

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
Modified: 11/16/2023 5:30:11 PM

Electrophoresis File Run Summary

Instrument Information:

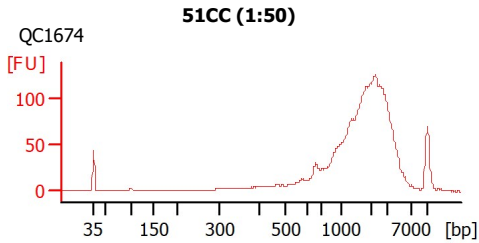
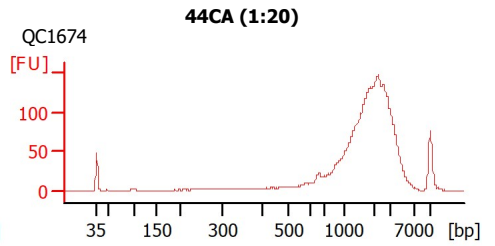
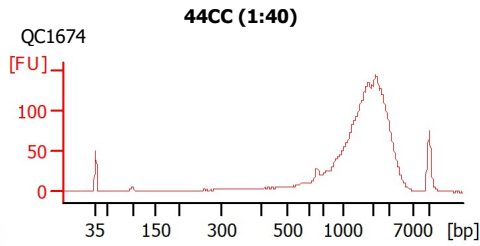
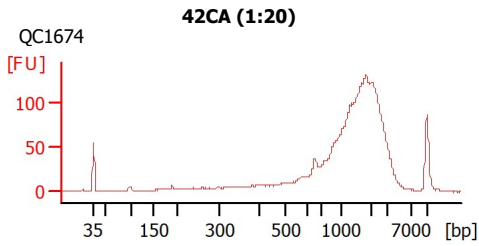
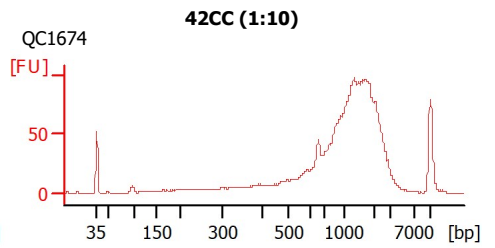
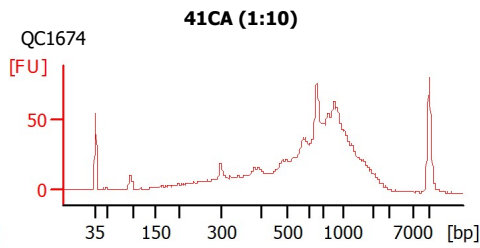
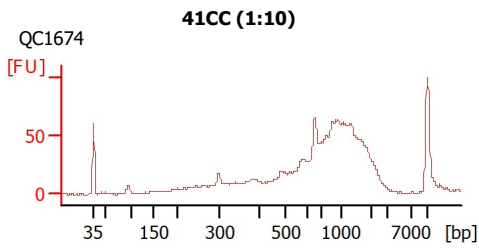
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
 Modified: 11/16/2023 5:30:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
41CC (1:10)	QC1674	<input type="checkbox"/>		✓		
41CA (1:10)	QC1674	<input type="checkbox"/>		✓		
42CC (1:10)	QC1674	<input type="checkbox"/>		✓		
42CA (1:20)	QC1674	<input type="checkbox"/>		✓		
44CC (1:40)	QC1674	<input type="checkbox"/>		✓		
44CA (1:20)	QC1674	<input type="checkbox"/>		✓		
51CC (1:50)	QC1674	<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
Modified: 11/16/2023 5:30:11 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

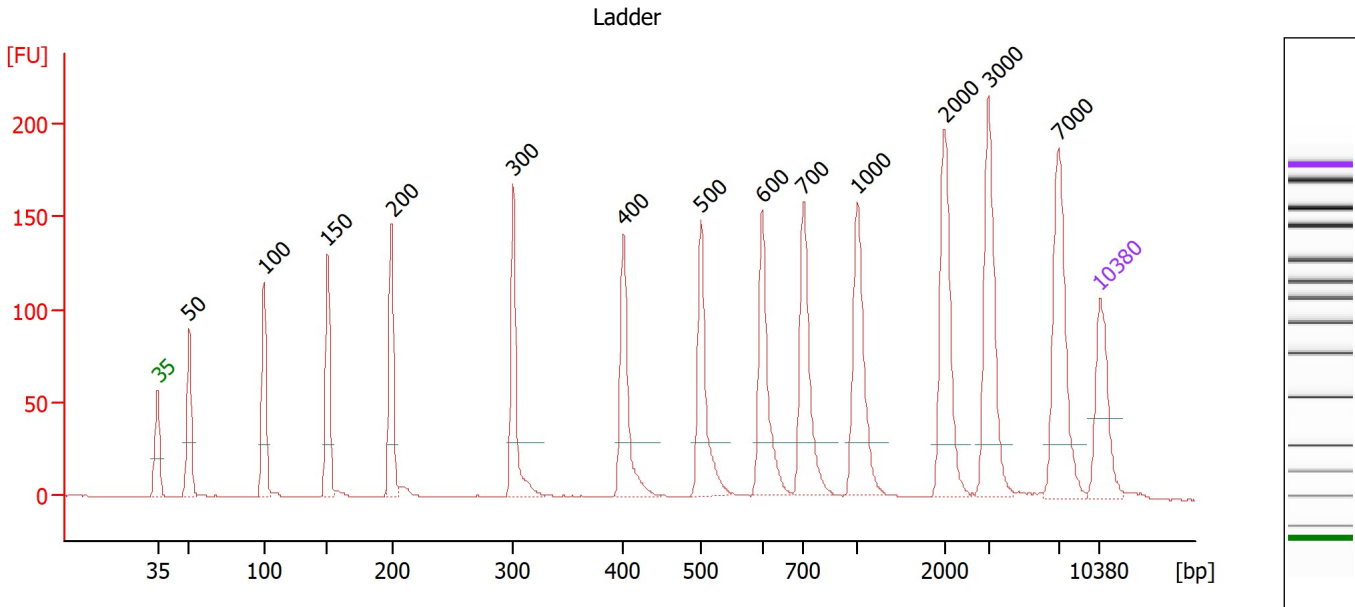
Ladder

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:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
 Modified: 11/16/2023 5:30:11 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

Peak table for Ladder

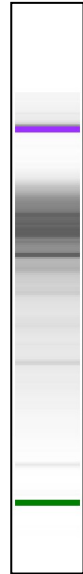
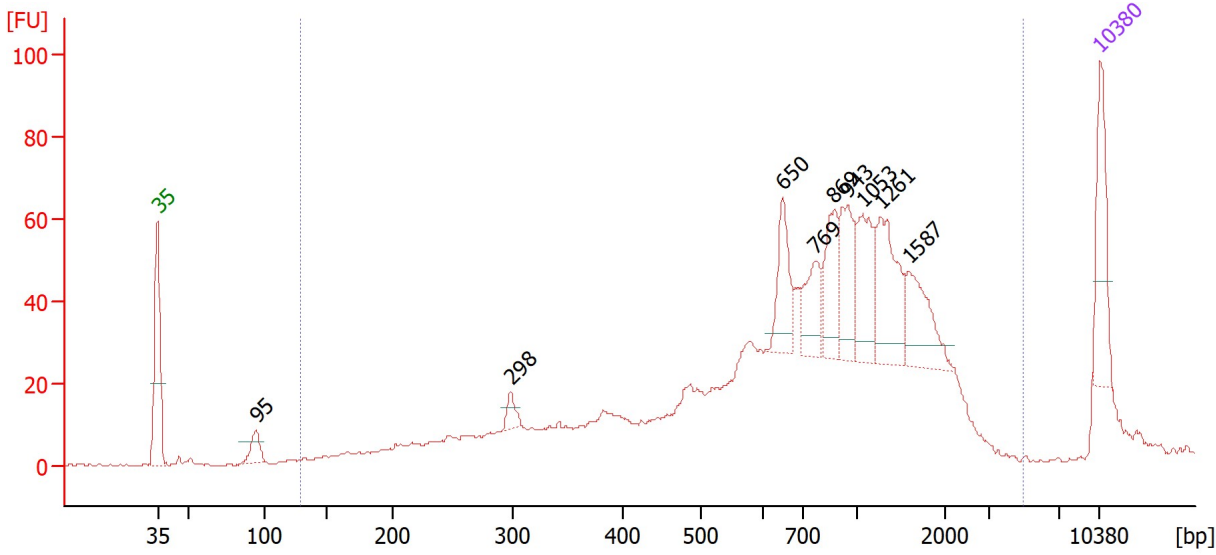
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	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:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
 Modified: 11/16/2023 5:30:11 PM

Electropherogram Summary Continued ...

41CC (1:10) [QC1674]



Overall Results for sample 5 : 41CC (1:10)

Number of peaks found: 9 Corr. Area 1: 1,073.6
 Noise: 0.4

Peak table for sample 5 : 41CC (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	95	32.89	526.9	
3	298	18.38	93.4	
4	650	72.98	170.1	
5	769	58.68	115.6	
6	869	68.49	119.4	
7	943	77.69	124.8	
8	1,053	77.90	112.1	
9	1,261	102.08	122.6	
10	1,587	70.33	67.2	
11	10,380	75.00	10.9	Upper Marker

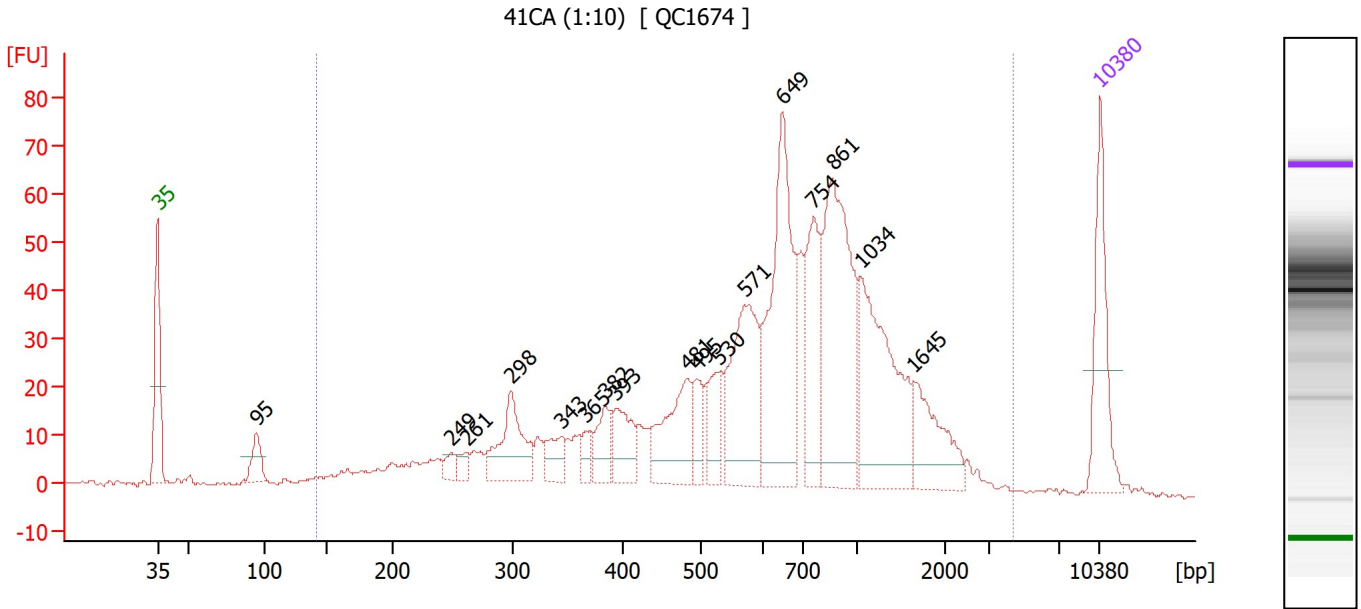
Region table for sample 5 : 41CC (1:10)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
129	4,973	1,073.6	97	939	57.3	1,892.88	5,066.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
 Modified: 11/16/2023 5:30:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 41CA (1:10)

Number of peaks found: 17 Corr. Area 1: 1,089.9
 Noise: 0.4

Peak table for sample 6 : 41CA (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	95	33.44	535.9	
3	249	13.24	80.6	
4	261	12.55	72.7	
5	298	88.23	449.1	
6	343	29.82	131.8	
7	365	17.21	71.5	
8	382	35.28	139.8	
9	393	48.82	188.4	
10	481	92.90	292.4	
11	495	33.31	102.0	
12	530	42.93	122.7	
13	571	145.23	385.3	
14	649	215.98	504.1	
15	754	99.16	199.3	
16	861	214.16	377.1	
17	1,034	171.66	251.5	
18	1,645	65.36	60.2	
19	10,380	75.00	10.9	Upper Marker

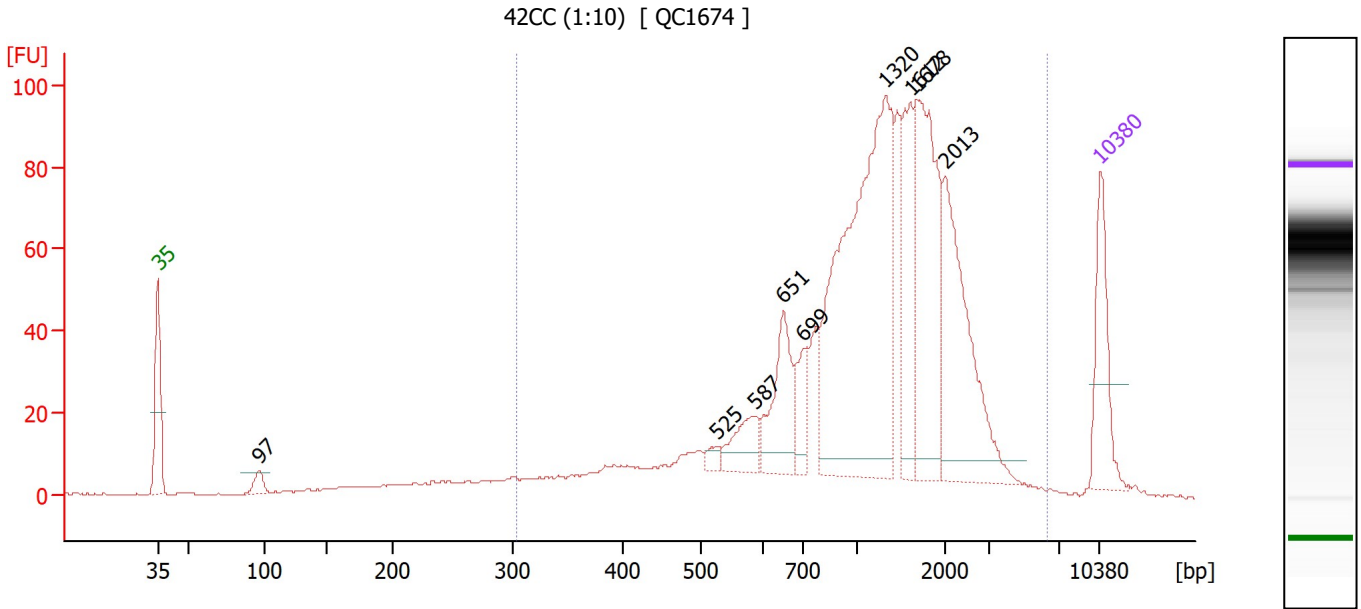
Region table for sample 6 : 41CA (1:10)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
141	4,437	1,089.9	98	776	59.3	1,661.41	4,966.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
 Modified: 11/16/2023 5:30:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 42CC (1:10)

Number of peaks found: 9 Corr. Area 1: 1,233.7
 Noise: 0.2

Peak table for sample 7 : 42CC (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	97	18.85	295.4	
3	525	10.69	30.9	
4	587	45.74	118.0	
5	651	95.57	222.4	
6	699	38.86	84.2	
7	1,320	461.13	529.2	
8	1,612	96.73	90.9	
9	1,678	198.42	179.2	
10	2,013	182.99	137.7	
11	10,380	75.00	10.9	Upper Marker

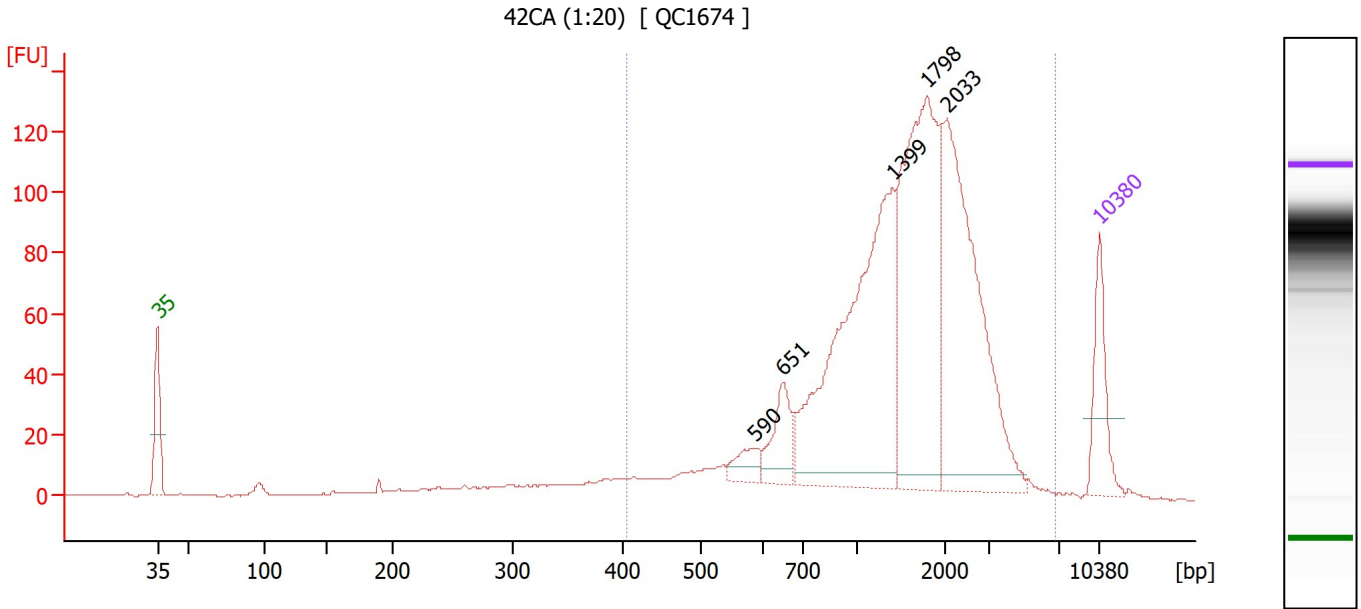
Region table for sample 7 : 42CC (1:10)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
303	6,314	1,233.7	94	1,357	53.8	1,609.18	2,624.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
 Modified: 11/16/2023 5:30:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 42CA (1:20)

Number of peaks found: 5 Corr. Area 1: 1,350.4
 Noise: 0.3

Peak table for sample 8 : 42CA (1:20)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	590	35.44	91.1	
3	651	76.62	178.4	
4	1,399	493.34	534.4	
5	1,798	407.31	343.3	
6	2,033	397.56	296.4	
7	10,380	75.00	10.9	Upper Marker

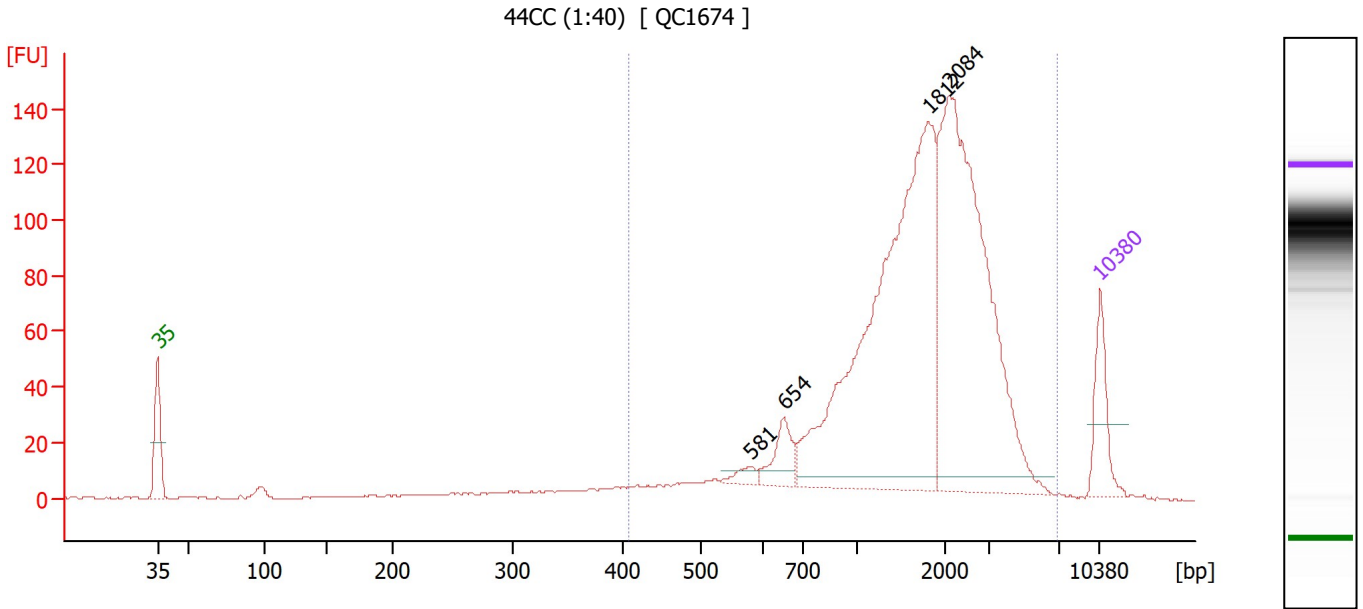
Region table for sample 8 : 42CA (1:20)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
404	6,770	1,350.4	95	1,634	48.3	1,589.89	2,005.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
 Modified: 11/16/2023 5:30:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 44CC (1:40)

Number of peaks found: 4 Corr. Area 1: 1,378.5
 Noise: 0.2

Peak table for sample 9 : 44CC (1:40)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	581	20.33	53.0	
3	654	64.12	148.7	
4	1,812	860.83	720.0	
5	2,084	689.81	501.4	
6	10,380	75.00	10.9	Upper Marker

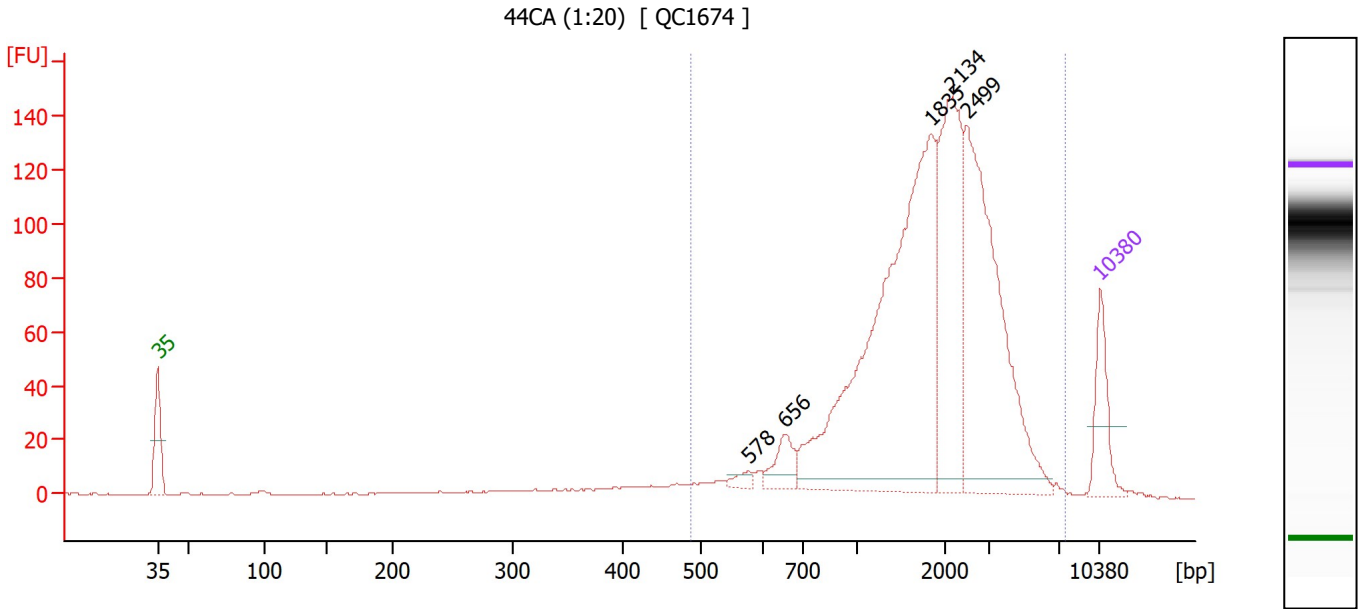
Region table for sample 9 : 44CC (1:40)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
406	6,971	1,378.5	96	1,878	50.0	1,891.28	2,113.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
 Modified: 11/16/2023 5:30:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 44CA (1:20)

Number of peaks found: 5 Corr. Area 1: 1,395.0
 Noise: 0.2

Peak table for sample 10 : 44CA (1:20)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	578	15.31	40.1	
3	656	52.45	121.2	
4	1,835	765.56	632.3	
5	2,134	314.94	223.7	
6	2,499	454.78	275.7	
7	10,380	75.00	10.9	Upper Marker

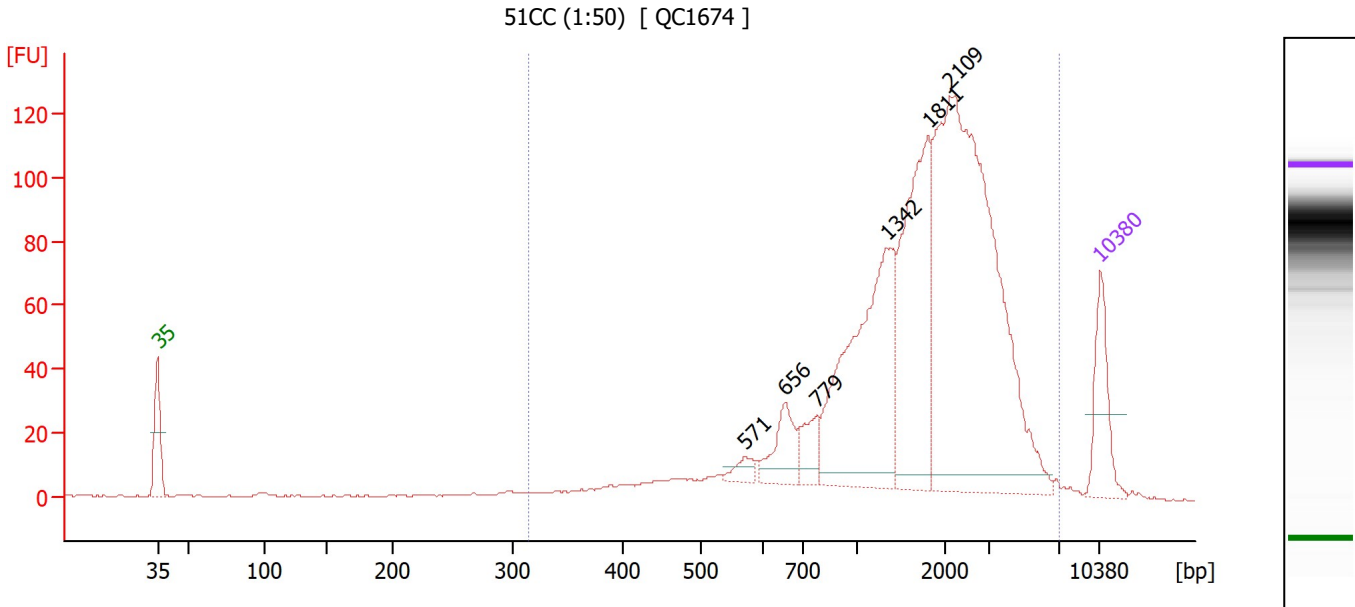
Region table for sample 10 : 44CA (1:20)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
488	7,546	1,395.0	95	2,071	51.6	1,778.95	1,768.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
 Modified: 11/16/2023 5:30:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 51CC (1:50)

Number of peaks found: 6 Corr. Area 1: 1,337.4
 Noise: 0.2

Peak table for sample 11 : 51CC (1:50)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	571	21.55	57.2	
3	656	70.53	162.8	
4	779	47.31	92.0	
5	1,342	358.10	404.4	
6	1,811	290.82	243.4	
7	2,109	721.40	518.3	
8	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : 51CC (1:50)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
313	7,054	1,337.4	99	1,974	56.3	1,717.64	2,003.2	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
Modified: 11/16/2023 5:30:11 PM

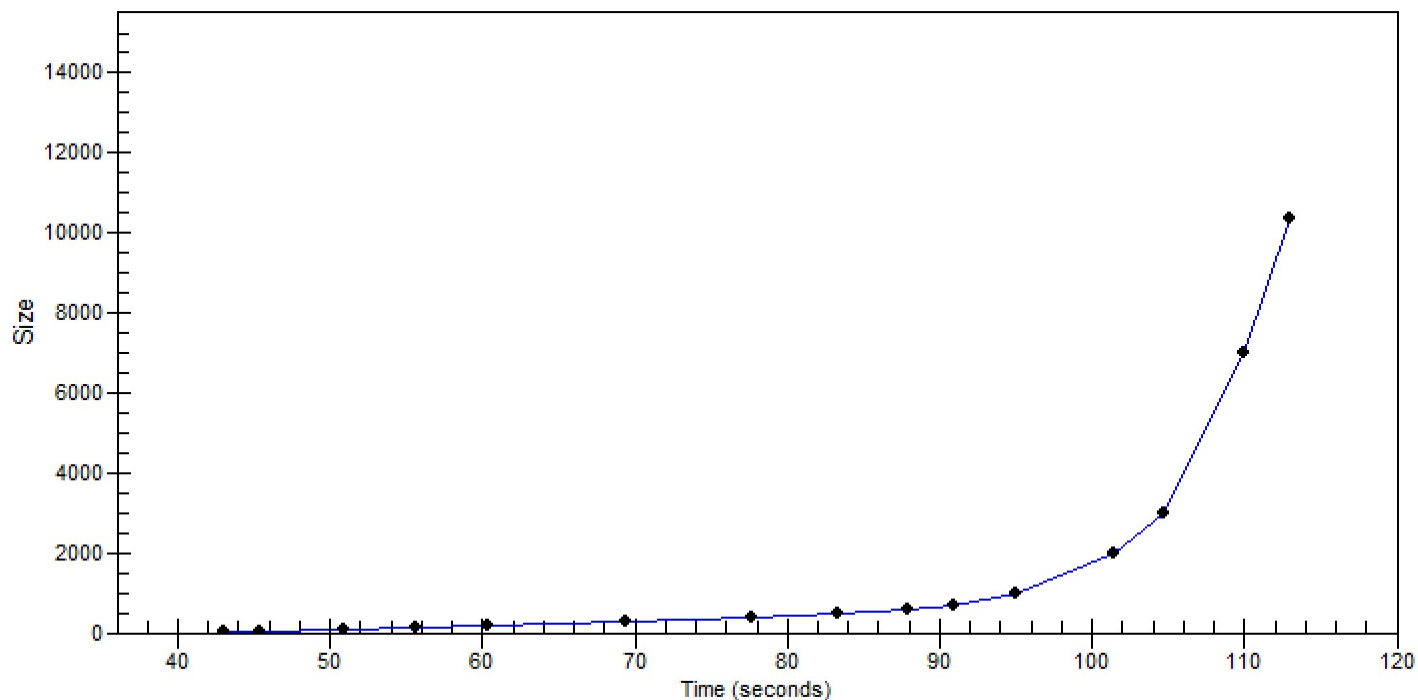
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
Modified: 11/16/2023 5:30:11 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-11-16\QC1674.xad

Created: 11/16/2023 4:41:36 PM
 Modified: 11/16/2023 5:30:11 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		11/16/2023 5:22:53 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\2023-11-16\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-11-16_003.xad)		Instrument	Run		11/16/2023 4:41:42 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/16/2023 4:41:42 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/16/2023 4:41:42 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/16/2023 4:41:42 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/16/2023 4:41:42 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/16/2023 4:41:42 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/16/2023 4:41:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB