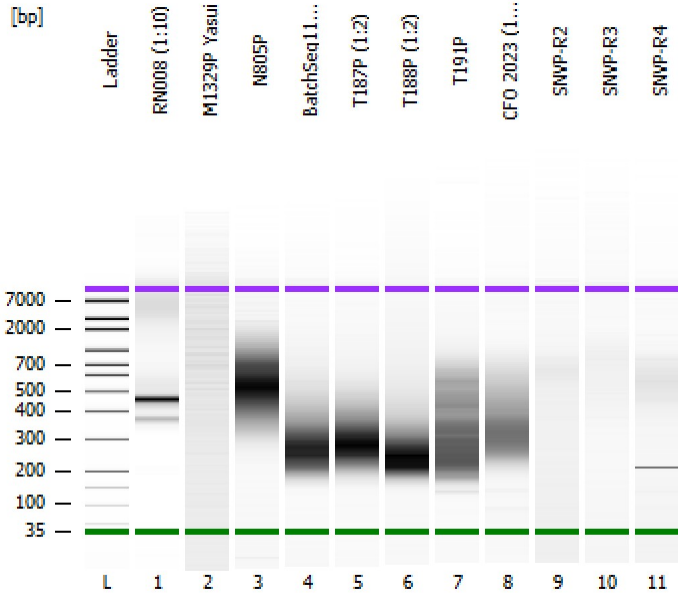


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
Modified: 2/24/2023 1:40:43 PM

Electrophoresis File Run Summary



Instrument Information:

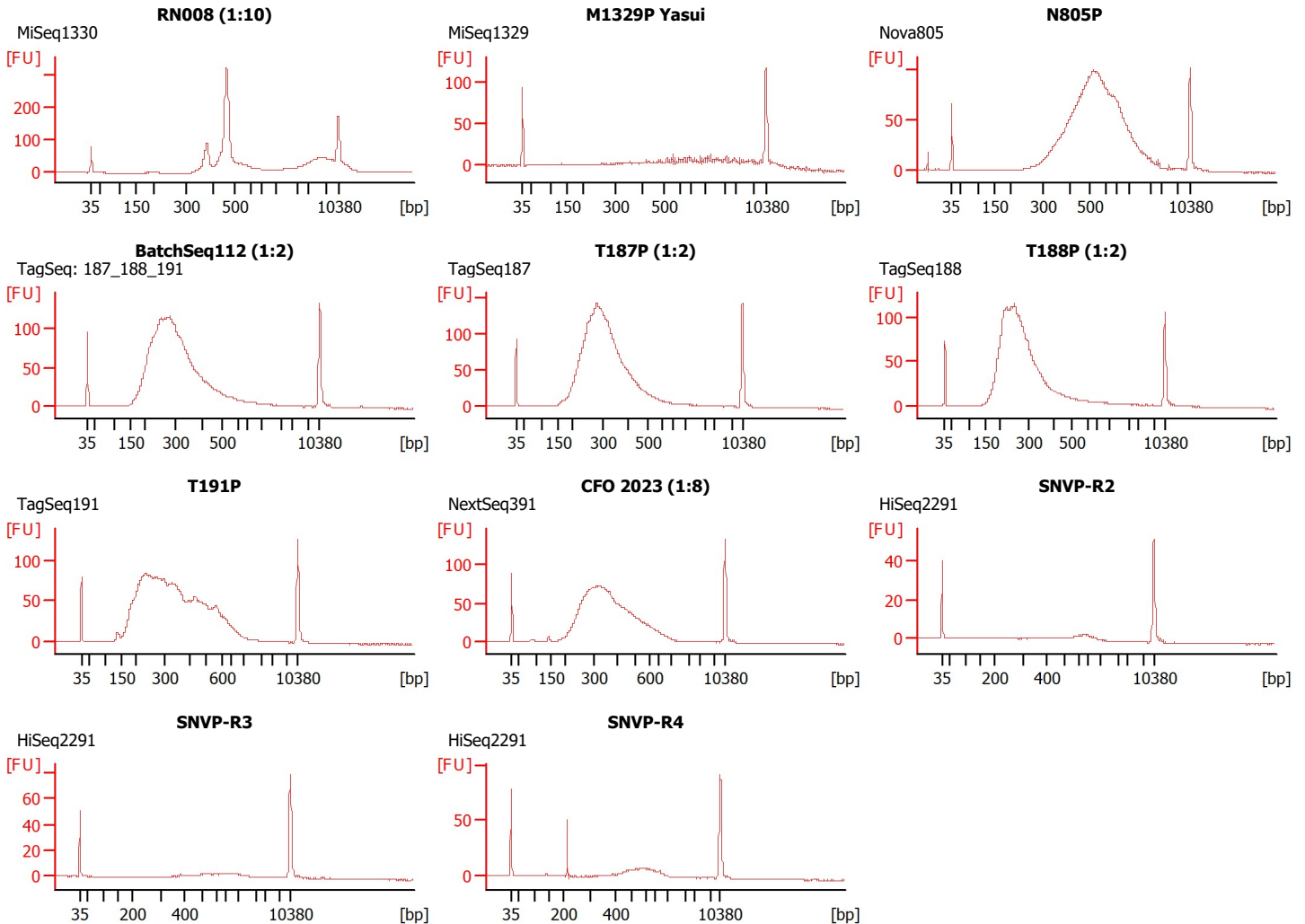
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
RN008 (1:10)	MiSeq1330	<input type="checkbox"/>		✓		
M1329P Yasui	MiSeq1329	<input type="checkbox"/>		✓		
N805P	Nova805	<input type="checkbox"/>		✓		
BatchSeq112 (1:2)	TagSeq: 187_188_191	<input type="checkbox"/>		✓		
T187P (1:2)	TagSeq187	<input type="checkbox"/>		✓		
T188P (1:2)	TagSeq188	<input type="checkbox"/>		✓		
T191P	TagSeq191	<input type="checkbox"/>		✓		
CFO 2023 (1:8)	NextSeq391	<input type="checkbox"/>		✓		
SNVP-R2	HiSeq2291	<input type="checkbox"/>		✓		
SNVP-R3	HiSeq2291	<input type="checkbox"/>		✓		
SNVP-R4	HiSeq2291	<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 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

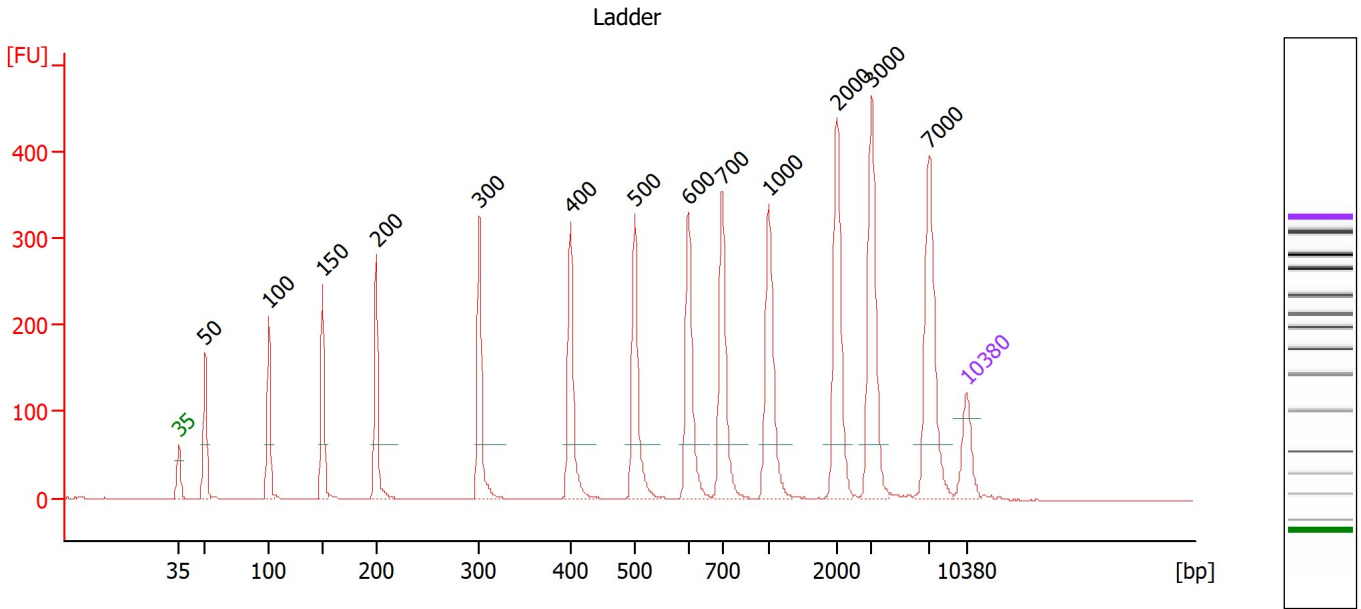
Ladder

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:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

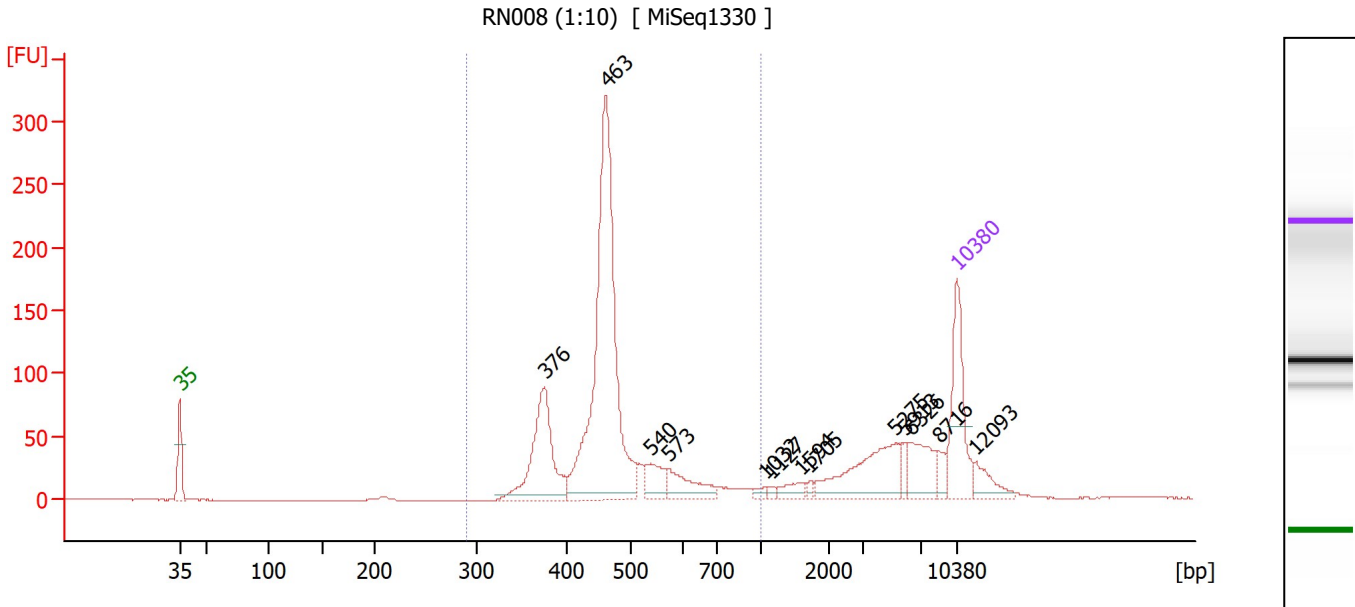
Peak table for Ladder

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:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : RN008 (1:10)

Number of peaks found: 13 Corr. Area 1: 1,235.4
 Noise: 0.2

Peak table for sample 1 : RN008 (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	376	145.55	587.0	
3	463	451.99	1,479.8	
4	540	31.81	89.2	
5	573	42.13	111.5	
6	1,032	4.79	7.0	
7	1,127	3.58	4.8	
8	1,594	12.81	12.2	
9	1,705	3.72	3.3	
10	5,275	86.69	24.9	
11	5,913	10.90	2.8	
12	6,326	42.82	10.3	
13	8,716	10.63	1.8	
14	10,380	75.00	10.9	Upper Marker
15	12,093	0.00	0.0	

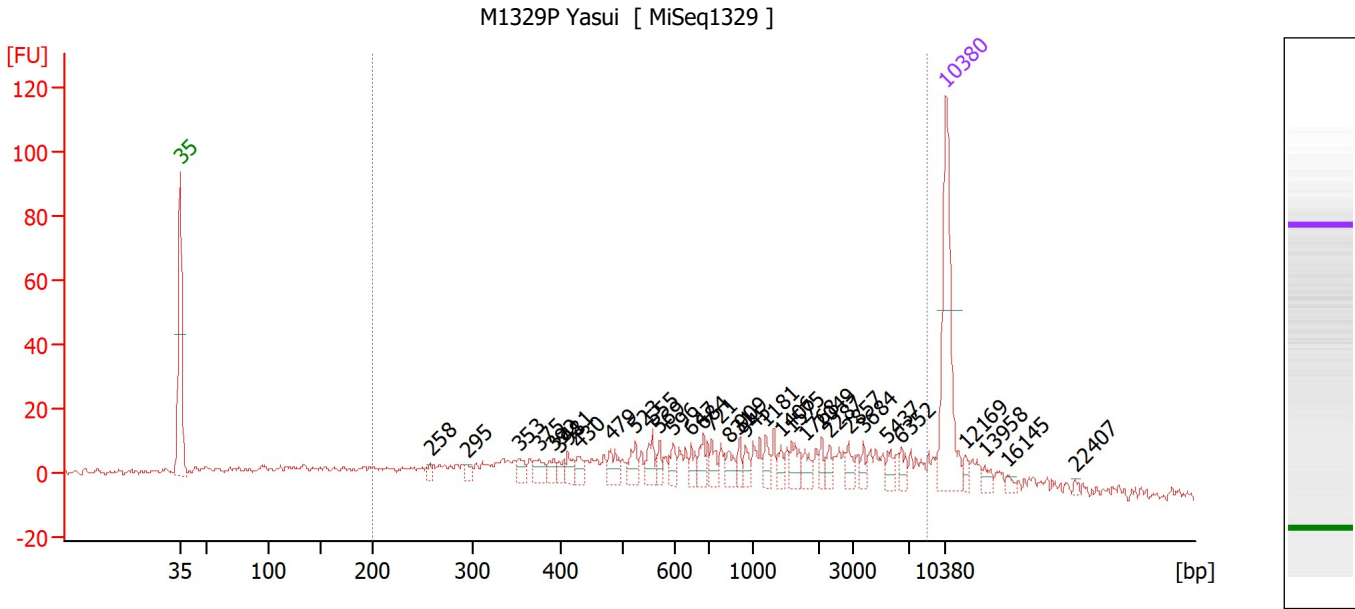
Region table for sample 1 : RN008 (1:10)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
290	1,000	1,235.4	73	472	19.6	683.30	2,277.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : M1329P Yasui

Number of peaks found: 33 Corr. Area 1: 418.6
 Noise: 1.0

Peak table for sample 2 : M1329P Yasui

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	258	5.40	31.7	
3	295	5.86	30.1	
4	353	9.37	40.2	
5	375	10.75	43.4	
6	392	8.69	33.6	
7	398	5.63	21.4	
8	411	9.69	35.7	
9	430	9.14	32.2	
10	479	14.39	45.5	
11	523	12.45	36.1	
12	555	12.96	35.4	
13	569	7.39	19.7	
14	596	8.87	22.5	
15	647	8.84	20.7	
16	684	12.46	27.6	
17	721	10.26	21.6	
18	831	9.99	18.2	
19	909	6.51	10.9	
20	945	6.84	11.0	
21	1,181	7.76	10.0	
22	1,406	5.84	6.3	
23	1,575	11.53	11.1	
24	1,768	7.78	6.7	
25	2,049	6.12	4.5	
26	2,287	5.63	3.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : M1329P Yasui

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,857	7.04	3.7	
28	3,684	5.11	2.1	
29	5,437	6.21	1.7	
30	6,352	6.83	1.6	
31	10,380	75.00	10.9	Upper Marker
32	12,169	0.00	0.0	
33	13,958	0.00	0.0	
34	16,145	0.00	0.0	
35	22,407	0.00	0.0	

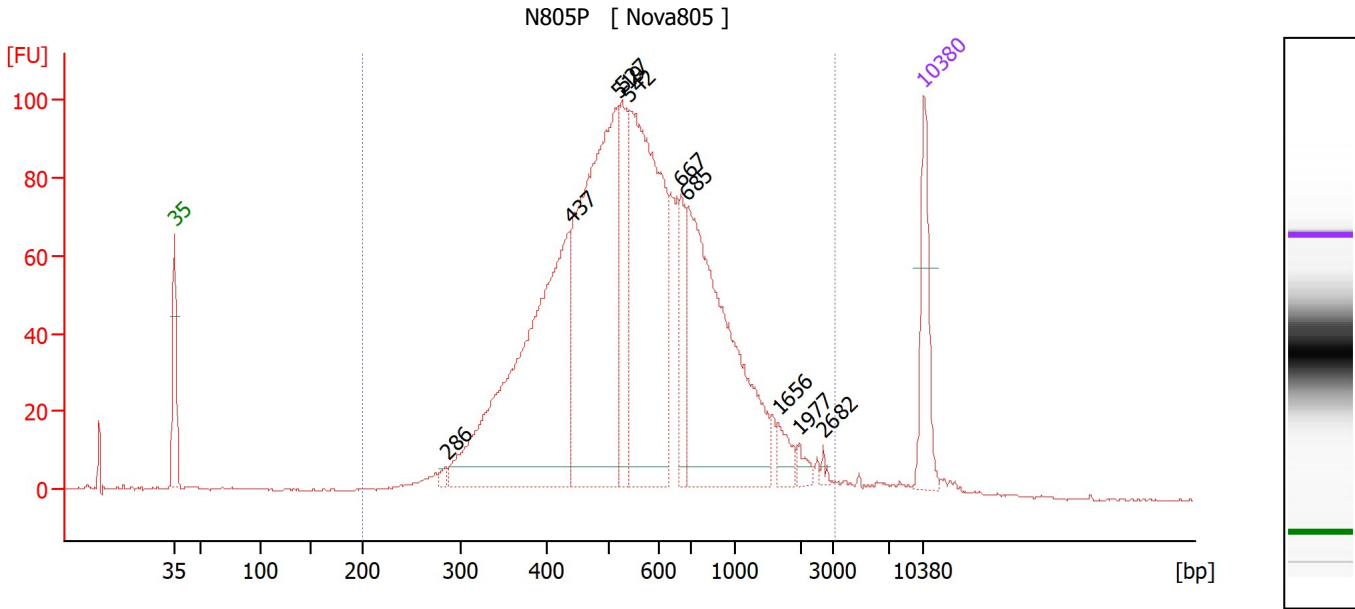
Region table for sample 2 : M1329P Yasui

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	8,590	418.6	80	1,654	100.0	399.09	1,103.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : N805P

Number of peaks found: 10 Corr. Area 1: 2,085.4
 Noise: 0.2

Peak table for sample 3 : N805P

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	286	7.98	42.4	
3	437	597.78	2,071.7	
4	519	577.06	1,685.9	
5	527	139.97	402.4	
6	542	475.34	1,329.5	
7	667	74.86	170.1	
8	685	462.20	1,022.8	
9	1,656	21.82	20.0	
10	1,977	11.95	9.2	
11	2,682	4.63	2.6	
12	10,380	75.00	10.9	Upper Marker

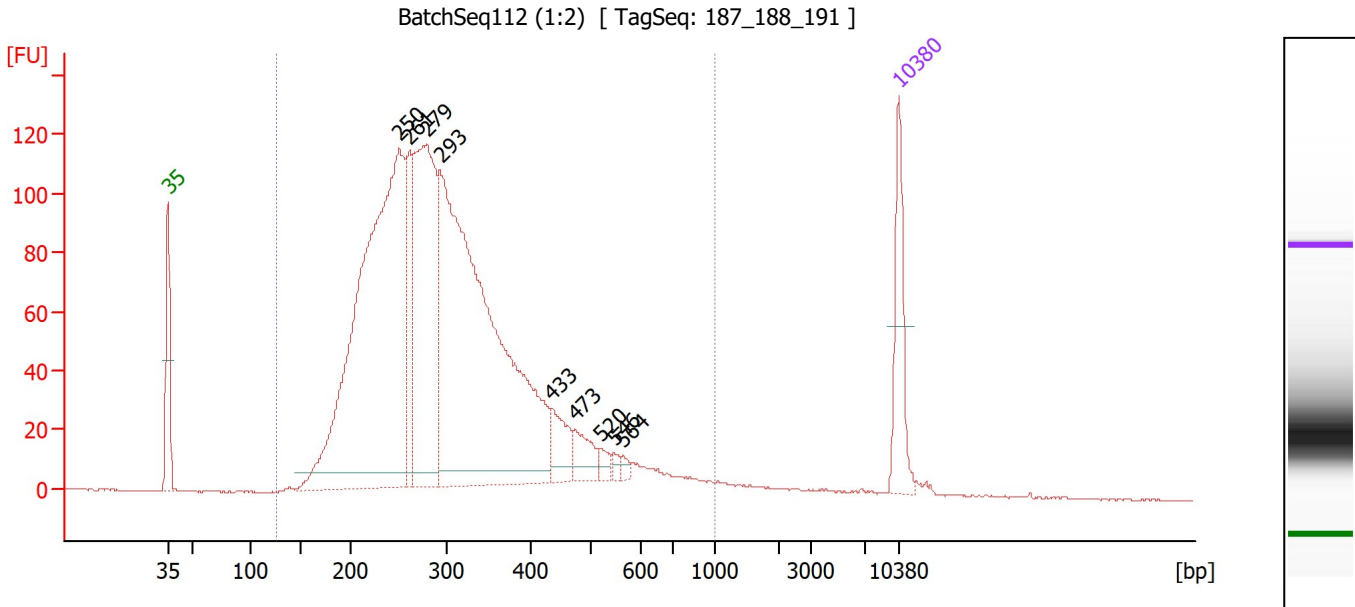
Region table for sample 3 : N805P

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	3,119	2,085.4	97	640	56.2	2,628.44	7,758.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : BatchSeq112 (1:2)

Number of peaks found: 9 Corr. Area 1: 2,612.3
 Noise: 0.2

Peak table for sample 4 : BatchSeq112 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	250	995.75	6,030.2	
3	261	127.59	741.2	
4	279	440.96	2,392.6	
5	293	1,001.11	5,183.2	
6	433	52.80	184.7	
7	473	39.93	127.9	
8	520	12.28	35.8	
9	546	7.45	20.7	
10	564	6.86	18.4	
11	10,380	75.00	10.9	Upper Marker

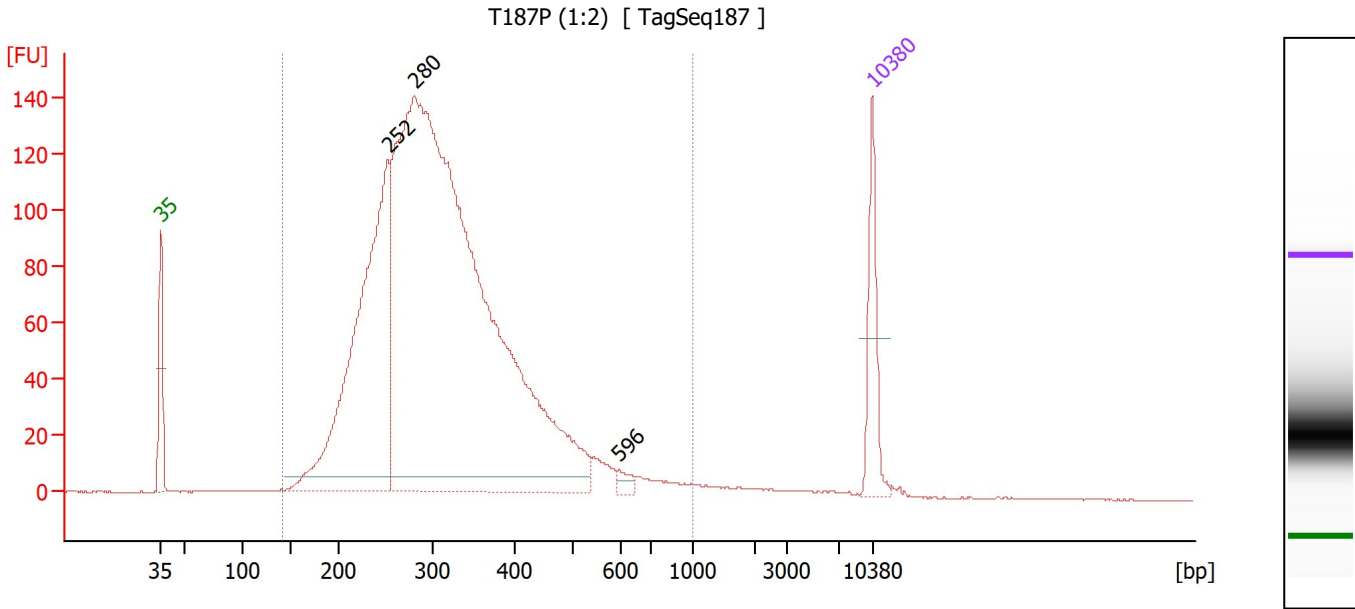
Region table for sample 4 : BatchSeq112 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
126	1,000	2,612.3	98	314	35.0	2,832.43	15,417.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : T187P (1:2)

Number of peaks found: 3 Corr. Area 1: 2,789.5
 Noise: 0.2

Peak table for sample 5 : T187P (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	252	723.31	4,343.3	
3	280	2,265.06	12,237.0	
4	596	13.05	33.2	
5	10,380	75.00	10.9	Upper Marker

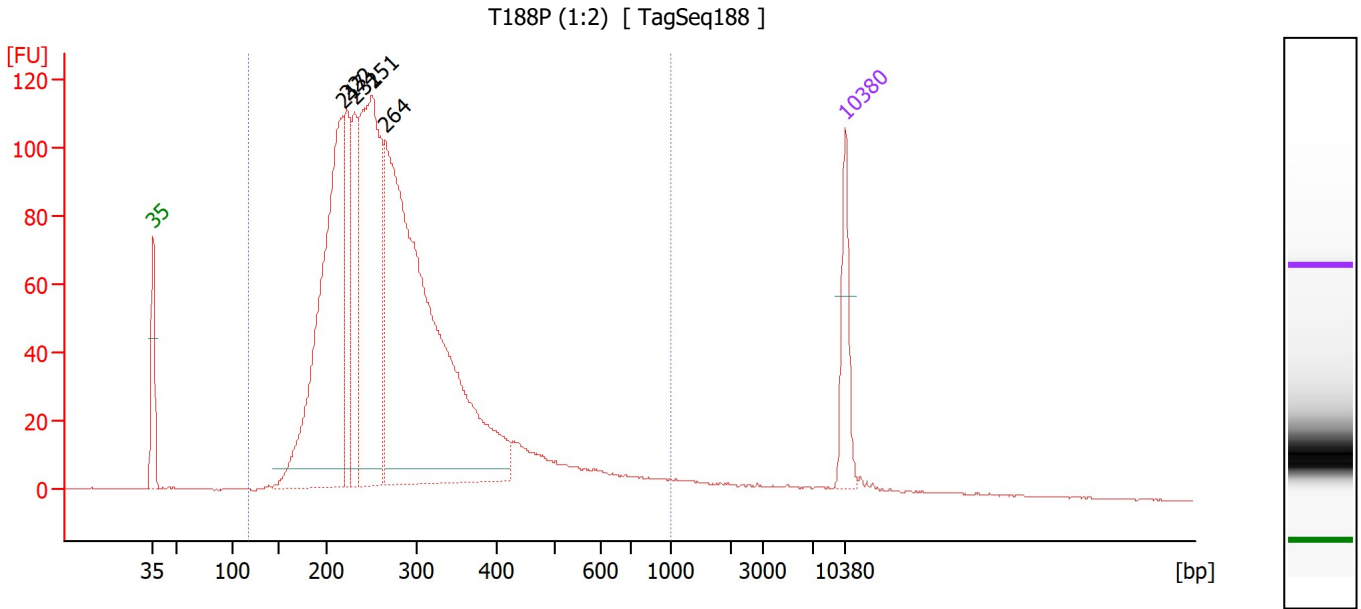
Region table for sample 5 : T187P (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
141	1,000	2,789.5	97	322	31.4	2,928.55	15,234.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : T188P (1:2)

Number of peaks found: 5 Corr. Area 1: 2,199.1
 Noise: 0.2

Peak table for sample 6 : T188P (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	217	771.39	5,384.7	
3	222	211.04	1,438.0	
4	231	190.50	1,251.6	
5	251	656.28	3,967.0	
6	264	1,324.48	7,595.1	
7	10,380	75.00	10.9	Upper Marker

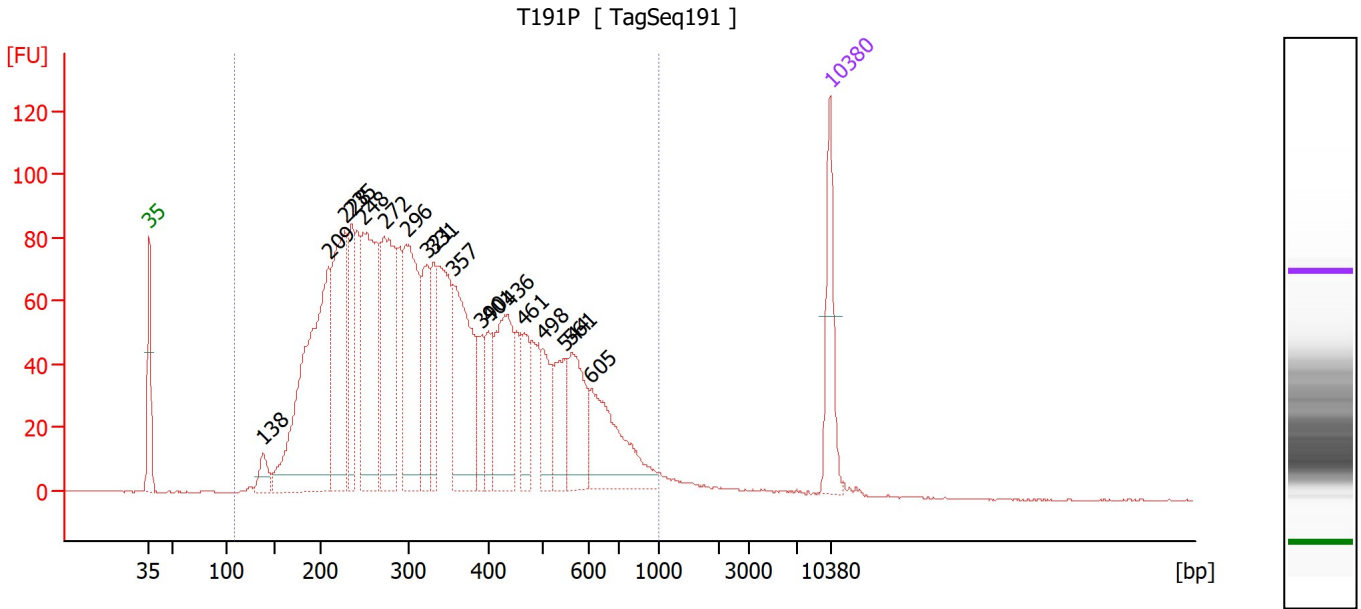
Region table for sample 6 : T188P (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
118	1,000	2,199.1	96	290	37.5	3,374.68	19,802.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : T191P

Number of peaks found: 18 Corr. Area 1: 2,788.0
 Noise: 0.2

Peak table for sample 7 : T191P

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	138	36.59	400.7	
3	209	482.33	3,492.2	
4	228	278.40	1,851.2	
5	235	131.55	848.0	
6	248	316.13	1,929.5	
7	272	260.46	1,449.6	
8	296	239.16	1,223.3	
9	321	116.39	548.6	
10	331	83.49	382.3	
11	357	216.52	919.8	
12	390	49.96	194.2	
13	401	53.51	202.2	
14	436	153.98	534.7	
15	461	64.25	211.1	
16	498	57.28	174.4	
17	544	76.16	211.9	
18	561	103.93	280.9	
19	605	137.27	343.5	
20	10,380	75.00	10.9	Upper Marker

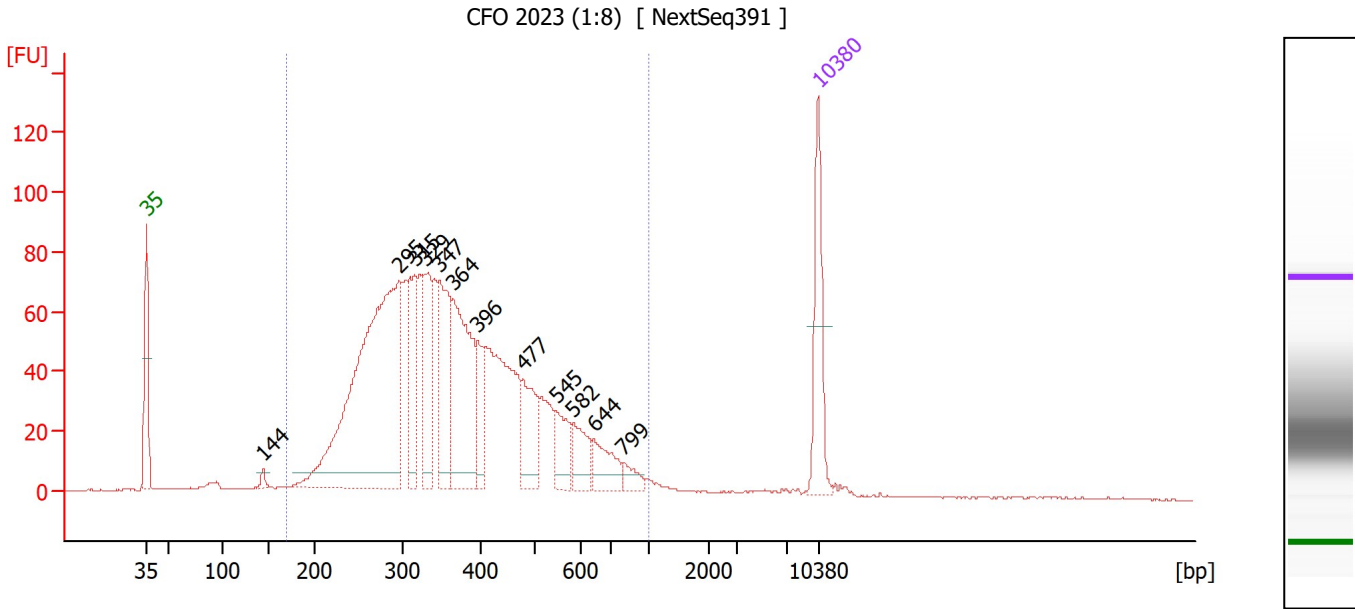
Region table for sample 7 : T191P

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
107	1,000	2,788.0	98	358	40.7	3,426.71	17,913.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : CFO 2023 (1:8)

Number of peaks found: 12 Corr. Area 1: 1,858.1
 Noise: 0.2

Peak table for sample 8 : CFO 2023 (1:8)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	144	8.29	87.6	
3	295	576.44	2,958.1	
4	315	106.39	512.5	
5	329	103.87	478.5	
6	347	124.65	544.6	
7	364	192.82	802.8	
8	396	50.38	192.7	
9	477	76.91	244.3	
10	545	40.46	112.5	
11	582	41.23	107.3	
12	644	40.38	95.0	
13	799	14.75	28.0	
14	10,380	75.00	10.9	Upper Marker

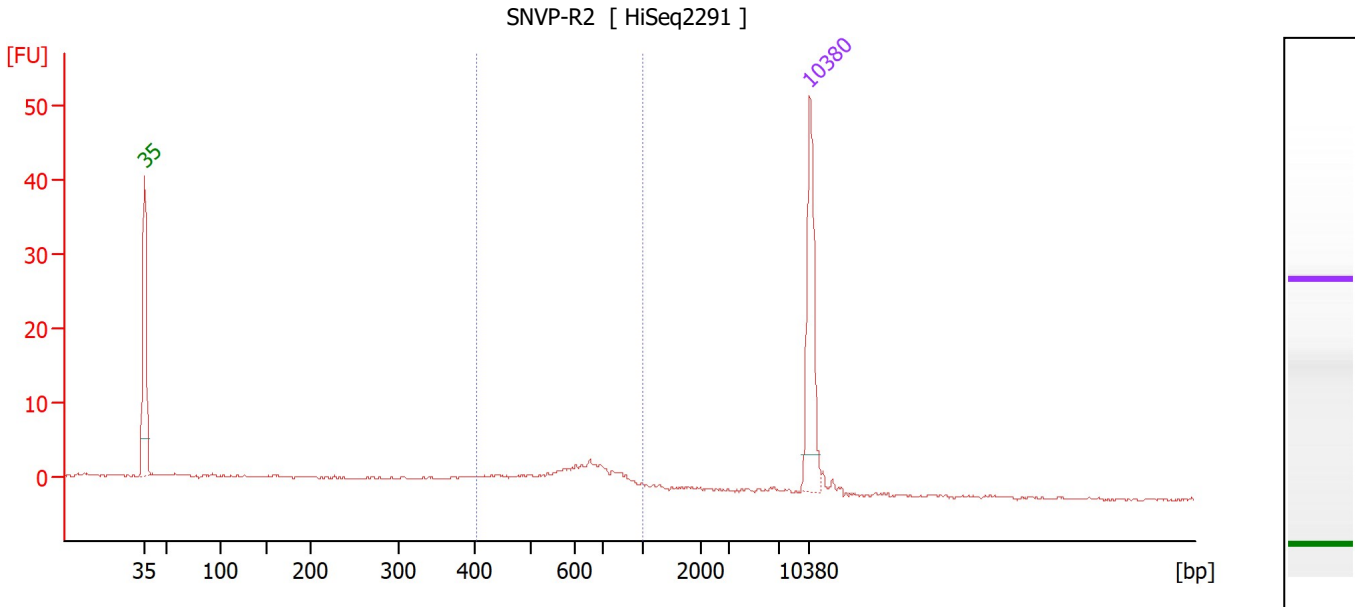
Region table for sample 8 : CFO 2023 (1:8)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
170	1,000	1,858.1	95	383	33.9	1,954.51	8,814.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : SNVP-R2

Number of peaks found: 0 Corr. Area 1: 34.5
 Noise: 0.2

Peak table for sample 9 : SNVP-R2

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

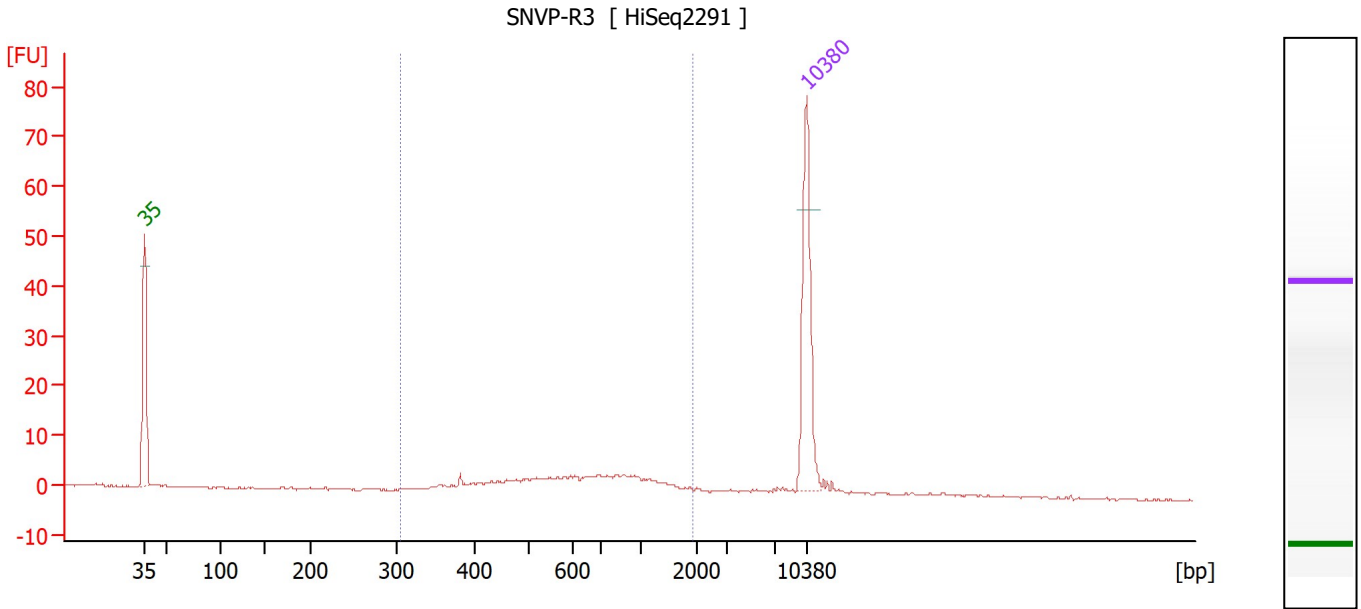
Region table for sample 9 : SNVP-R2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
402	1,000	34.5	50	614	21.5	82.16	214.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : SNVP-R3

Number of peaks found: 0 Corr. Area 1: 72.2
 Noise: 0.2

Peak table for sample 10 : SNVP-R3

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

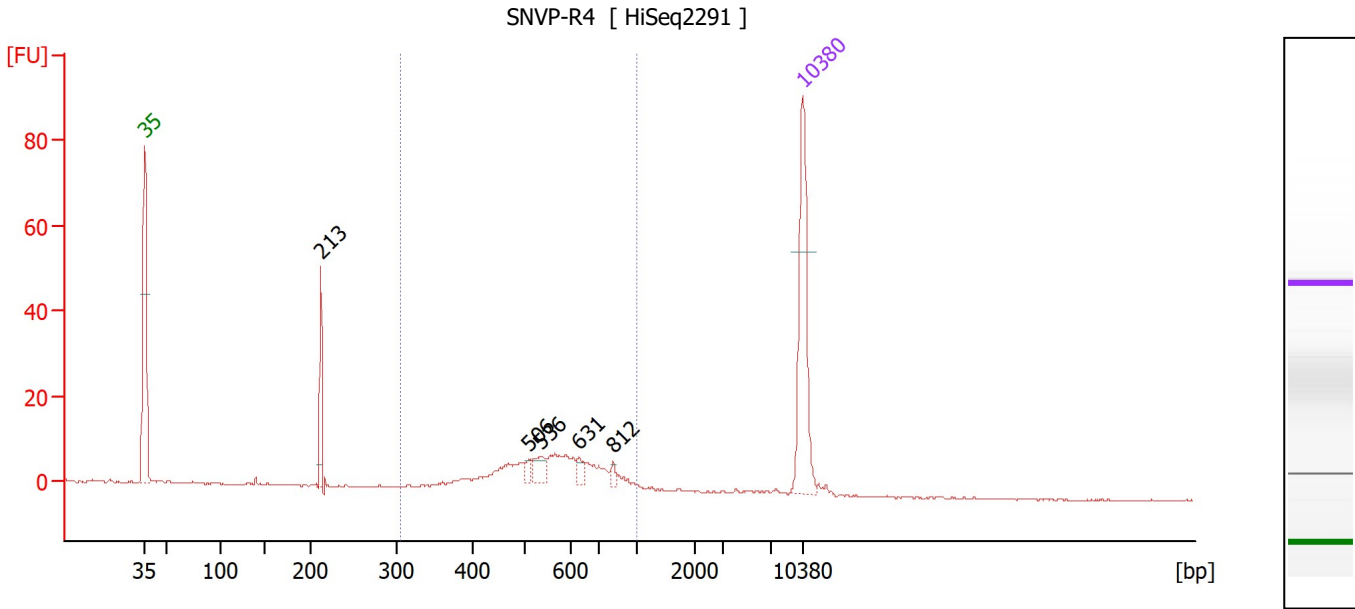
Region table for sample 10 : SNVP-R3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
304	1,929	72.2	74	733	46.7	105.47	271.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : SNVP-R4

Number of peaks found: 5 Corr. Area 1: 117.0
 Noise: 0.2

Peak table for sample 11 : SNVP-R4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	213	41.28	294.0	
3	506	5.74	17.2	
4	536	12.18	34.4	
5	631	7.03	16.9	
6	812	4.22	7.9	
7	10,380	75.00	10.9	Upper Marker

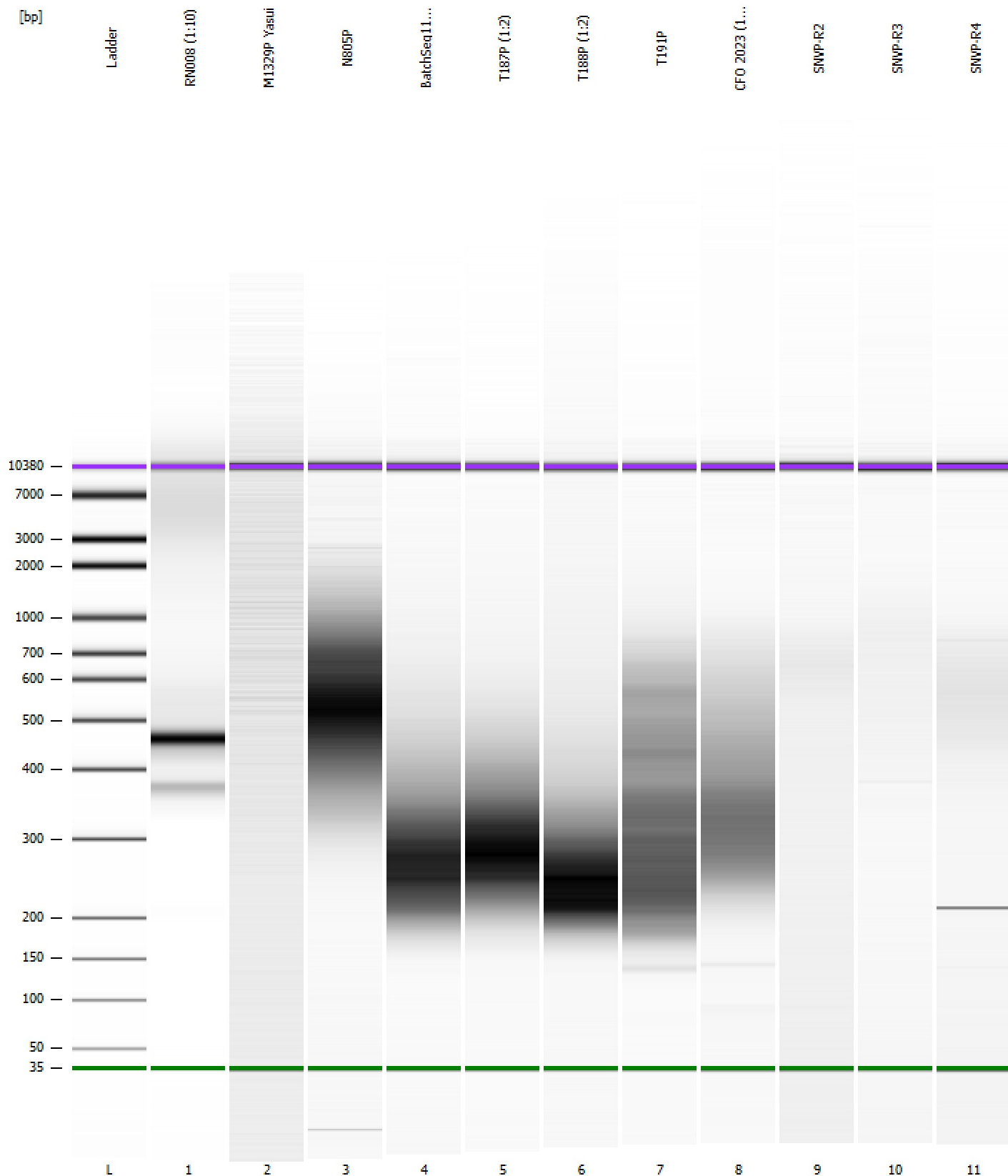
Region table for sample 11 : SNVP-R4

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
306	1,000	117.0	75	575	23.0	150.33	423.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
Modified: 2/24/2023 1:40:43 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad

Created: 2/24/2023 12:55:52 PM
 Modified: 2/24/2023 1:40:43 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		2/24/2023 1:37:13 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-02-24\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-24_001.xad)		Instrument	Run		2/24/2023 12:55:58 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		2/24/2023 12:55:58 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		2/24/2023 12:55:58 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		2/24/2023 12:55:58 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		2/24/2023 12:55:58 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		2/24/2023 12:55:58 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		2/24/2023 12:55:58 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB