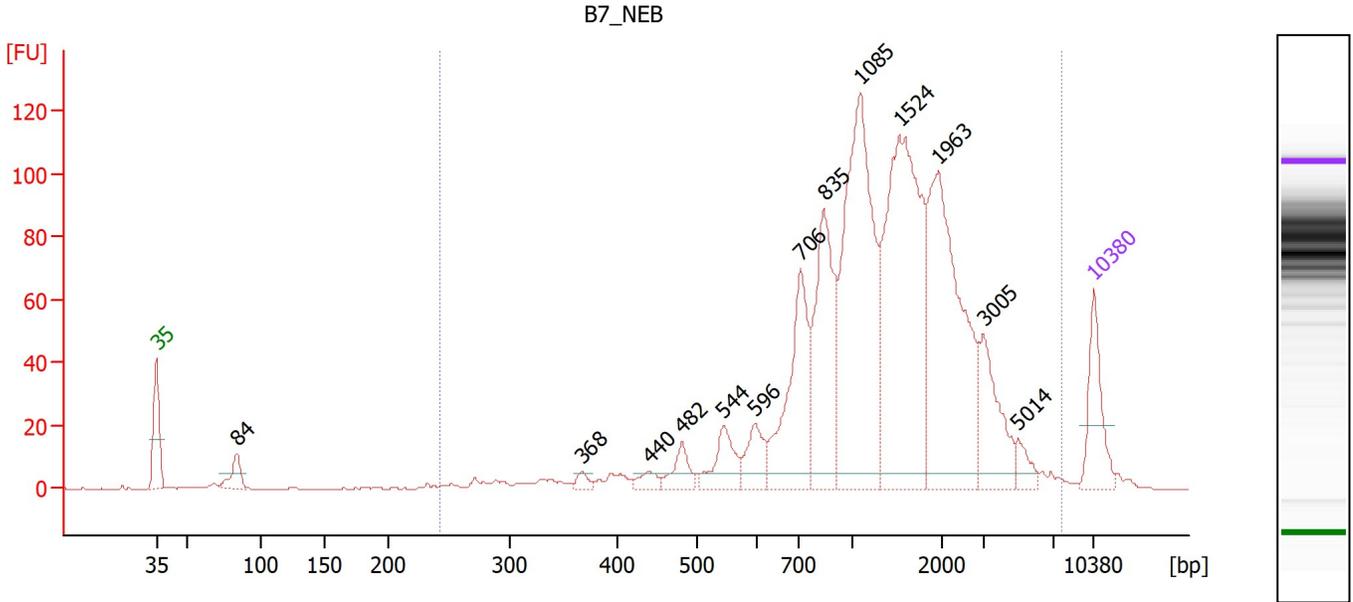
Region table for sample 10 : B7_repliQa

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
249	9,316	2,087.9	99	1,661	63.8	3,040.69	4,058.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
 Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : B7_NEB

Number of peaks found: 13 Corr. Area 1: 1,432.0
 Noise: 0.2

Peak table for sample 11 : B7_NEB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	84	45.06	816.8	
3	368	12.29	50.6	
4	440	17.86	61.5	
5	482	39.77	125.0	
6	544	65.84	183.4	
7	596	52.73	134.0	
8	706	219.73	471.8	
9	835	237.82	431.4	
10	1,085	456.62	637.7	
11	1,524	478.06	475.2	
12	1,963	360.25	278.0	
13	3,005	105.84	53.4	
14	5,014	21.70	6.6	
15	10,380	75.00	10.9	Upper Marker

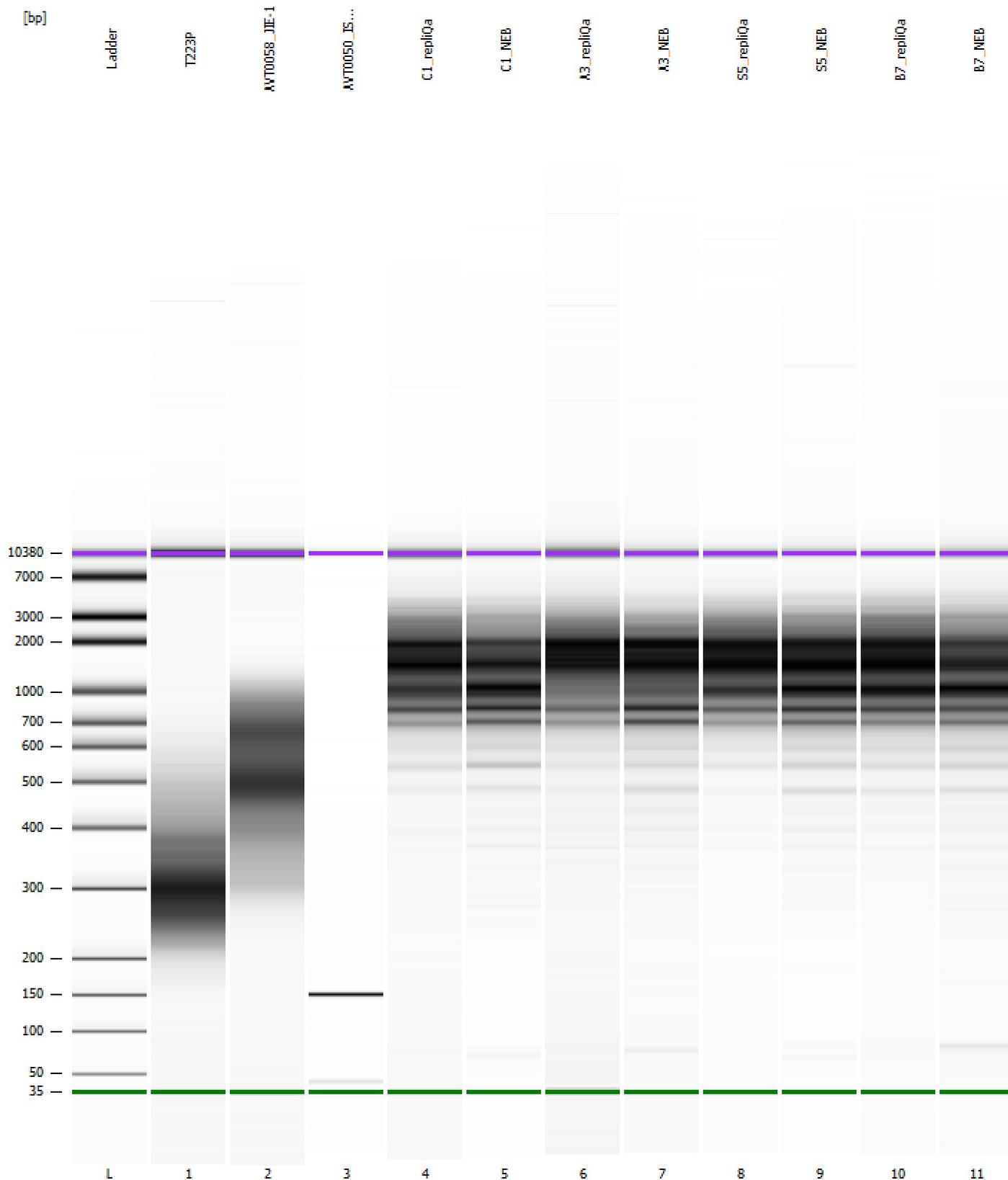
Region table for sample 11 : B7_NEB

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
242	7,691	1,432.0	97	1,549	64.8	2,188.63	3,246.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
Modified: 9/7/2023 5:18:56 PM

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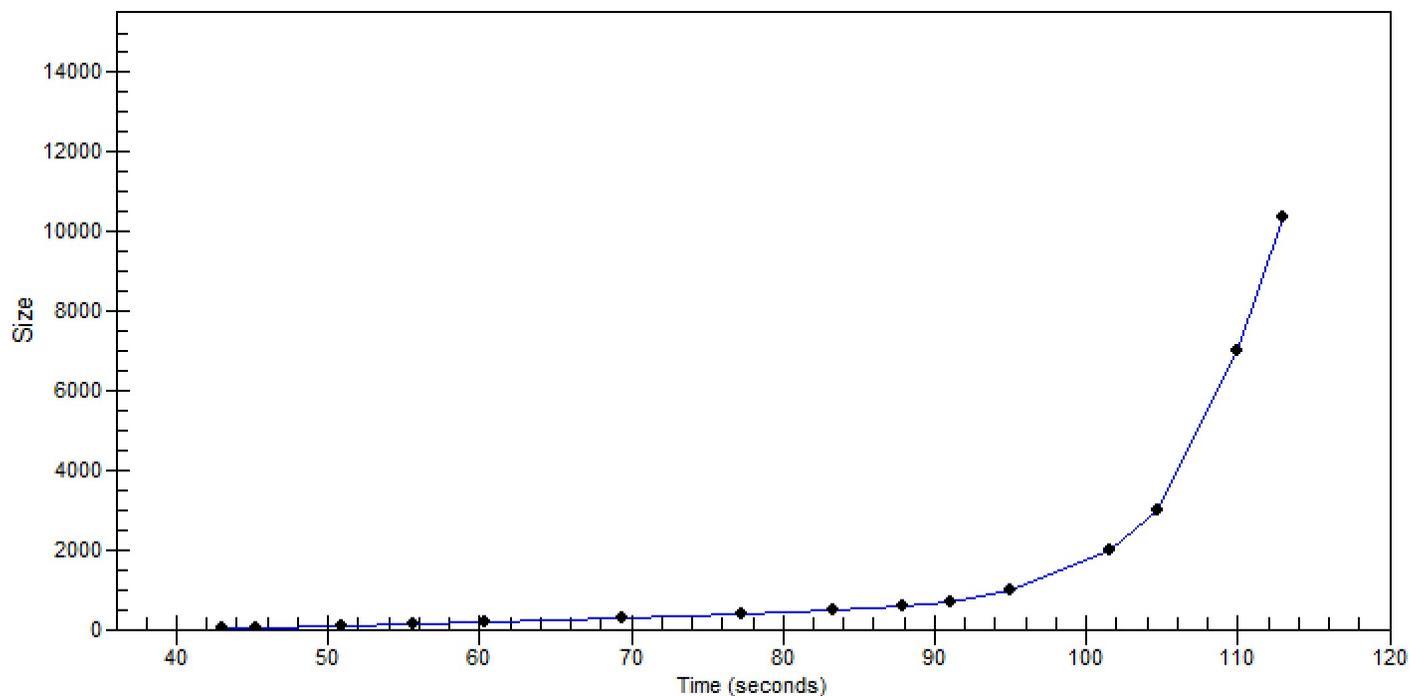


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
Modified: 9/7/2023 5:18:56 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad

Created: 9/7/2023 4:27:42 PM
 Modified: 9/7/2023 5:18:56 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		9/7/2023 5:09:03 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-09-07\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad)		Instrument	Run		9/7/2023 4:27:48 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		9/7/2023 4:27:48 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		9/7/2023 4:27:48 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		9/7/2023 4:27:48 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		9/7/2023 4:27:48 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		9/7/2023 4:27:48 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		9/7/2023 4:27:48 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB