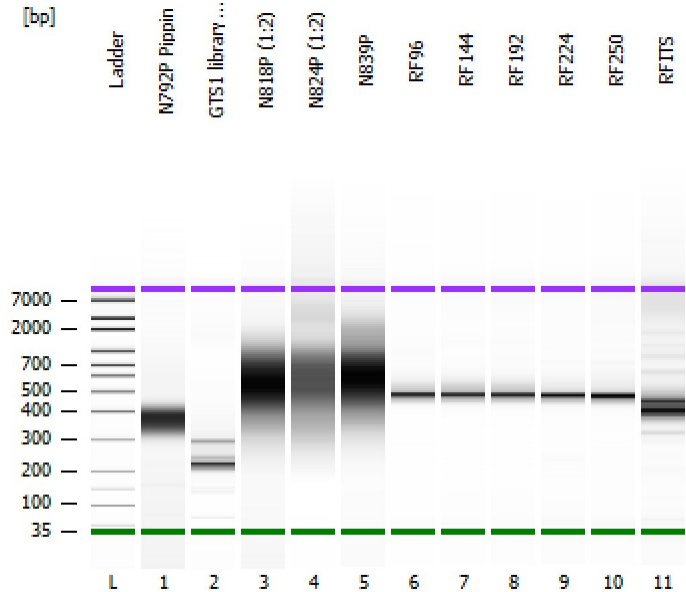


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
Modified: 3/22/2023 10:53:11 AM

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

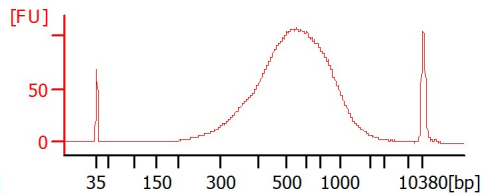
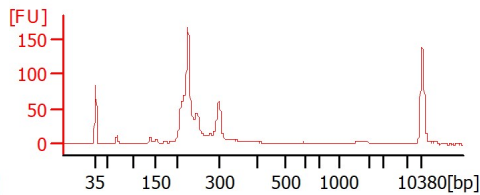
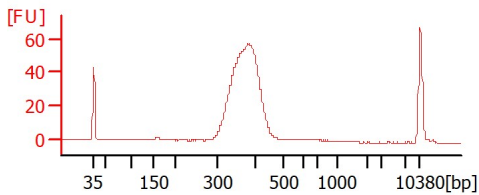
Chip Information:

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

N792P Pippin

GTS1 library (1:15)

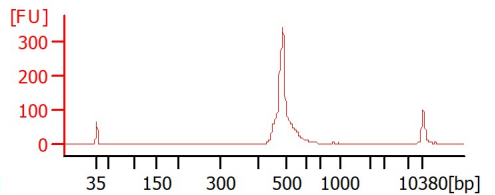
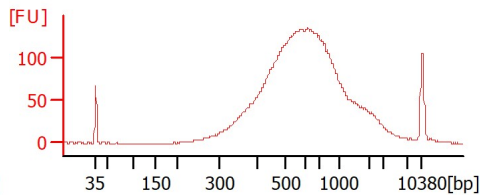
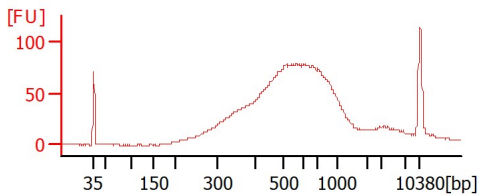
N818P (1:2)



N824P (1:2)

N839P

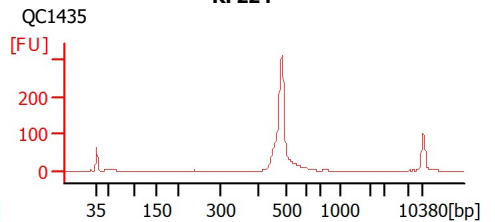
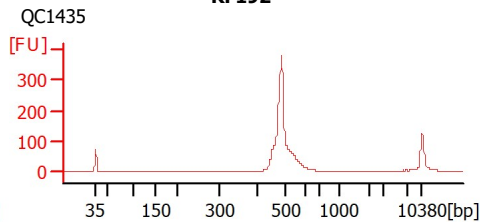
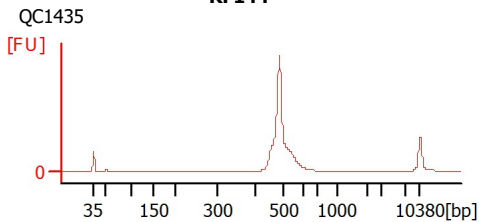
RF96



RF144

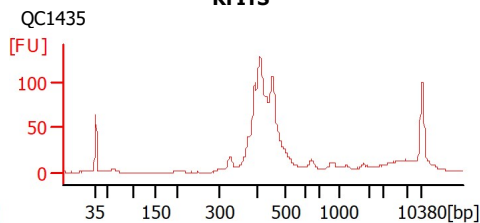
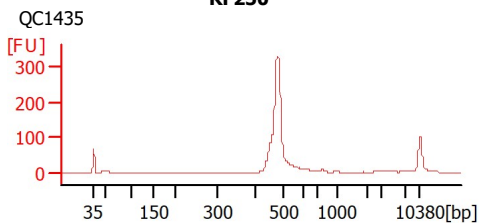
RF192

RF224



RF250

RFITS



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
N792P Pippin		<input type="checkbox"/>	✓			
GTS1 library (1:15)		<input type="checkbox"/>	✓			
N818P (1:2)		<input type="checkbox"/>	✓			
N824P (1:2)		<input type="checkbox"/>	✓			
N839P		<input type="checkbox"/>	✓			
RF96	QC1435	<input type="checkbox"/>	✓			
RF144	QC1435	<input type="checkbox"/>	✓			
RF192	QC1435	<input type="checkbox"/>	✓			
RF224	QC1435	<input type="checkbox"/>	✓			
RF250	QC1435	<input type="checkbox"/>	✓			
RFITS	QC1435	<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_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

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

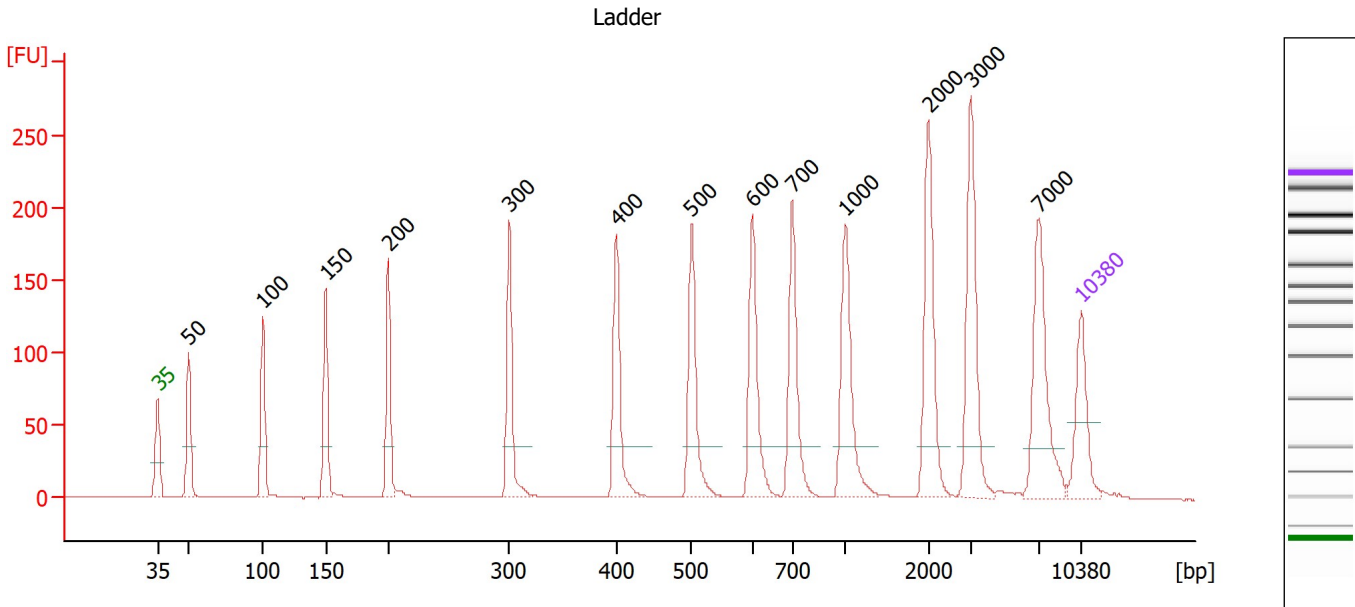
Ladder

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_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

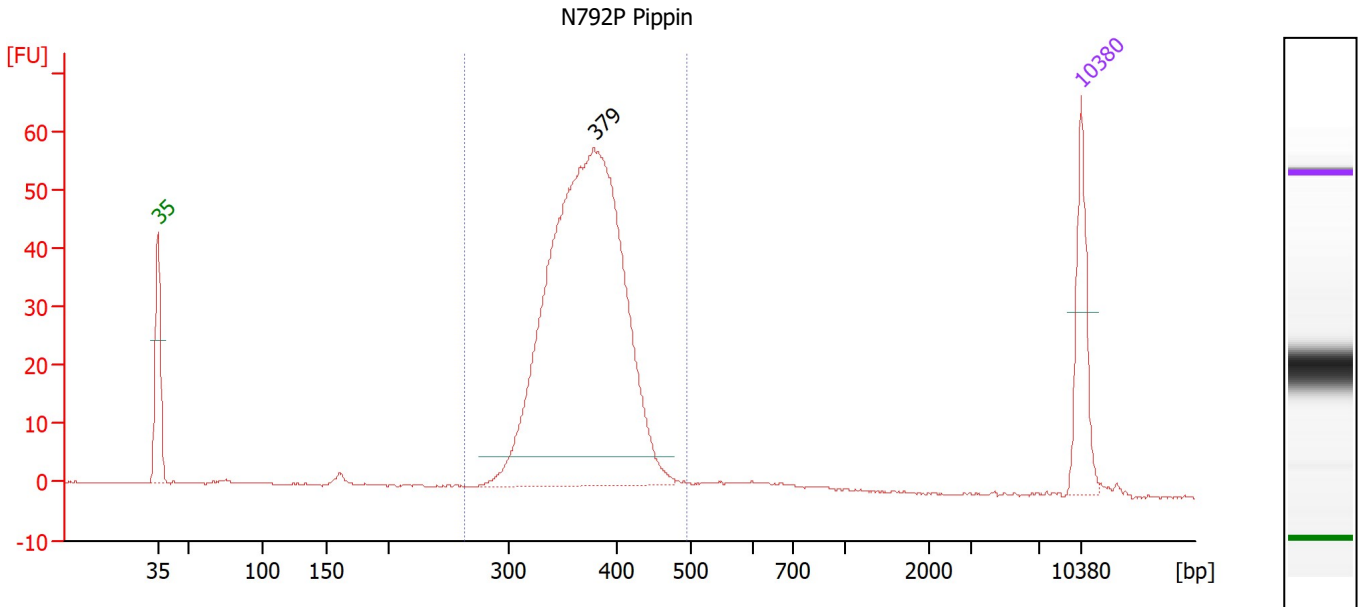
Peak table for Ladder

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_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : N792P Pippin

Number of peaks found: 1 Corr. Area 1: 546.1
 Noise: 0.2

Peak table for sample 1 : N792P Pippin

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	379	1,020.14	4,078.3	
3	10,380	75.00	10.9	Upper Marker

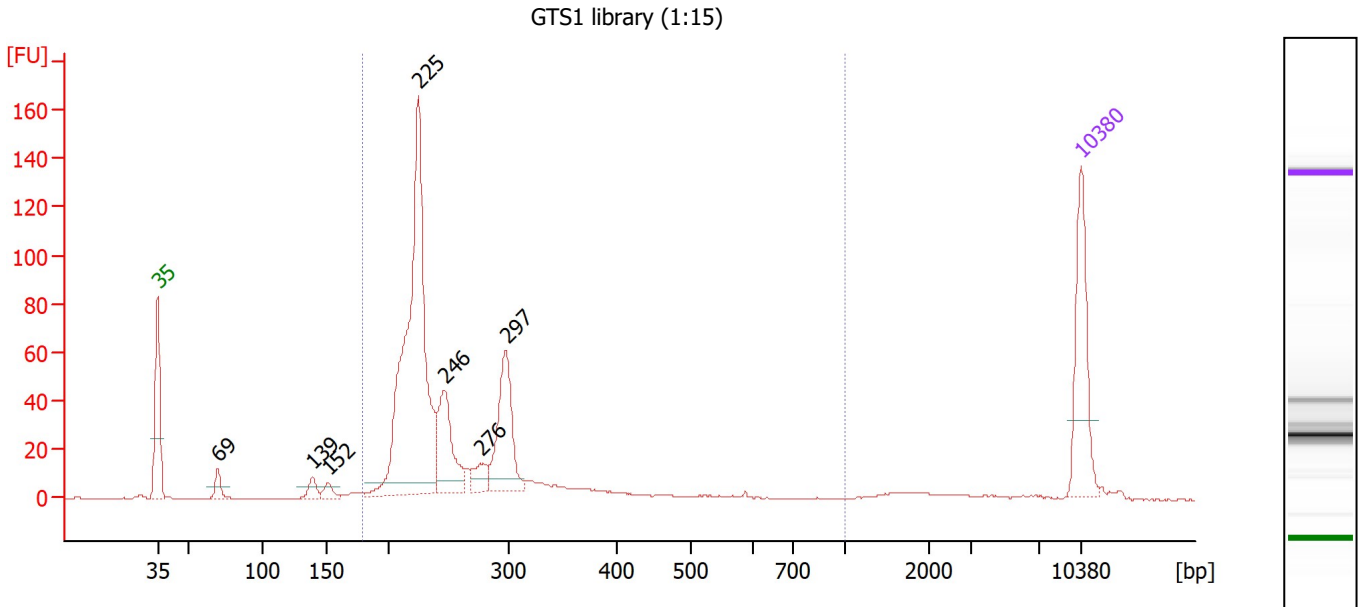
Region table for sample 1 : N792P Pippin

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
262	495	546.1	94	372	9.2	1,074.22	4,408.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : GTS1 library (1:15)

Number of peaks found: 7 Corr. Area 1: 729.4
 Noise: 0.2

Peak table for sample 2 : GTS1 library (1:15)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	69	17.23	375.7	
3	139	14.97	162.9	
4	152	11.89	118.4	
5	225	448.66	3,018.3	
6	246	90.49	557.0	
7	276	20.97	115.1	
8	297	105.38	536.8	
9	10,380	75.00	10.9	Upper Marker

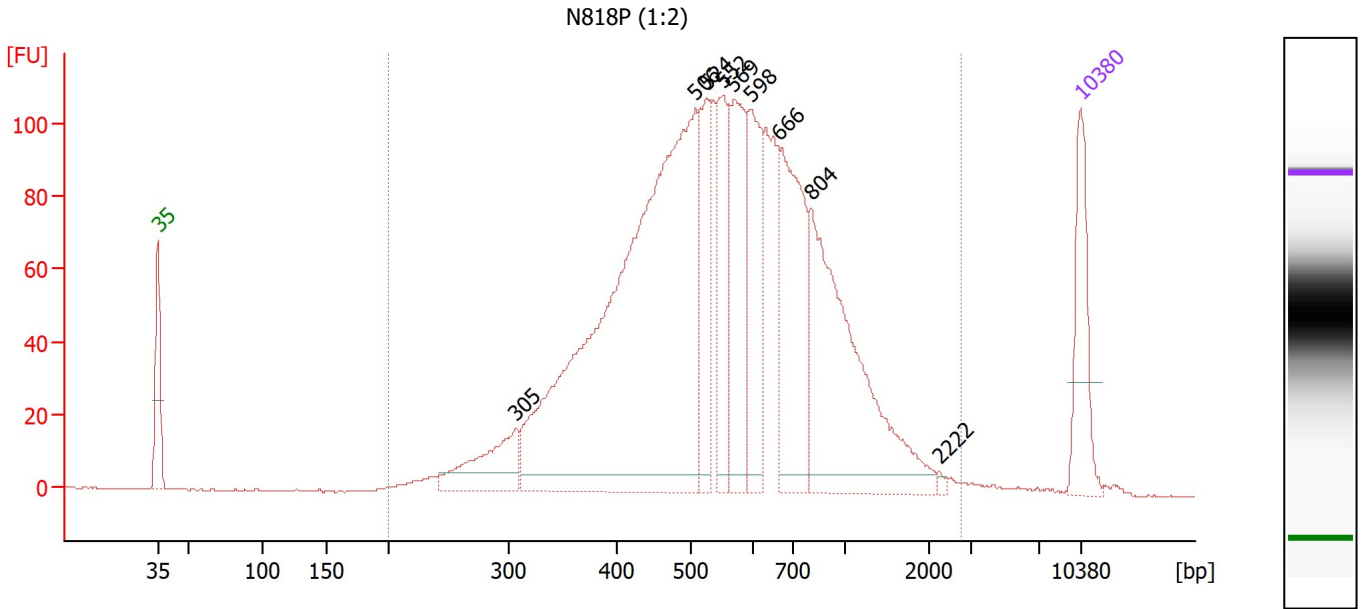
Region table for sample 2 : GTS1 library (1:15)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
180	1,000	729.4	91	259	26.2	781.87	4,778.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : N818P (1:2)

Number of peaks found: 9 Corr. Area 1: 2,391.6
 Noise: 0.2

Peak table for sample 3 : N818P (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	305	103.90	515.4	
3	506	983.25	2,941.8	
4	524	122.42	353.8	
5	552	118.73	325.8	
6	569	165.10	439.7	
7	598	129.88	329.1	
8	666	221.08	502.7	
9	804	345.01	650.2	
10	2,222	2.82	1.9	
11	10,380	75.00	10.9	Upper Marker

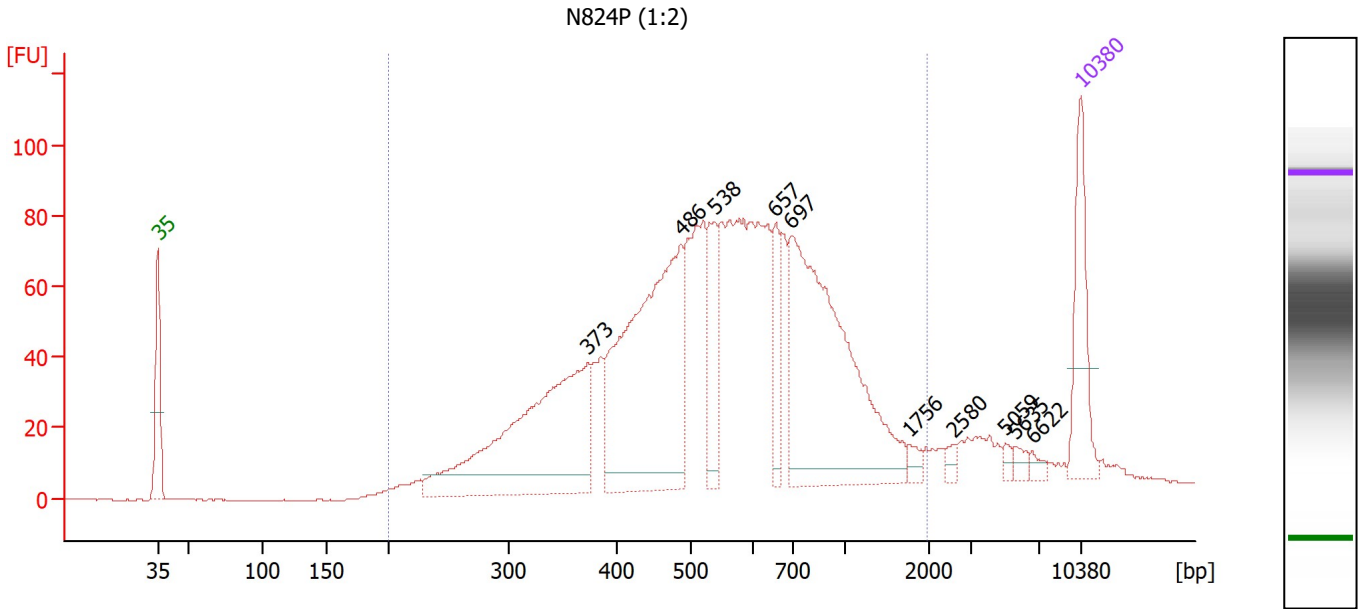
Region table for sample 3 : N818P (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,745	2,391.6	99	618	48.9	2,473.23	7,426.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : N824P (1:2)

Number of peaks found: 10 Corr. Area 1: 1,963.8
 Noise: 0.2

Peak table for sample 4 : N824P (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	373	372.59	1,512.5	
3	486	434.77	1,354.4	
4	538	74.69	210.5	
5	657	58.05	133.8	
6	697	416.17	904.6	
7	1,756	9.65	8.3	
8	2,580	7.30	4.3	
9	5,059	5.77	1.7	
10	5,635	7.98	2.1	
11	6,622	6.65	1.5	
12	10,380	75.00	10.9	Upper Marker

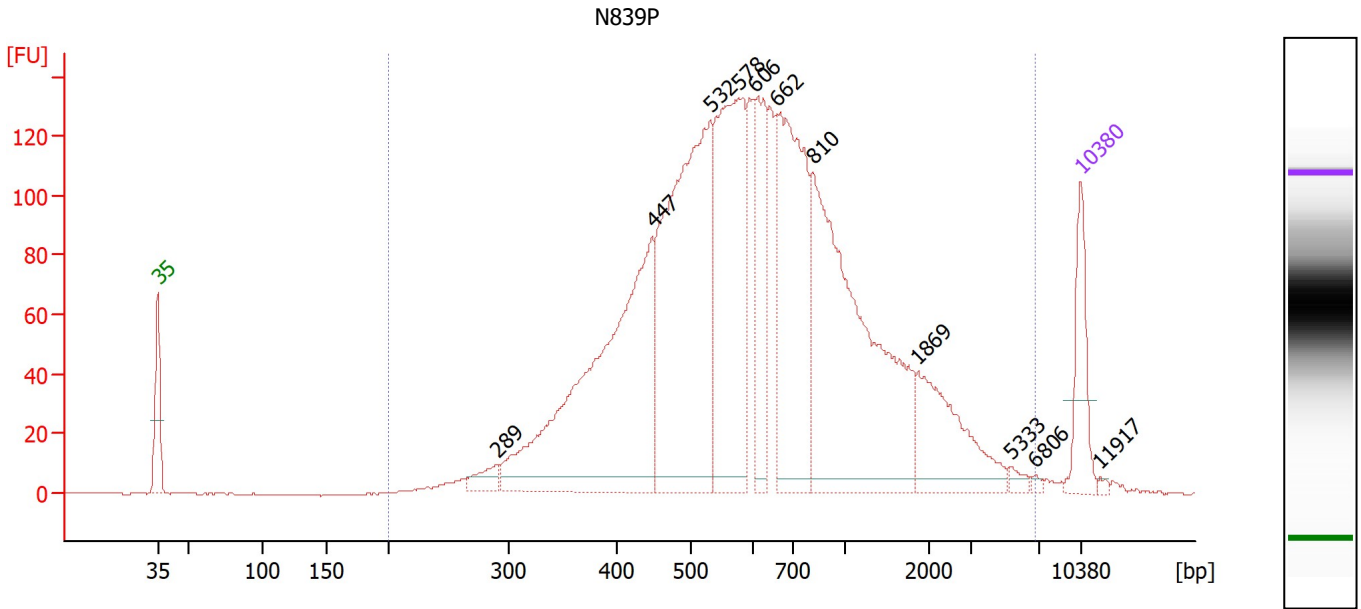
Region table for sample 4 : N824P (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,972	1,963.8	90	613	48.6	2,153.14	6,738.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : N839P

Number of peaks found: 11 Corr. Area 1: 3,017.1
 Noise: 0.3

Peak table for sample 5 : N839P

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	289	32.49	170.1	
3	447	670.86	2,272.5	
4	532	634.01	1,807.1	
5	578	415.36	1,088.5	
6	606	165.20	413.2	
7	662	383.07	876.5	
8	810	594.73	1,111.8	
9	1,869	149.18	120.9	
10	5,333	9.61	2.7	
11	6,806	4.22	0.9	
12	10,380	75.00	10.9	Upper Marker
13	11,917	0.00	0.0	

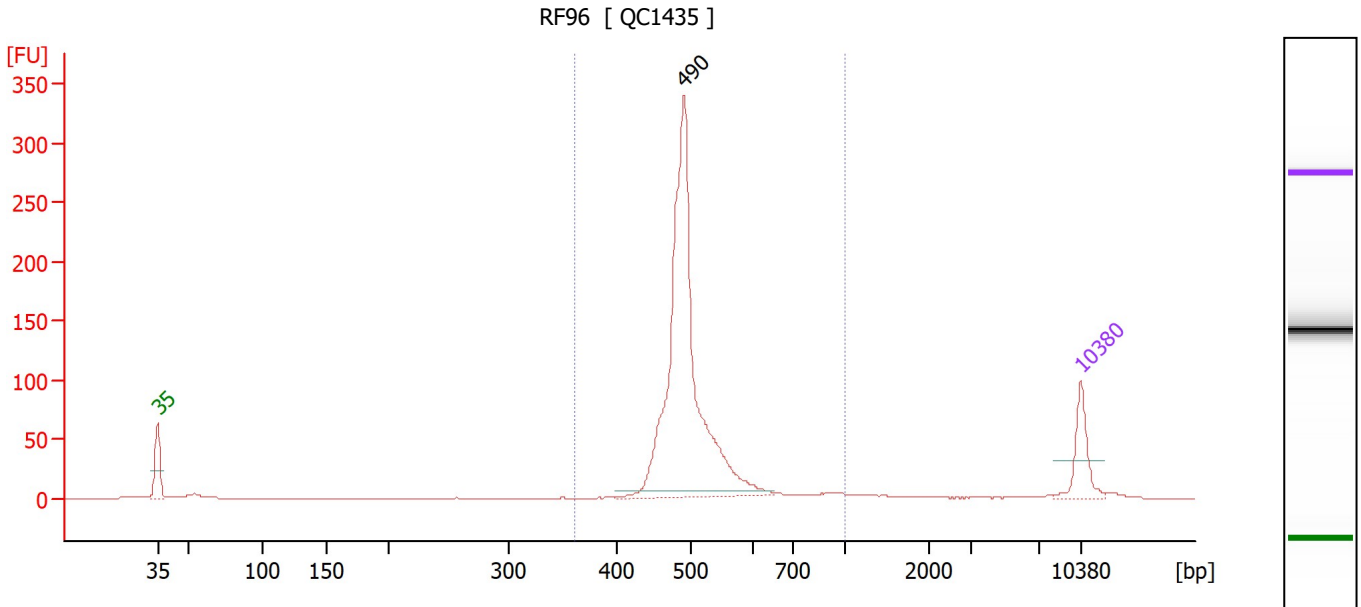
Region table for sample 5 : N839P

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	6,820	3,017.1	98	832	89.2	3,404.43	9,186.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : RF96

Number of peaks found: 1 Corr. Area 1: 907.7
 Noise: 0.2

Peak table for sample 6 : RF96

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	490	1,006.71	3,114.8	
3	10,380	75.00	10.9	Upper Marker

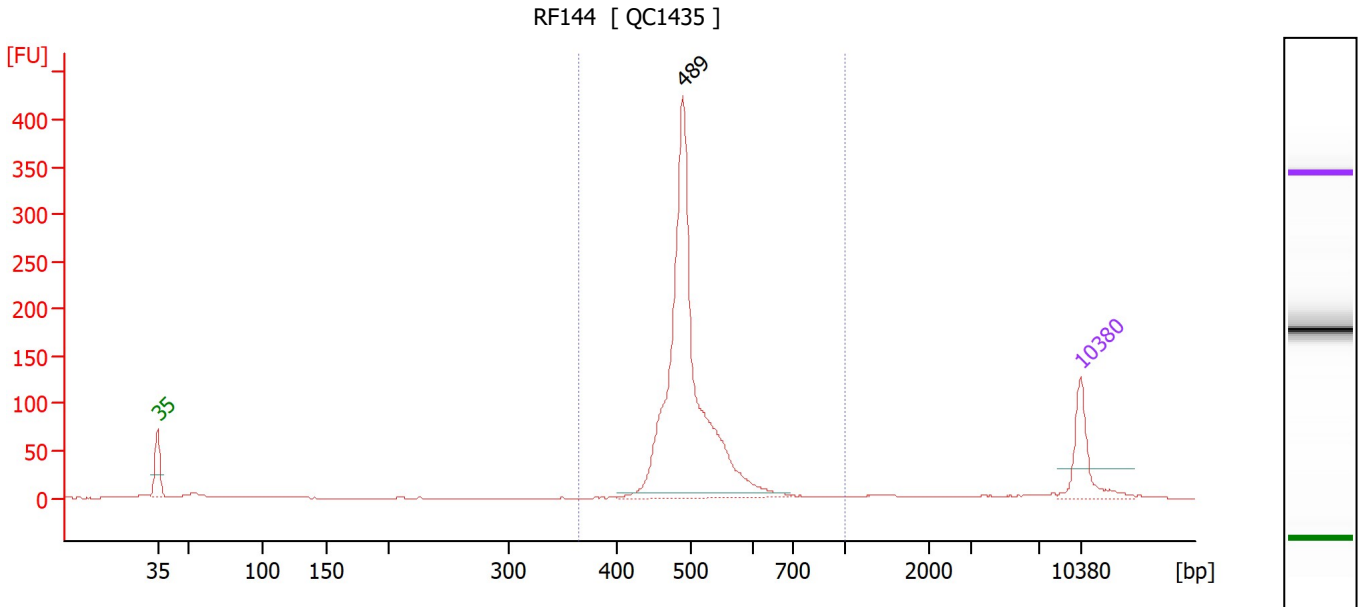
Region table for sample 6 : RF96

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
362	1,000	907.7	89	507	13.7	1,068.94	3,245.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : RF144

Number of peaks found: 1 Corr. Area 1: 1,120.6
 Noise: 0.3

Peak table for sample 7 : RF144

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	489	858.60	2,662.0	
3	10,380	75.00	10.9	Upper Marker

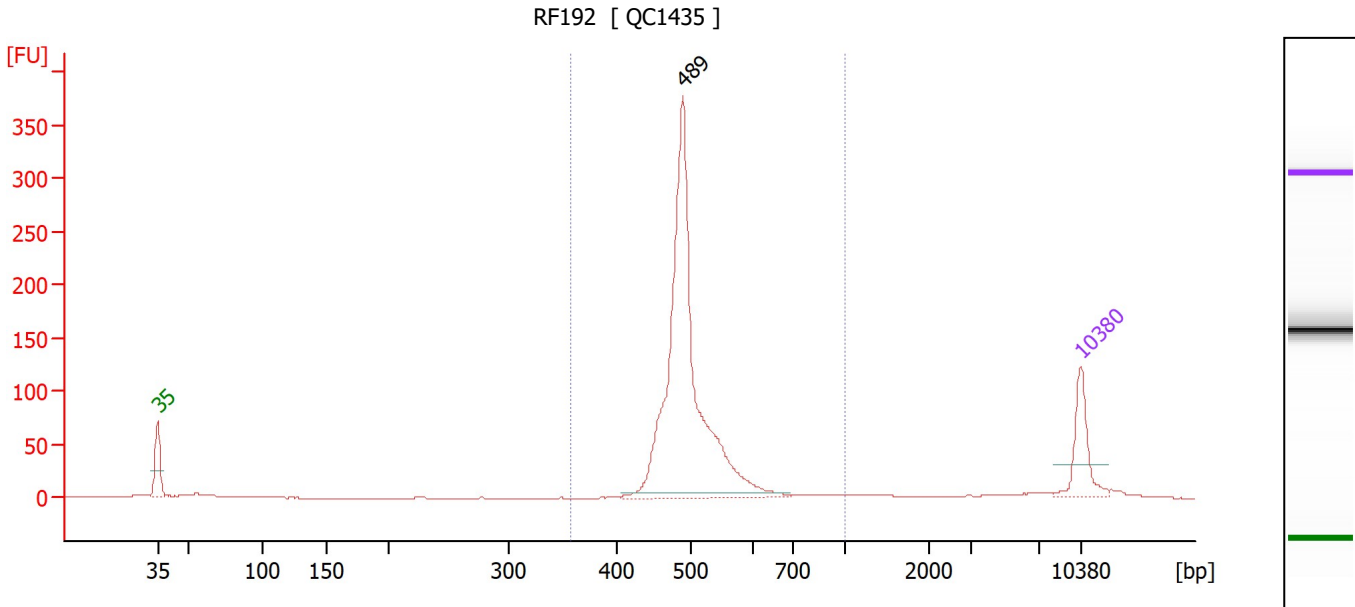
Region table for sample 7 : RF144

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
364	1,000	1,120.6	87	505	11.3	877.87	2,666.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : RF192

Number of peaks found: 1 Corr. Area 1: 992.1
 Noise: 0.3

Peak table for sample 8 : RF192

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	489	832.60	2,582.3	
3	10,380	75.00	10.9	Upper Marker

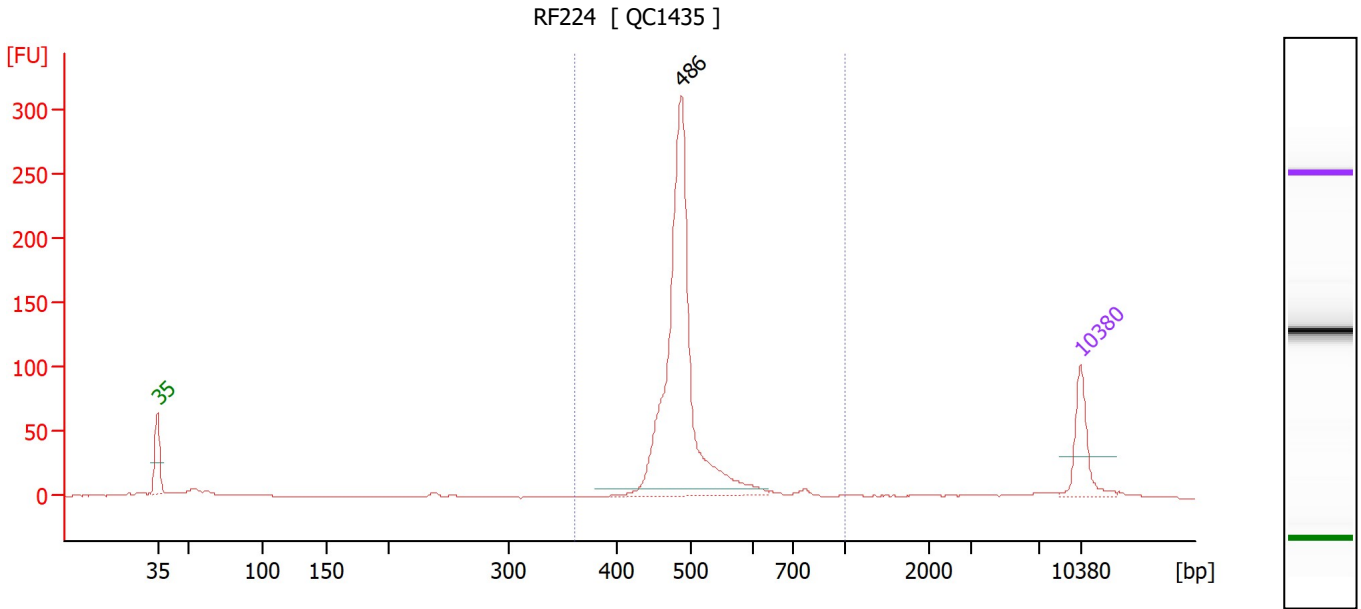
Region table for sample 8 : RF192

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
357	1,000	992.1	87	505	12.5	853.18	2,593.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : RF224

Number of peaks found: 1 Corr. Area 1: 746.6
 Noise: 0.2

Peak table for sample 9 : RF224

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	486	772.22	2,406.3	
3	10,380	75.00	10.9	Upper Marker

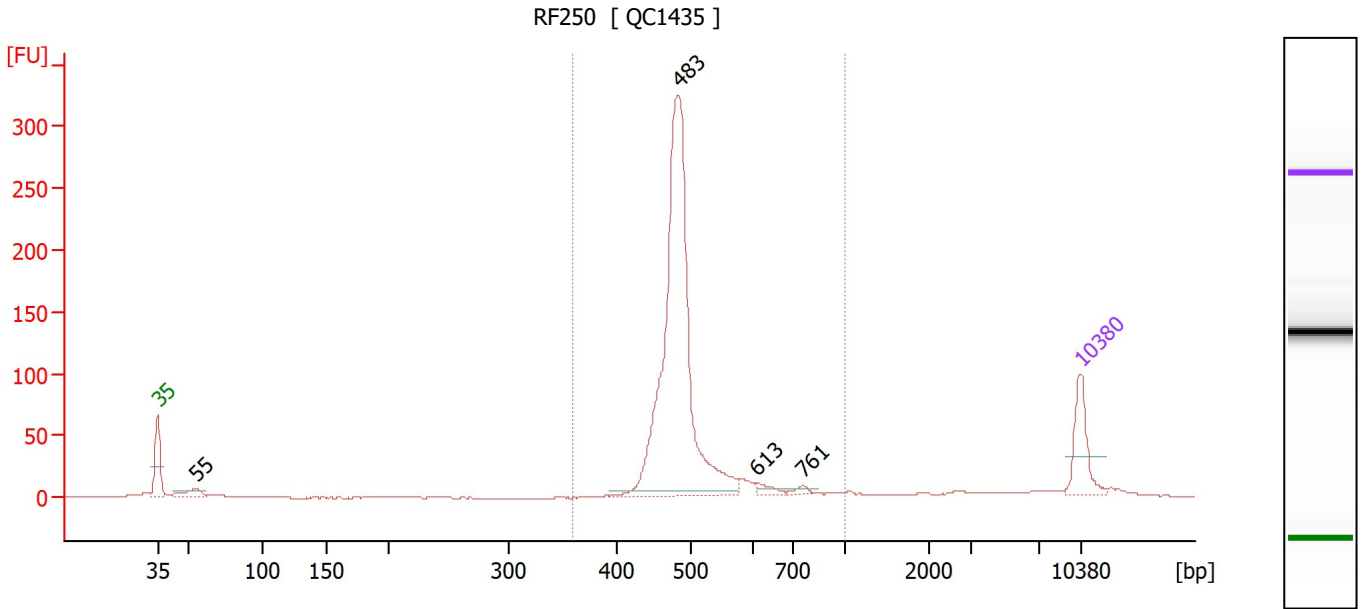
Region table for sample 9 : RF224

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
361	1,000	746.6	85	498	12.3	821.04	2,530.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : RF250

Number of peaks found: 4 Corr. Area 1: 920.2
 Noise: 0.2

Peak table for sample 10 : RF250

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	35.46	981.7	
3	483	927.50	2,912.4	
4	613	14.69	36.3	
5	761	8.90	17.7	
6	10,380	75.00	10.9	Upper Marker

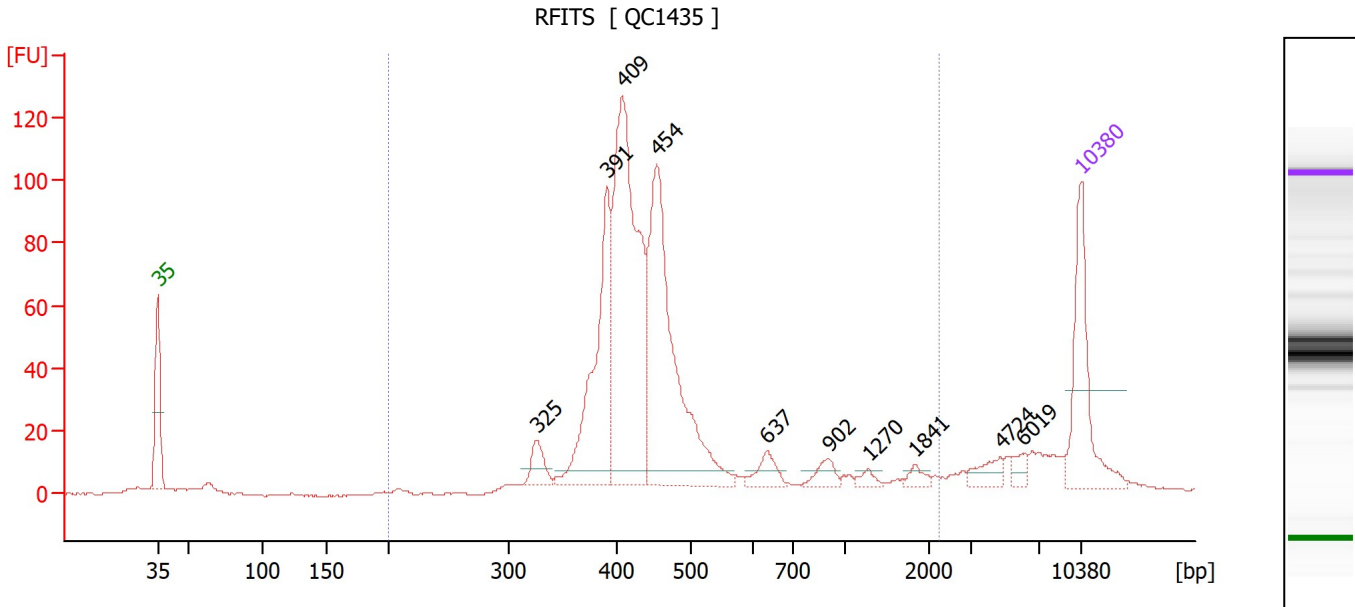
Region table for sample 10 : RF250

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
359	1,000	920.2	84	500	14.7	1,027.75	3,169.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : RFITS

Number of peaks found: 10 Corr. Area 1: 985.7
 Noise: 0.2

Peak table for sample 11 : RFITS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	325	24.45	113.9	
3	391	176.54	683.3	
4	409	327.00	1,211.7	
5	454	279.15	931.8	
6	637	18.81	44.7	
7	902	13.42	22.5	
8	1,270	6.23	7.4	
9	1,841	7.35	6.0	
10	4,724	14.38	4.6	
11	6,019	8.22	2.1	
12	10,380	75.00	10.9	Upper Marker

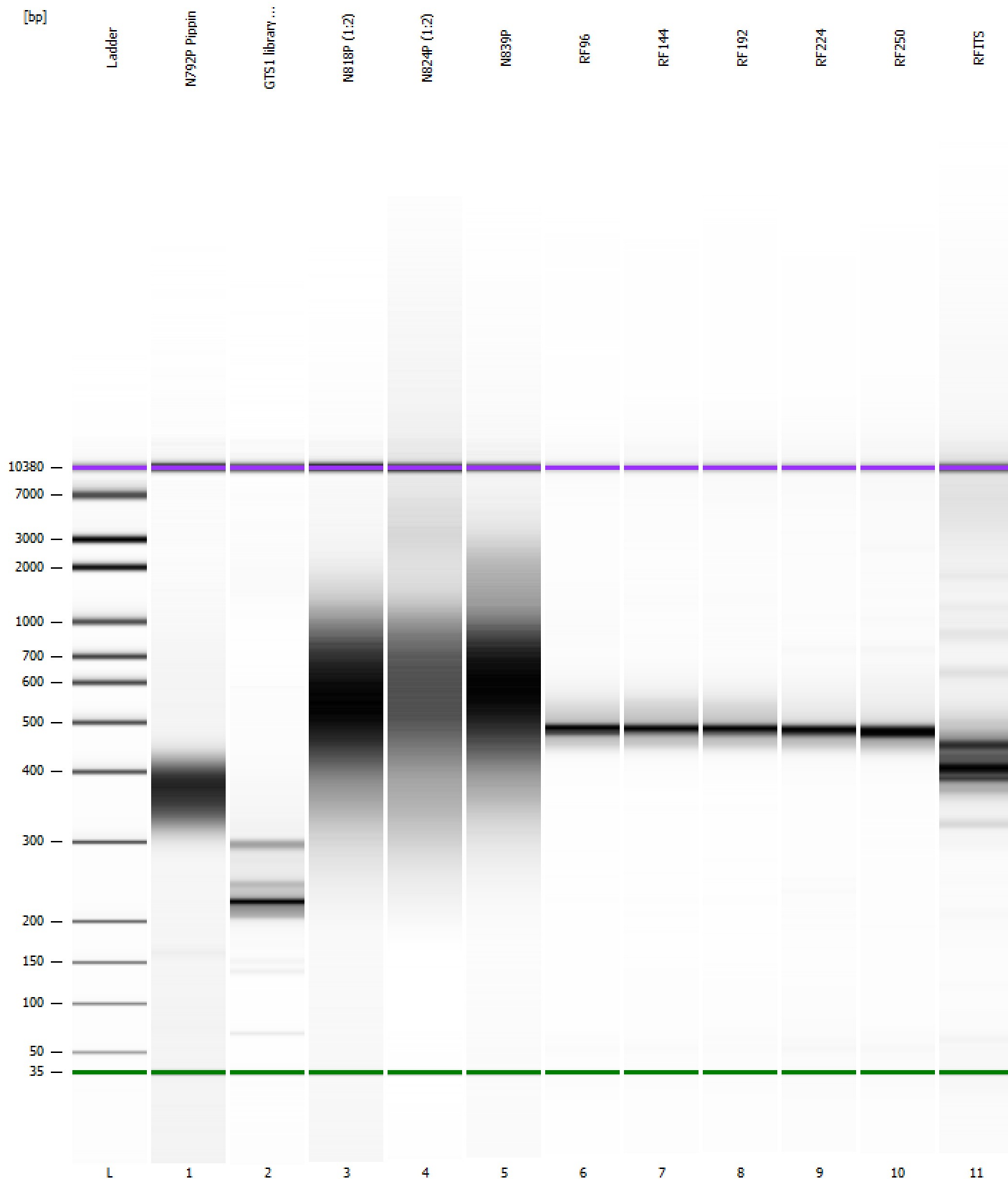
Region table for sample 11 : RFITS

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,267	985.7	85	518	58.1	1,000.92	3,445.8	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
Modified: 3/22/2023 10:53:11 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad

Created: 3/22/2023 9:29:47 AM
 Modified: 3/22/2023 10:53:11 AM

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		3/22/2023 10:11:15 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-03-22\Bioanalyzer1_High Sensitivity DNA Assay_2023-03-22_001.xad)		Instrument	Run		3/22/2023 9:29:59 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		3/22/2023 9:29:59 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		3/22/2023 9:29:59 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		3/22/2023 9:29:59 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		3/22/2023 9:29:59 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		3/22/2023 9:29:59 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		3/22/2023 9:29:59 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB