

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Users\sbsuser\Desktop\QC1718\_1-6.xad

Created: 1/8/2024 12:15:27 PM  
 Modified: 1/18/2024 4:02:16 PM

**Electrophoresis File Run Summary**

Instrument Information:

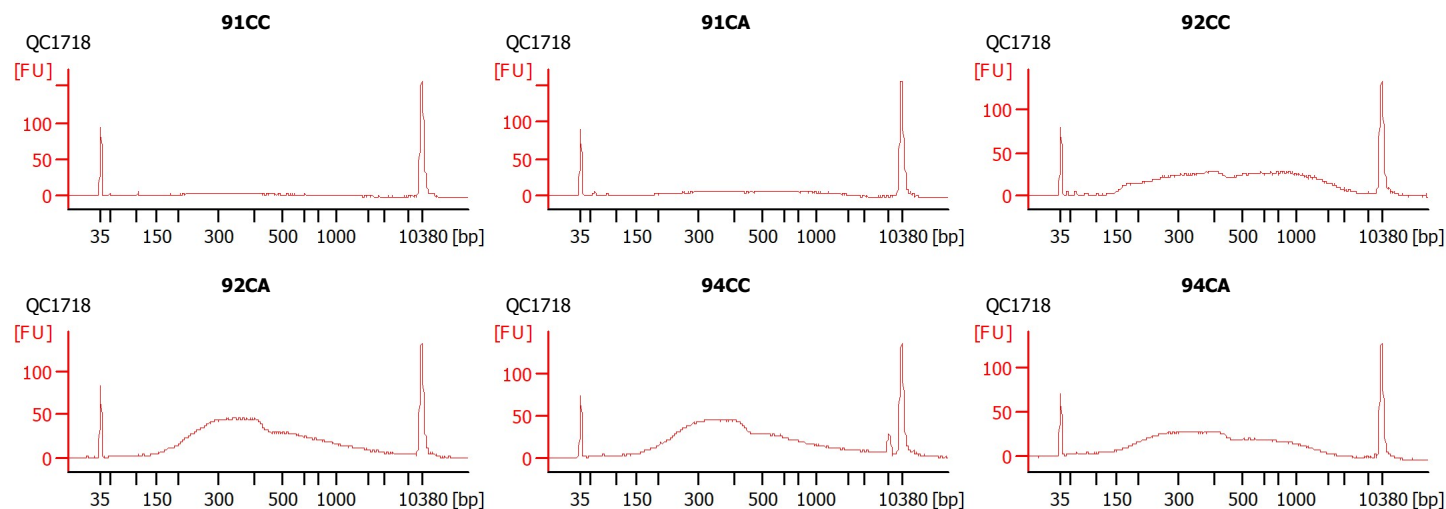
Instrument Name: DE13701287      Firmware: C.01.069  
 Serial#: DE13701287      Type: G2938B

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:



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
91CC	QC1718	<input type="checkbox"/>	✓			
91CA	QC1718	<input type="checkbox"/>	✓			
92CC	QC1718	<input type="checkbox"/>	✓			
92CA	QC1718	<input type="checkbox"/>	✓			
94CC	QC1718	<input type="checkbox"/>	✓			
94CA	QC1718	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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## 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

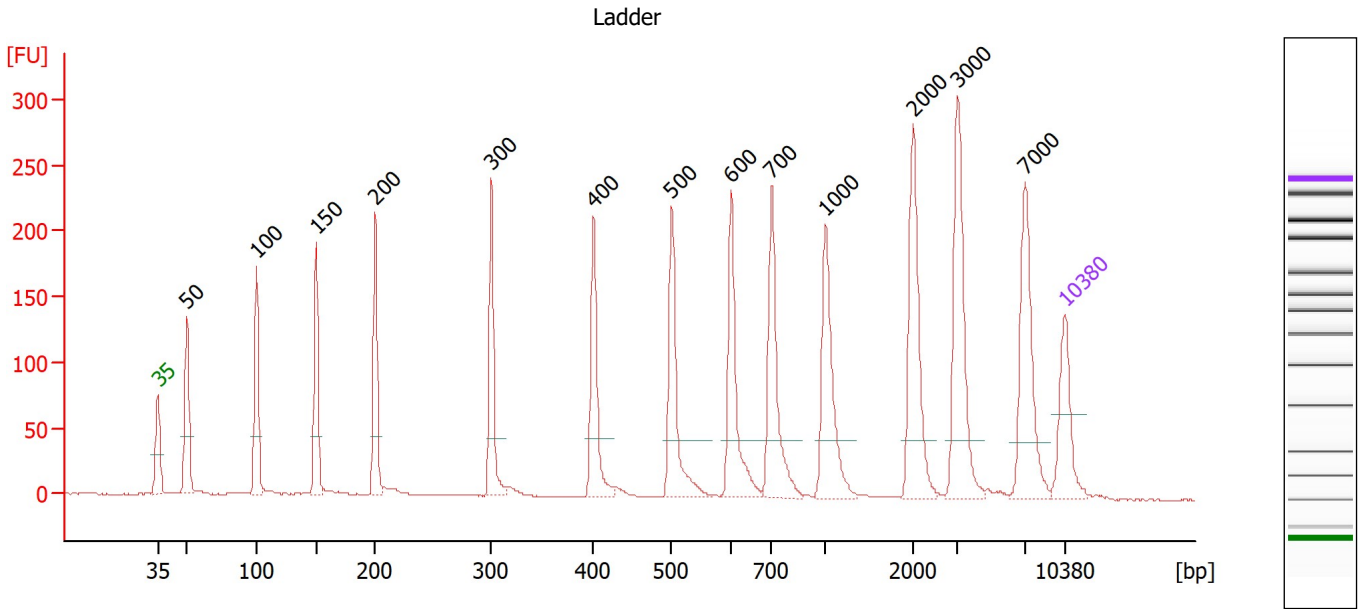
### Ladder

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

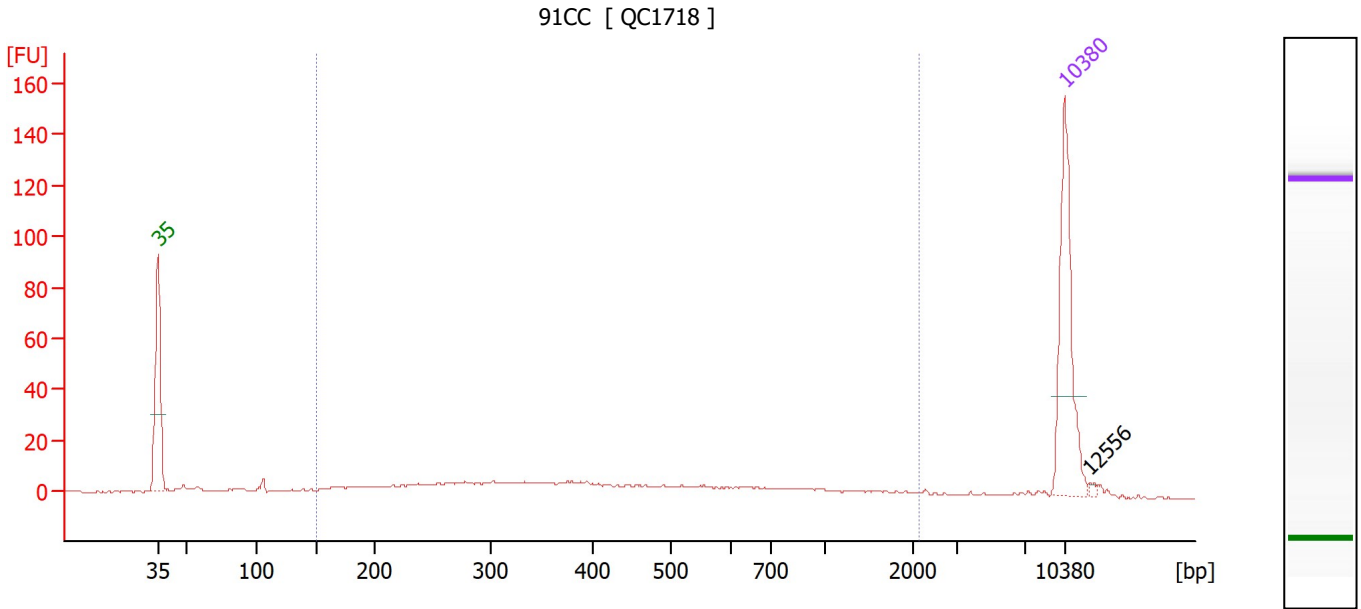
**Peak table for Ladder**

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

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 91CC**

Number of peaks found: 1                      Corr. Area 1: 198.8  
 Noise: 0.2

**Peak table for sample 3 : 91CC**

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	12,556	0.00	0.0	

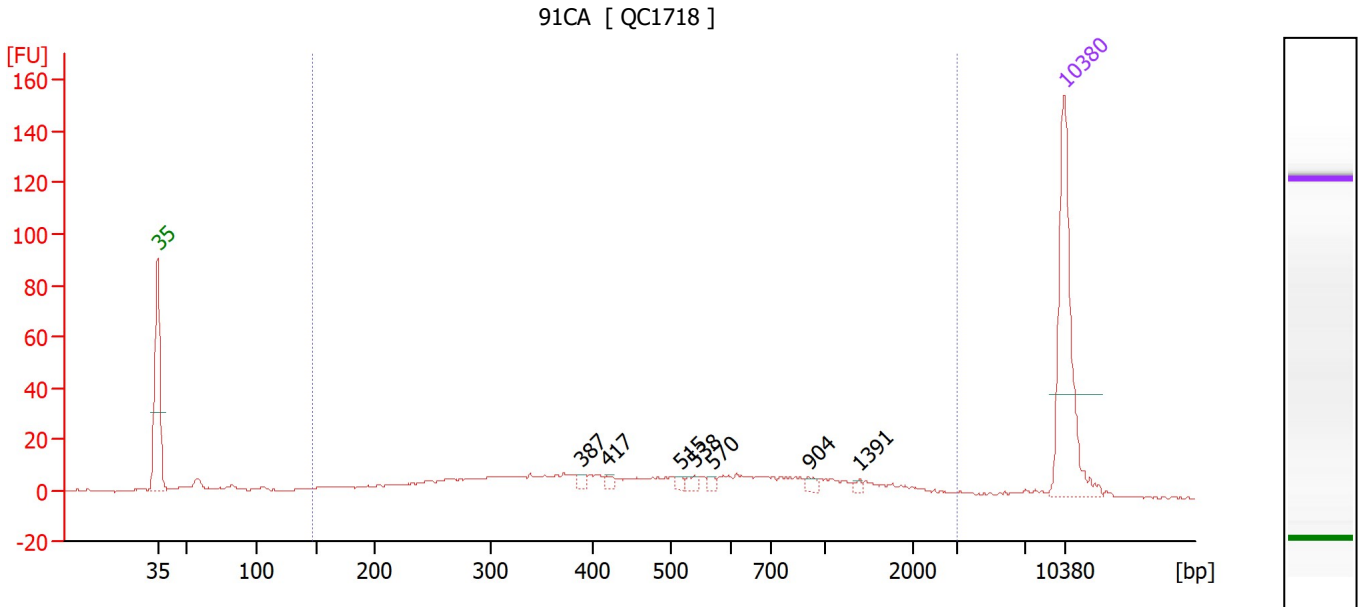
**Region table for sample 3 : 91CC**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
150	2,134	198.8	79	515	72.6	160.76	740.4	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 91CA**

Number of peaks found: 7                      Corr. Area 1: 327.4  
 Noise: 0.3

**Peak table for sample 4 : 91CA**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	387	3.76	14.7	
3	417	3.40	12.4	
4	515	2.93	8.6	
5	538	4.14	11.7	
6	570	3.16	8.4	
7	904	3.58	6.0	
8	1,391	1.79	1.9	
9	10,380	75.00	10.9	Upper Marker

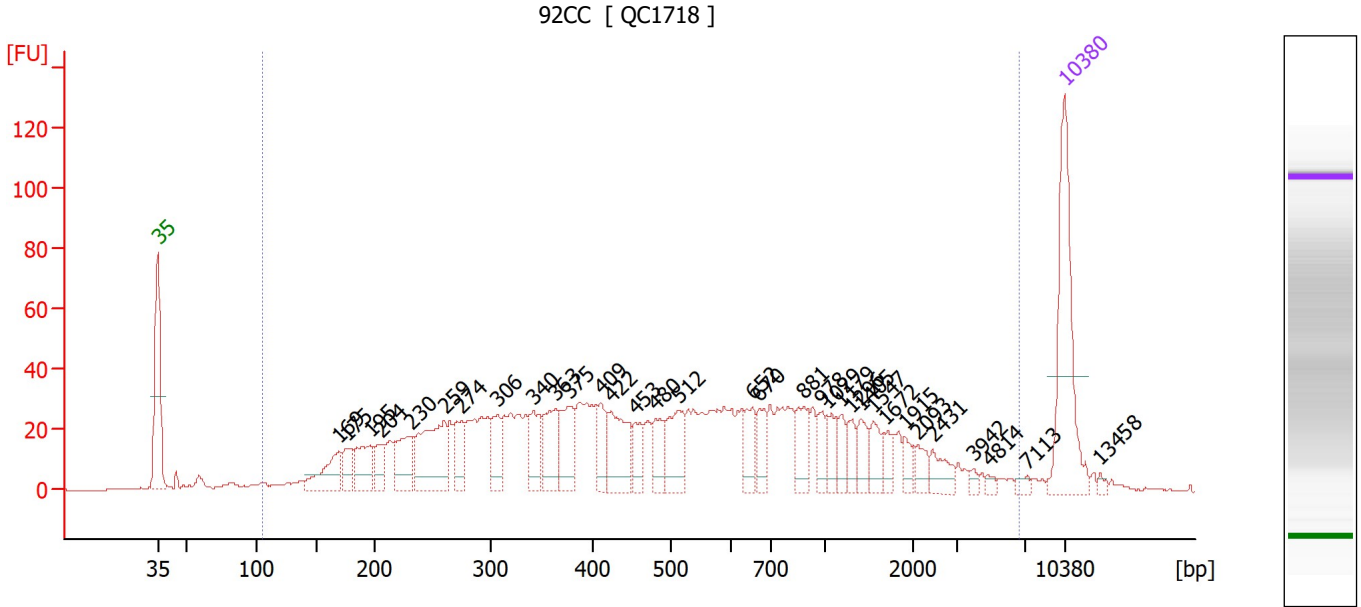
**Region table for sample 4 : 91CA**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
146	2,998	327.4	86	643	77.0	238.83	951.1	Blue

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 92CC**

Number of peaks found: 33                      Corr. Area 1: 1,396.6  
 Noise: 0.2

**Peak table for sample 5 : 92CC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	169	37.58	336.5	
3	175	18.50	159.8	
4	195	34.22	265.5	
5	204	17.56	130.4	
6	230	37.49	247.1	
7	259	72.49	423.3	
8	274	24.06	133.1	
9	306	24.21	119.8	
10	340	23.22	103.3	
11	363	35.77	149.5	
12	375	32.93	132.9	
13	409	22.13	82.0	
14	422	44.65	160.3	
15	453	18.46	61.8	
16	480	21.60	68.3	
17	512	34.34	101.6	
18	652	21.31	49.5	
19	670	16.34	36.9	
20	881	23.06	39.7	
21	978	13.33	20.7	
22	1,029	12.73	18.7	
23	1,179	12.92	16.6	
24	1,296	11.13	13.0	
25	1,405	14.02	15.1	
26	1,547	13.70	13.4	

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**Electropherogram Summary Continued ...**

**... Peak table for sample 5 : 92CC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,672	9.47	8.6	
28	1,915	8.94	7.1	
29	2,093	9.06	6.6	
30	2,431	13.01	8.1	
31	3,942	3.02	1.2	
32	4,814	3.02	0.9	
33	7,113	3.73	0.8	
34	10,380	75.00	10.9	Upper Marker
35	13,458	0.00	0.0	

**Region table for sample 5 : 92CC**

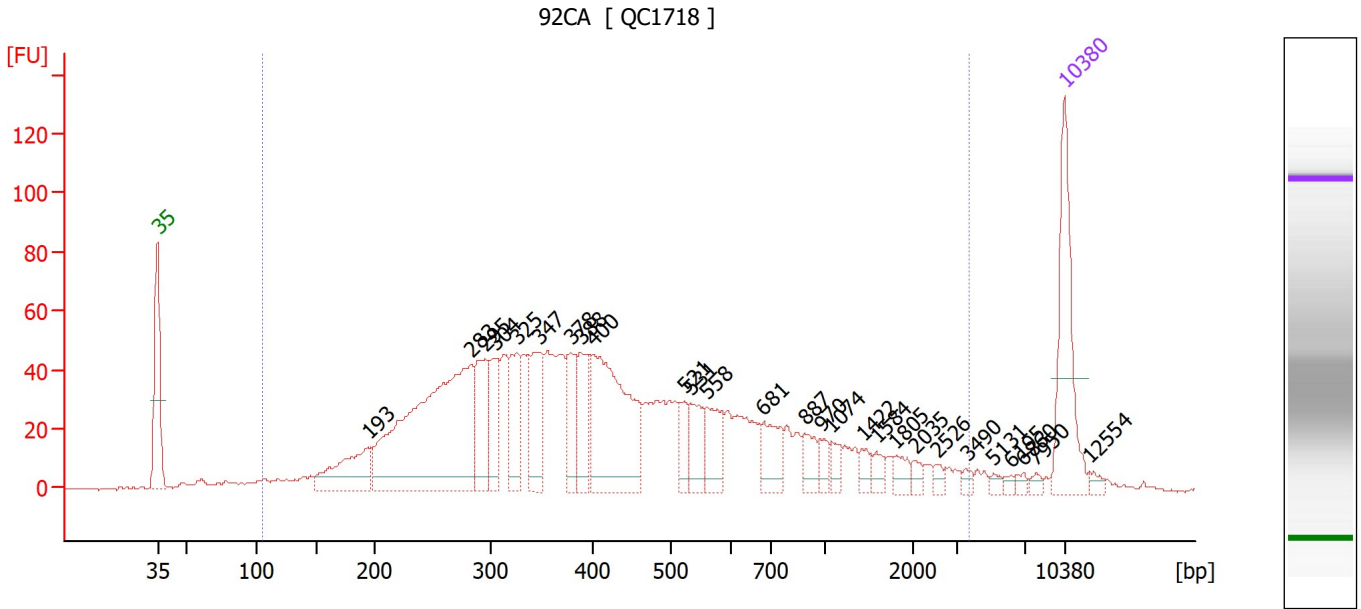
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
105	6,611	1,396.6	95	767	100.0	1,148.26	4,812.4	



Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 92CA**

Number of peaks found: 27                      Corr. Area 1: 1,693.6  
 Noise: 0.3

**Peak table for sample 6 : 92CA**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	193	73.05	572.2	
3	283	318.70	1,709.1	
4	295	60.23	309.6	
5	304	46.49	231.6	
6	325	55.49	258.5	
7	347	59.82	261.1	
8	378	40.93	164.2	
9	388	48.75	190.5	
10	400	158.27	599.2	
11	521	21.22	61.8	
12	531	31.30	89.4	
13	558	37.26	101.2	
14	681	33.07	73.6	
15	887	18.35	31.3	
16	970	10.41	16.3	
17	1,074	9.43	13.3	
18	1,422	9.22	9.8	
19	1,584	8.18	7.8	
20	1,805	10.53	8.8	
21	2,035	6.13	4.6	
22	2,526	4.71	2.8	
23	3,490	4.13	1.8	
24	5,131	3.53	1.0	
25	6,195	2.97	0.7	
26	6,860	3.51	0.8	

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**Electropherogram Summary Continued ...**

**... Peak table for sample 6 : 92CA**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	7,950	3.90	0.7	
28	10,380	75.00	10.9	Upper Marker
29	12,554	0.00	0.0	

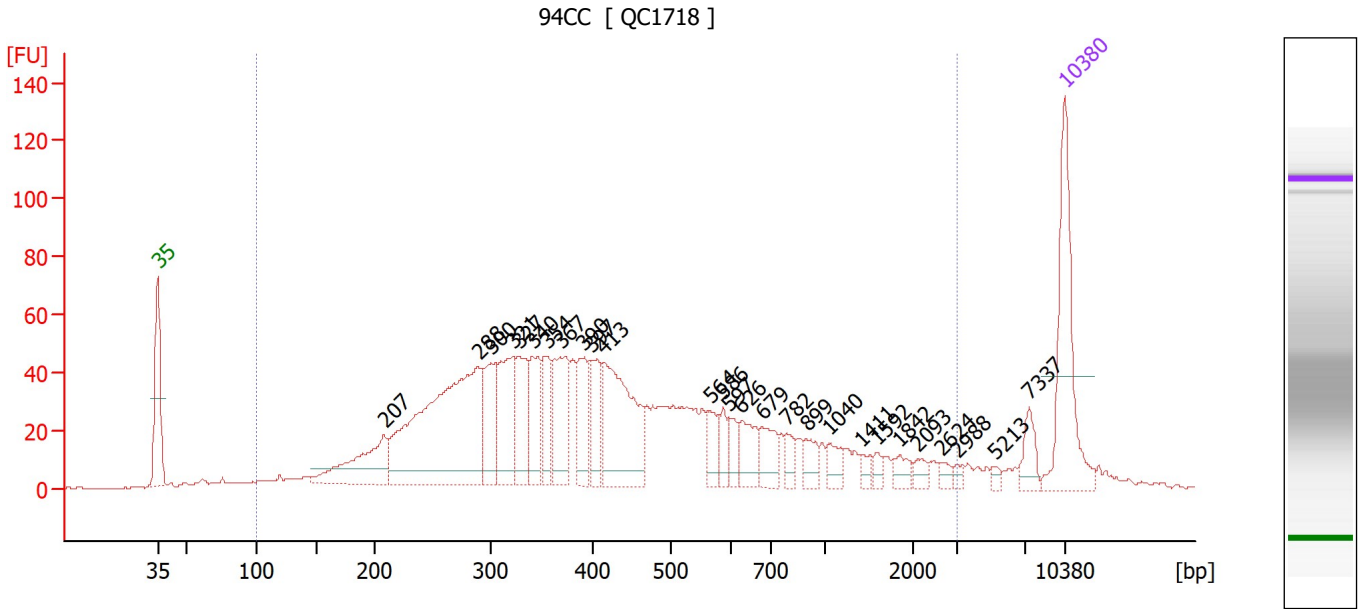
**Region table for sample 6 : 92CA**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
105	3,606	1,693.6	94	549	88.8	1,495.63	6,702.6	■

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 94CC**

Number of peaks found: 27                      Corr. Area 1: 1,652.5  
 Noise: 0.4

**Peak table for sample 7 : 94CC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	207	74.73	546.3	
3	288	259.81	1,364.5	
4	300	52.36	264.3	
5	321	66.30	313.1	
6	327	52.29	242.5	
7	340	47.91	213.6	
8	354	35.54	152.1	
9	367	60.81	250.9	
10	390	40.13	155.9	
11	397	36.74	140.1	
12	413	109.47	401.8	
13	564	18.20	48.9	
14	586	15.09	39.0	
15	597	13.76	34.9	
16	626	26.35	63.8	
17	679	24.50	54.7	
18	782	10.19	19.7	
19	899	14.51	24.5	
20	1,040	11.59	16.9	
21	1,411	5.75	6.2	
22	1,592	5.26	5.0	
23	1,842	8.26	6.8	
24	2,093	6.58	4.8	
25	2,624	4.98	2.9	
26	2,988	3.31	1.7	

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**

**... Peak table for sample 7 : 94CC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	5,213	3.47	1.0	
28	7,337	14.91	3.1	
29	10,380	75.00	10.9	Upper Marker

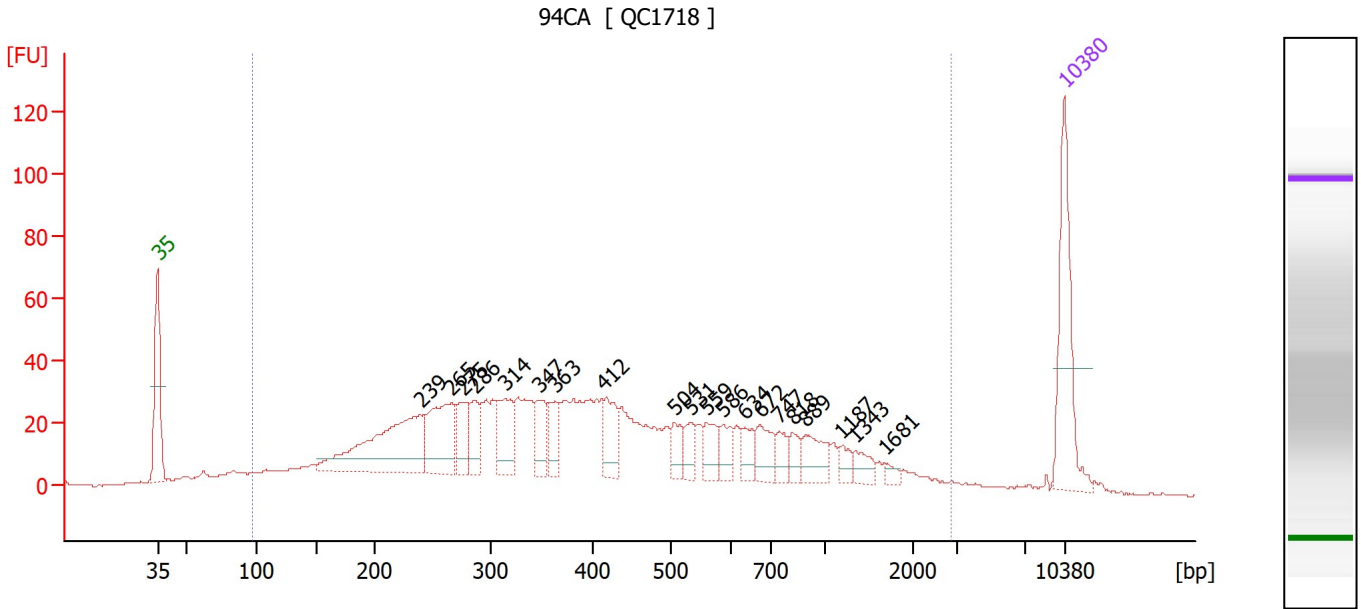
**Region table for sample 7 : 94CC**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
100	2,961	1,652.5	91	543	85.4	1,365.35	6,149.9	

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 94CA**

Number of peaks found: 20                      Corr. Area 1: 1,259.5  
 Noise: 0.2

**Peak table for sample 8 : 94CA**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	239	153.77	976.2	
3	265	83.00	473.7	
4	275	32.13	177.2	
5	286	29.71	157.5	
6	314	45.49	219.8	
7	347	28.57	124.8	
8	363	27.29	113.9	
9	412	39.04	143.6	
10	504	19.07	57.3	
11	531	16.63	47.4	
12	559	22.39	60.7	
13	586	17.97	46.5	
14	634	15.20	36.3	
15	672	24.70	55.7	
16	747	14.63	29.7	
17	818	13.59	25.2	
18	889	26.17	44.6	
19	1,187	9.30	11.9	
20	1,343	12.35	13.9	
21	1,681	5.09	4.6	
22	10,380	75.00	10.9	Upper Marker

**Region table for sample 8 : 94CA**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
97	2,844	1,259.5	94	514	78.4	1,318.43	6,483.3	Blue

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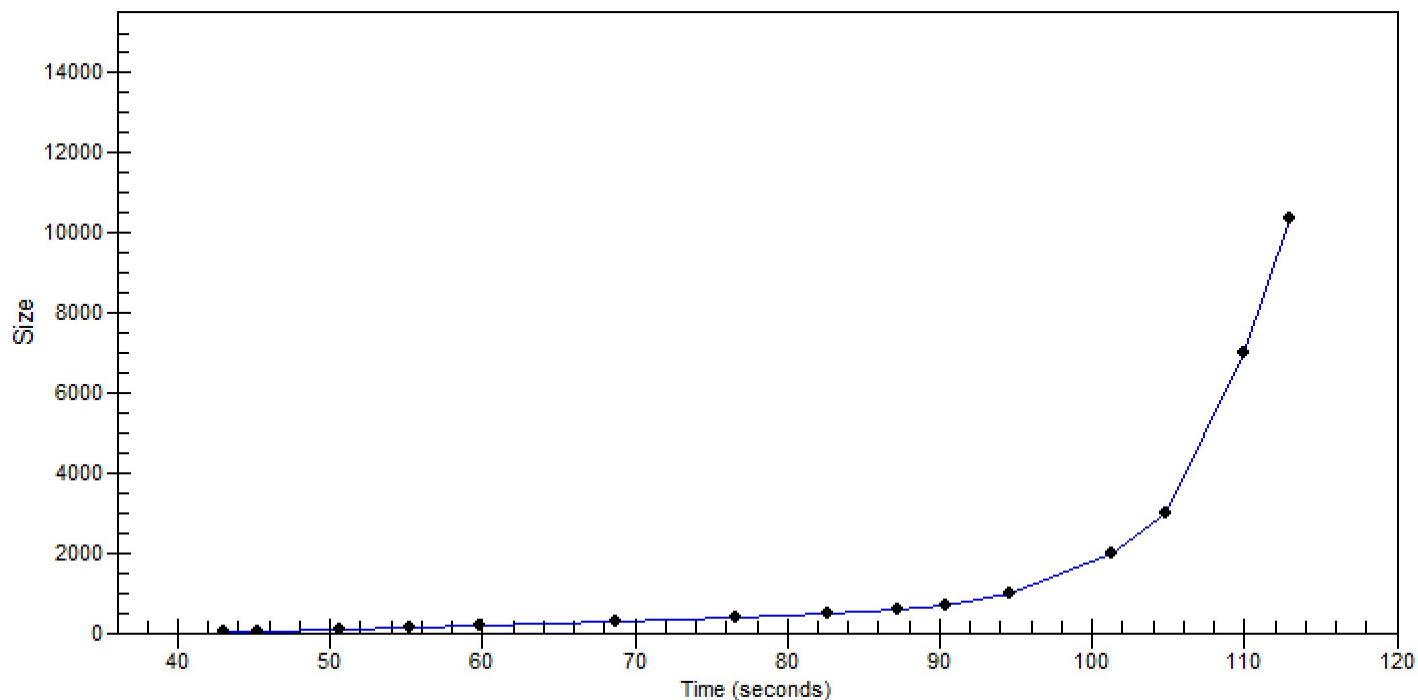
**Gel Image**

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**Curves**

**Standard Curve**



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**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 3 (Number of wells acquired: 12)		Instrument	Run		1/8/2024 12:56:45 PM	(GMT --08:00) Pacific Standard Time	microscope	LAPTOP-FFG6I7 AC
Run started on port 3 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\Data\2024-01-08\2100 expert_High Sensitivity DNA Assay_2024-01-08_001.xad)		Instrument	Run		1/8/2024 12:15:33 PM	(GMT --08:00) Pacific Standard Time	microscope	LAPTOP-FFG6I7 AC
Product Number : G2938B		Instrument	Run		1/8/2024 12:15:33 PM	(GMT --08:00) Pacific Standard Time	microscope	LAPTOP-FFG6I7 AC
Name :		Instrument	Run		1/8/2024 12:15:33 PM	(GMT --08:00) Pacific Standard Time	microscope	LAPTOP-FFG6I7 AC
Vendor : Agilent Technologies		Instrument	Run		1/8/2024 12:15:33 PM	(GMT --08:00) Pacific Standard Time	microscope	LAPTOP-FFG6I7 AC
Serial# : DE13701287		Instrument	Run		1/8/2024 12:15:33 PM	(GMT --08:00) Pacific Standard Time	microscope	LAPTOP-FFG6I7 AC
Firmware : C.01.069		Instrument	Run		1/8/2024 12:15:33 PM	(GMT --08:00) Pacific Standard Time	microscope	LAPTOP-FFG6I7 AC
Cartridge : Electrode		Instrument	Run		1/8/2024 12:15:33 PM	(GMT --08:00) Pacific Standard Time	microscope	LAPTOP-FFG6I7 AC