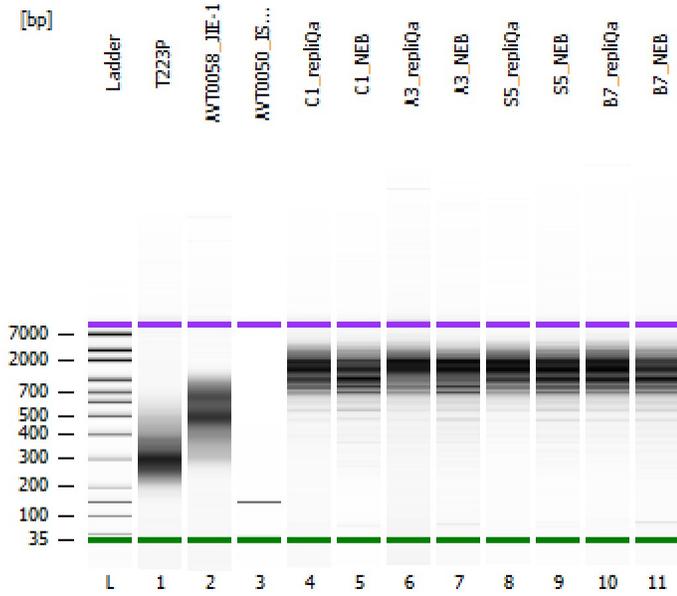|		
Assay Class:	High Sensitivity DNA Assay	
Data Path:	C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad	

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
Serial#:	DE34903152

Firmware: C.01.069
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

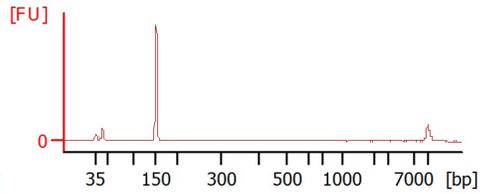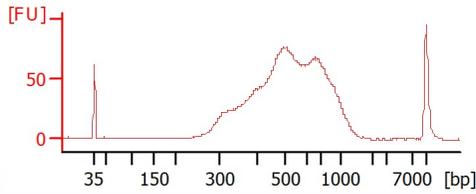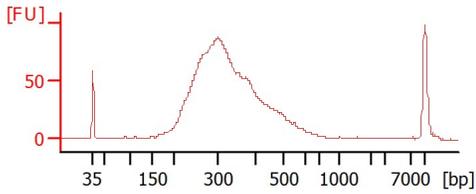Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:

Assay Class:	High Sensitivity DNA Assay	Created:	9/7/2023 4:27:42 PM
Data Path:	C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad	Modified:	9/7/2023 5:18:56 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Statu Observations	Result Label	Result Color
T223P		☐	✔		
AVT0058_JIE-1		☐	✔		
AVT0050_ISR_23		☐	✔		
C1_repliQa		☐	✔		
C1_NEB		☐	✔		
A3_repliQa		☐	✔		
A3_NEB		☐	✔		
S5_repliQa		☐	✔		
S5_NEB		☐	✔		
B7_repliQa		☐	✔		
B7_NEB		☐	✔		
Ladder		☐	✔		
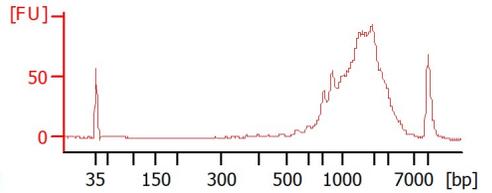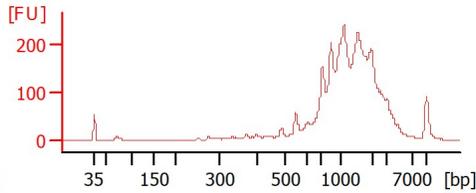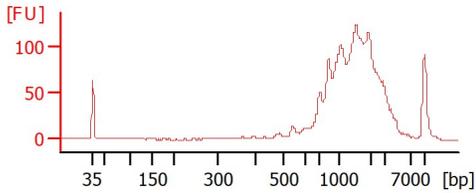
Chip Lot #   **Reagent Kit Lot #**

Chip Comments :

| Assay Class: | High Sensitivity DNA Assay | | Created: | 9/7/2023 4:27:42 PM |
| Data Path: | C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad | | 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		Created:	9/7/2023 4:27:42 PM
Data Path:	C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad		Modified:	9/7/2023 5:18:56 PM

Electropherogram Summary
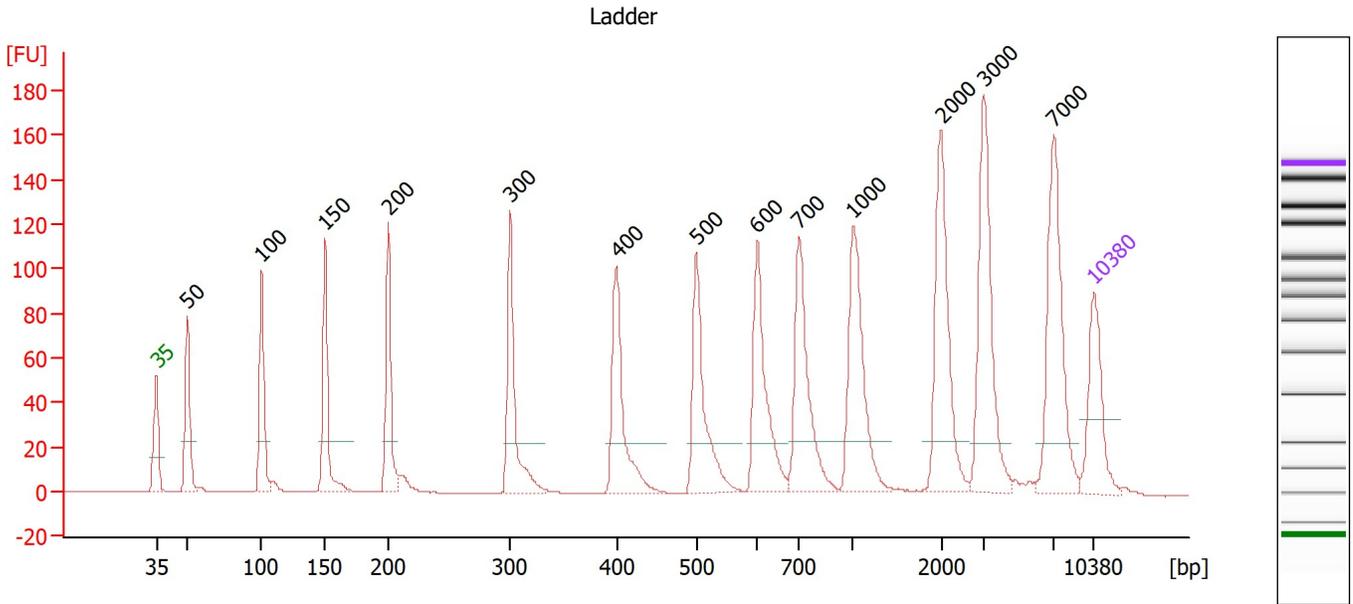
Ladder

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	L	50	150.00	4,545.5	Ladder Peak
3	L	100	150.00	2,272.7	Ladder Peak
4	L	150	150.00	1,515.2	Ladder Peak
5	L	200	150.00	1,136.4	Ladder Peak
6	L	300	150.00	757.6	Ladder Peak
7	L	400	150.00	568.2	Ladder Peak
8	L	500	150.00	454.5	Ladder Peak
9	L	600	150.00	378.8	Ladder Peak
10	L	700	150.00	324.7	Ladder Peak
11	L	1,000	150.00	227.3	Ladder Peak
12	L	2,000	150.00	113.6	Ladder Peak
13	L	3,000	150.00	75.8	Ladder Peak
14	L	7,000	150.00	32.5	Ladder Peak
15	▶	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay   Created: 9/7/2023 4:27:42 PM
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad   Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary Continued ...
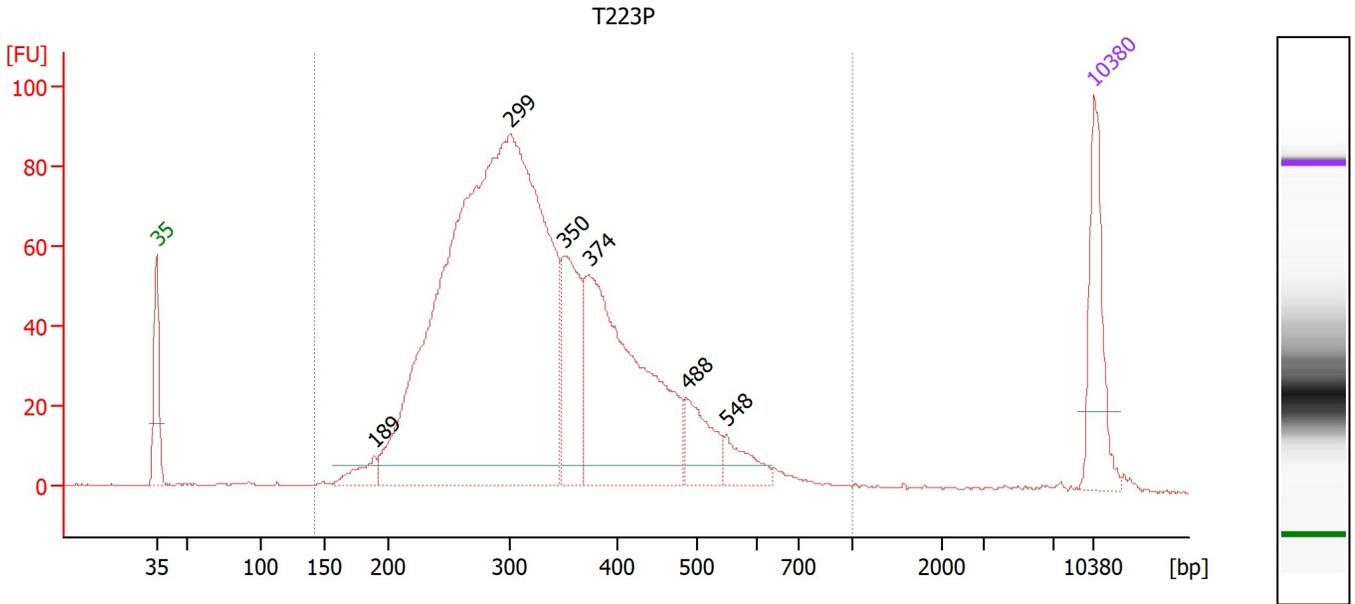
Overall Results for sample 1 : T223P

Number of peaks found:	6	Corr. Area 1:	1,746.8
Noise:	0.1		

Peak table for sample 1 : T223P

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		189	28.82	230.9	
3		299	1,337.63	6,776.7	
4		350	137.83	596.8	
5		374	378.50	1,533.3	
6		488	61.82	192.1	
7		548	34.15	94.3	
8	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 1 : T223P

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
141	1,000	1,746.8	98	337	28.6	2,080.01	10,281.9	🟦

Assay Class: High Sensitivity DNA Assay   Created: 9/7/2023 4:27:42 PM
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad   Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary Continued ...
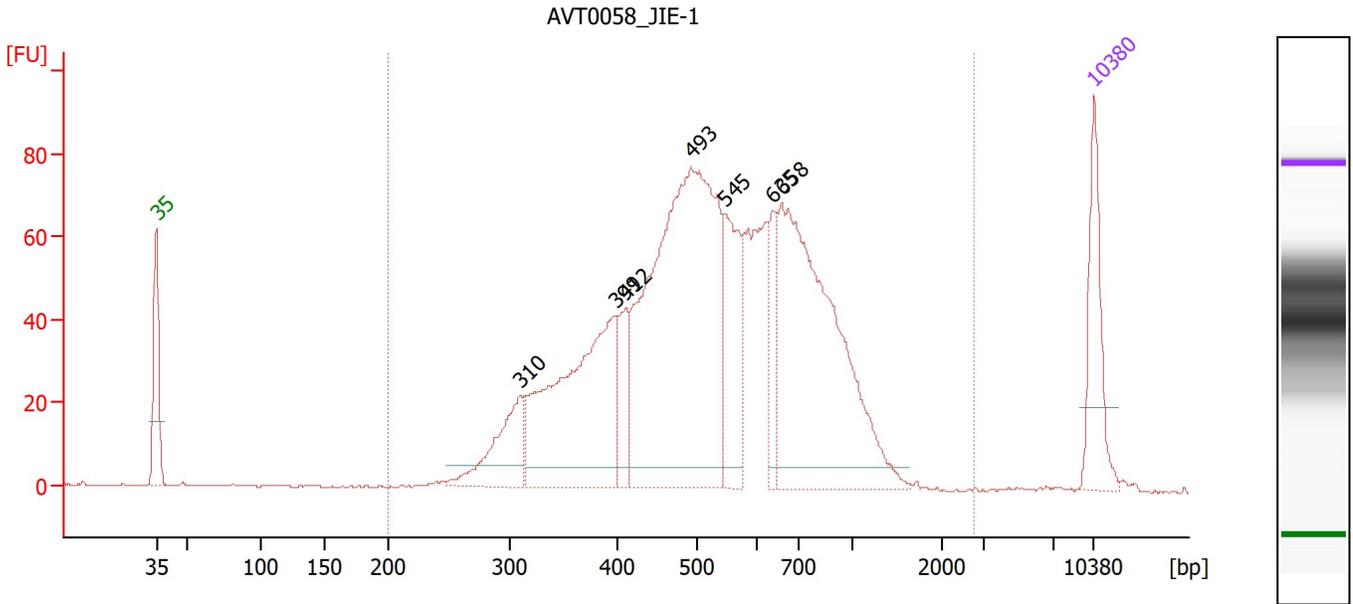
AVT0058_JIE-1

Overall Results for sample 2 :   AVT0058_JIE-1

Number of peaks found:	7	Corr. Area 1:	1,600.8
Noise:	0.1		

Peak table for sample 2 :   AVT0058_JIE-1

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		310	105.09	514.4	
3		399	324.80	1,233.4	
4		412	59.68	219.7	
5		493	664.00	2,041.0	
6		545	132.04	366.8	
7		635	61.51	146.7	
8		658	444.45	1,023.1	
9	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 2 :   AVT0058_JIE-1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	2,799	1,600.8	99	567	37.6	1,988.85	6,190.2	🟦

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 ...
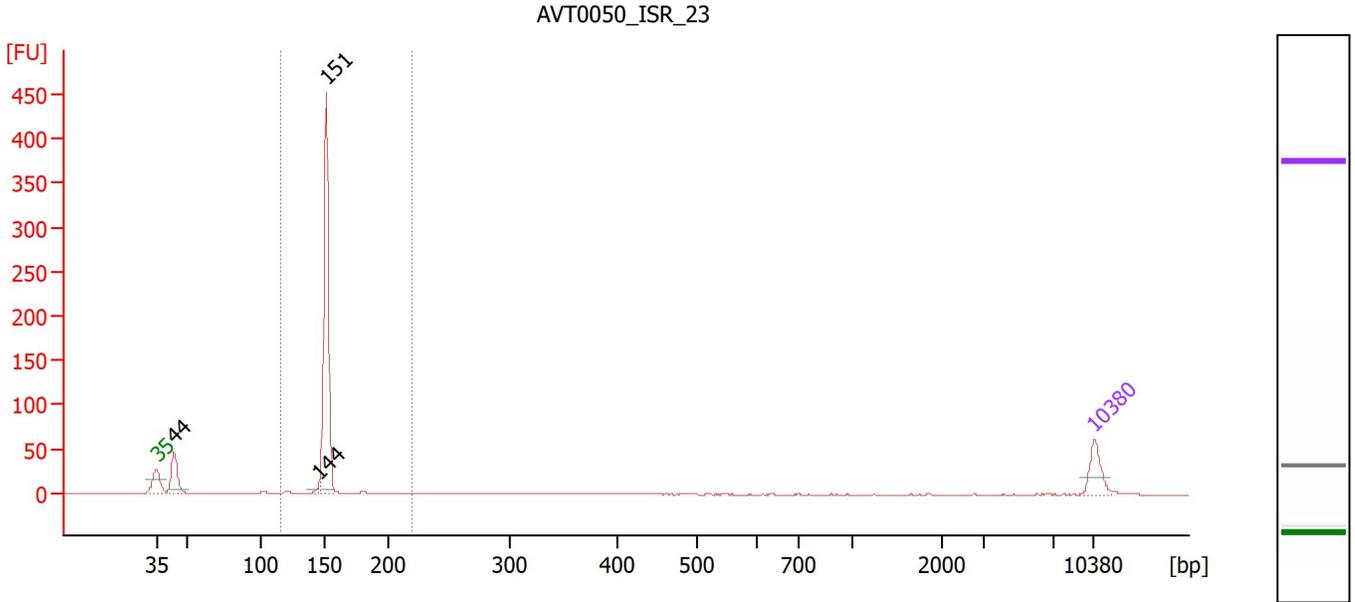
AVT0050_ISR_23

Overall Results for sample 3 :   AVT0050_ISR_23

Number of peaks found:	3	Corr. Area 1:	361.8
Noise:	0.1		

Peak table for sample 3 :   AVT0050_ISR_23

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		44	172.03	5,970.6	
3		144	12.42	130.6	
4		151	955.58	9,587.0	
5	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 3 :   AVT0050_ISR_23

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
115	219	361.8	82	151	3.6	1,000.96	10,050.8	■

Assay Class: High Sensitivity DNA Assay   Created: 9/7/2023 4:27:42 PM
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad   Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary Continued ...
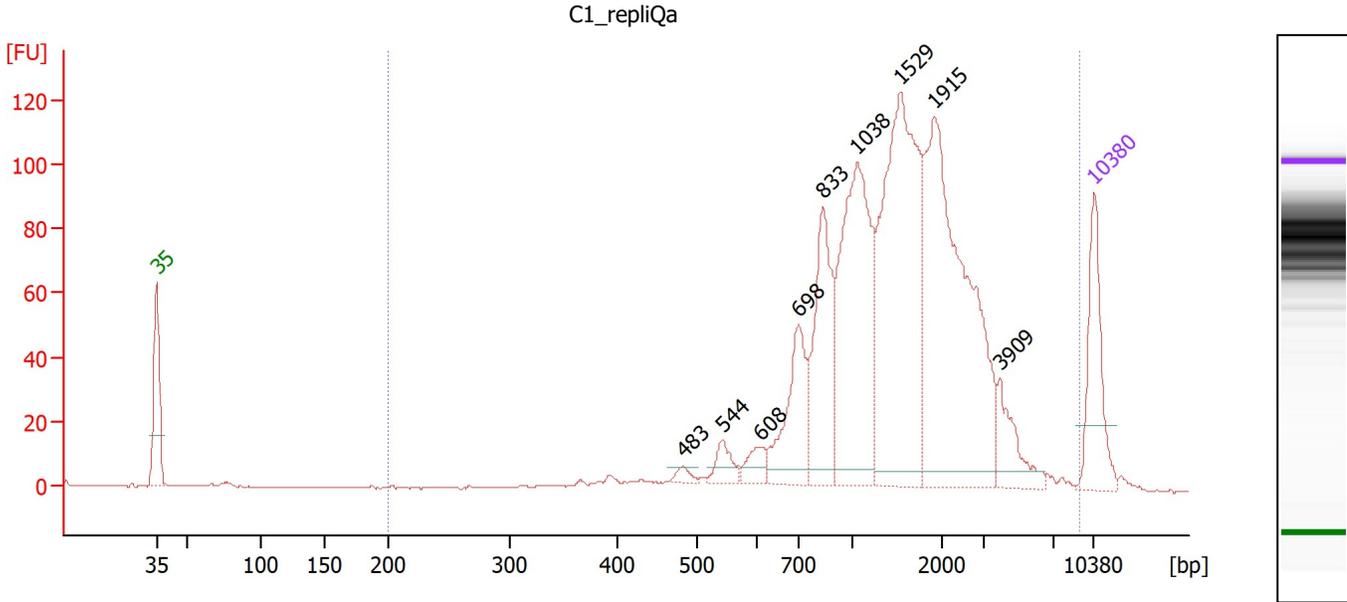
C1_repliQa

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	🟦

Assay Class: High Sensitivity DNA Assay   Created: 9/7/2023 4:27:42 PM
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad   Modified: 9/7/2023 5:18:56 PM

Electropherogram Summary Continued ...

C1_NEB

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 | | Created: | 9/7/2023 4:27:42 PM |
| Data Path: | C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad | | Modified: | 9/7/2023 5:18:56 PM |

Electropherogram Summary Continued ...
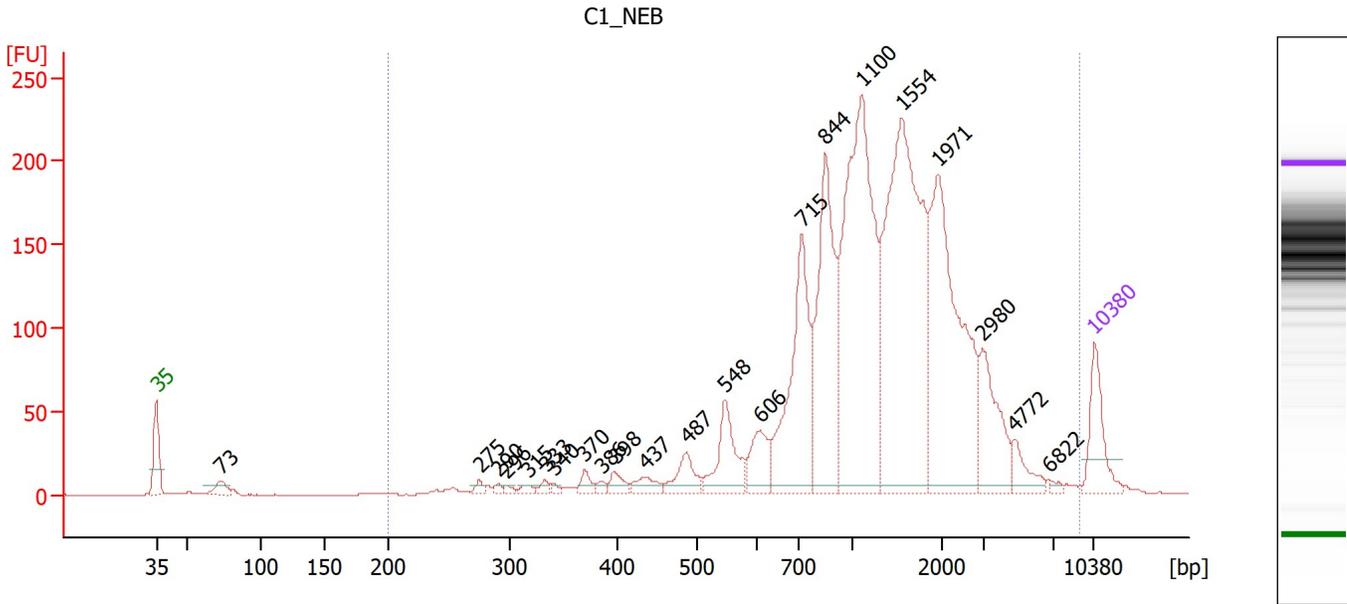
... Region table for sample 5 :   C1_NEB

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 ...

A3_repliQa

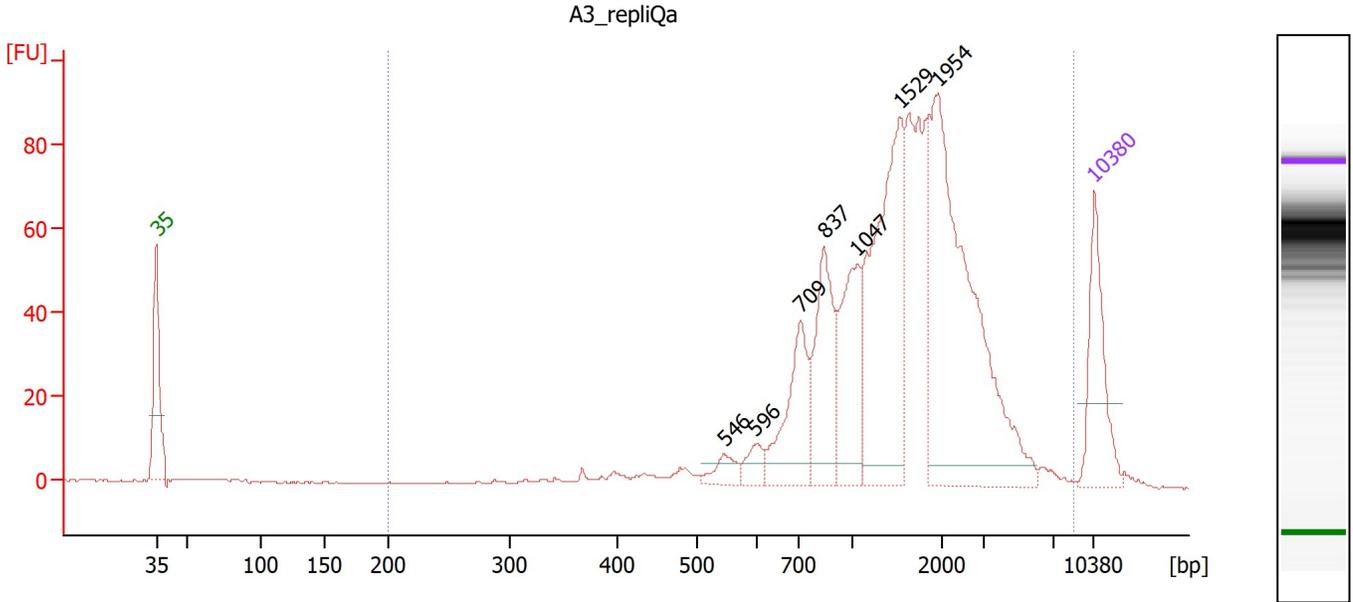## Overall Results for sample 6 :   A3_repliQa

Number of peaks found:	7
Noise:	0.2

Corr. Area 1:   1,011.0

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	🟦

Assay Class: High Sensitivity DNA Assay   Created: 9/7/2023 4:27:42 PM
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad   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

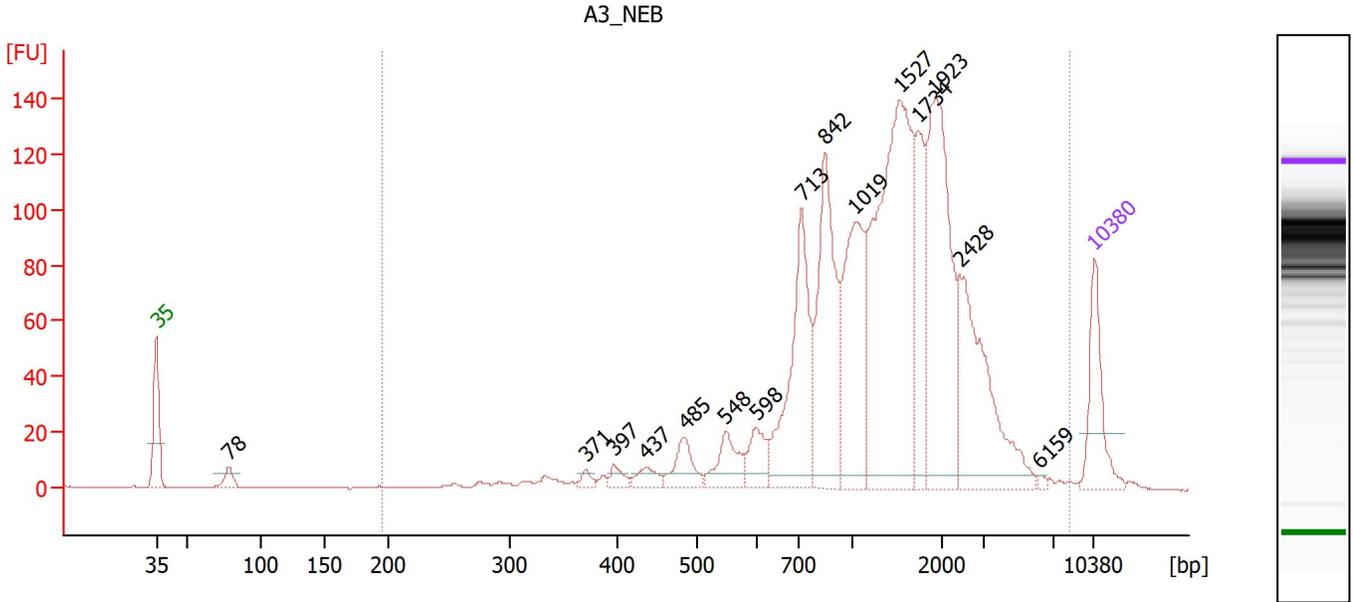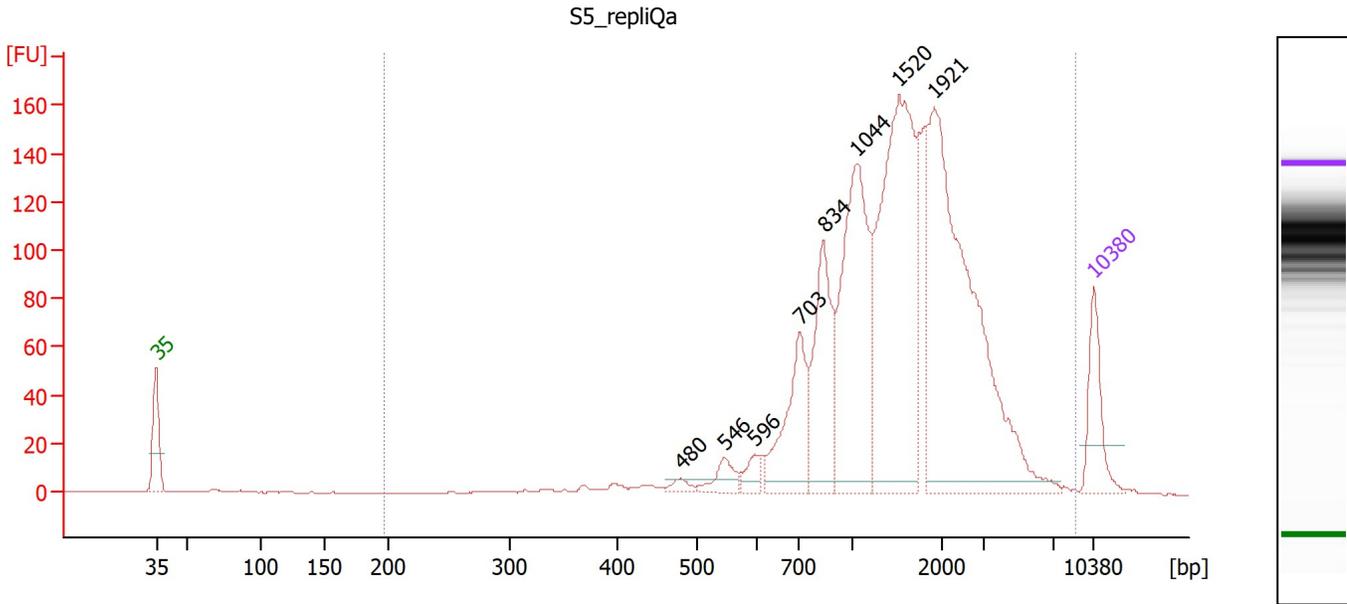| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀🔒	35	125.00	5,411.3	Lower Marker
2		78	21.02	406.6	
3		371	10.90	44.5	
4		397	16.13	61.5	
5		437	21.20	73.5	
6		485	45.45	142.1	
7		548	53.48	147.9	
8		598	41.61	105.4	
9		713	222.25	472.5	
10		842	234.93	422.5	
11		1,019	192.69	286.6	
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	🟦

Assay Class: High Sensitivity DNA Assay   Created: 9/7/2023 4:27:42 PM
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad   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	🟦

| Assay Class: | High Sensitivity DNA Assay | | Created: | 9/7/2023 4:27:42 PM |
| Data Path: | C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad | | Modified: | 9/7/2023 5:18:56 PM |

Electropherogram Summary Continued ...

S5_NEB

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

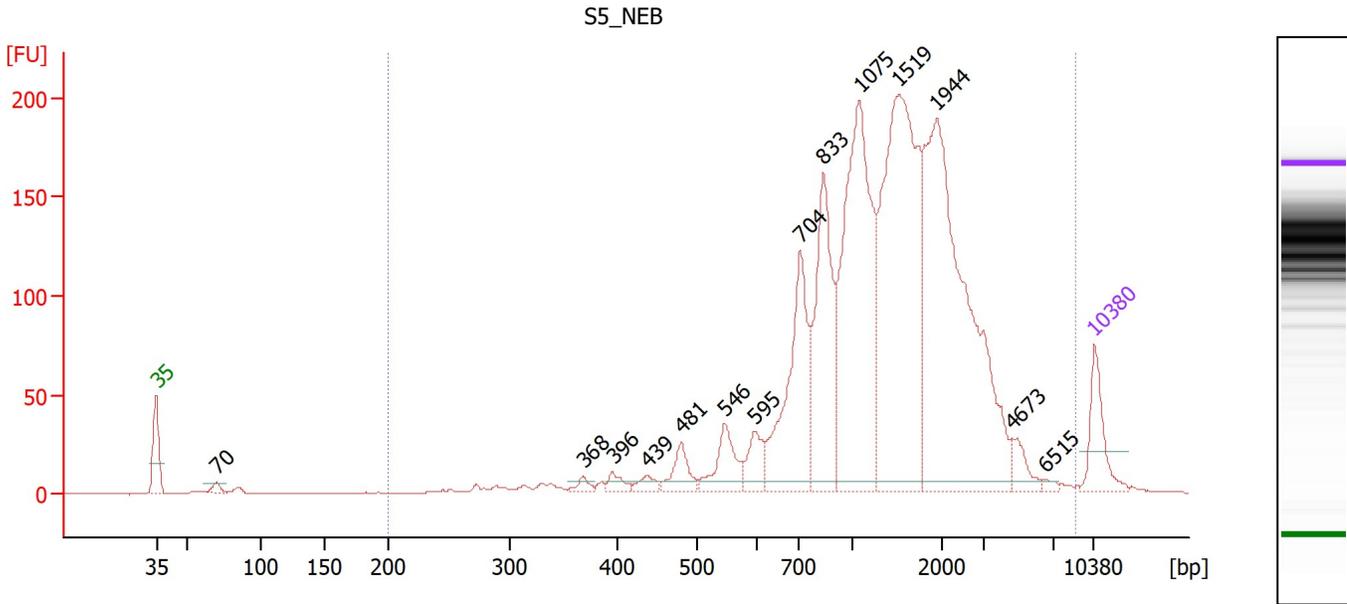| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	🔒	35	125.00	5,411.3	Lower Marker
2		70	15.11	327.6	
3		368	16.13	66.4	
4		396	22.10	84.5	
5		439	22.50	77.7	
6		481	56.34	177.4	
7		546	88.33	244.9	
8		595	55.30	140.8	
9		704	315.30	678.1	
10		833	315.67	574.3	
11		1,075	583.38	822.1	
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	🟦

| Assay Class: | High Sensitivity DNA Assay | | Created: | 9/7/2023 4:27:42 PM |
| Data Path: | C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad | | Modified: | 9/7/2023 5:18:56 PM |

Electropherogram Summary Continued ...
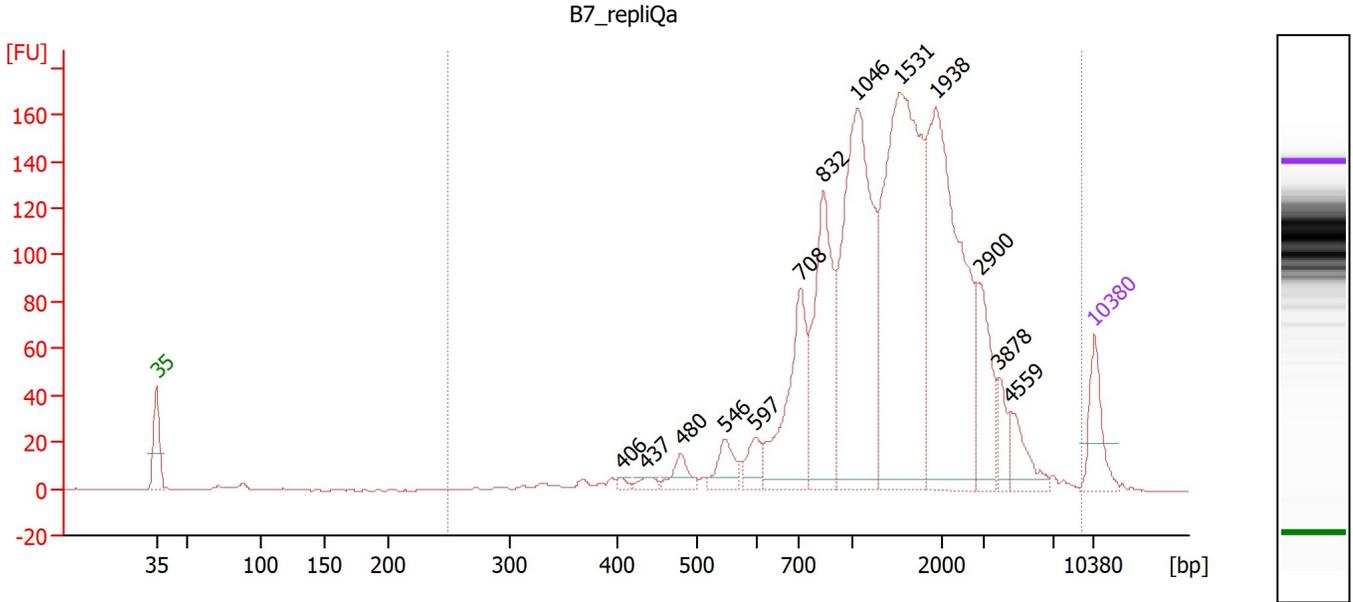
Overall Results for sample 10 :   B7_repliQa

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

Peak table for sample 10 :   B7_repliQa

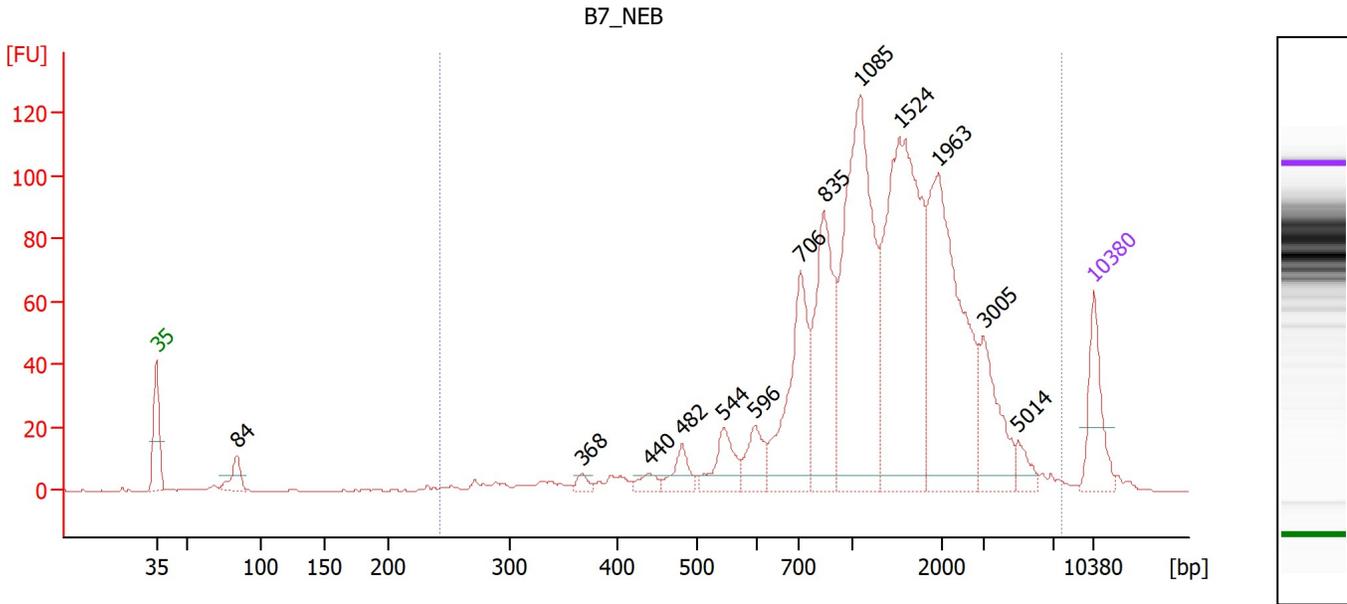| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	🔒	35	125.00	5,411.3	Lower Marker
2		406	10.18	38.0	
3		437	18.12	62.9	
4		480	45.42	143.3	
5		546	61.44	170.6	
6		597	49.02	124.3	
7		708	263.31	563.4	
8		832	325.08	592.0	
9		1,046	608.31	881.0	
10		1,531	727.70	720.3	
11		1,938	594.98	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	🟦

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 ...

B7_NEB

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	🟦

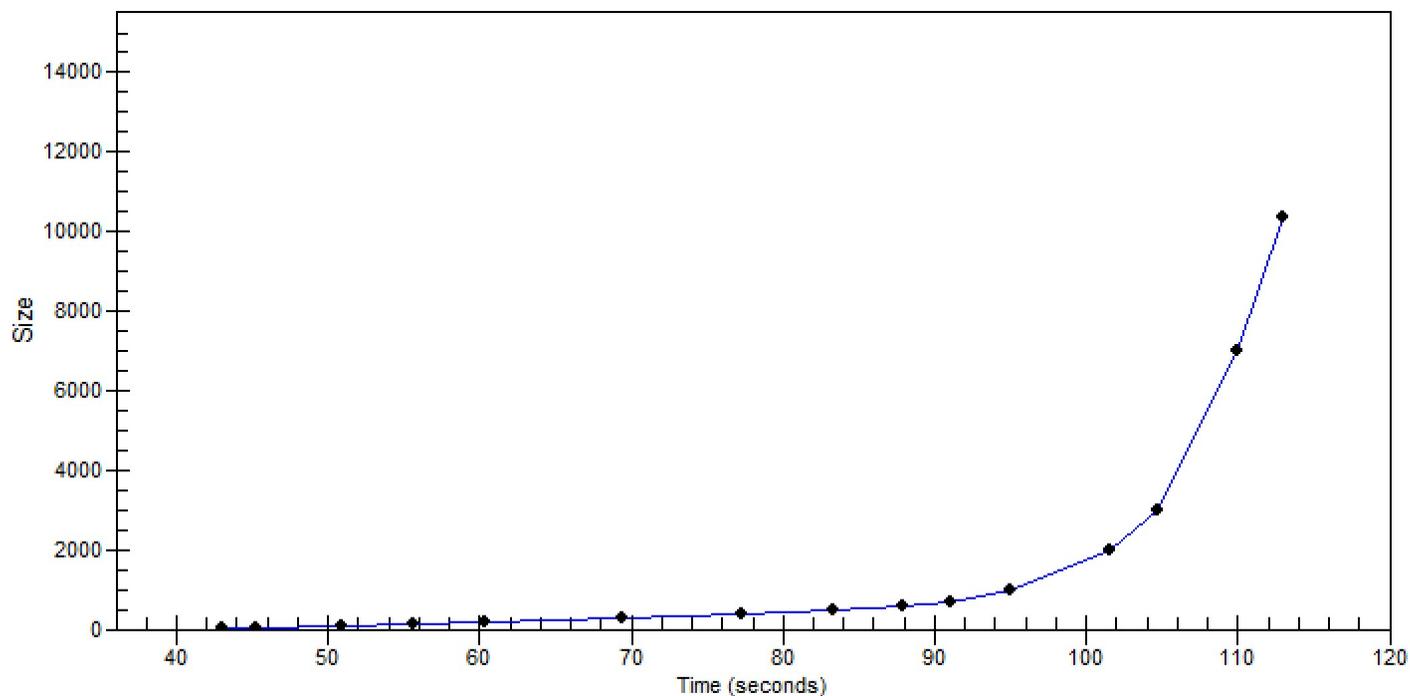Assay Class: High Sensitivity DNA Assay   Created: 9/7/2023 4:27:42 PM
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad   Modified: 9/7/2023 5:18:56 PM

Gel Image
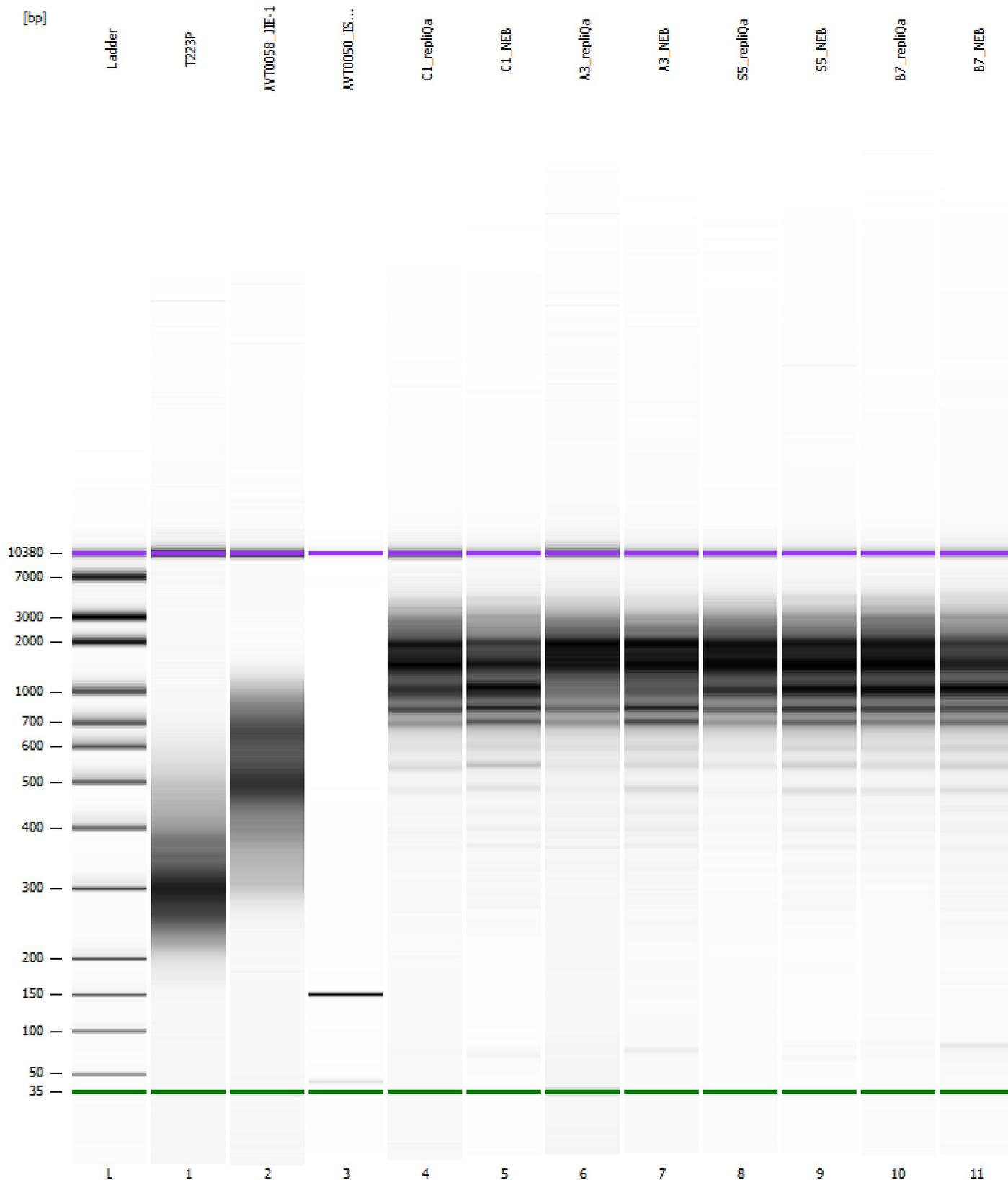
| Assay Class: | High Sensitivity DNA Assay | | Created: | 9/7/2023 4:27:42 PM |
| Data Path: | C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad | | Modified: | 9/7/2023 5:18:56 PM |

Curves

Standard Curve

| Assay Class: | High Sensitivity DNA Assay | | Created: | 9/7/2023 4:27:42 PM |
| Data Path: | C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-09-07_002.xad | | 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