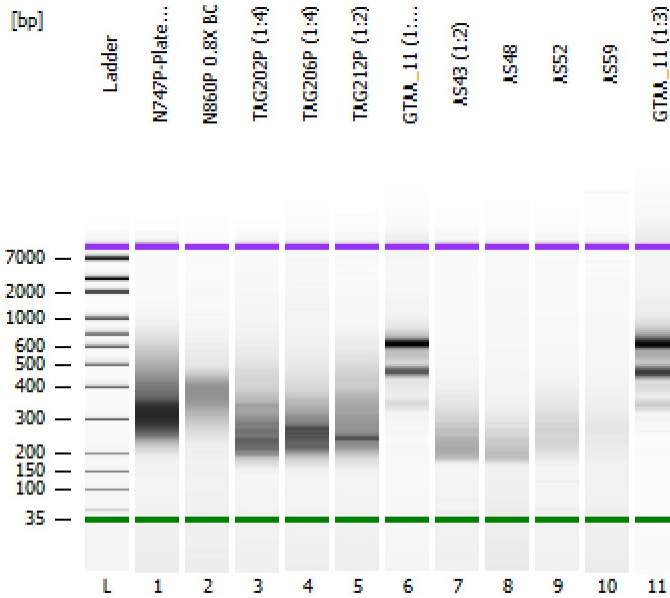


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electrophoresis File Run Summary



Instrument Information:

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

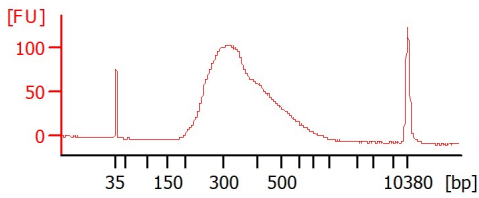
Assay Information:

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

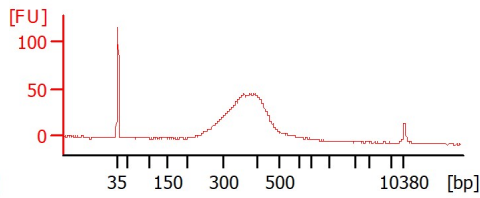
Chip Information:

Chip Lot #:
 Reagent Kit Lot #:
 Chip Comments:

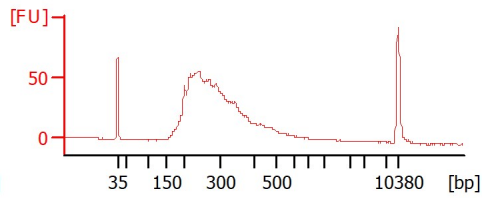
N747P-Plate7-B repool 1xBC



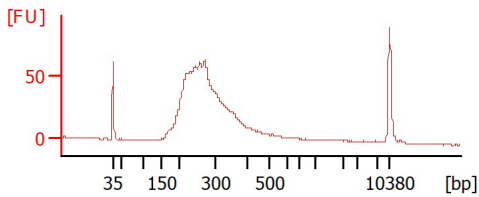
N860P 0.8X BC



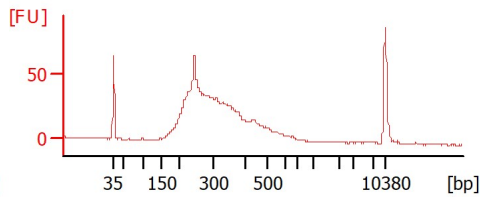
TAG202P (1:4)



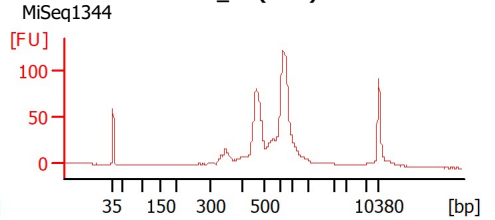
TAG206P (1:4)



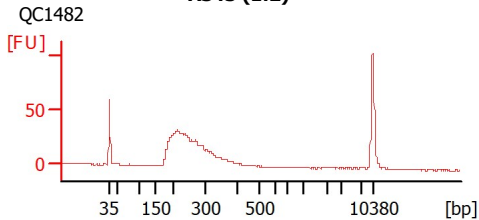
TAG212P (1:2)



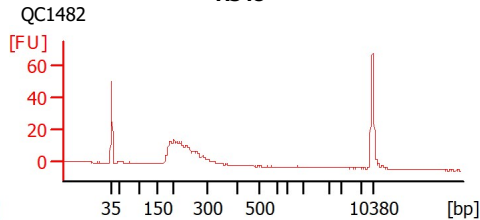
GTAA_11 (1:10)



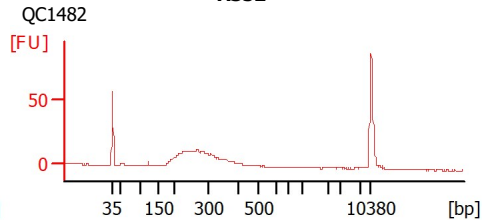
AS43 (1:2)



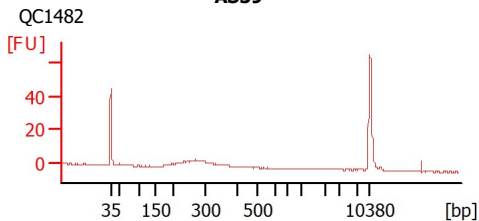
AS48



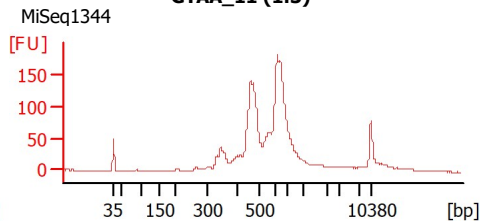
AS52



AS59



GTAA_11 (1:3)



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
N747P-Plate7-B repool 1xBC		<input type="checkbox"/>	✓			
N860P 0.8X BC		<input type="checkbox"/>	✓			
TAG202P (1:4)		<input type="checkbox"/>	✓			
TAG206P (1:4)		<input type="checkbox"/>	✓			
TAG212P (1:2)		<input type="checkbox"/>	✓			
GTAA_11 (1:10)	MiSeq1344	<input type="checkbox"/>	✓			
AS43 (1:2)	QC1482	<input type="checkbox"/>	✓			
AS48	QC1482	<input type="checkbox"/>	✓			
AS52	QC1482	<input type="checkbox"/>	✓			
AS59	QC1482	<input type="checkbox"/>	✓			
GTAA_11 (1:3)	MiSeq1344	<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_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 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

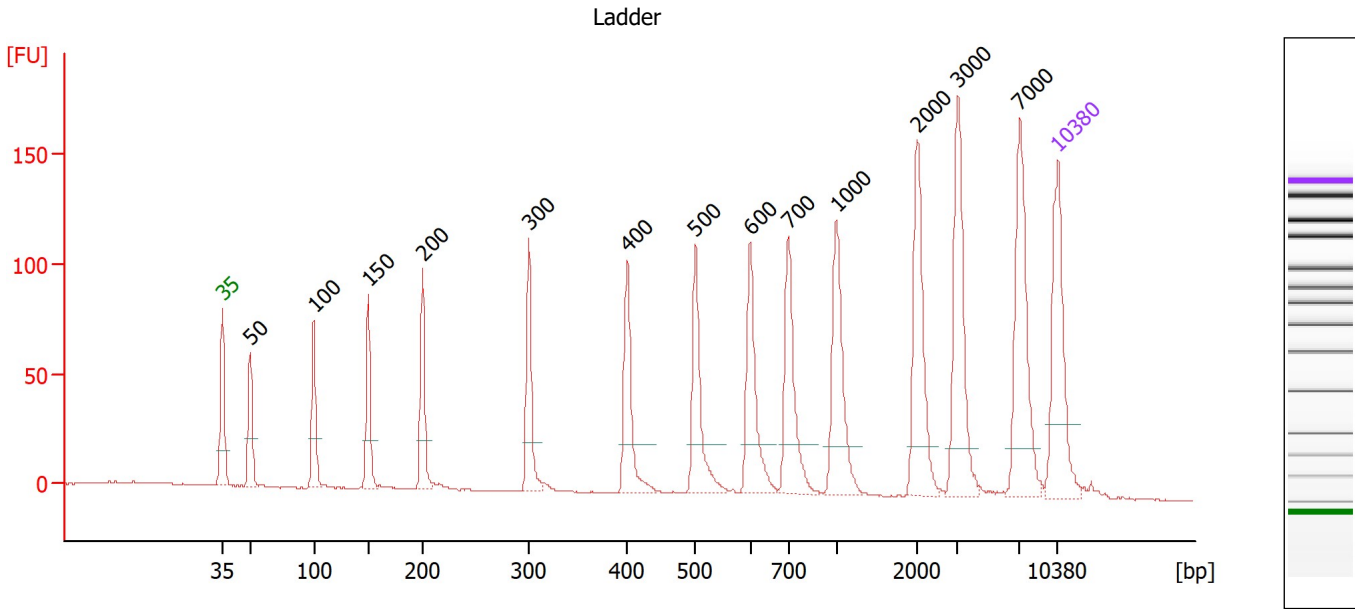
Ladder

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_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

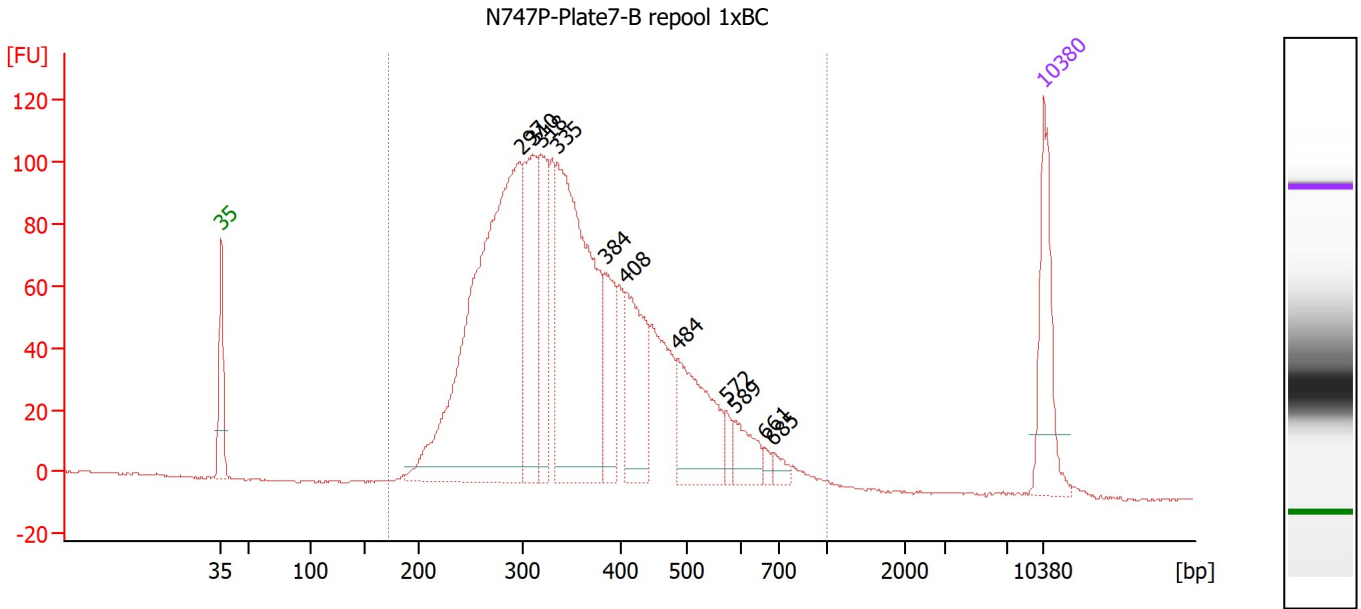
Peak table for Ladder

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_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : N747P-Plate7-B repool 1xBC

Number of peaks found: 11 Corr. Area 1: 2,391.9
 Noise: 0.4

Peak table for sample 1 : N747P-Plate7-B repool 1xBC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	297	673.49	3,437.7	
3	310	181.85	887.9	
4	318	135.74	646.7	
5	335	422.05	1,908.7	
6	384	80.12	315.8	
7	408	126.17	468.9	
8	484	132.09	413.7	
9	572	12.62	33.4	
10	589	36.25	93.2	
11	661	7.53	17.3	
12	685	11.60	25.7	
13	10,380	75.00	10.9	Upper Marker

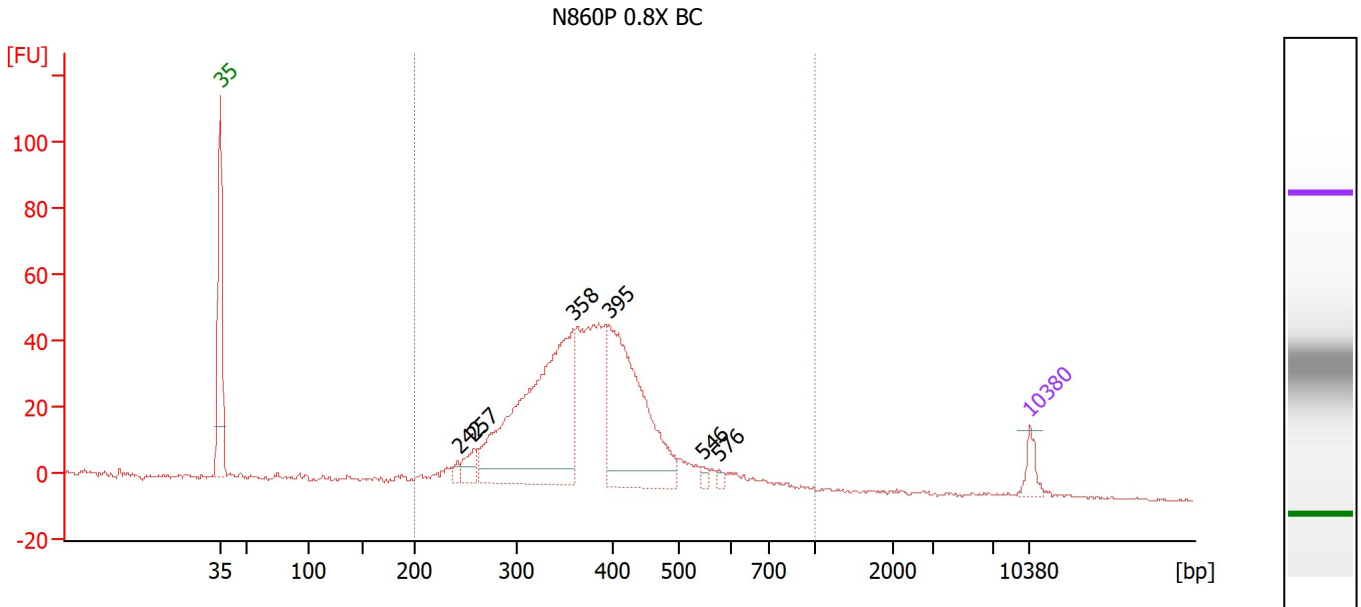
Region table for sample 1 : N747P-Plate7-B repool 1xBC

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	2,391.9	99	368	30.1	2,111.19	9,626.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : N860P 0.8X BC

Number of peaks found: 6 Corr. Area 1: 815.4
 Noise: 0.4

Peak table for sample 2 : N860P 0.8X BC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	242	46.43	290.4	
3	257	131.21	772.7	
4	358	2,118.51	8,957.7	
5	395	1,459.96	5,598.2	
6	546	36.03	100.0	
7	576	30.67	80.7	
8	10,380	75.00	10.9	Upper Marker

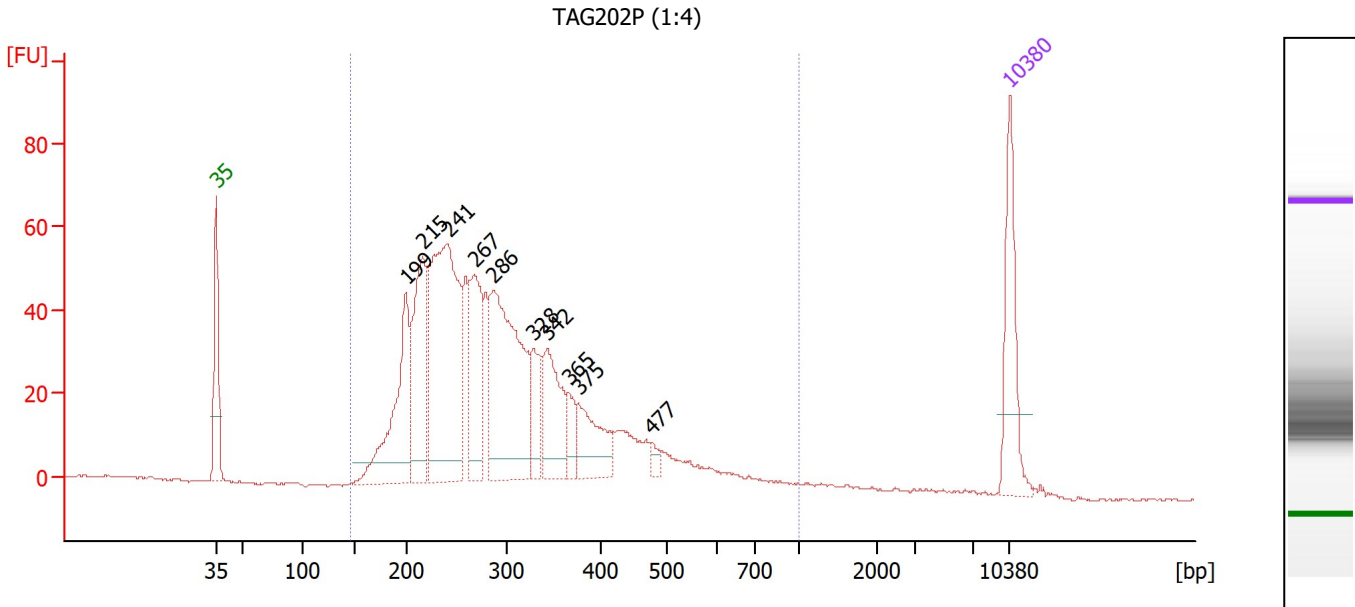
Region table for sample 2 : N860P 0.8X BC

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	815.4	98	382	22.8	5,471.31	23,038.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : TAG202P (1:4)

Number of peaks found: 10 Corr. Area 1: 1,219.4
 Noise: 0.3

Peak table for sample 3 : TAG202P (1:4)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	199	181.92	1,385.5	
3	215	174.92	1,230.9	
4	241	370.96	2,334.9	
5	267	131.82	747.5	
6	286	286.16	1,517.6	
7	328	56.32	260.3	
8	342	100.87	446.7	
9	365	26.76	110.9	
10	375	72.87	294.3	
11	477	9.10	28.9	
12	10,380	75.00	10.9	Upper Marker

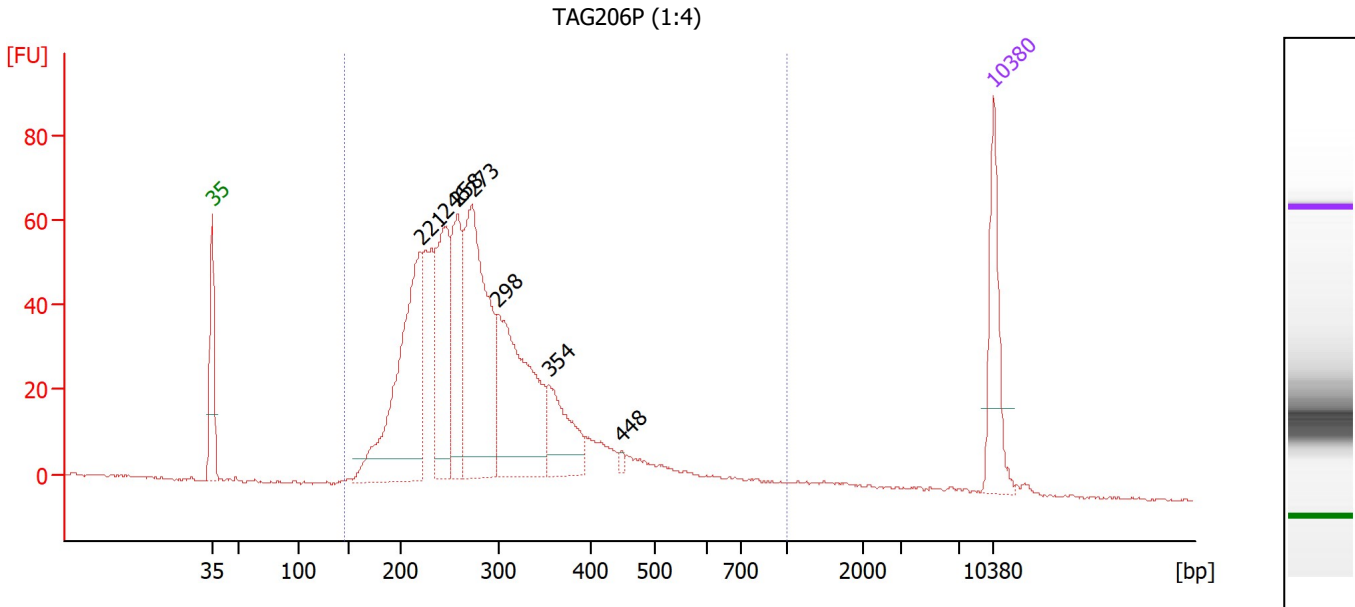
Region table for sample 3 : TAG202P (1:4)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
145	1,000	1,219.4	98	309	36.1	1,723.69	9,601.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : TAG206P (1:4)

Number of peaks found: 7 Corr. Area 1: 1,150.2
 Noise: 0.3

Peak table for sample 4 : TAG206P (1:4)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	221	350.68	2,409.3	
3	246	201.94	1,242.2	
4	258	150.86	885.5	
5	273	348.90	1,939.0	
6	298	281.24	1,427.9	
7	354	98.73	422.2	
8	448	5.11	17.3	
9	10,380	75.00	10.9	Upper Marker

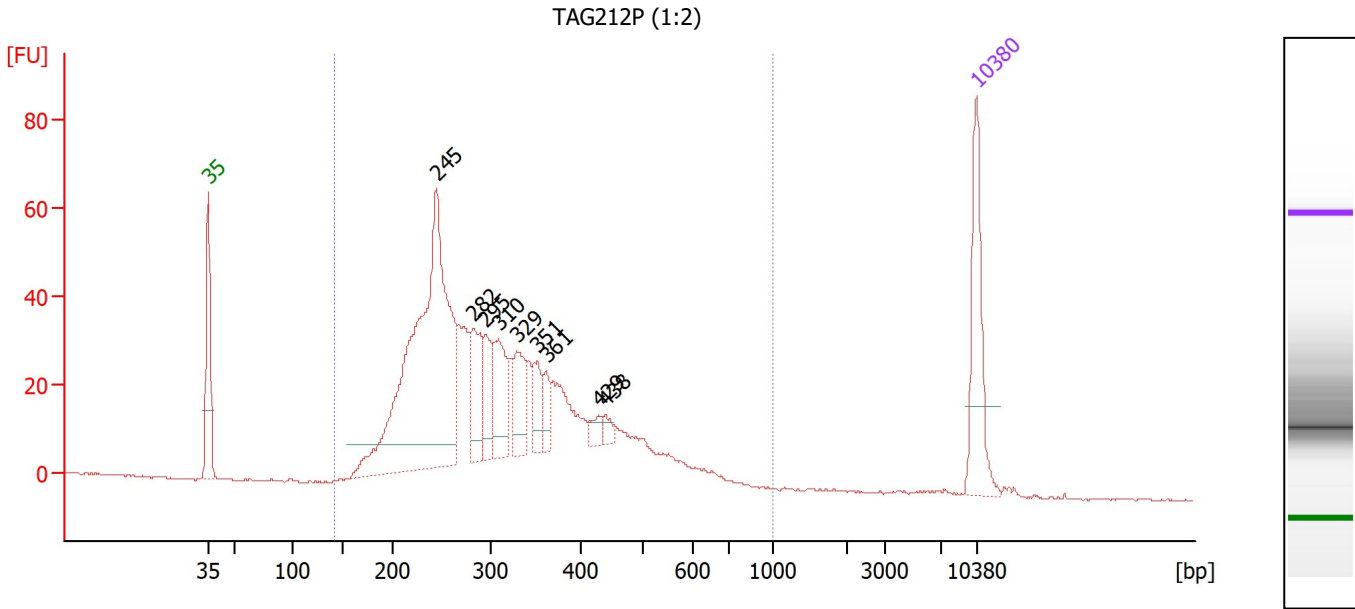
Region table for sample 4 : TAG206P (1:4)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
146	1,000	1,150.2	97	297	33.9	1,765.02	9,957.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : TAG212P (1:2)

Number of peaks found: 9 Corr. Area 1: 985.4
 Noise: 0.2

Peak table for sample 5 : TAG212P (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	245	542.24	3,354.2	
3	282	74.45	399.9	
4	295	45.28	232.4	
5	310	77.01	376.9	
6	329	53.56	246.7	
7	351	33.46	144.3	
8	361	21.21	88.9	
9	429	11.63	41.1	
10	438	8.95	30.9	
11	10,380	75.00	10.9	Upper Marker

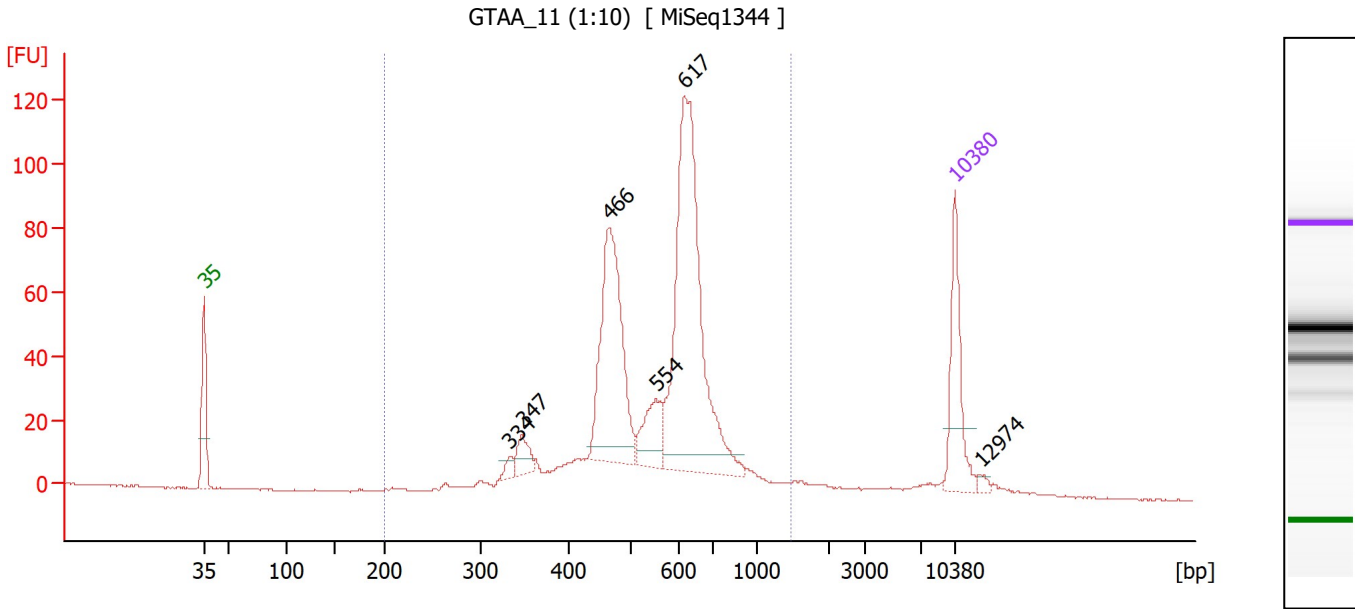
Region table for sample 5 : TAG212P (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
143	1,000	985.4	99	323	32.8	1,438.47	7,623.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : GTAA 11 (1:10)

Number of peaks found: 6 Corr. Area 1: 874.7
 Noise: 0.2

Peak table for sample 6 : GTAA 11 (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	334	10.79	49.0	
3	347	28.55	124.5	
4	466	260.49	847.5	
5	554	57.76	158.0	
6	617	420.55	1,033.2	
7	10,380	75.00	10.9	Upper Marker
8	12,974	0.00	0.0	

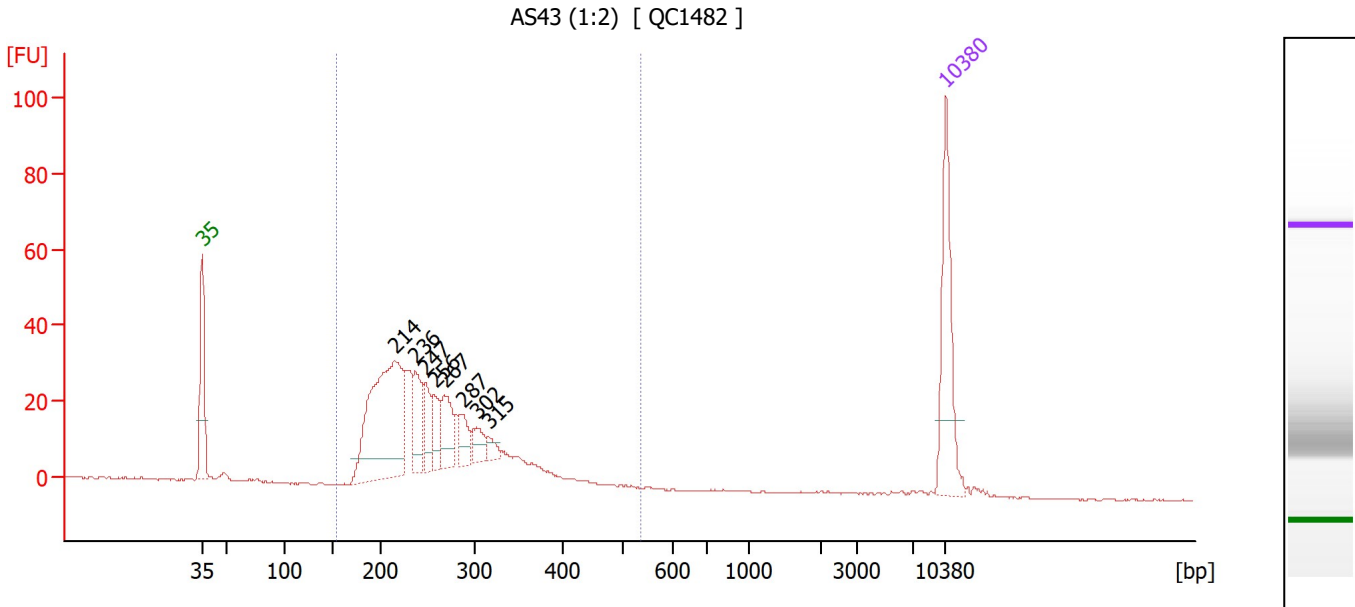
Region table for sample 6 : GTAA 11 (1:10)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,486	874.7	93	570	26.3	1,073.15	3,105.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : AS43 (1:2)

Number of peaks found: 8 Corr. Area 1: 506.0
 Noise: 0.2

Peak table for sample 7 : AS43 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	214	249.79	1,765.2	
3	236	48.93	313.6	
4	247	33.95	208.6	
5	256	29.42	174.0	
6	267	46.34	263.0	
7	287	24.38	128.8	
8	302	19.65	98.6	
9	315	10.44	50.2	
10	10,380	75.00	10.9	Upper Marker

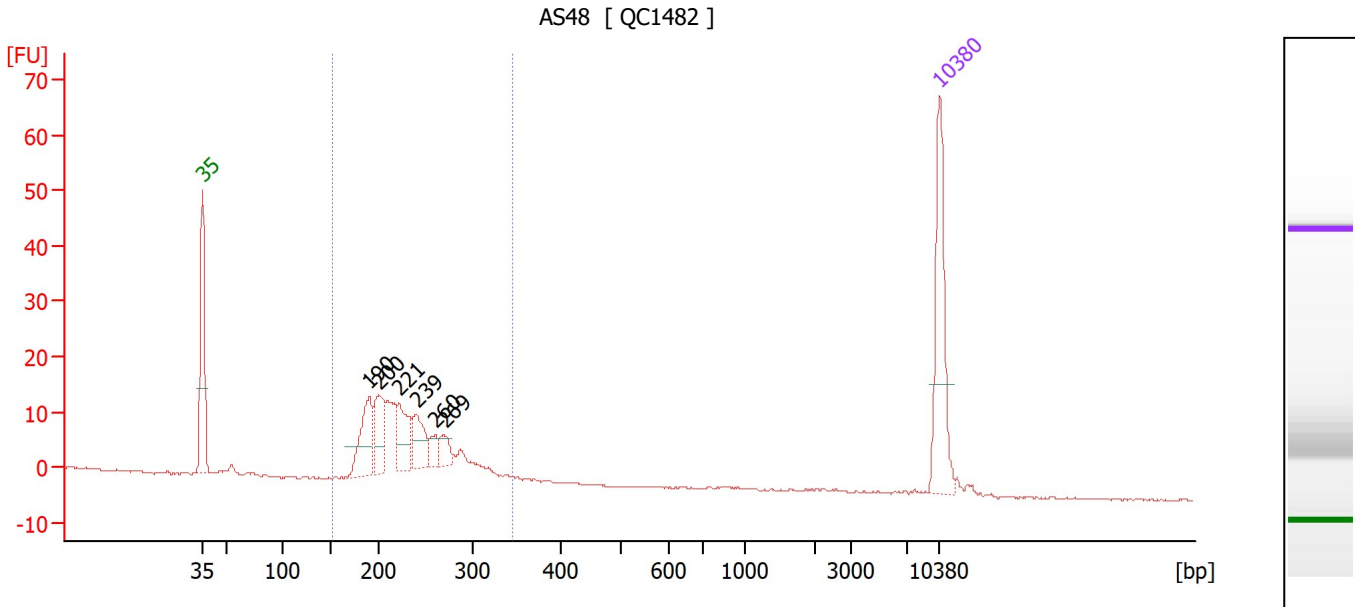
Region table for sample 7 : AS43 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
155	536	506.0	98	259	22.8	690.64	4,266.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : AS48

Number of peaks found: 6 Corr. Area 1: 171.4
 Noise: 0.2

Peak table for sample 8 : AS48

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	190	66.87	534.6	
3	200	52.67	400.0	
4	221	48.12	330.5	
5	239	40.78	258.8	
6	260	14.34	83.6	
7	269	17.94	101.0	
8	10,380	75.00	10.9	Upper Marker

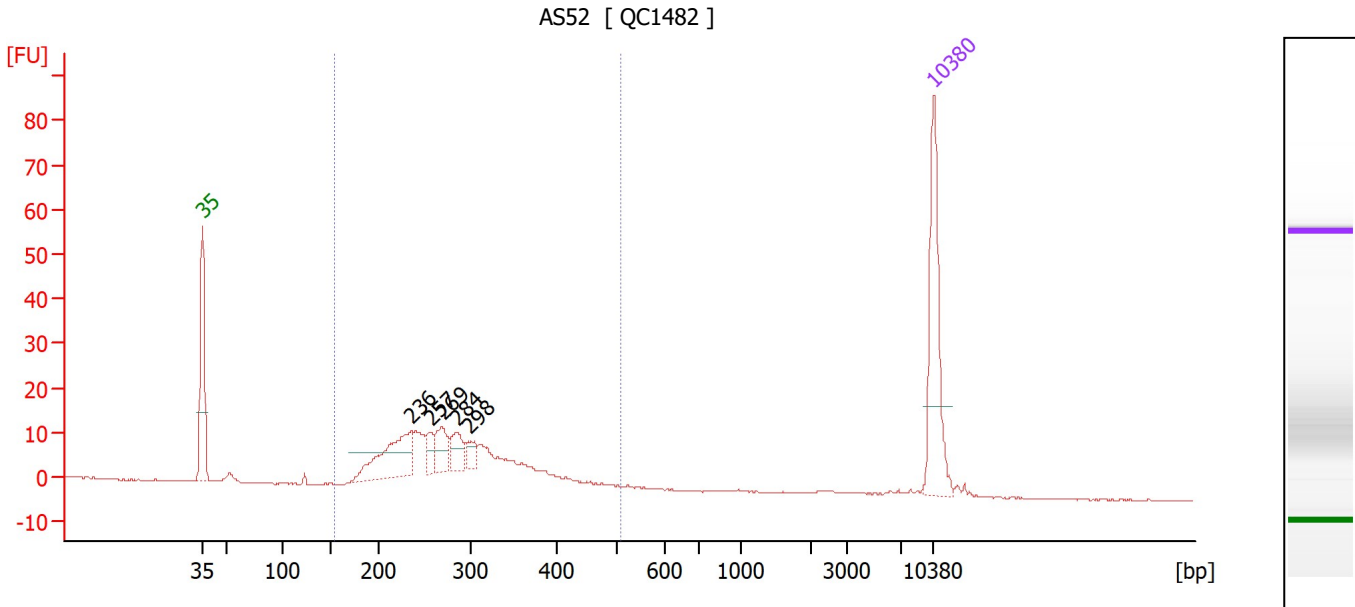
Region table for sample 8 : AS48

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
150	345	171.4	97	231	16.0	362.63	2,439.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : AS52

Number of peaks found: 5 Corr. Area 1: 224.2
 Noise: 0.2

Peak table for sample 9 : AS52

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	236	84.71	544.7	
3	257	16.26	95.7	
4	269	27.91	157.3	
5	284	24.93	133.0	
6	298	12.23	62.1	
7	10,380	75.00	10.9	Upper Marker

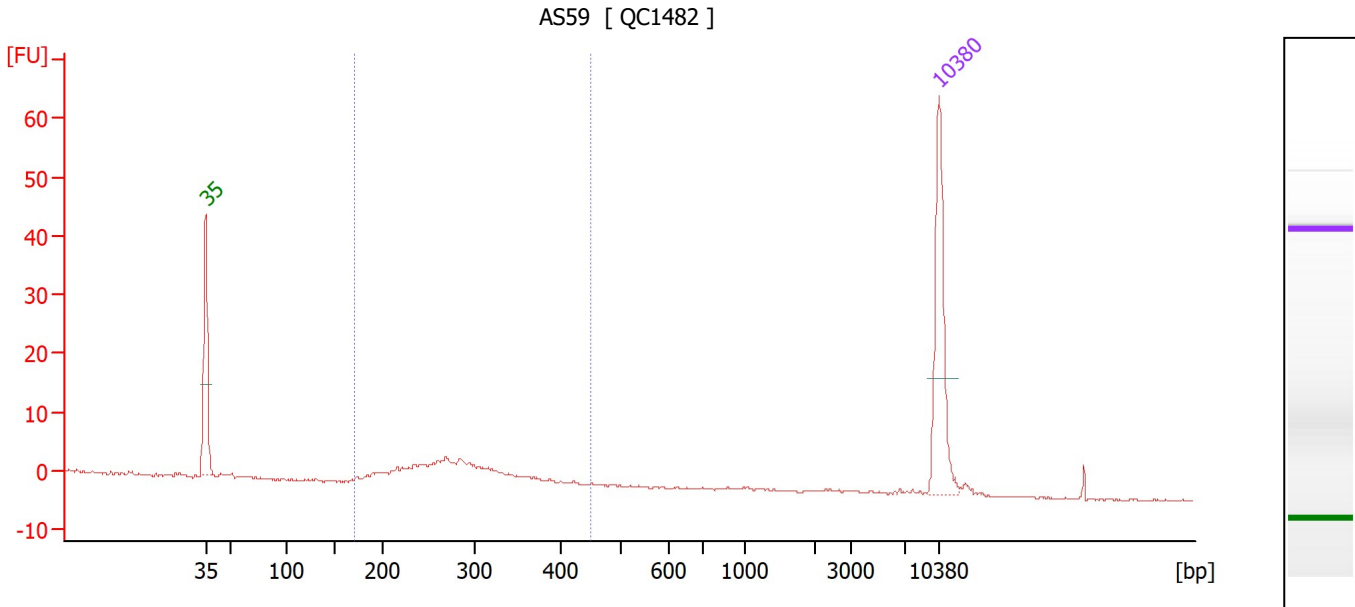
Region table for sample 9 : AS52

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
155	510	224.2	96	284	22.1	346.89	1,958.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : AS59

Number of peaks found: 0 Corr. Area 1: 54.3
 Noise: 0.2

Peak table for sample 10 : AS59

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

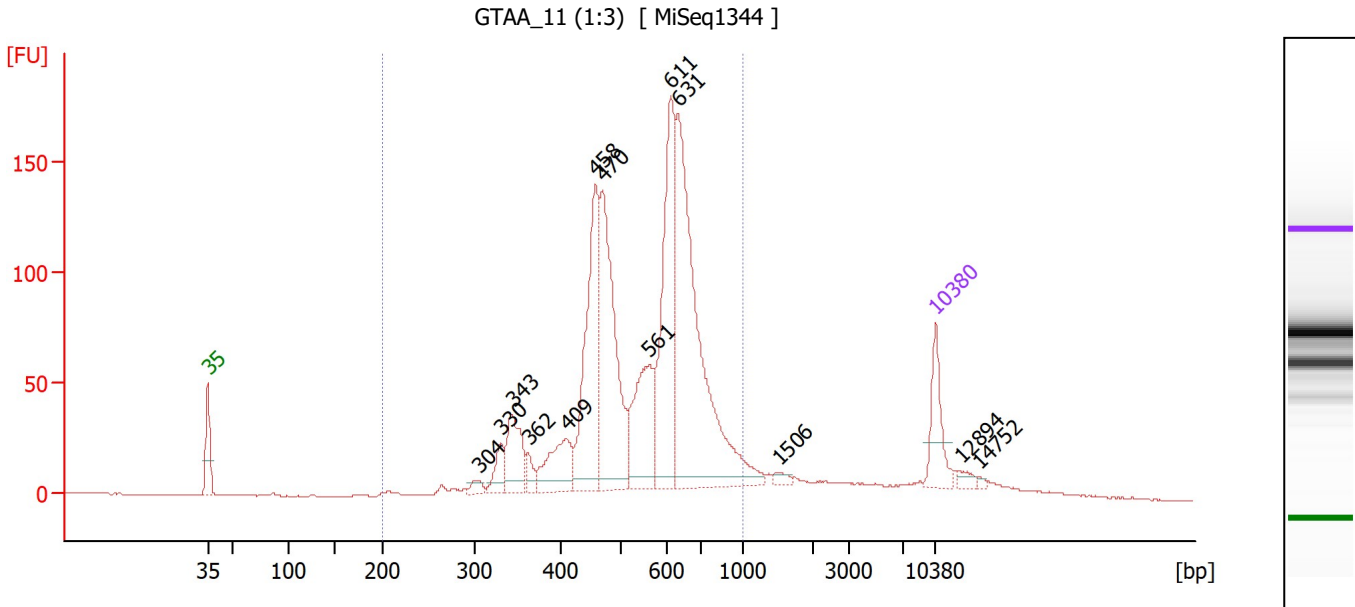
Region table for sample 10 : AS59

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
172	450	54.3	86	282	18.4	116.71	653.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : GTAA 11 (1:3)

Number of peaks found: 13 Corr. Area 1: 1,670.0
 Noise: 0.2

Peak table for sample 11 : GTAA 11 (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	304	19.07	95.1	
3	330	52.54	240.9	
4	343	122.15	539.8	
5	362	27.38	114.8	
6	409	122.52	454.0	
7	458	374.31	1,237.6	
8	470	414.06	1,335.0	
9	561	206.21	556.6	
10	611	375.80	932.6	
11	631	671.59	1,611.9	
12	1,506	11.28	11.4	
13	10,380	75.00	10.9	Upper Marker
14	12,894	0.00	0.0	
15	14,752	0.00	0.0	

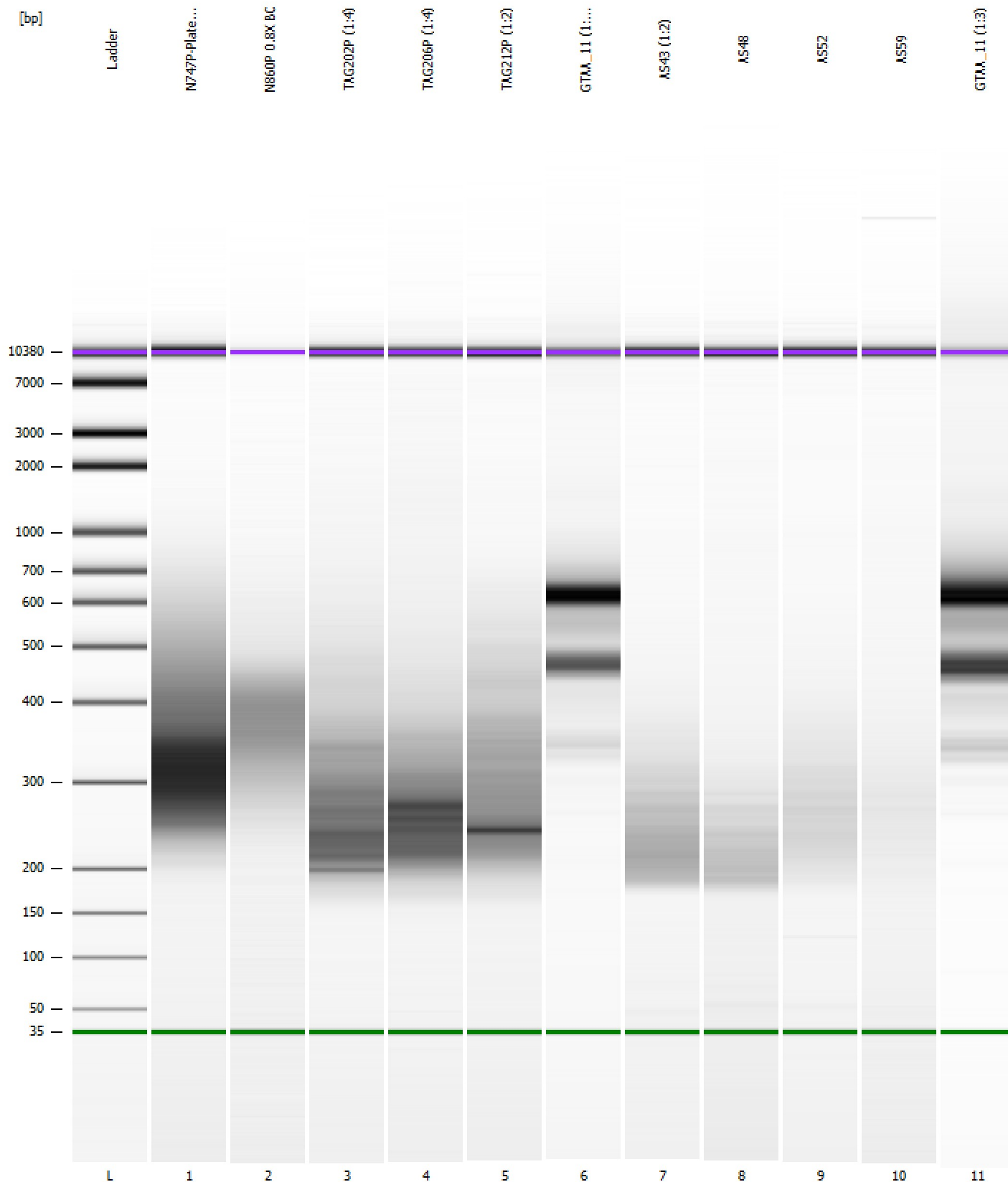
Region table for sample 11 : GTAA 11 (1:3)

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	1,670.0	89	555	23.8	2,523.27	7,502.8	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
Modified: 5/17/2023 4:55:15 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad

Created: 5/17/2023 3:54:12 PM
 Modified: 5/17/2023 4:55:15 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		5/17/2023 4:35:35 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-05-17\Bioanalyzer1_High Sensitivity DNA Assay_2023-05-17_001.xad)		Instrument	Run		5/17/2023 3:54:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		5/17/2023 3:54:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		5/17/2023 3:54:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		5/17/2023 3:54:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		5/17/2023 3:54:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		5/17/2023 3:54:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		5/17/2023 3:54:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB