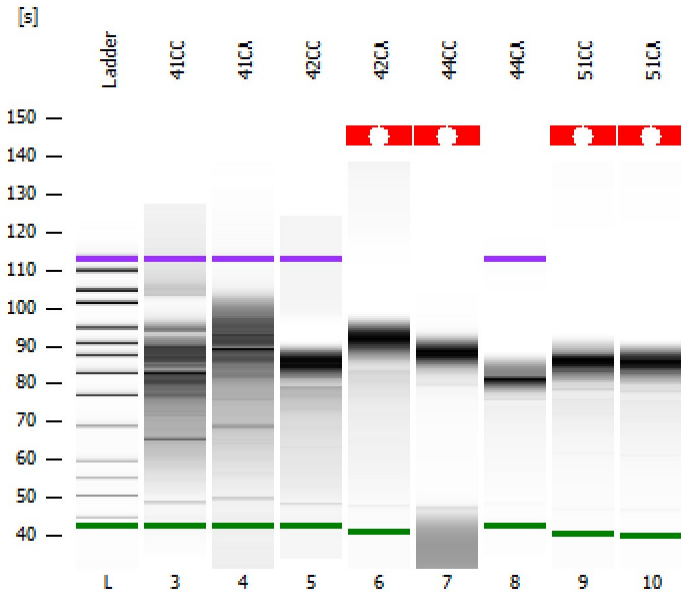


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
Modified: 11/14/2023 1:06:09 PM

Electrophoresis File Run Summary



Instrument Information:

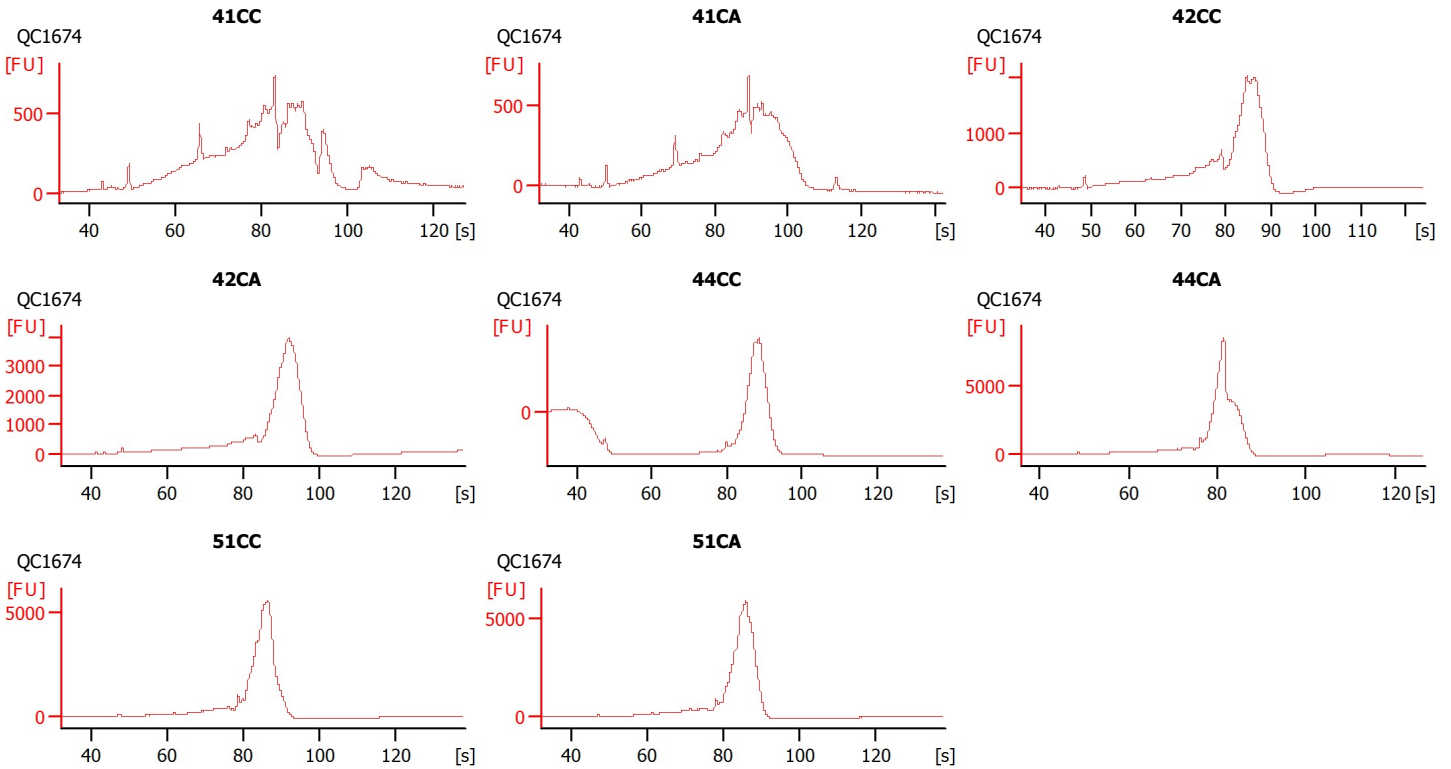
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
 Modified: 11/14/2023 1:06:09 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
41CC	QC1674	<input type="checkbox"/>		✓		
41CA	QC1674	<input type="checkbox"/>		✓		
42CC	QC1674	<input type="checkbox"/>		✓		
42CA	QC1674	<input type="checkbox"/>		✓		
44CC	QC1674	<input type="checkbox"/>		✓		
44CA	QC1674	<input type="checkbox"/>		✓		
51CC	QC1674	<input type="checkbox"/>		✓		
51CA	QC1674	<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
Modified: 11/14/2023 1:06:09 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ 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

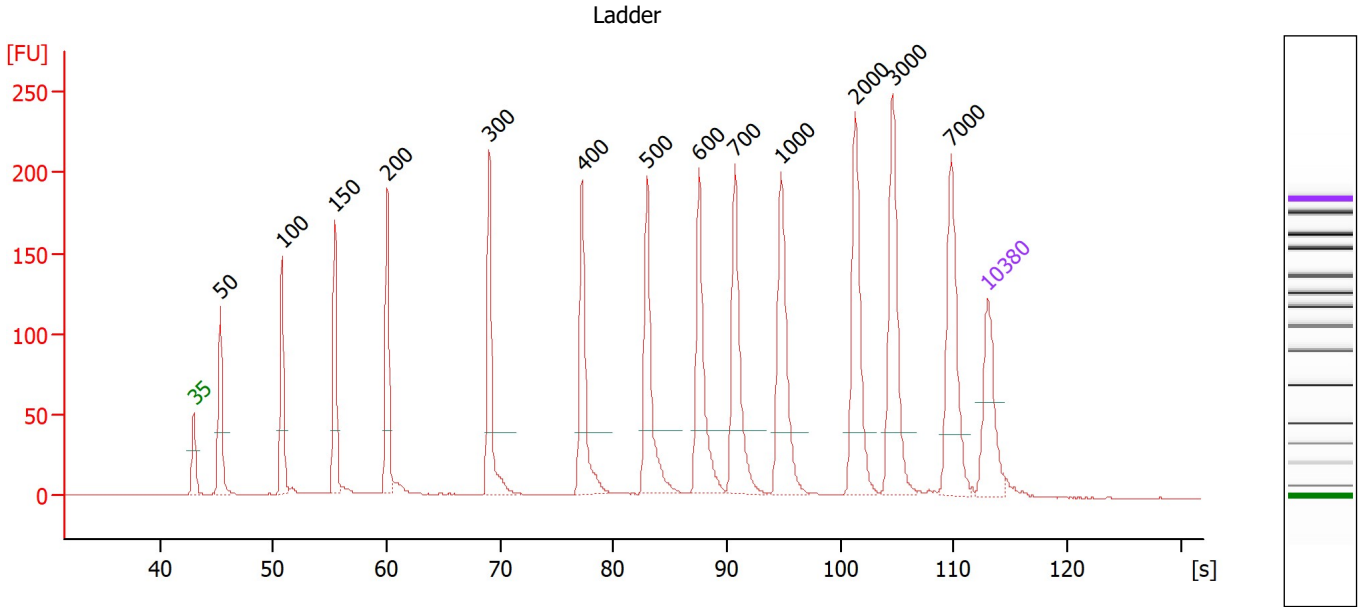
Ladder

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:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

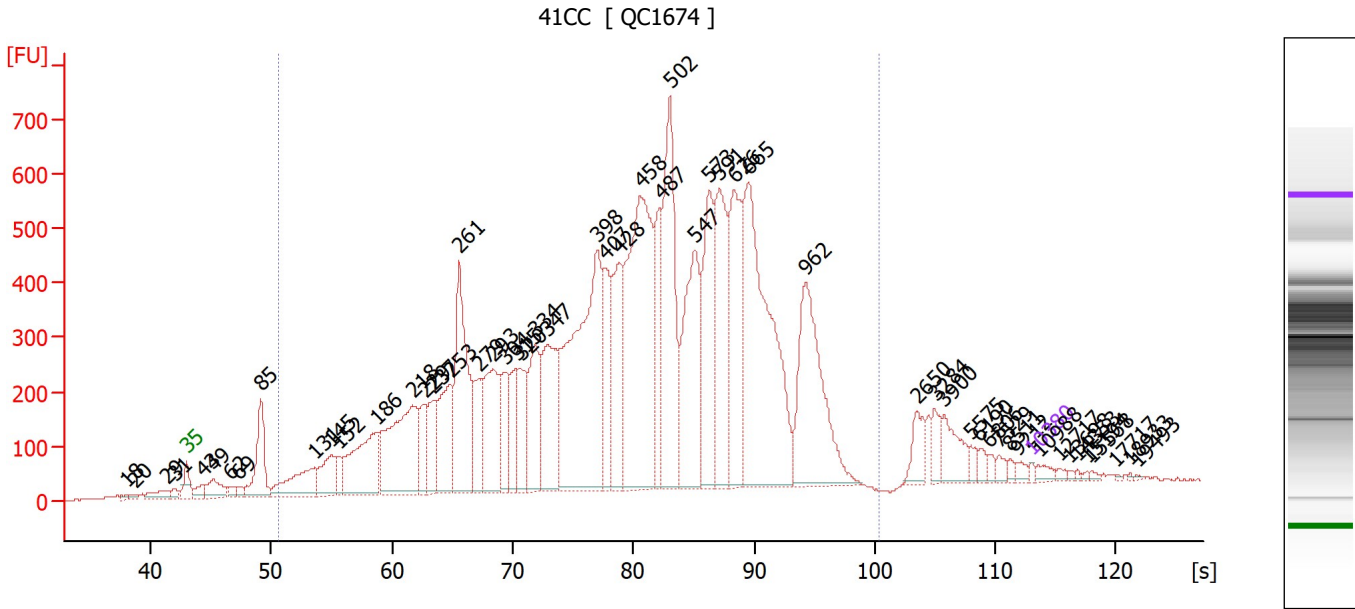
Peak table for Ladder

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:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
 Modified: 11/14/2023 1:06:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 41CC

Number of peaks found: 55 Corr. Area 1: 17,129.5
 Noise: 1.4

Peak table for sample 3 : 41CC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	18	0.00	0.0	
2	20	0.00	0.0	
3	29	0.00	0.0	
4	31	0.00	0.0	
5	35	125.00	5,411.3	Lower Marker
6	43	459.72	16,176.4	
7	49	997.18	30,769.1	
8	62	269.43	6,561.2	
9	69	234.79	5,173.7	
10	85	2,712.61	48,290.4	
11	131	2,300.64	26,677.4	
12	145	1,543.61	16,139.5	
13	152	641.60	6,412.7	
14	186	3,810.01	31,116.8	
15	218	5,602.35	38,871.8	
16	229	1,323.21	8,745.1	
17	237	1,424.16	9,098.0	
18	253	2,854.64	17,095.0	
19	261	5,328.19	30,881.1	
20	279	1,681.35	9,123.0	
21	293	3,521.20	18,233.6	
22	304	1,369.03	6,815.0	
23	315	1,347.94	6,478.6	
24	320	1,737.39	8,236.8	
25	334	2,490.07	11,287.0	
26	347	3,590.84	15,689.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
 Modified: 11/14/2023 1:06:09 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : 41CC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	398	9,366.36	35,670.1	
28	407	2,137.47	7,956.6	
29	428	3,111.10	11,013.2	
30	458	9,506.54	31,427.7	
31	487	2,336.29	7,267.6	
32	502	5,757.19	17,366.6	
33	547	4,540.39	12,579.4	
34	573	3,606.03	9,534.4	
35	591	3,933.19	10,075.6	
36	626	4,040.21	9,786.1	
37	665	9,048.61	20,622.0	
38	962	4,744.04	7,470.5	
39	2,650	656.17	375.2	
40	3,284	442.76	204.3	
41	3,900	910.24	353.7	
42	5,575	206.07	56.0	
43	6,190	208.68	51.1	
44	6,806	138.46	30.8	
45	7,529	174.24	35.1	
46	8,511	99.74	17.8	
47	9,212	151.23	24.9	
48	10,380	75.00	10.9	Upper Marker
49	10,988	0.00	0.0	
50	12,717	0.00	0.0	
51	13,698	0.00	0.0	
52	14,353	0.00	0.0	
53	15,194	0.00	0.0	
54	15,568	0.00	0.0	
55	17,717	0.00	0.0	
56	18,933	0.00	0.0	
57	19,493	0.00	0.0	

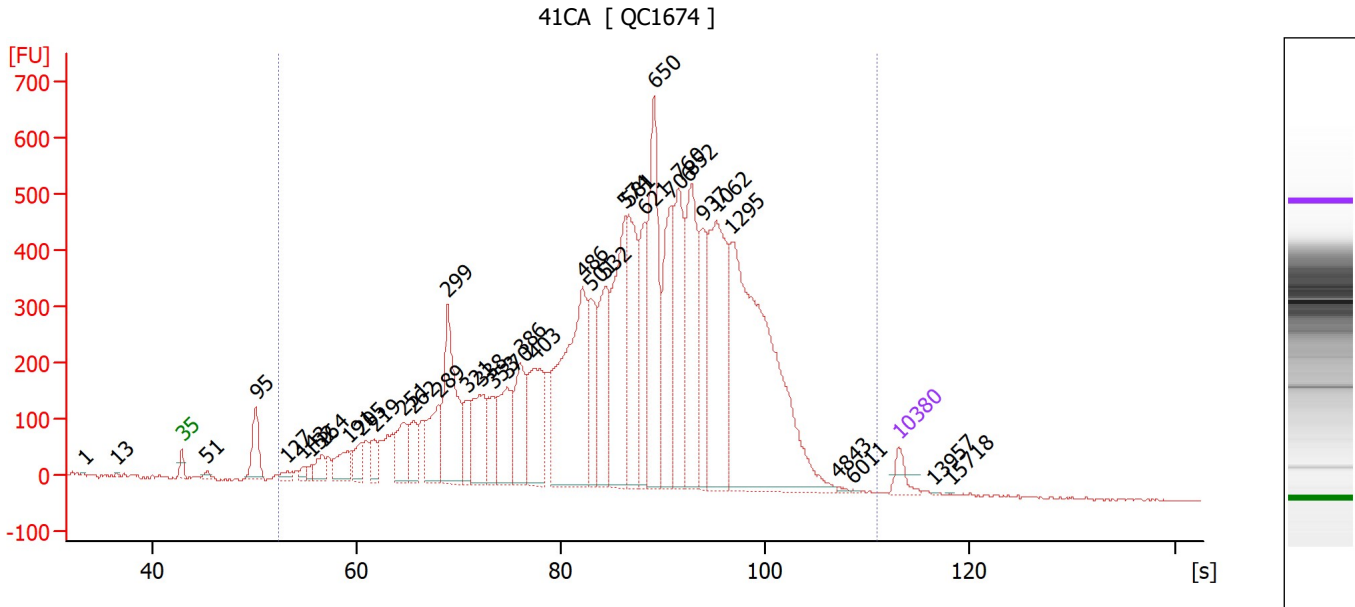
Region table for sample 3 : 41CC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
99	1,867	17,129.5	91	491	45.3	103,751.45	449,657.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 41CA

Number of peaks found: 38 Corr. Area 1: 14,097.0
 Noise: 1.8

Peak table for sample 4 : 41CA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	1	0.00	0.0	
2	13	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	51	29.15	860.8	
5	95	317.36	5,081.0	
6	127	52.04	622.1	
7	143	44.74	474.1	
8	152	54.69	545.3	
9	164	135.14	1,249.0	
10	191	223.84	1,777.9	
11	205	163.52	1,211.3	
12	219	132.19	914.1	
13	251	288.76	1,746.0	
14	262	219.52	1,271.2	
15	289	393.34	2,061.9	
16	299	781.20	3,959.5	
17	321	194.77	918.7	
18	338	447.73	2,007.8	
19	353	230.63	989.3	
20	370	431.21	1,766.4	
21	386	386.05	1,515.9	
22	403	546.03	2,054.6	
23	486	1,379.15	4,300.4	
24	501	432.77	1,309.6	
25	532	526.24	1,500.1	
26	574	884.90	2,336.9	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
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Electropherogram Summary Continued ...

... Peak table for sample 4 : 41CA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	581	665.57	1,737.0	
28	621	408.96	997.1	
29	650	921.62	2,149.8	
30	706	673.82	1,446.8	
31	760	659.63	1,315.6	
32	852	761.55	1,353.7	
33	937	409.42	661.8	
34	1,062	973.59	1,388.5	
35	1,295	2,053.84	2,403.0	
36	4,843	10.08	3.2	
37	6,011	4.45	1.1	
38	10,380	75.00	10.9	Upper Marker
39	13,957	0.00	0.0	
40	15,718	0.00	0.0	

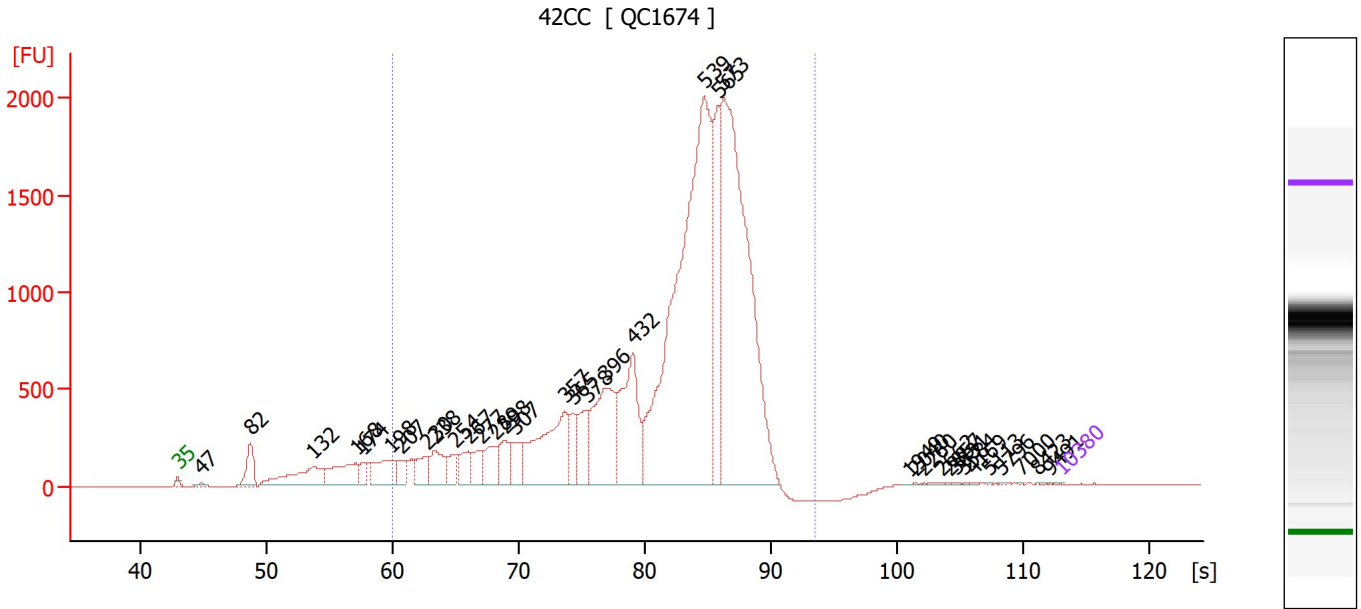
Region table for sample 4 : 41CA

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
118	8,089	14,097.0	99	807	71.0	15,918.10	50,527.4	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
 Modified: 11/14/2023 1:06:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 42CC

Number of peaks found: 36 Corr. Area 1: 24,404.9
 Noise: 1.1

Peak table for sample 5 : 42CC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	1,722.29	55,461.0	
3	82	24,764.66	457,638.8	
4	132	44,698.52	513,258.0	
5	168	36,943.60	333,157.2	
6	174	8,196.42	71,558.1	
7	198	30,950.16	236,848.2	
8	207	11,039.35	80,843.2	
9	230	17,080.27	112,762.6	
10	238	23,560.43	150,301.3	
11	254	13,535.73	80,746.3	
12	267	18,391.65	104,483.5	
13	277	14,486.18	79,219.1	
14	289	21,881.59	114,597.5	
15	298	22,342.49	113,501.0	
16	307	16,592.59	81,785.5	
17	357	82,059.25	348,732.5	
18	365	16,951.96	70,407.7	
19	378	25,338.04	101,635.8	
20	396	74,468.85	284,676.9	
21	432	69,879.88	244,810.2	
22	539	389,692.38	1,094,643.8	
23	565	63,099.63	169,147.4	
24	573	303,005.91	801,781.9	
25	1,949	90.46	70.3	
26	2,040	126.52	94.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
 Modified: 11/14/2023 1:06:09 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : 42CC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,260	135.47	90.8	
28	2,662	388.02	220.8	
29	2,857	174.56	92.6	
30	3,031	238.23	119.1	
31	3,584	144.08	60.9	
32	4,169	203.26	73.9	
33	5,113	129.61	38.4	
34	5,796	164.54	43.0	
35	7,000	114.52	24.8	
36	8,423	99.44	17.9	
37	9,491	169.78	27.1	
38	10,380	75.00	10.9	Upper Marker

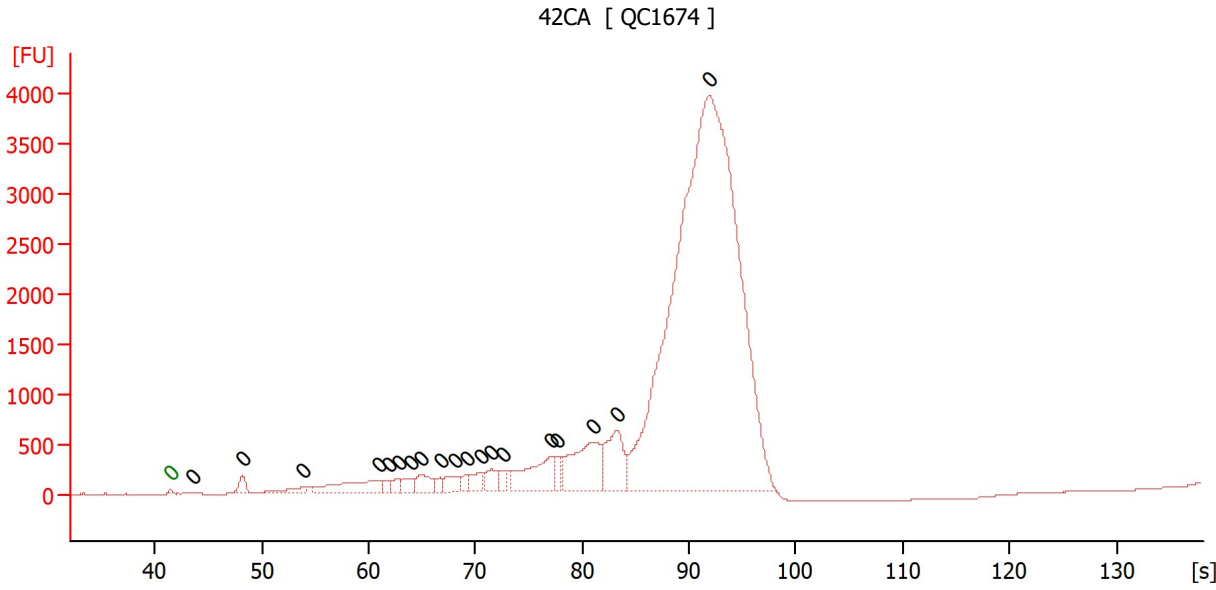
Region table for sample 5 : 42CC

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	902	24,404.9	91	491	22.7	1,216,851.25	4,231,070.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
 Modified: 11/14/2023 1:06:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 42CA

Number of peaks found: 19 Noise: 0.8

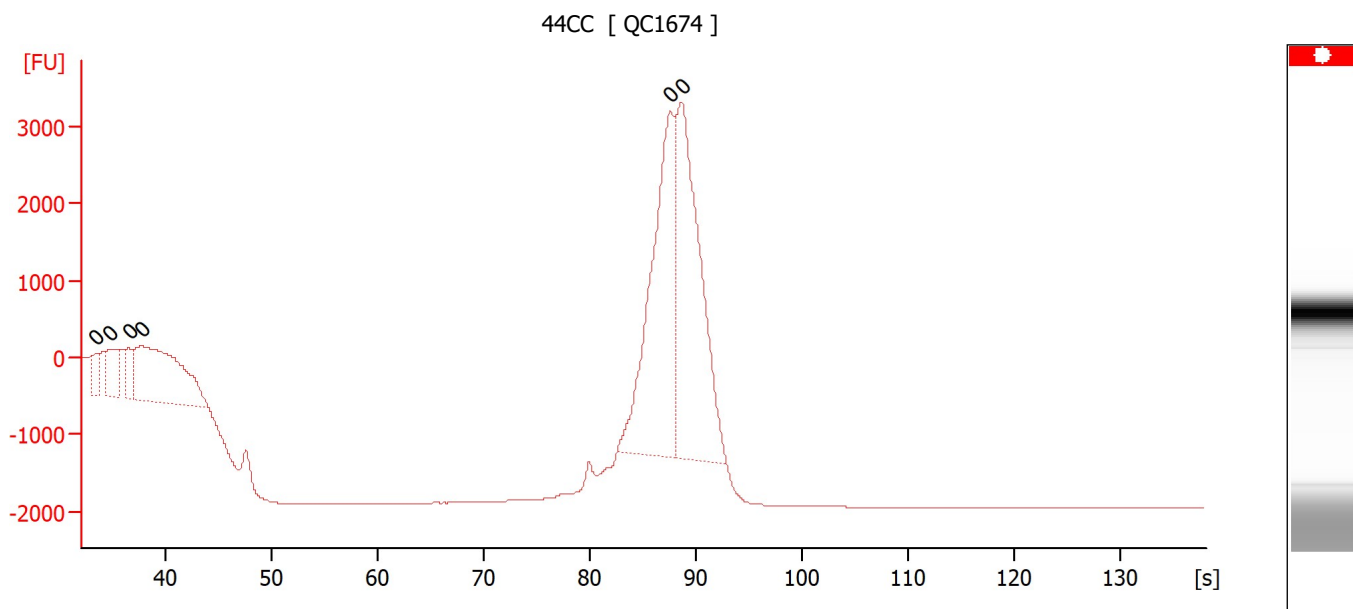
Peak table for sample 6 : 42CA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	
20	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
 Modified: 11/14/2023 1:06:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 44CC

Number of peaks found: 0 Noise: 0.6

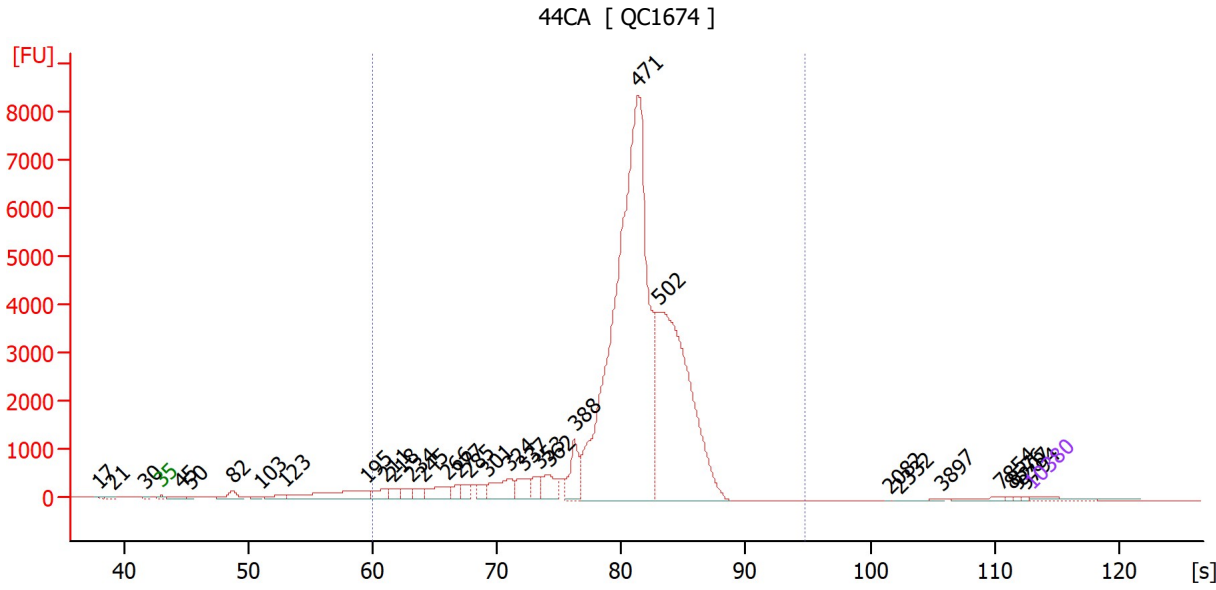
Peak table for sample 7 : 44CC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
 Modified: 11/14/2023 1:06:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 44CA

Number of peaks found: 31 Corr. Area 1: 60,464.3
 Noise: 0.5

Peak table for sample 8 : 44CA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	17	0.00	0.0	
2	21	0.00	0.0	
3	30	0.00	0.0	
4	35	125.00	5,411.3	Lower Marker
5	45	45.61	1,535.8	
6	50	12.80	389.9	
7	82	157.08	2,918.1	
8	103	40.84	601.6	
9	123	103.26	1,271.6	
10	195	608.32	4,727.4	
11	211	178.24	1,279.3	
12	218	139.04	967.3	
13	234	122.54	795.0	
14	245	132.22	819.3	
15	266	288.45	1,639.9	
16	277	144.14	789.8	
17	285	113.37	603.5	
18	301	144.95	729.7	
19	324	423.09	1,981.5	
20	337	254.66	1,144.4	
21	353	186.06	797.7	
22	362	289.90	1,212.3	
23	388	447.67	1,748.0	
24	471	9,863.44	31,704.1	
25	502	4,900.41	14,799.0	
26	2,082	0.64	0.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
 Modified: 11/14/2023 1:06:09 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : 44CA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,332	1.02	0.7	
28	3,897	15.86	6.2	
29	7,854	53.06	10.2	
30	8,576	9.90	1.7	
31	9,207	9.28	1.5	
32	9,794	10.76	1.7	
33	▶ 10,380	75.00	10.9	Upper Marker

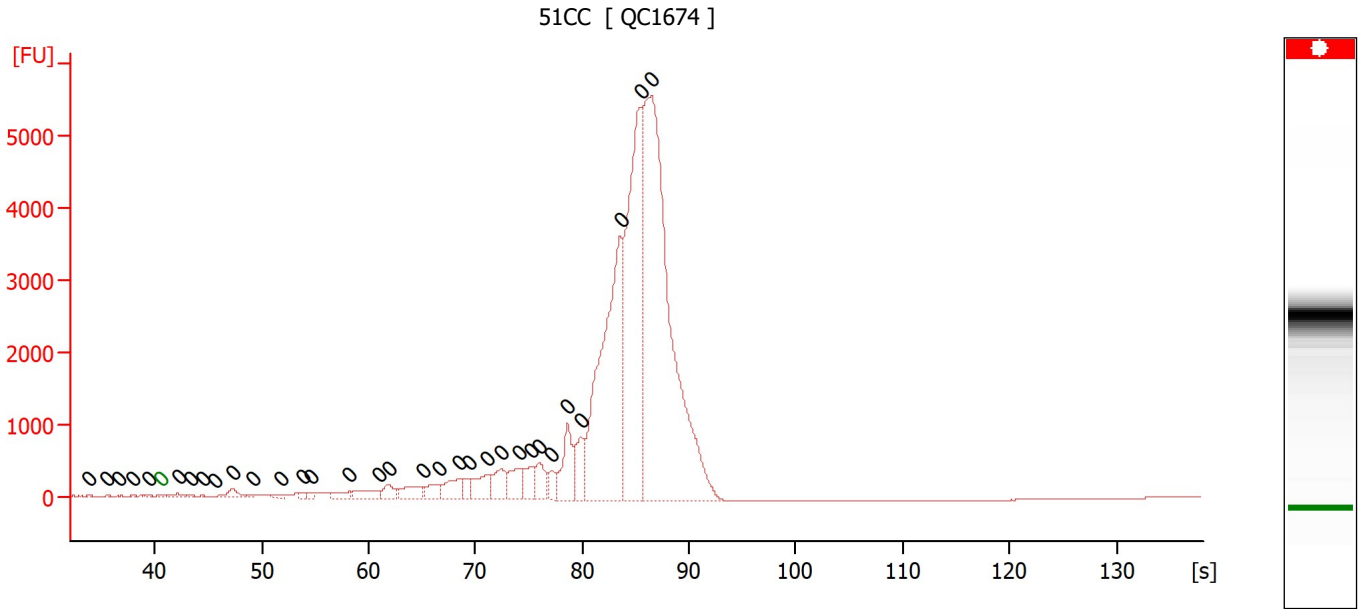
Region table for sample 8 : 44CA

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	60,464.3	95	461	15.7	17,522.17	60,876.9	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
 Modified: 11/14/2023 1:06:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 51CC

Number of peaks found: 32 Noise: 0.5

Peak table for sample 9 : 51CC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	Lower Marker
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	
20	0	0.00	0.0	
21	0	0.00	0.0	
22	0	0.00	0.0	
23	0	0.00	0.0	
24	0	0.00	0.0	
25	0	0.00	0.0	
26	0	0.00	0.0	
27	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
Modified: 11/14/2023 1:06:09 PM

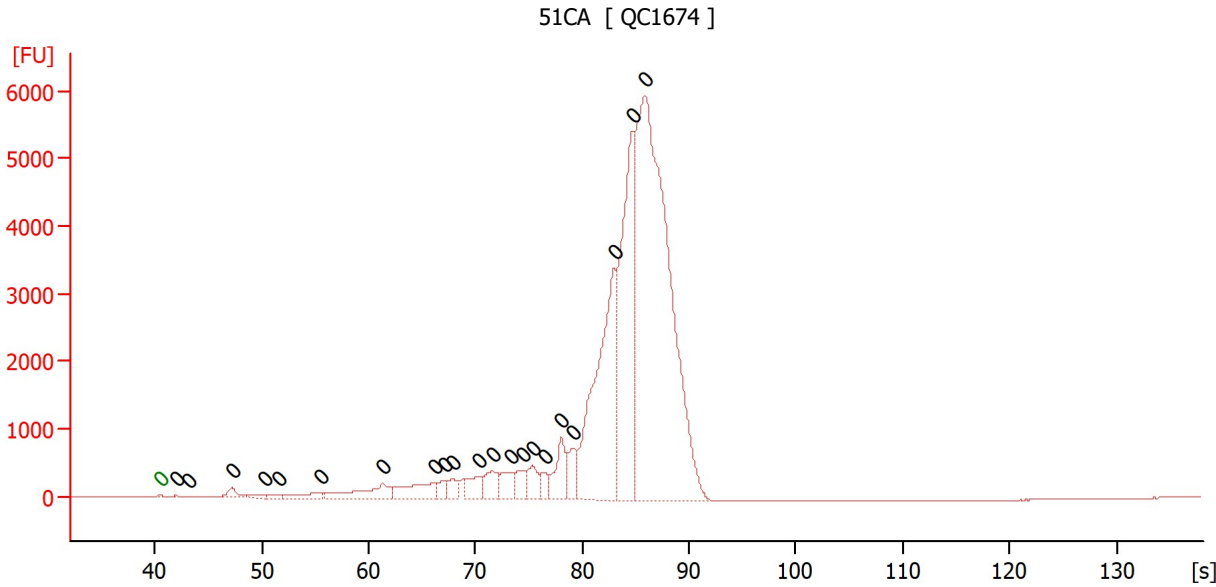
Electropherogram Summary Continued ...**... Peak table for sample 9 : 51CC**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
28	0	0.00	0.0	
29	0	0.00	0.0	
30	0	0.00	0.0	
31	0	0.00	0.0	
32	0	0.00	0.0	
33	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
 Modified: 11/14/2023 1:06:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 51CA

Number of peaks found: 21 Noise: 0.5

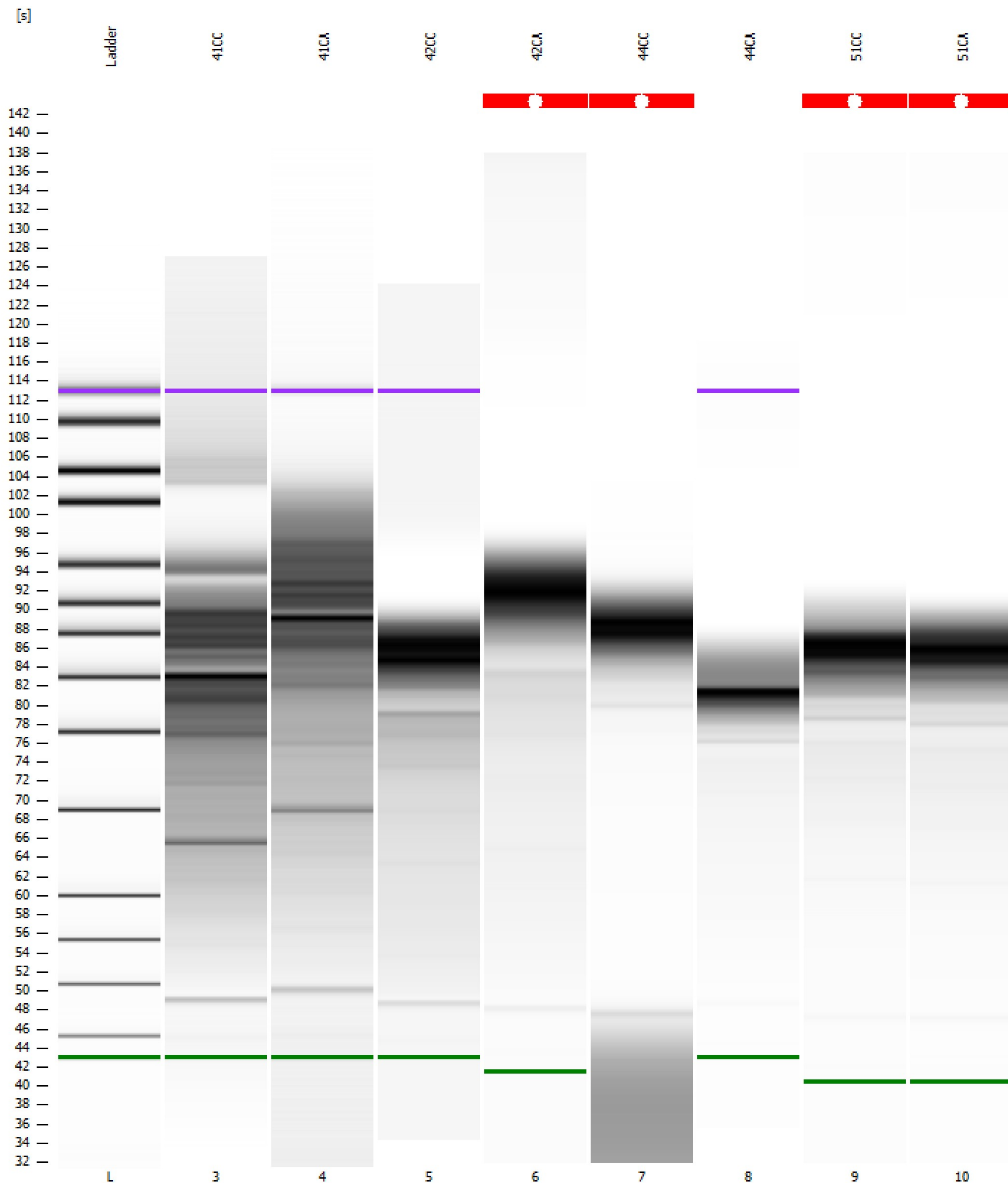
Peak table for sample 10 : 51CA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	
20	0	0.00	0.0	
21	0	0.00	0.0	
22	0	0.00	0.0	

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Gel Image

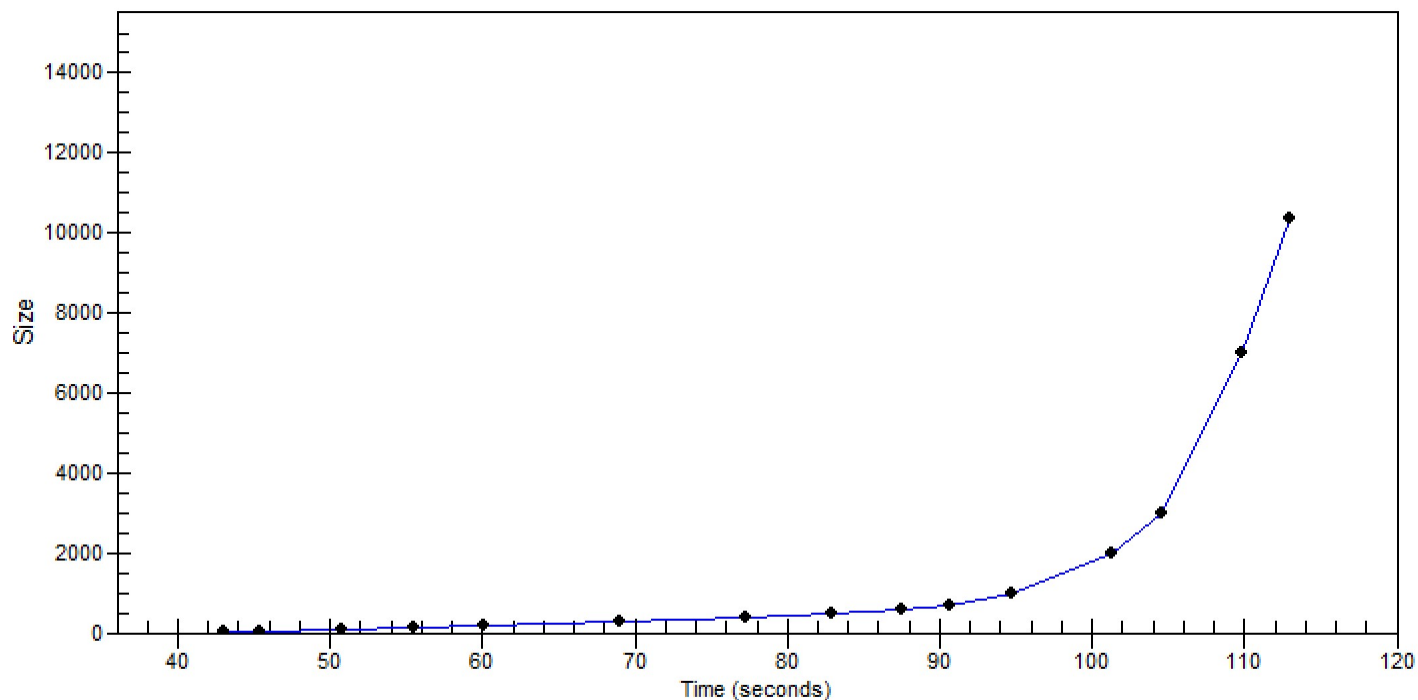


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...2100 bioanalyzer\2100 expert\data\2023-11-14\QC1674_1-9.xad

Created: 11/14/2023 12:09:50 PM
Modified: 11/14/2023 1:06:09 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
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Created: 11/14/2023 12:09:50 PM
 Modified: 11/14/2023 1:06:09 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		11/14/2023 12:51:10 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\2023-11-14\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-11-14_001.xad)		Instrument	Run		11/14/2023 12:09:57 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/14/2023 12:09:57 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/14/2023 12:09:57 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/14/2023 12:09:57 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/14/2023 12:09:57 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/14/2023 12:09:57 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/14/2023 12:09:57 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB