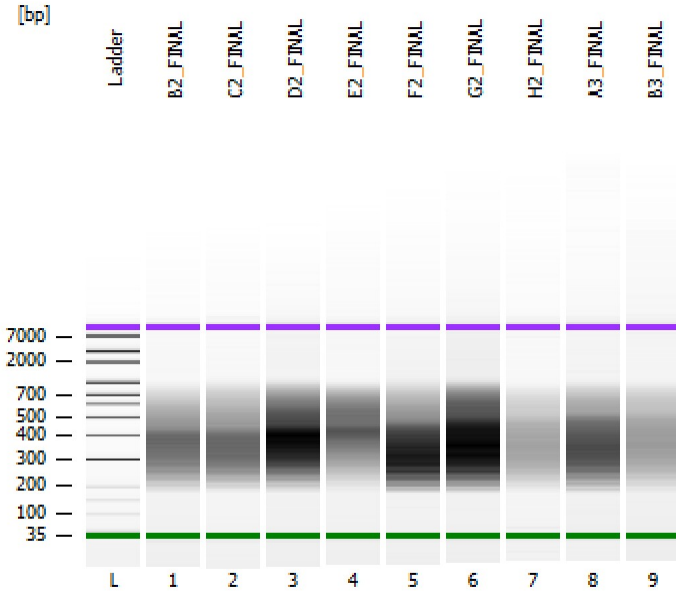


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
Modified: 5/13/2024 5:10:22 PM

Electrophoresis File Run Summary



Instrument Information:

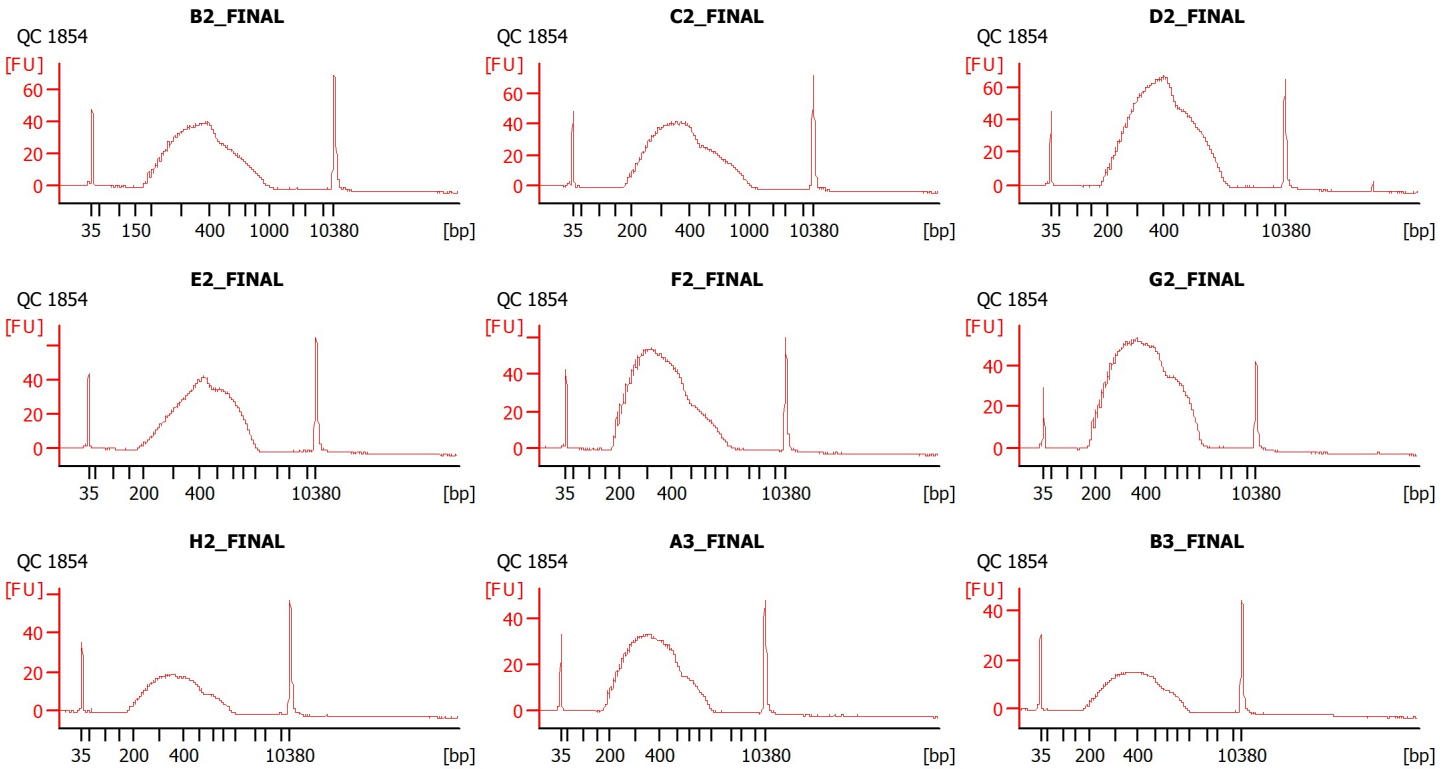
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
 Modified: 5/13/2024 5:10:22 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
B2_FINAL	QC 1854	<input type="checkbox"/>		✓		
C2_FINAL	QC 1854	<input type="checkbox"/>		✓		
D2_FINAL	QC 1854	<input type="checkbox"/>		✓		
E2_FINAL	QC 1854	<input type="checkbox"/>		✓		
F2_FINAL	QC 1854	<input type="checkbox"/>		✓		
G2_FINAL	QC 1854	<input type="checkbox"/>		✓		
H2_FINAL	QC 1854	<input type="checkbox"/>		✓		
A3_FINAL	QC 1854	<input type="checkbox"/>		✓		
B3_FINAL	QC 1854	<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
Modified: 5/13/2024 5:10:22 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

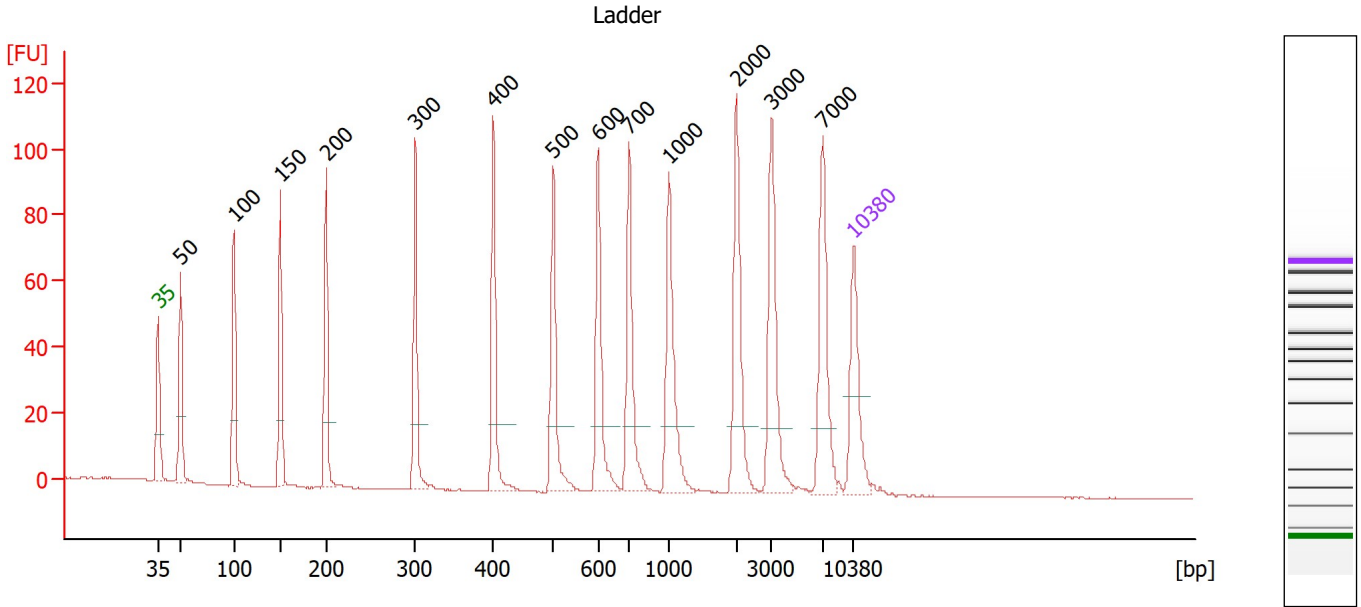
Ladder

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:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
 Modified: 5/13/2024 5:10:22 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

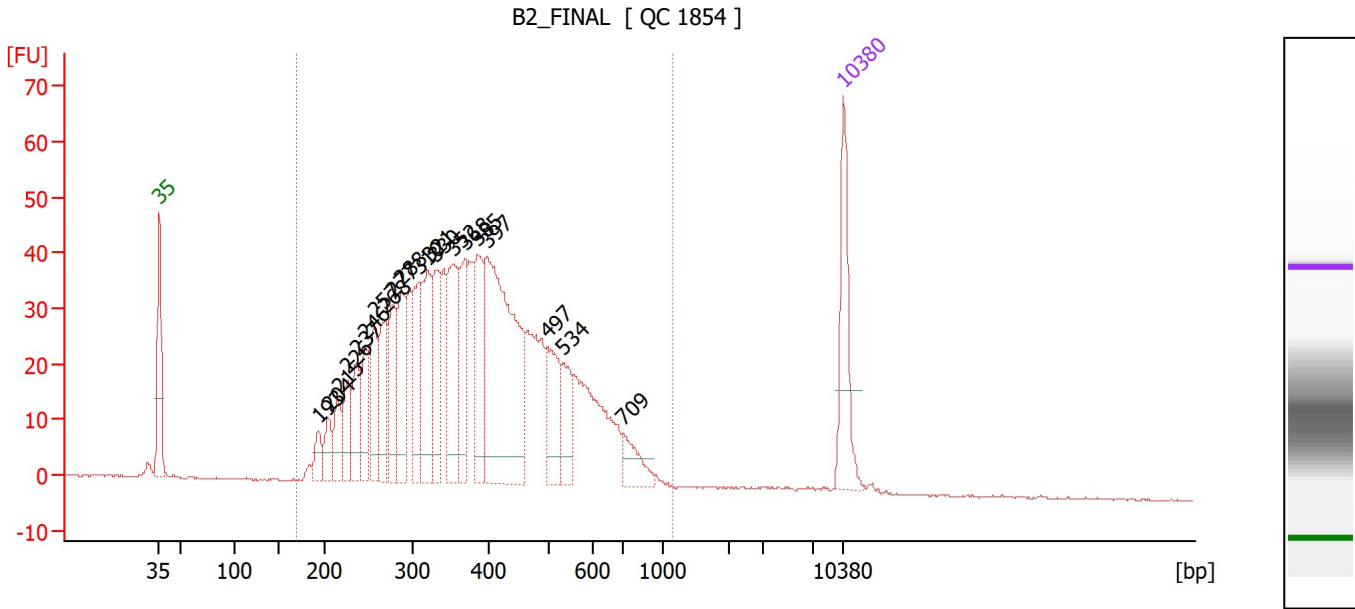
Peak table for Ladder

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:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
 Modified: 5/13/2024 5:10:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : B2_FINAL

Number of peaks found: 20 Corr. Area 1: 1,140.8
 Noise: 0.2

Peak table for sample 1 : B2_FINAL

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	193	27.14	213.1	
3	204	33.98	252.0	
4	215	41.74	293.8	
5	226	52.36	351.6	
6	237	61.38	393.1	
7	246	65.34	402.0	
8	257	73.33	431.9	
9	268	81.20	458.7	
10	277	77.42	422.9	
11	288	96.90	510.4	
12	310	81.87	400.8	
13	321	111.11	525.1	
14	330	89.18	409.1	
15	352	119.73	514.8	
16	368	80.13	330.3	
17	385	94.74	372.9	
18	397	328.69	1,253.4	
19	497	79.61	242.6	
20	534	51.41	145.9	
21	709	33.45	71.5	
22	10,380	75.00	10.9	Upper Marker

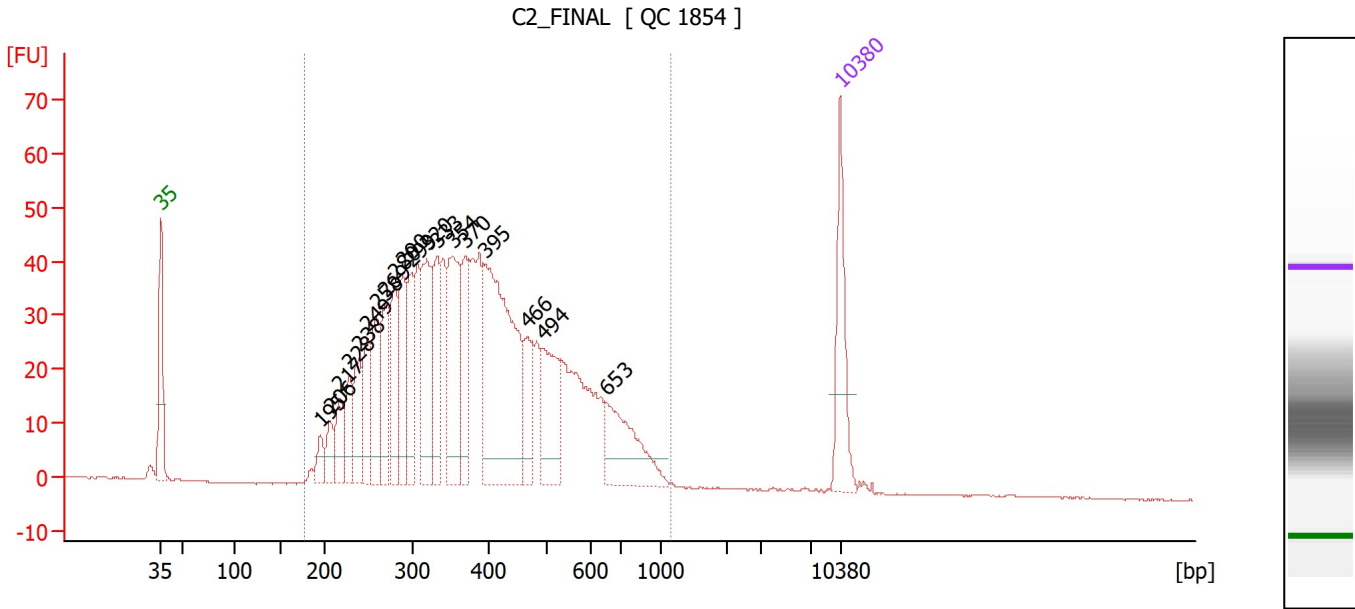
Region table for sample 1 : B2_FINAL

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
169	1,153	1,140.8	99	394	33.1	2,194.55	9,708.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
 Modified: 5/13/2024 5:10:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : C2_FINAL

Number of peaks found: 19 Corr. Area 1: 1,216.1
 Noise: 0.1

Peak table for sample 2 : C2_FINAL

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	195	26.56	206.6	
3	206	35.33	259.5	
4	217	48.17	336.8	
5	228	57.56	382.9	
6	238	67.50	429.4	
7	249	73.06	445.4	
8	258	93.13	546.1	
9	269	82.06	461.5	
10	280	93.51	505.2	
11	290	97.78	511.5	
12	299	80.16	406.4	
13	320	142.69	676.6	
14	333	79.45	361.7	
15	354	152.41	652.9	
16	370	79.40	325.4	
17	395	326.23	1,249.9	
18	466	58.74	190.9	
19	494	106.64	327.3	
20	653	105.13	244.0	
21	10,380	75.00	10.9	Upper Marker

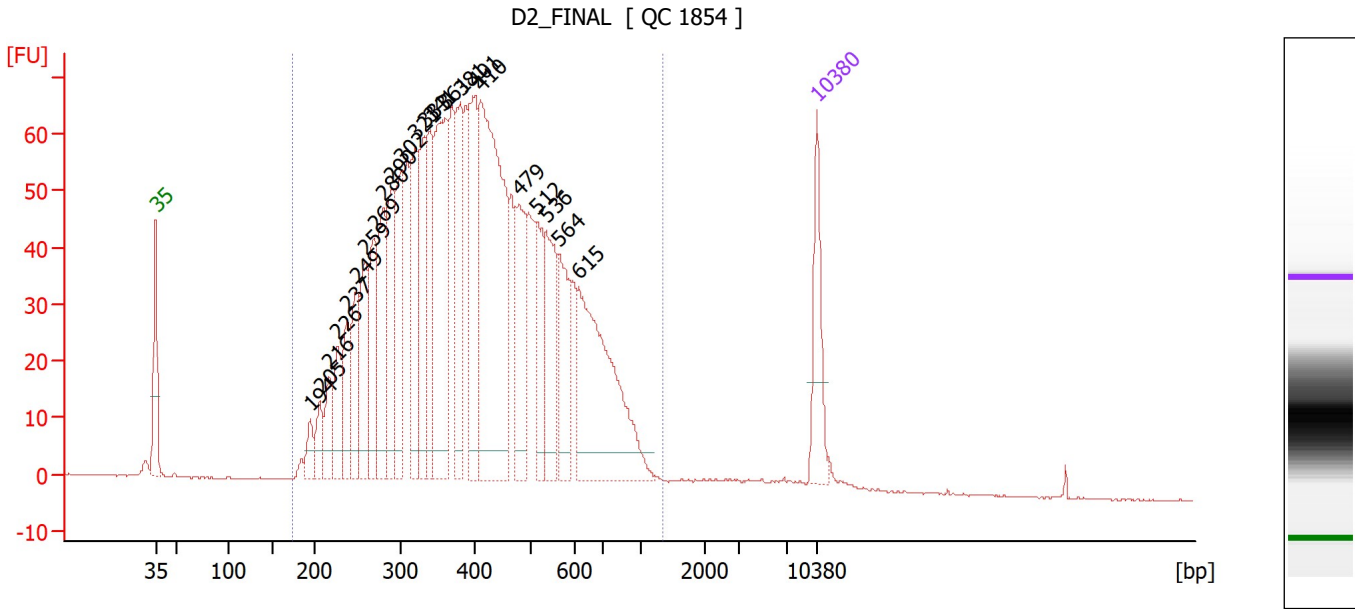
Region table for sample 2 : C2_FINAL

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
176	1,161	1,216.1	99	401	35.6	2,363.15	10,380.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
 Modified: 5/13/2024 5:10:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : D2_FINAL

Number of peaks found: 23 Corr. Area 1: 1,894.9
 Noise: 0.2

Peak table for sample 3 : D2_FINAL

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	194	34.31	267.7	
3	205	43.39	320.2	
4	216	58.73	411.9	
5	226	72.58	486.4	
6	237	85.94	548.4	
7	249	107.24	653.1	
8	259	122.68	718.1	
9	269	126.04	710.1	
10	280	138.56	749.1	
11	290	137.71	720.2	
12	302	133.66	670.8	
13	321	148.17	700.5	
14	333	139.13	633.7	
15	341	130.07	578.7	
16	361	275.44	1,155.2	
17	381	147.94	588.9	
18	401	173.35	655.3	
19	410	474.35	1,752.1	
20	479	129.64	410.3	
21	512	93.35	276.4	
22	536	122.25	345.9	
23	564	100.24	269.1	
24	615	296.57	730.2	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
Modified: 5/13/2024 5:10:22 PM

Electropherogram Summary Continued ...

... Region table for sample 3 :

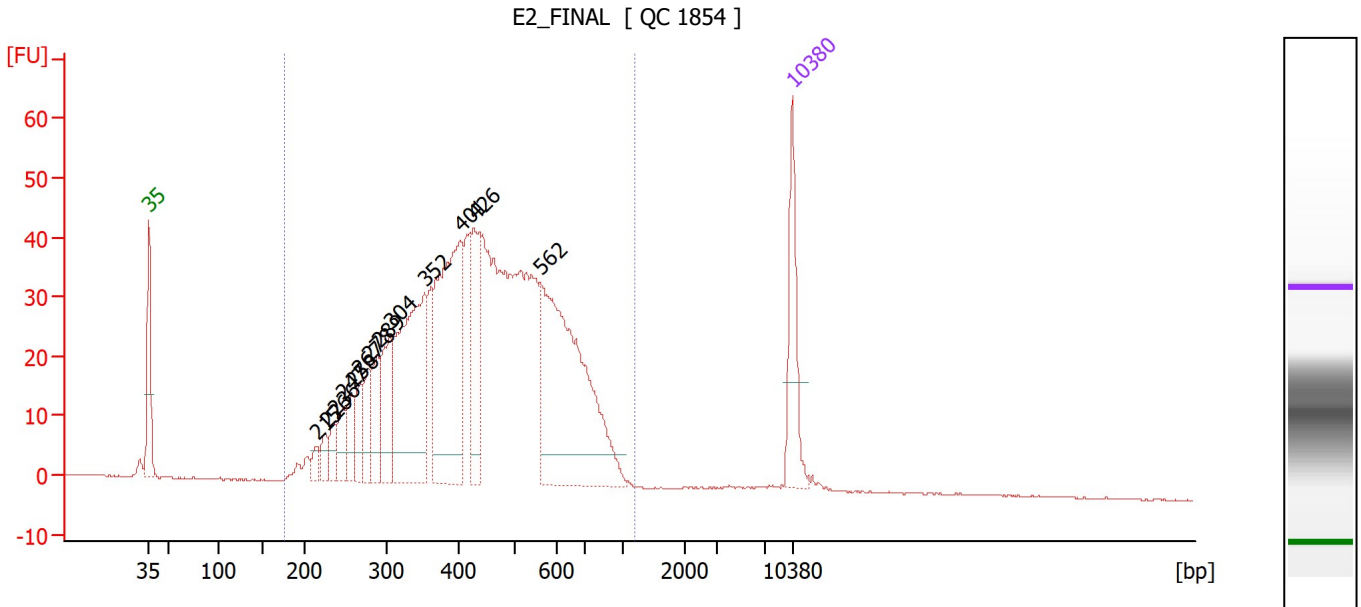
D2_FINAL

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
173	1,341	1,894.9	98	423	35.7	4,038.88	16,935.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
 Modified: 5/13/2024 5:10:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : E2_FINAL

Number of peaks found: 13 Corr. Area 1: 1,080.1
 Noise: 0.1

Peak table for sample 4 : E2_FINAL

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	215	18.01	126.9	
3	226	24.64	165.2	
4	236	26.72	171.8	
5	247	39.94	244.7	
6	258	44.69	262.8	
7	267	40.55	230.3	
8	278	52.30	285.4	
9	289	61.19	320.4	
10	304	86.90	433.1	
11	352	294.32	1,267.7	
12	401	308.37	1,164.4	
13	426	109.02	387.5	
14	562	384.80	1,036.7	
15	10,380	75.00	10.9	Upper Marker

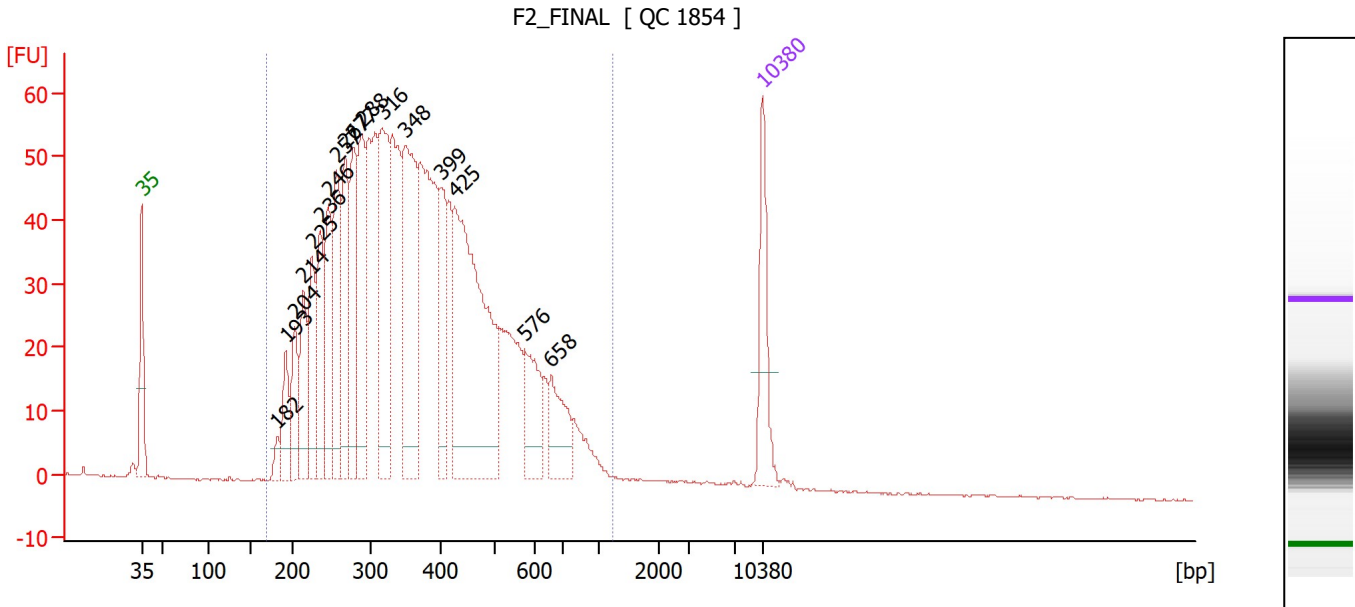
Region table for sample 4 : E2_FINAL

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
177	1,193	1,080.1	99	452	31.8	2,230.27	8,611.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
 Modified: 5/13/2024 5:10:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : F2_FINAL

Number of peaks found: 17 Corr. Area 1: 1,563.3
 Noise: 0.2

Peak table for sample 5 : F2_FINAL

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	182	19.69	163.8	
3	193	70.03	551.0	
4	204	80.03	595.2	
5	214	100.50	710.0	
6	225	118.97	800.5	
7	236	124.84	801.8	
8	246	135.73	836.1	
9	257	167.31	987.6	
10	267	152.57	864.4	
11	277	146.23	798.5	
12	288	171.57	902.0	
13	316	216.67	1,040.5	
14	348	260.41	1,132.9	
15	399	106.75	405.9	
16	425	436.49	1,556.0	
17	576	78.59	206.7	
18	658	70.17	161.6	
19	10,380	75.00	10.9	Upper Marker

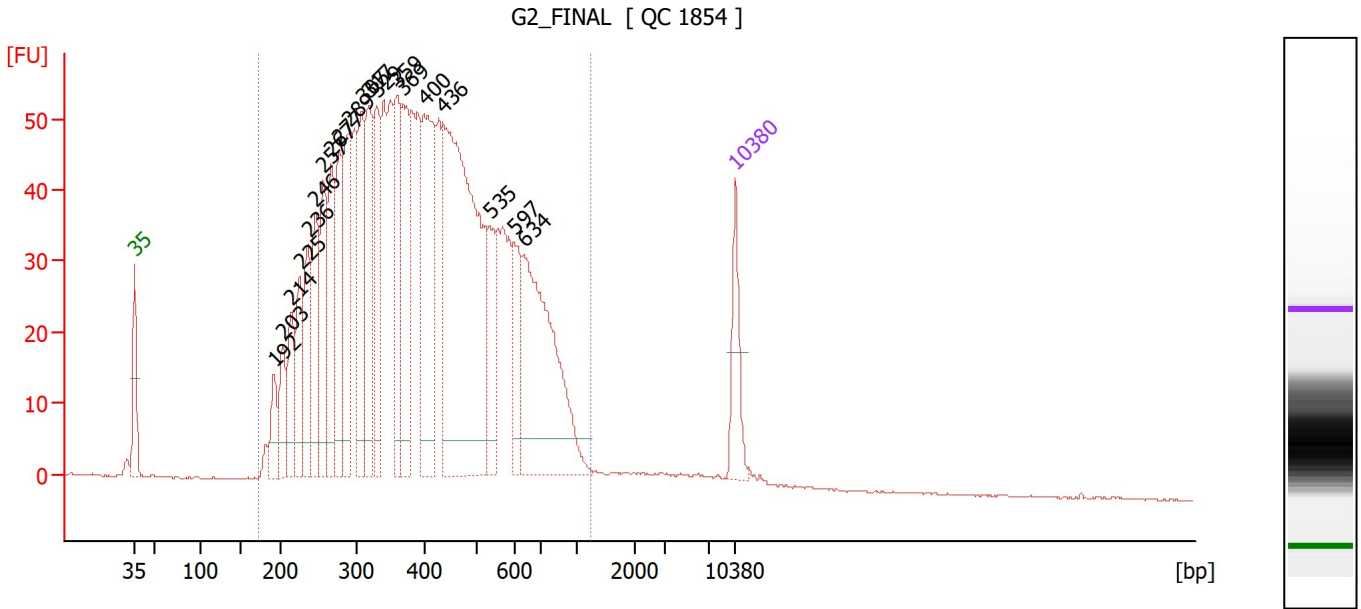
Region table for sample 5 : F2_FINAL

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
170	1,253	1,563.3	98	381	37.3	3,578.23	16,638.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
 Modified: 5/13/2024 5:10:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : G2_FINAL

Number of peaks found: 20 Corr. Area 1: 1,700.3
 Noise: 0.1

Peak table for sample 6 : G2_FINAL

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	192	71.06	559.5	
3	203	86.59	645.4	
4	214	110.79	783.0	
5	225	132.34	889.3	
6	236	154.03	989.5	
7	246	172.39	1,060.7	
8	257	189.14	1,116.6	
9	267	198.41	1,125.8	
10	277	177.88	971.5	
11	289	227.25	1,190.6	
12	307	202.56	998.4	
13	317	231.67	1,107.8	
14	329	183.22	842.6	
15	359	175.82	741.3	
16	369	220.83	907.2	
17	400	318.50	1,207.9	
18	436	816.17	2,839.4	
19	535	114.52	324.2	
20	597	96.83	245.7	
21	634	411.16	982.8	
22	10,380	75.00	10.9	Upper Marker

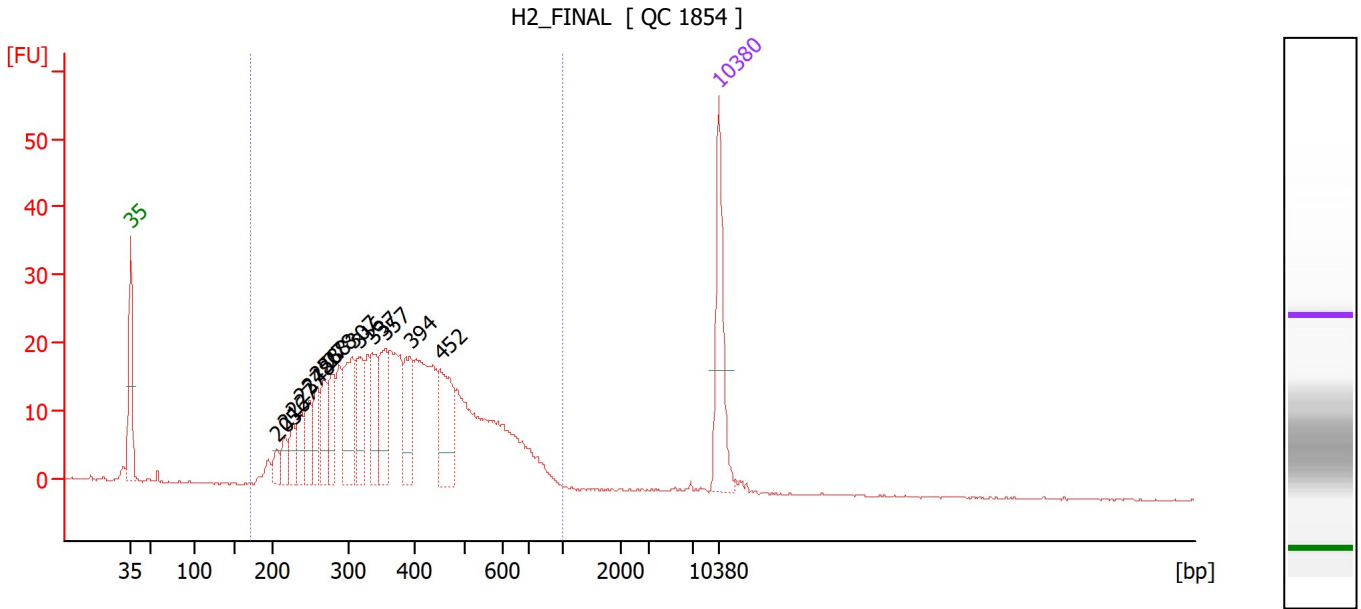
Region table for sample 6 : G2_FINAL

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
173	1,234	1,700.3	98	420	38.0	5,543.19	23,940.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
 Modified: 5/13/2024 5:10:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : H2_FINAL

Number of peaks found: 14 Corr. Area 1: 545.1
 Noise: 0.2

Peak table for sample 7 : H2_FINAL

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	205	17.06	125.8	
3	216	23.70	166.3	
4	227	27.71	184.7	
5	237	33.47	213.8	
6	248	38.57	235.8	
7	258	40.20	235.7	
8	268	50.25	283.7	
9	278	49.06	267.8	
10	307	89.94	444.4	
11	316	56.86	272.3	
12	337	48.39	217.4	
13	357	65.69	279.2	
14	394	57.44	221.2	
15	452	83.14	278.9	
16	10,380	75.00	10.9	Upper Marker

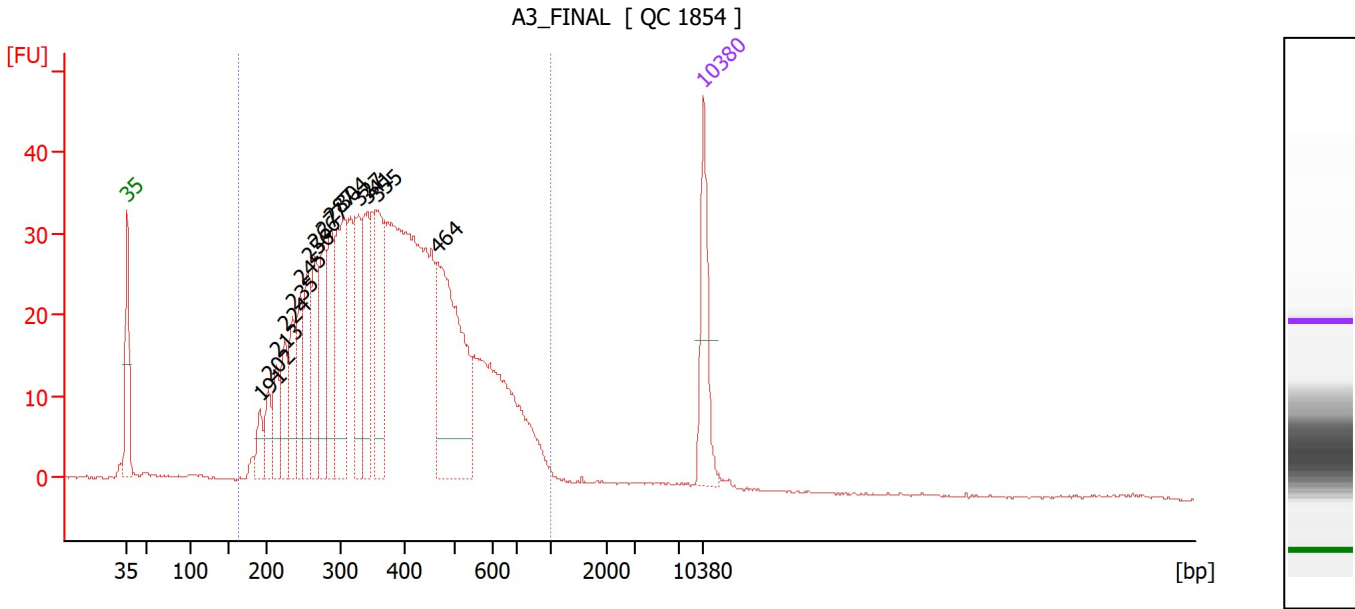
Region table for sample 7 : H2_FINAL

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
172	1,000	545.1	98	398	32.7	1,267.35	5,535.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
 Modified: 5/13/2024 5:10:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : A3_FINAL

Number of peaks found: 15 Corr. Area 1: 961.4
 Noise: 0.1

Peak table for sample 8 : A3_FINAL

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	191	34.48	272.8	
3	202	43.58	326.8	
4	213	56.27	400.5	
5	224	68.14	460.0	
6	235	79.43	511.4	
7	245	84.03	518.8	
8	256	99.10	586.0	
9	266	98.47	560.1	
10	277	103.01	563.1	
11	287	114.58	604.2	
12	304	186.08	928.6	
13	327	106.19	491.4	
14	341	111.05	492.9	
15	355	122.51	523.6	
16	464	274.88	897.3	
17	10,380	75.00	10.9	Upper Marker

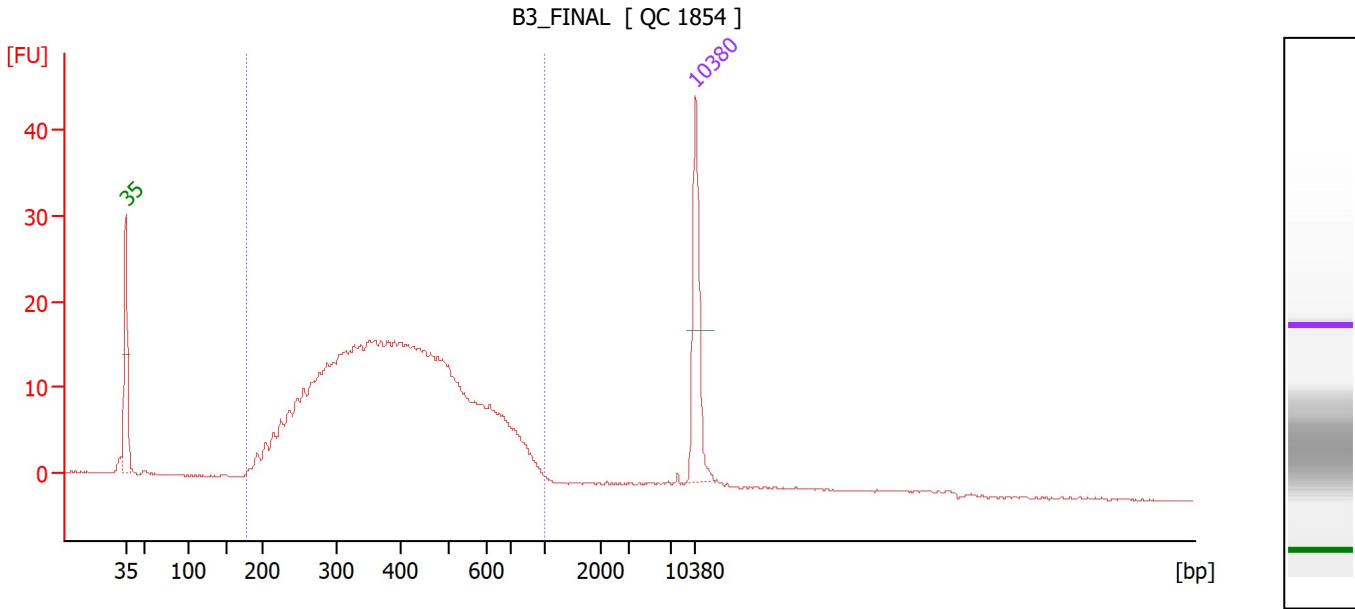
Region table for sample 8 : A3_FINAL

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
164	1,000	961.4	97	395	34.8	2,642.78	11,805.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
 Modified: 5/13/2024 5:10:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : B3_FINAL

Number of peaks found: 0 Corr. Area 1: 467.4
 Noise: 0.1

Peak table for sample 9 : B3_FINAL

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

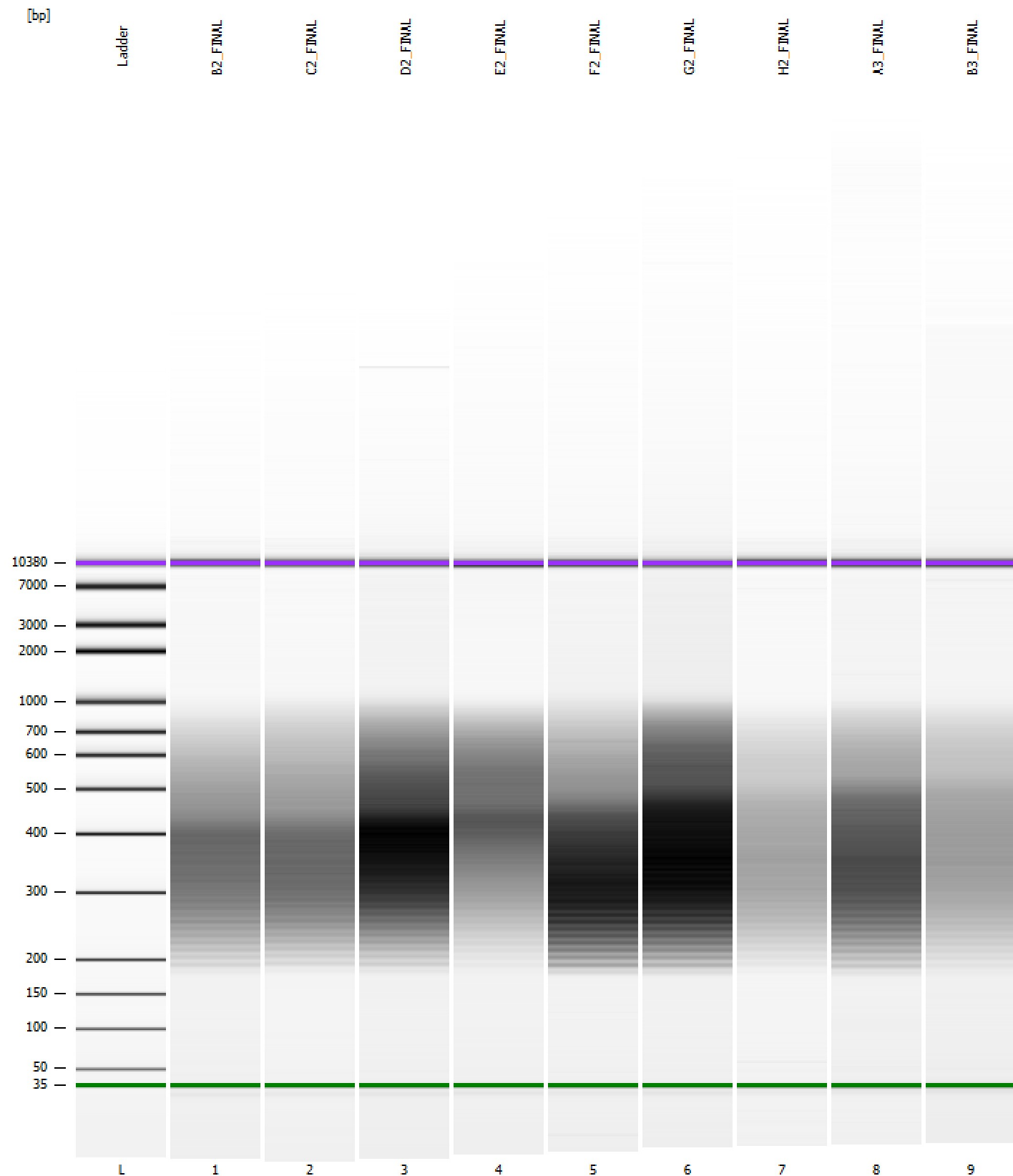
Region table for sample 9 : B3_FINAL

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
178	1,000	467.4	97	415	34.0	1,392.49	5,917.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
Modified: 5/13/2024 5:10:22 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-05-13\QC1854_12-20.xad

Created: 5/13/2024 4:18:19 PM
 Modified: 5/13/2024 5:10:22 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		5/13/2024 4:59:40 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\2024-05-13\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2024-05-13_001.xad)		Instrument	Run		5/13/2024 4:18:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		5/13/2024 4:18:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		5/13/2024 4:18:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		5/13/2024 4:18:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		5/13/2024 4:18:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		5/13/2024 4:18:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		5/13/2024 4:18:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB