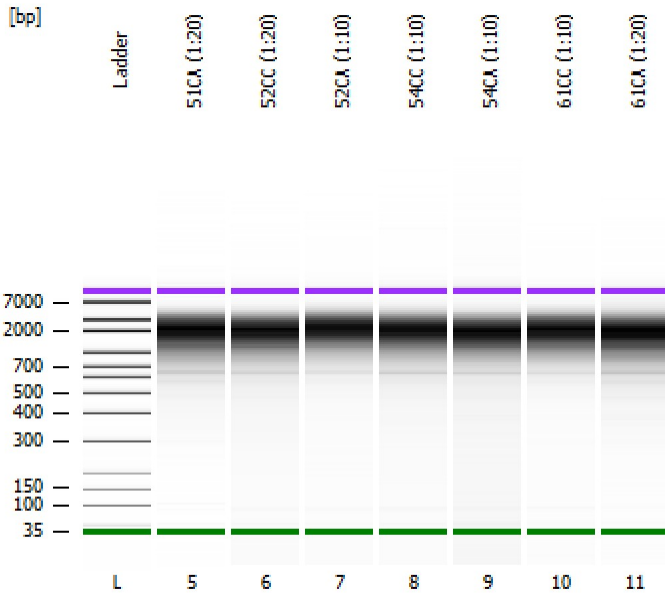


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
Modified: 11/20/2023 9:44:43 AM

Electrophoresis File Run Summary



Instrument Information:

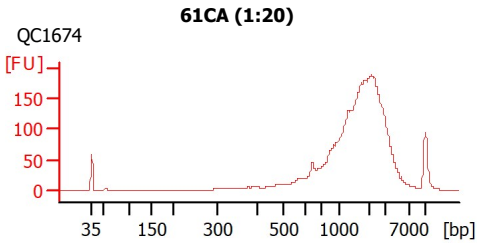
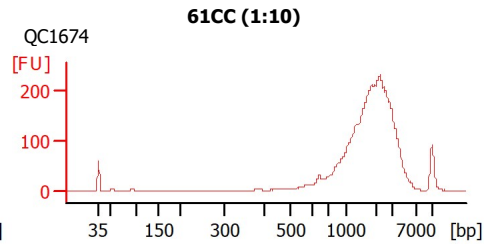
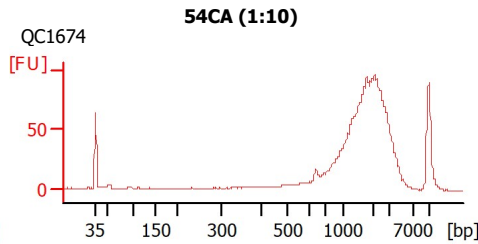
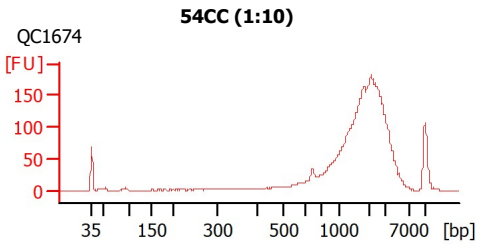
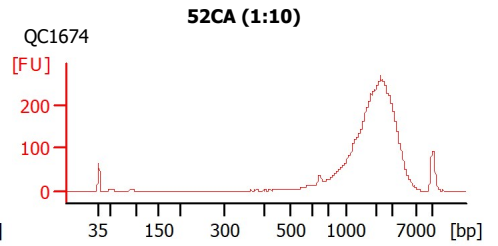
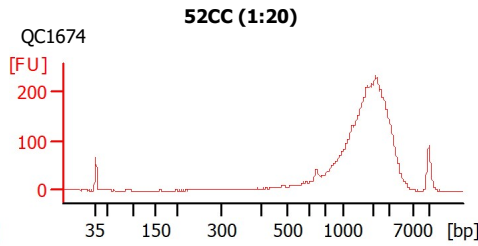
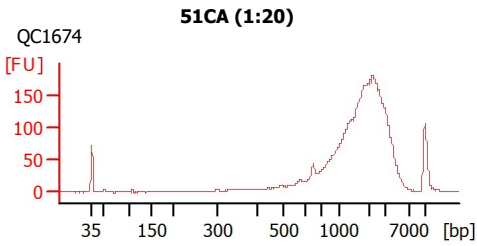
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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: C:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
 Modified: 11/20/2023 9:44:43 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
51CA (1:20)	QC1674	<input type="checkbox"/>		✓		
52CC (1:20)	QC1674	<input type="checkbox"/>		✓		
52CA (1:10)	QC1674	<input type="checkbox"/>		✓		
54CC (1:10)	QC1674	<input type="checkbox"/>		✓		
54CA (1:10)	QC1674	<input type="checkbox"/>		✓		
61CC (1:10)	QC1674	<input type="checkbox"/>		✓		
61CA (1:20)	QC1674	<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
Modified: 11/20/2023 9:44:43 AM

## 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

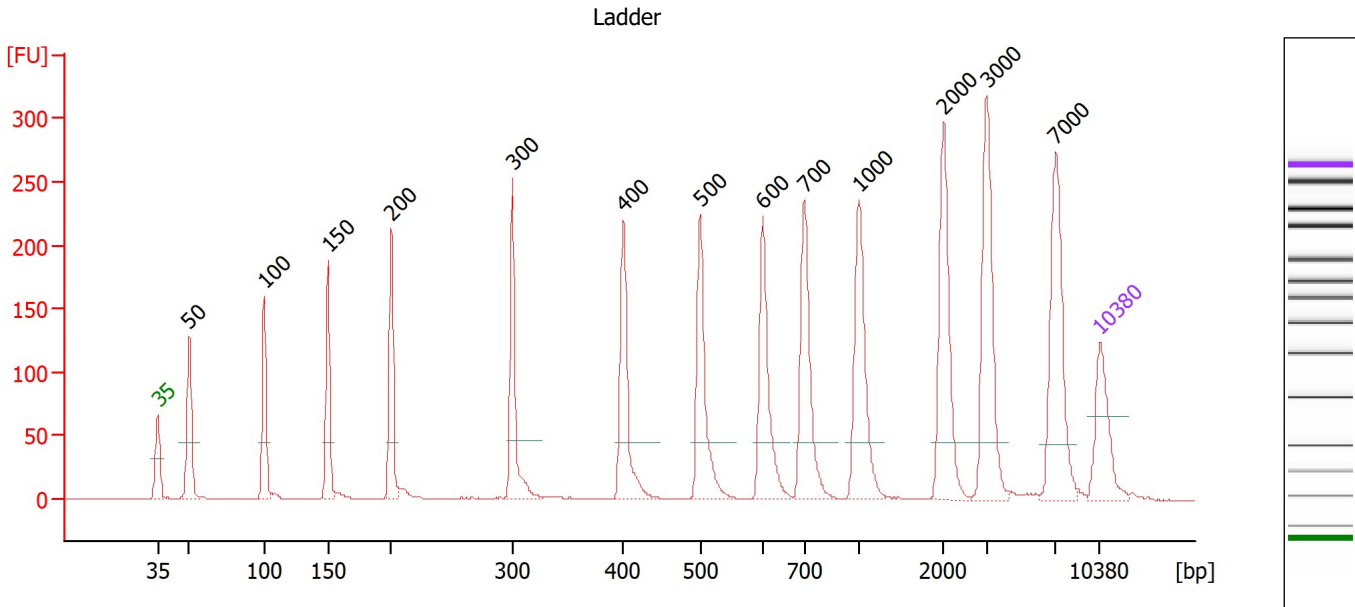
### Ladder

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
 Modified: 11/20/2023 9:44:43 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

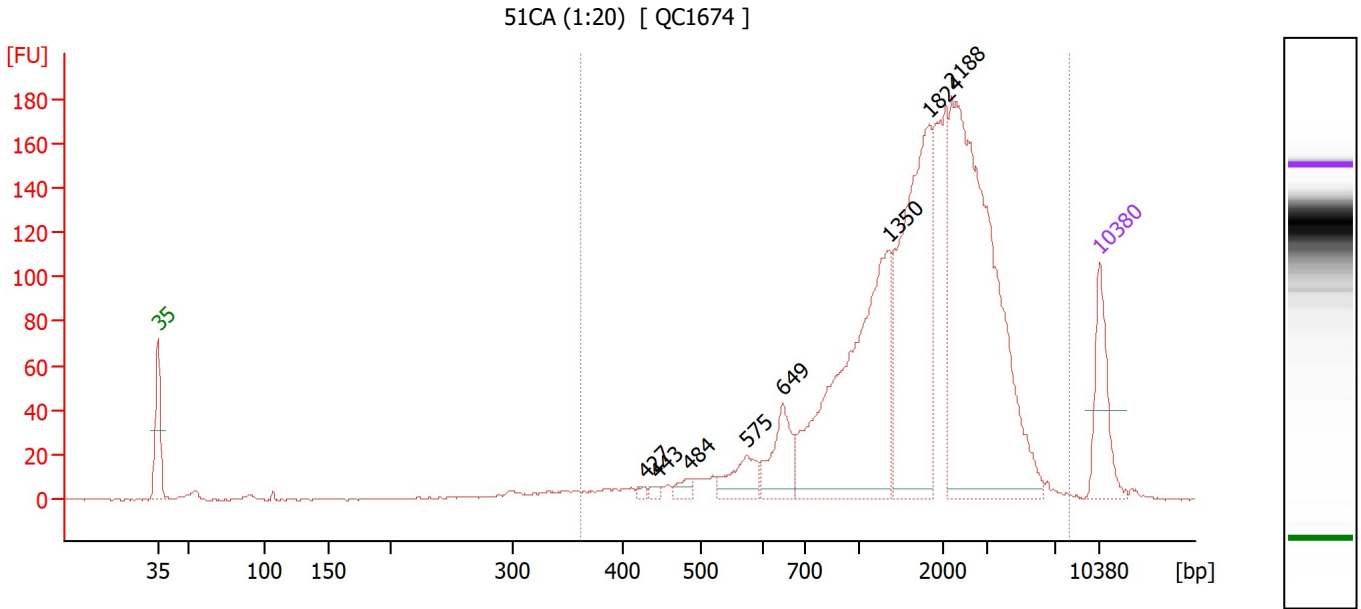
**Peak table for Ladder**

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:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
 Modified: 11/20/2023 9:44:43 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 51CA (1:20)**

Number of peaks found: 8                      Corr. Area 1: 1,980.4  
 Noise: 0.3

**Peak table for sample 5 : 51CA (1:20)**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	427	5.51	19.6	
3	443	6.02	20.6	
4	484	15.64	48.9	
5	575	49.97	131.6	
6	649	75.10	175.3	
7	1,350	392.74	440.8	
8	1,824	338.34	281.0	
9	2,188	537.51	372.2	
10	10,380	75.00	10.9	Upper Marker

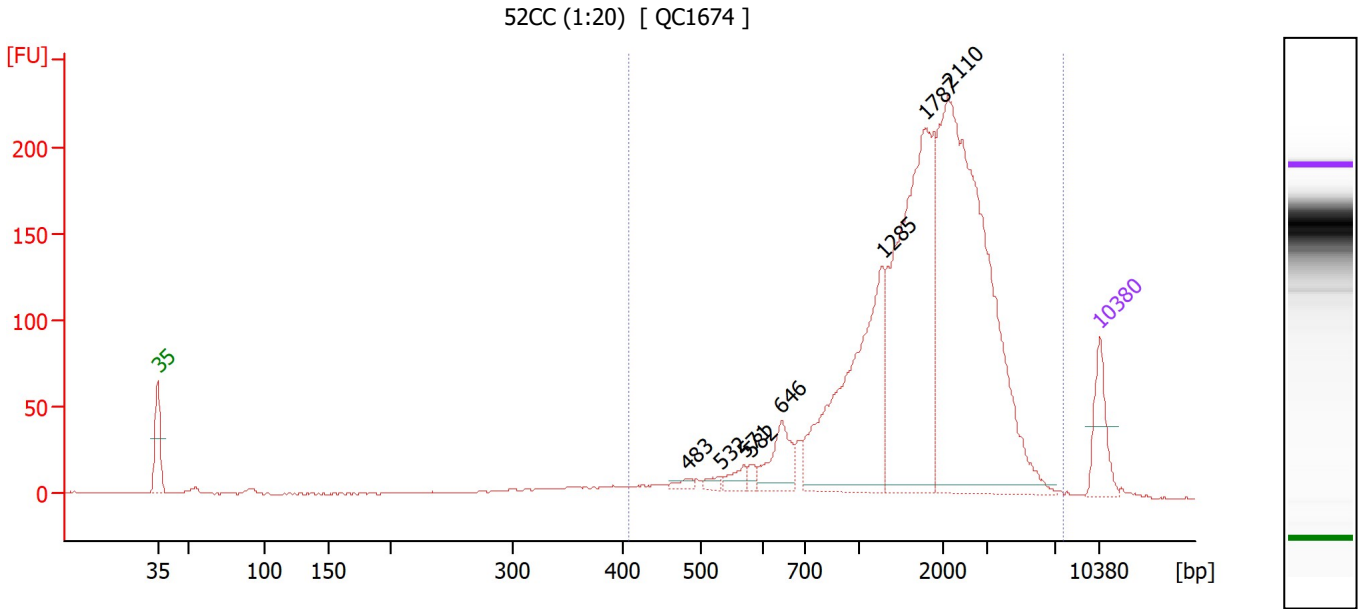
**Region table for sample 5 : 51CA (1:20)**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
362	8,053	1,980.4	98	1,962	56.2	1,676.34	1,941.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
 Modified: 11/20/2023 9:44:43 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 52CC (1:20)**

Number of peaks found: 8                      Corr. Area 1: 2,318.4  
 Noise: 0.3

**Peak table for sample 6 : 52CC (1:20)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	483	13.85	43.5	
3	532	13.30	37.9	
4	571	24.71	65.6	
5	582	15.14	39.4	
6	646	92.16	216.2	
7	1,285	463.94	547.1	
8	1,787	630.46	534.5	
9	2,110	950.94	682.9	
10	10,380	75.00	10.9	Upper Marker

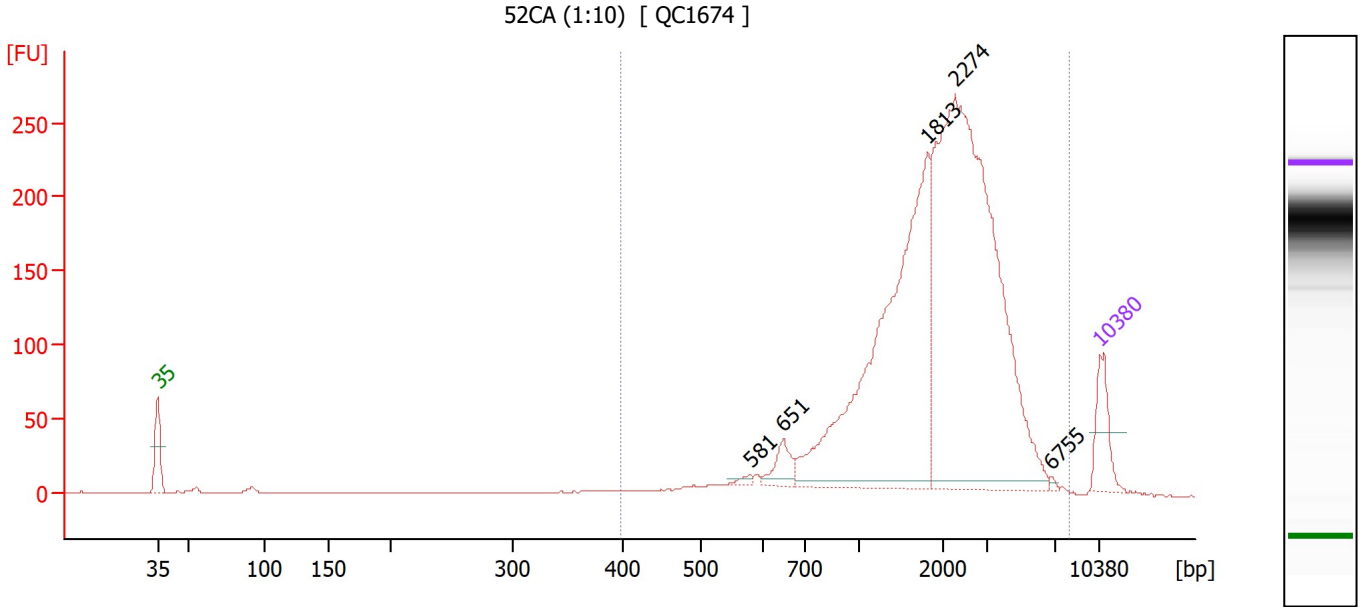
**Region table for sample 6 : 52CC (1:20)**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
406	7,560	2,318.4	96	1,946	53.1	2,410.02	2,666.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
 Modified: 11/20/2023 9:44:43 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 52CA (1:10)**

Number of peaks found: 5                      Corr. Area 1: 2,514.0  
 Noise: 0.3

**Peak table for sample 7 : 52CA (1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	581	9.44	24.6	
3	651	54.19	126.2	
4	1,813	850.09	710.4	
5	2,274	1,192.83	794.8	
6	6,755	3.56	0.8	
7	10,380	75.00	10.9	Upper Marker

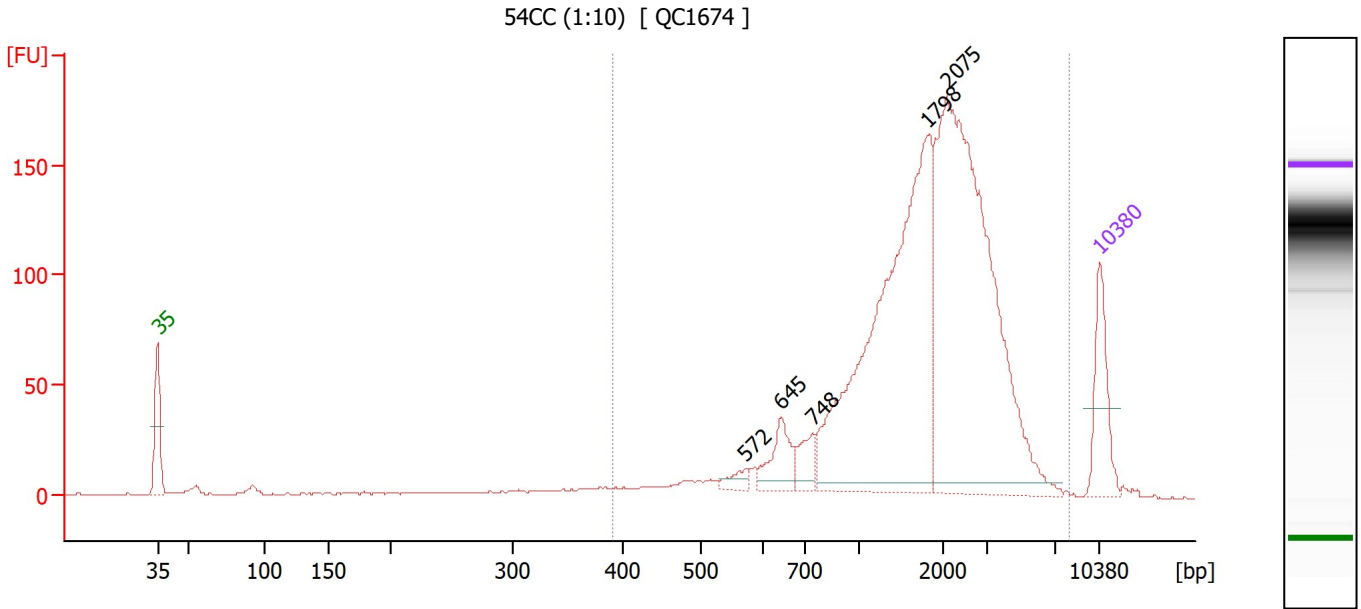
**Region table for sample 7 : 52CA (1:10)**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
398	8,000	2,514.0	98	2,198	52.4	2,377.60	2,283.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
 Modified: 11/20/2023 9:44:43 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 54CC (1:10)**

Number of peaks found: 5                      Corr. Area 1: 1,786.5  
 Noise: 0.3

**Peak table for sample 8 : 54CC (1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	572	17.76	47.1	
3	645	61.26	143.9	
4	748	37.31	75.5	
5	1,798	592.39	499.3	
6	2,075	654.50	477.8	
7	10,380	75.00	10.9	Upper Marker

**Region table for sample 8 : 54CC (1:10)**

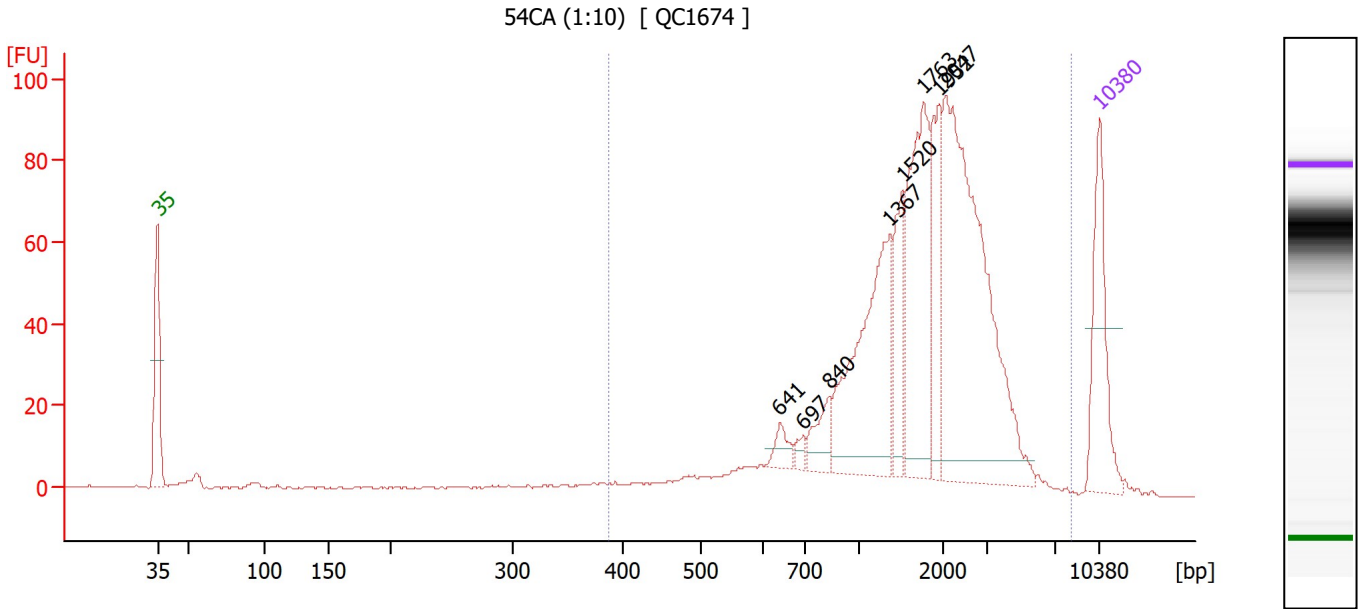
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
390	7,947	1,786.5	95	2,015	54.5	1,519.98	1,654.2	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
 Modified: 11/20/2023 9:44:43 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 54CA (1:10)**

Number of peaks found: 8                      Corr. Area 1: 970.4  
 Noise: 0.2

**Peak table for sample 9 : 54CA (1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	641	16.36	38.7	
3	697	7.50	16.3	
4	840	29.02	52.3	
5	1,367	163.00	180.6	
6	1,520	53.84	53.7	
7	1,763	148.32	127.5	
8	1,952	68.60	53.3	
9	2,047	303.65	224.8	
10	10,380	75.00	10.9	Upper Marker

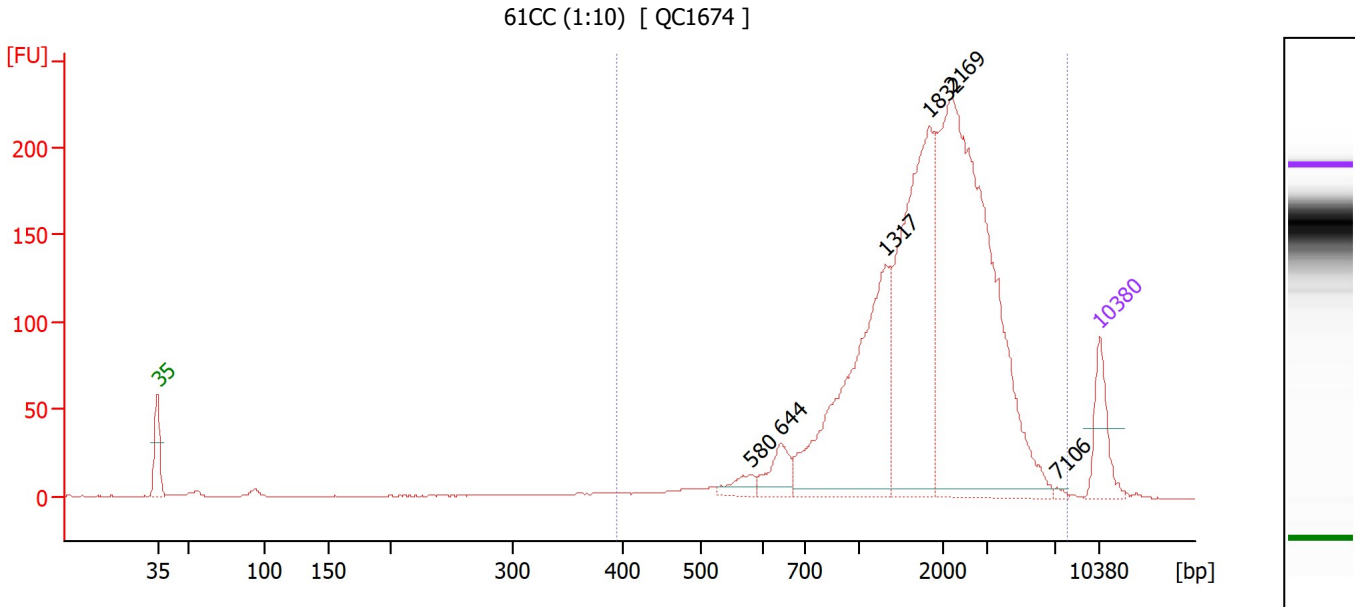
**Region table for sample 9 : 54CA (1:10)**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
386	8,139	970.4	94	1,902	52.8	967.57	1,079.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
 Modified: 11/20/2023 9:44:43 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 61CC (1:10)**

Number of peaks found: 6                      Corr. Area 1: 2,249.8  
 Noise: 0.2

**Peak table for sample 10 : 61CC (1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	580	31.90	83.3	
3	644	64.77	152.5	
4	1,317	491.32	565.2	
5	1,832	512.82	424.0	
6	2,169	917.54	641.1	
7	7,106	4.22	0.9	
8	10,380	75.00	10.9	Upper Marker

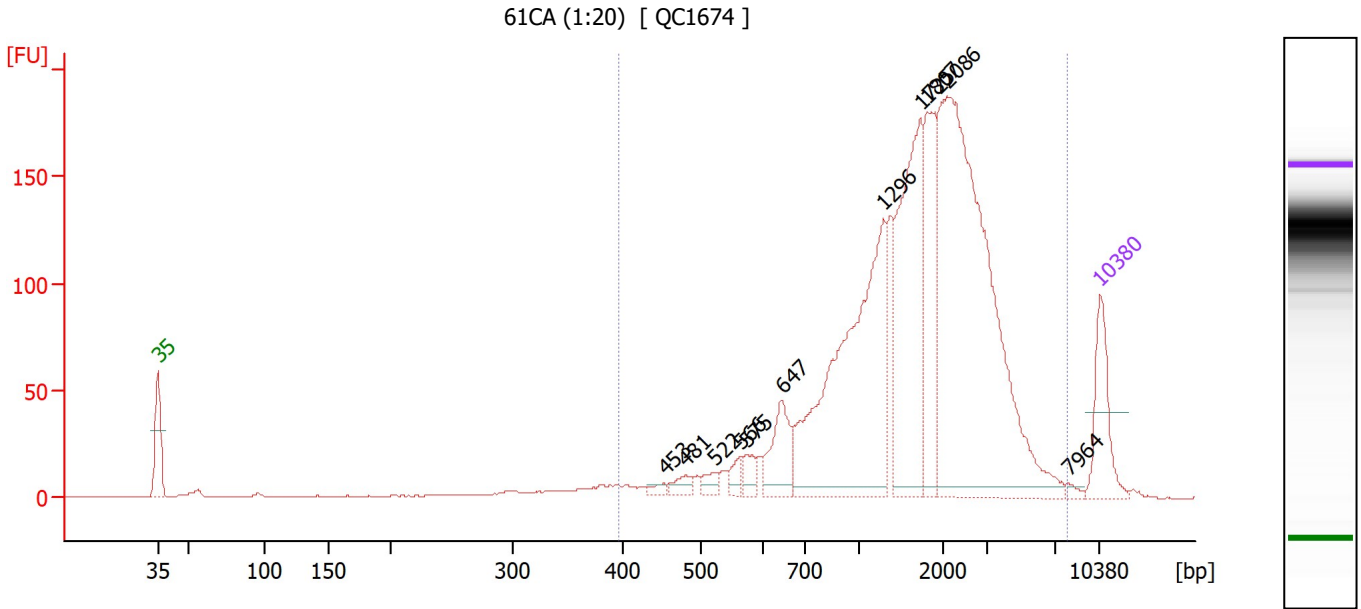
**Region table for sample 10 : 61CC (1:10)**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
394	7,890	2,249.8	97	2,054	53.2	2,138.56	2,189.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
 Modified: 11/20/2023 9:44:43 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 61CA (1:20)**

Number of peaks found: 11      Corr. Area 1: 2,106.7  
 Noise: 0.3

**Peak table for sample 11 : 61CA (1:20)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	453	9.42	31.5	
3	481	18.46	58.2	
4	522	16.12	46.8	
5	566	18.87	50.5	
6	575	22.65	59.6	
7	647	79.57	186.4	
8	1,296	452.80	529.2	
9	1,725	283.47	249.0	
10	1,807	145.36	121.9	
11	2,086	677.55	492.1	
12	7,964	4.88	0.9	
13	10,380	75.00	10.9	Upper Marker

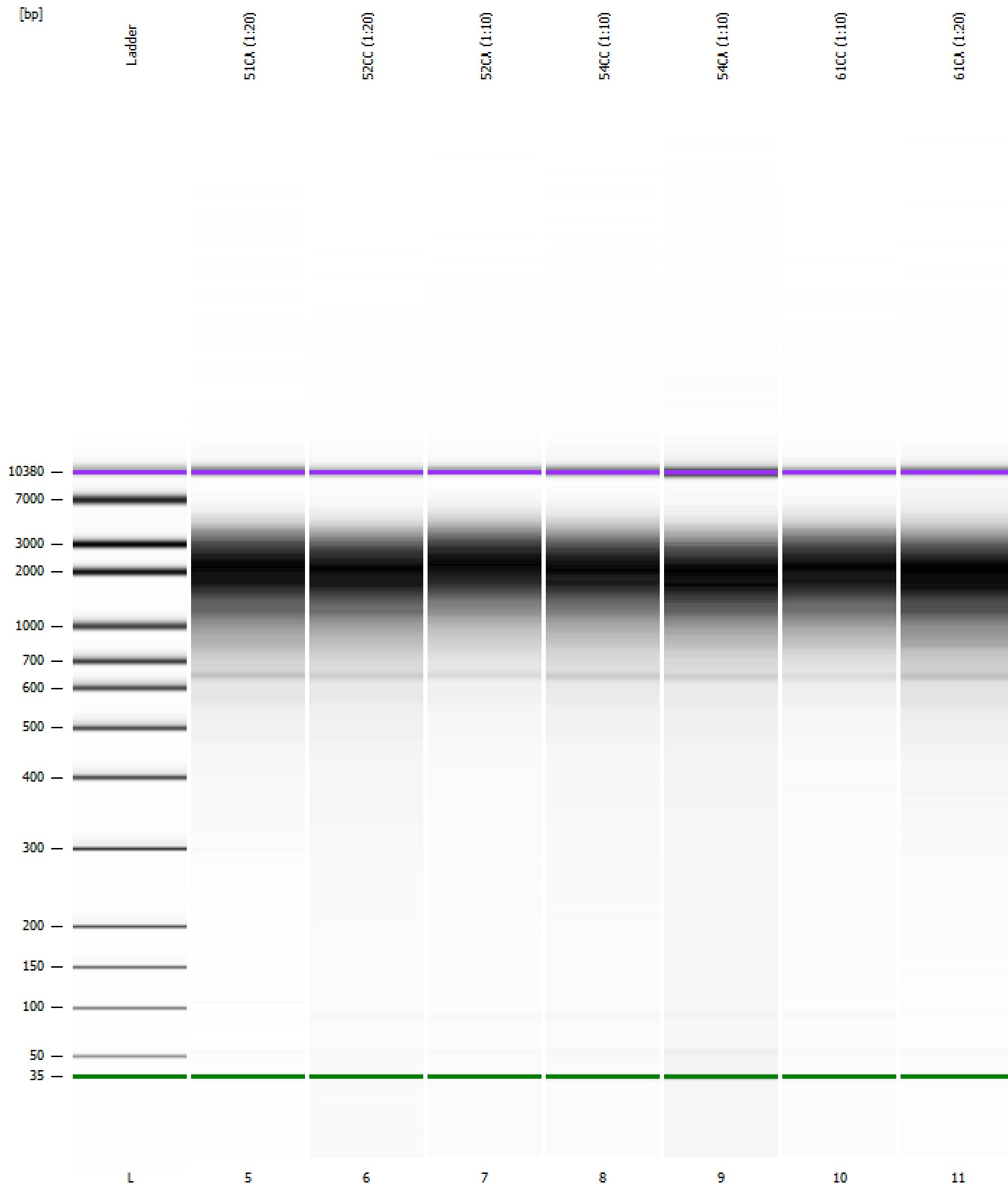
**Region table for sample 11 : 61CA (1:20)**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
395	7,867	2,106.7	95	1,904	58.9	1,908.85	2,245.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
Modified: 11/20/2023 9:44:43 AM

**Gel Image**

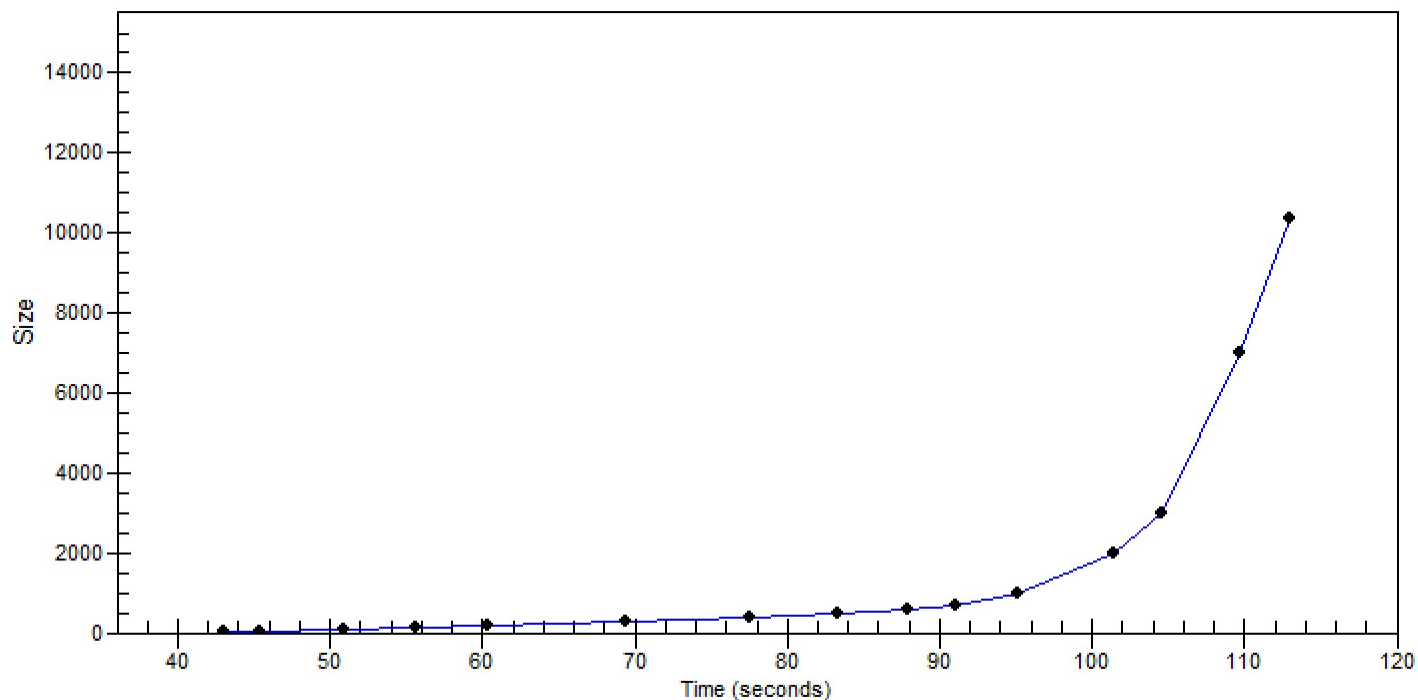


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
Modified: 11/20/2023 9:44:43 AM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-11-17\QC1674-8-14.xad

Created: 11/17/2023 4:02:47 PM  
 Modified: 11/20/2023 9:44:43 AM

**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		11/17/2023 4:44:08 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-11-17\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-11-17_001.xad)		Instrument	Run		11/17/2023 4:02:54 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/17/2023 4:02:54 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/17/2023 4:02:54 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/17/2023 4:02:54 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/17/2023 4:02:54 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/17/2023 4:02:54 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/17/2023 4:02:54 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB