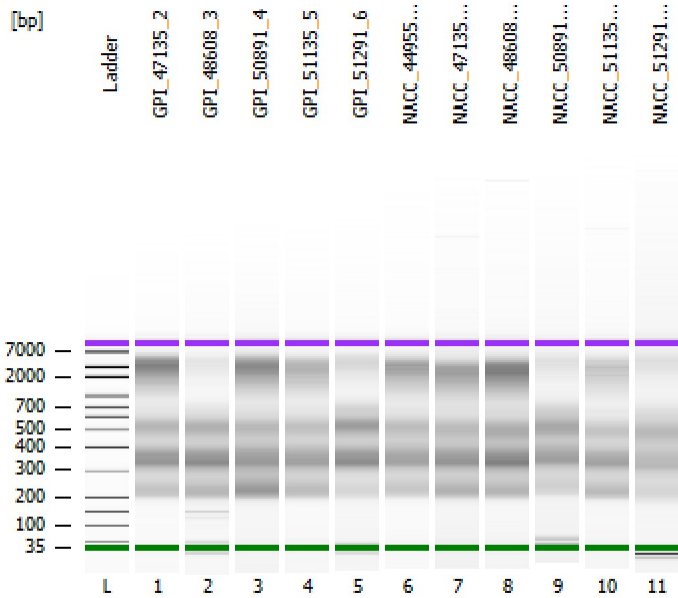


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

Created: 6/14/2024 10:32:02 AM
Modified: 6/14/2024 11:23:06 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

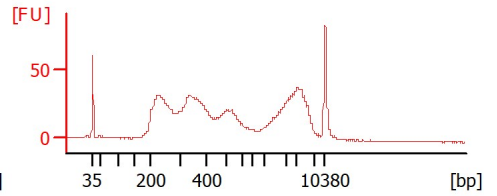
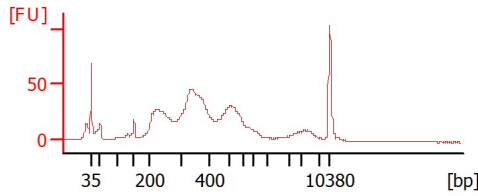
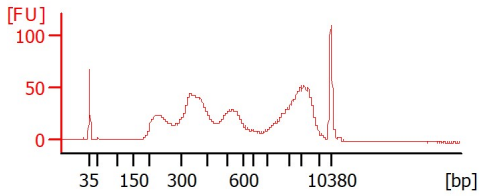
Chip Information:

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

GPI_47135_2

GPI_48608_3

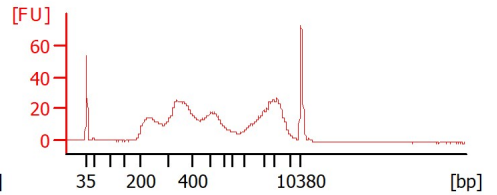
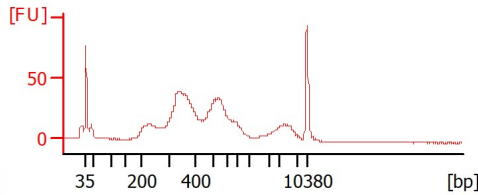
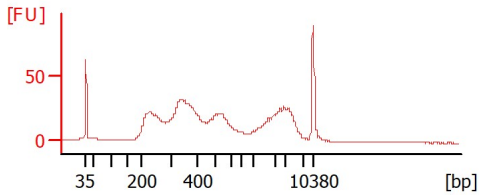
GPI_50891_4



GPI_51135_5

GPI_51291_6

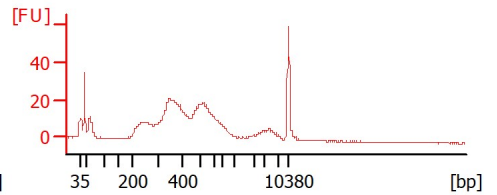
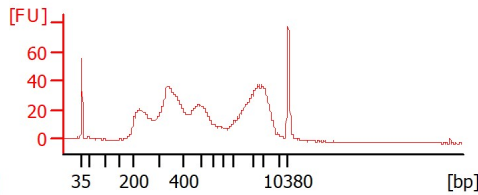
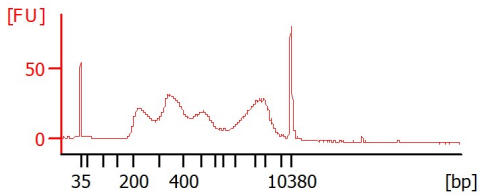
NACC_44955_1



NACC_47135_2

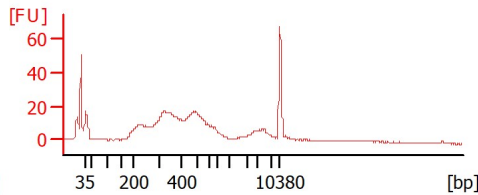
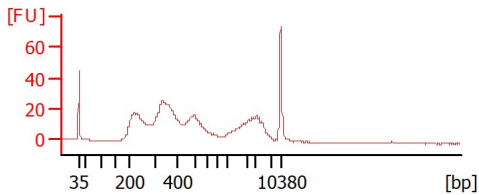
NACC_48608_3

NACC_50891_4



NACC_51135_5

NACC_51291_6



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

Created: 6/14/2024 10:32:02 AM
 Modified: 6/14/2024 11:23:06 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
GPI_47135_2		<input type="checkbox"/>		✓		
GPI_48608_3		<input type="checkbox"/>		✓		
GPI_50891_4		<input type="checkbox"/>		✓		
GPI_51135_5		<input type="checkbox"/>		✓		
GPI_51291_6		<input type="checkbox"/>		✓		
NACC_44955_1		<input type="checkbox"/>		✓		
NACC_47135_2		<input type="checkbox"/>		✓		
NACC_48608_3		<input type="checkbox"/>		✓		
NACC_50891_4		<input type="checkbox"/>		✓		
NACC_51135_5		<input type="checkbox"/>		✓		
NACC_51291_6		<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

Created: 6/14/2024 10:32:02 AM
 Modified: 6/14/2024 11:23:06 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

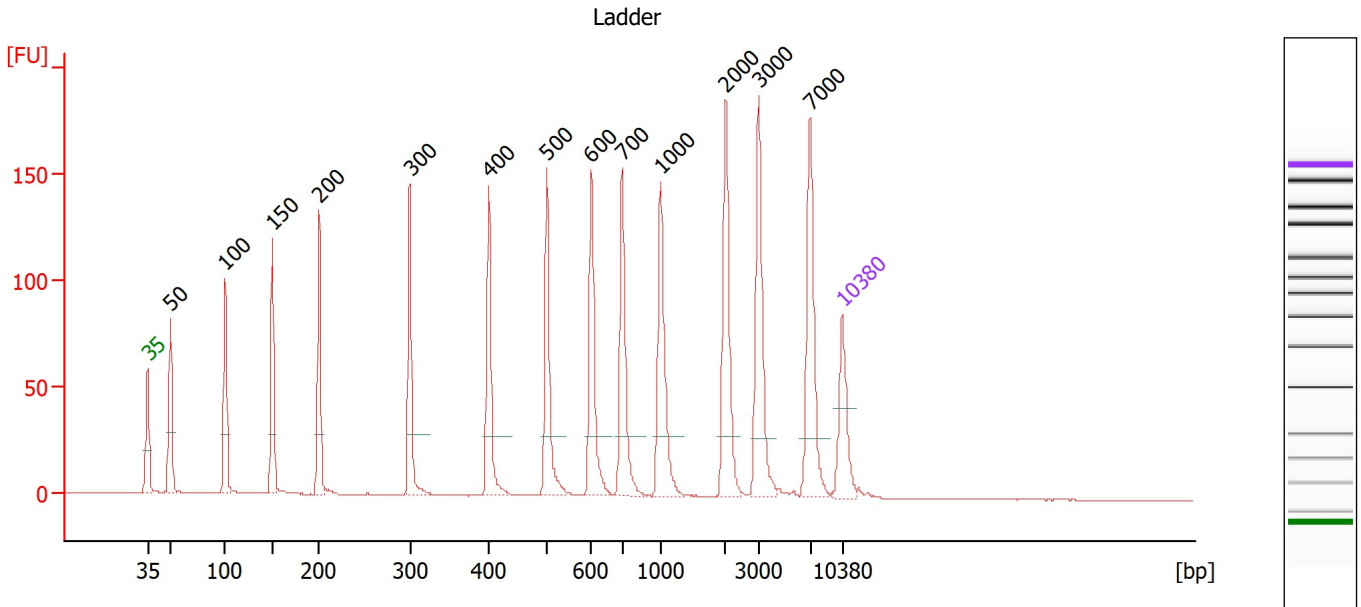
Ladder

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:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

Created: 6/14/2024 10:32:02 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

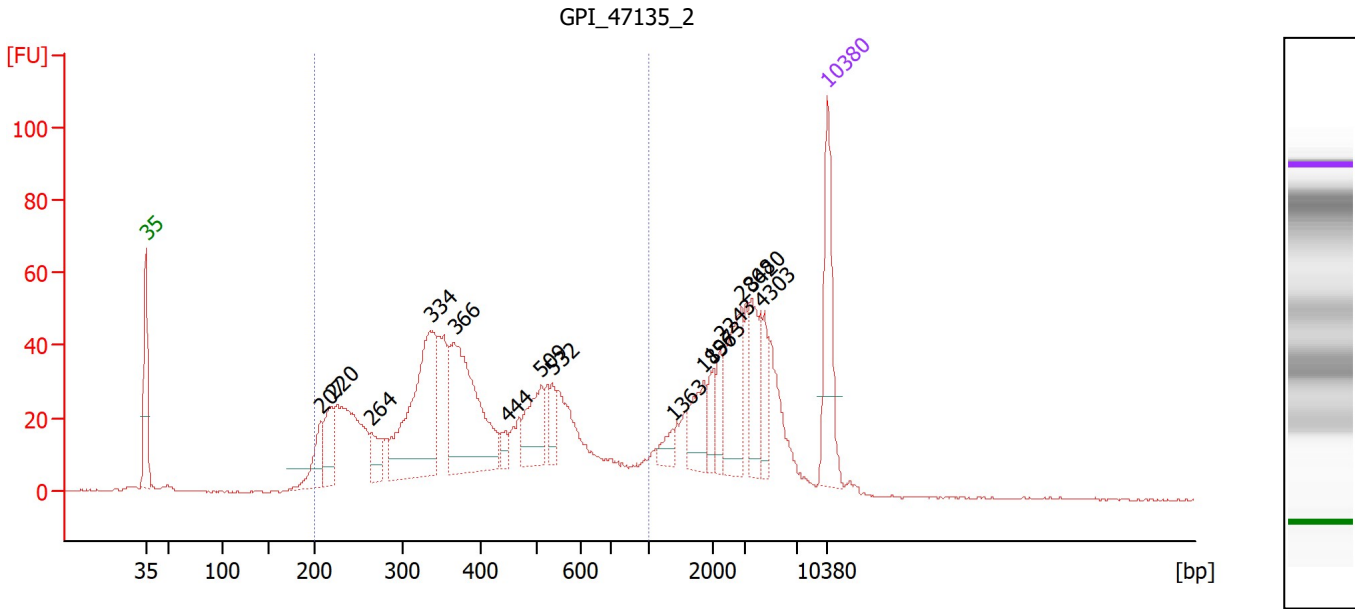
Peak table for Ladder

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:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

Created: 6/14/2024 10:32:02 AM
 Modified: 6/14/2024 11:23:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : GPI 47135 2

Number of peaks found: 15 Corr. Area 1: 1,005.0
 Noise: 0.2

Peak table for sample 1 : GPI 47135 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	207	48.50	354.5	
3	220	48.18	332.0	
4	264	32.98	189.5	
5	334	207.66	941.9	
6	366	195.80	811.1	
7	444	11.74	40.0	
8	509	57.36	170.8	
9	532	19.80	56.4	
10	1,363	12.96	14.4	
11	1,856	36.28	29.6	
12	1,973	16.15	12.4	
13	2,243	22.89	15.5	
14	2,868	68.44	36.2	
15	3,420	49.60	22.0	
16	4,303	24.72	8.7	
17	10,380	75.00	10.9	Upper Marker

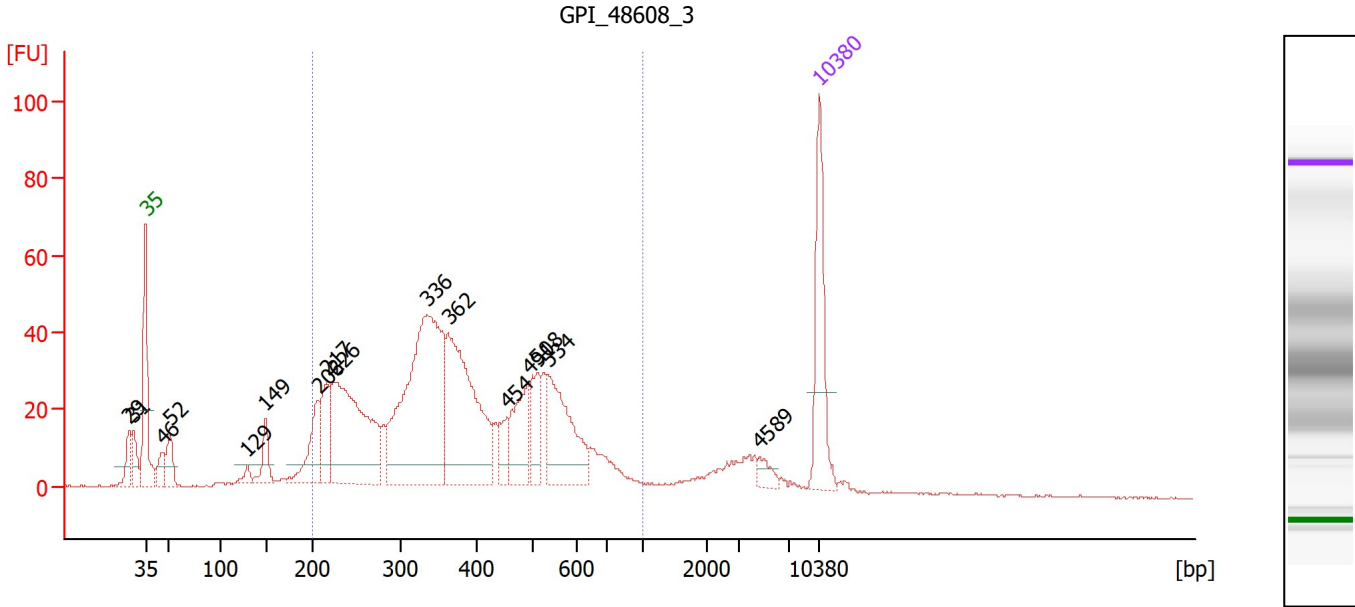
Region table for sample 1 : GPI 47135 2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,005.0	67	408	36.8	1,225.56	5,389.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

Created: 6/14/2024 10:32:02 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : GPI 48608 3

Number of peaks found: 16 Corr. Area 1: 1,046.5
 Noise: 0.2

Peak table for sample 2 : GPI 48608 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	29	0.00	0.0	
2	31	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	46	27.33	897.6	
5	52	36.34	1,056.4	
6	129	11.76	138.3	
7	149	34.95	356.0	
8	206	66.45	488.1	
9	217	59.48	416.1	
10	226	244.71	1,638.5	
11	336	334.96	1,511.6	
12	362	215.81	902.8	
13	454	22.26	74.4	
14	491	65.63	202.4	
15	508	44.55	132.8	
16	534	107.65	305.4	
17	4,589	10.42	3.4	
18	10,380	75.00	10.9	Upper Marker

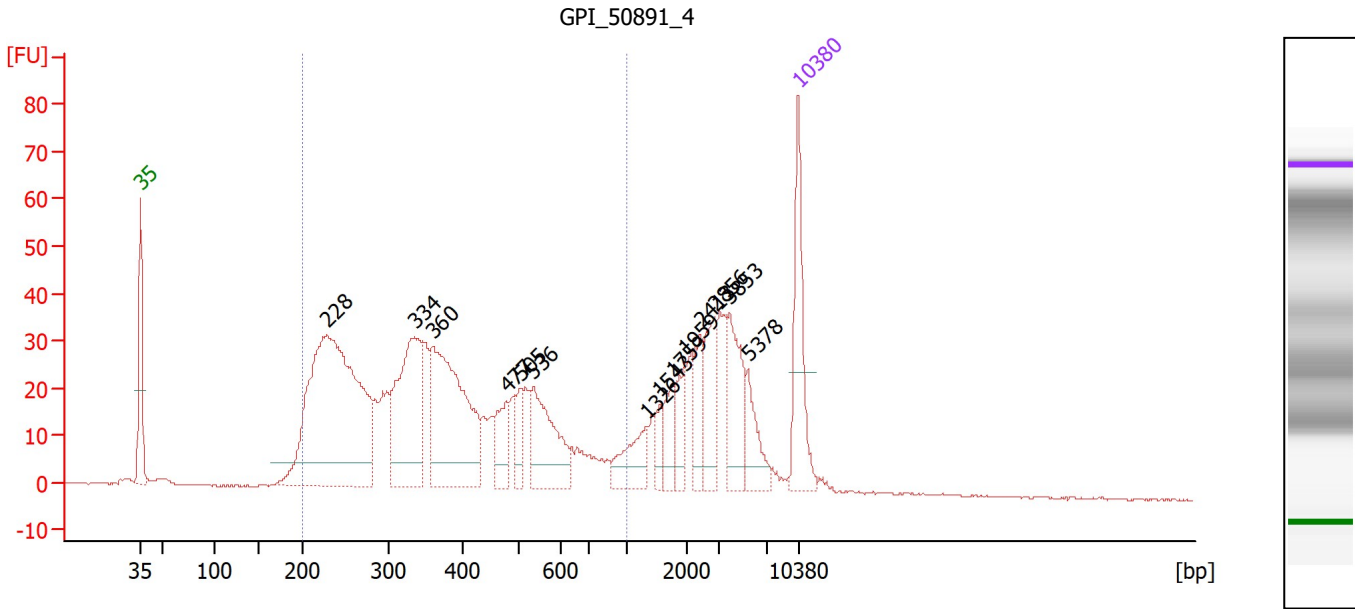
Region table for sample 2 : GPI 48608 3

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	1,046.5	80	394	34.5	1,309.94	5,903.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : GPI_50891_4

Number of peaks found: 14 Corr. Area 1: 896.7
 Noise: 0.2

Peak table for sample 3 : GPI_50891_4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	228	538.23	3,584.0	
3	334	191.71	870.0	
4	360	239.39	1,008.7	
5	477	43.09	136.9	
6	505	26.69	80.0	
7	536	93.52	264.6	
8	1,326	41.50	47.4	
9	1,543	16.85	16.5	
10	1,759	24.39	21.0	
11	1,959	30.60	23.7	
12	2,413	34.93	21.9	
13	2,856	46.21	24.5	
14	3,853	63.64	25.0	
15	5,378	34.55	9.7	
16	10,380	75.00	10.9	Upper Marker

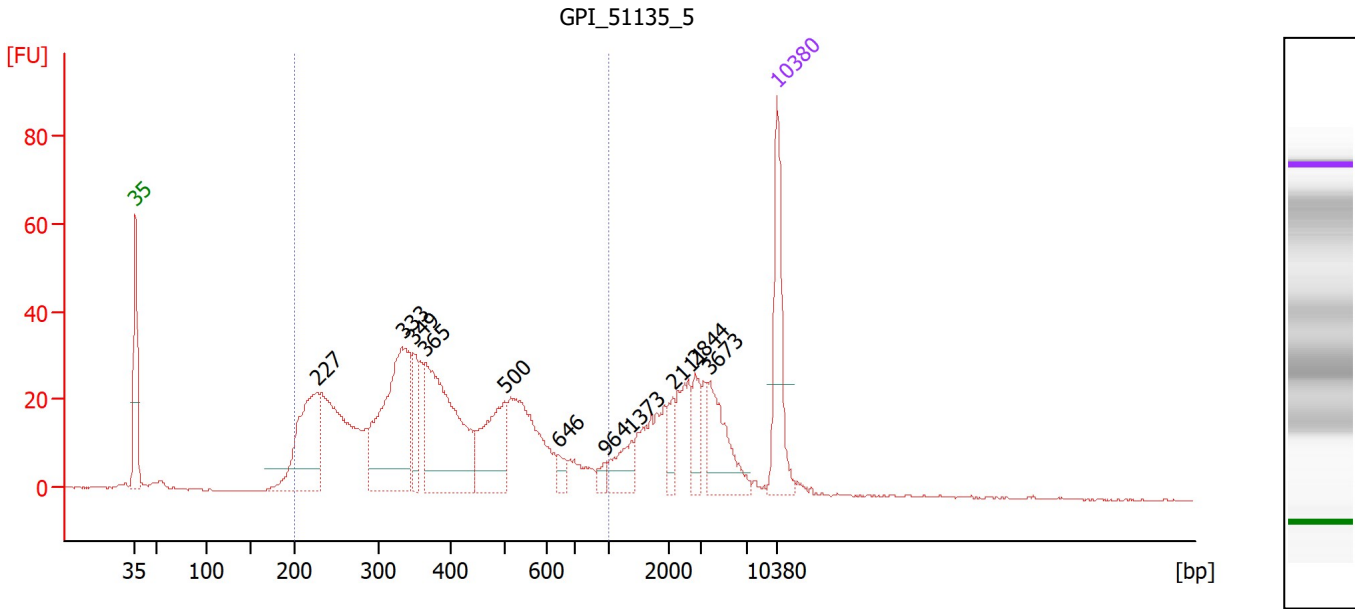
Region table for sample 3 : GPI_50891_4

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	896.7	70	386	39.3	1,363.91	6,408.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

Created: 6/14/2024 10:32:02 AM
 Modified: 6/14/2024 11:23:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : GPI 51135 5

Number of peaks found: 11 Corr. Area 1: 785.7
 Noise: 0.2

Peak table for sample 4 : GPI 51135 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	227	158.72	1,059.2	
3	333	223.48	1,016.3	
4	349	44.28	192.5	
5	365	212.56	883.3	
6	500	98.50	298.5	
7	646	11.44	26.8	
8	964	8.56	13.4	
9	1,373	29.80	32.9	
10	2,111	17.75	12.7	
11	2,844	26.89	14.3	
12	3,673	58.49	24.1	
13	10,380	75.00	10.9	Upper Marker

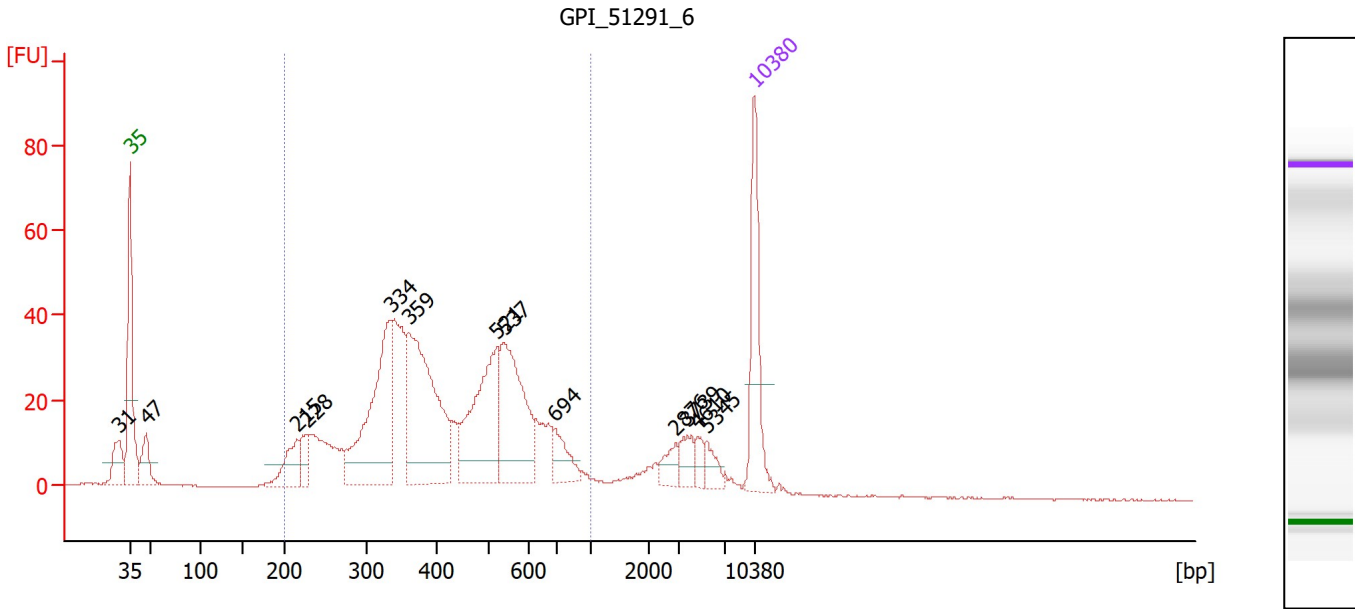
Region table for sample 4 : GPI 51135 5

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	785.7	73	398	37.4	1,136.17	5,125.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

Created: 6/14/2024 10:32:02 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : GPI 51291 6

Number of peaks found: 13 Corr. Area 1: 855.1
 Noise: 0.2

Peak table for sample 5 : GPI 51291 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	47	44.69	1,451.6	
4	215	49.19	345.9	
5	228	27.71	184.2	
6	334	188.17	854.4	
7	359	220.24	928.8	
8	521	144.56	420.4	
9	537	135.32	381.9	
10	694	29.21	63.7	
11	2,876	15.24	8.0	
12	3,739	18.00	7.3	
13	4,610	10.52	3.5	
14	5,345	14.16	4.0	
15	10,380	75.00	10.9	Upper Marker

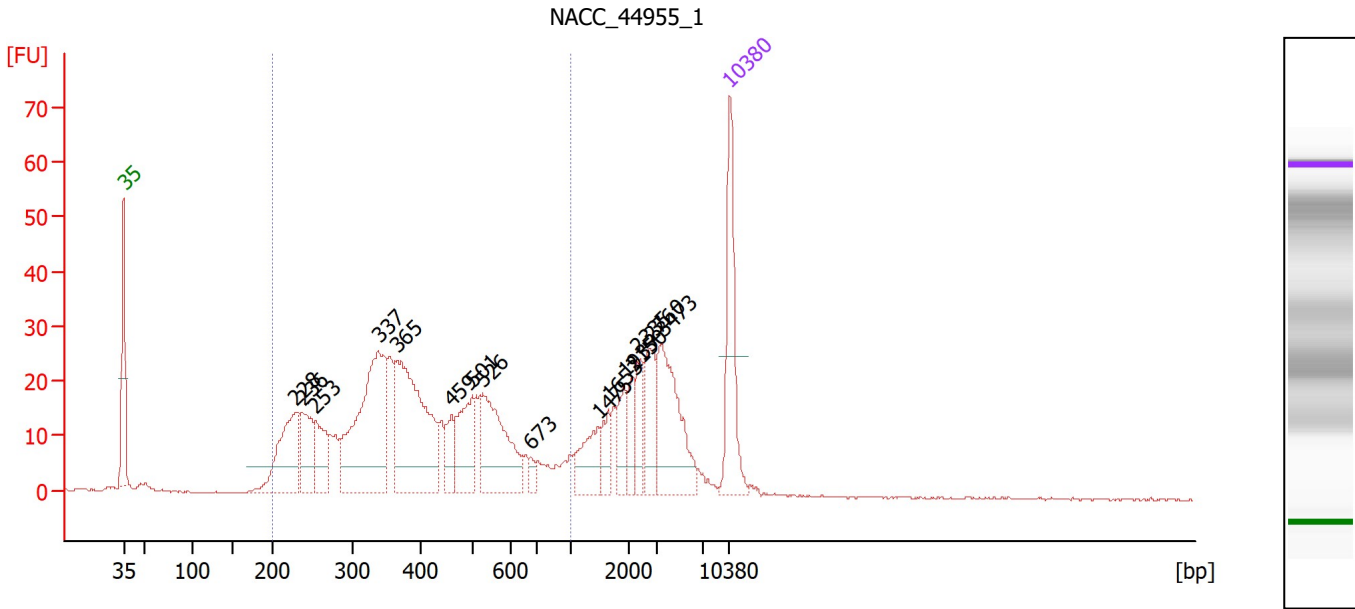
Region table for sample 5 : GPI 51291 6

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	855.1	83	435	33.1	1,106.34	4,487.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : NACC 44955 1

Number of peaks found: 16 Corr. Area 1: 601.5
 Noise: 0.2

Peak table for sample 6 : NACC 44955 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	228	115.00	765.4	
3	236	68.55	440.6	
4	253	53.52	320.2	
5	337	223.94	1,007.1	
6	365	204.31	848.6	
7	459	26.73	88.1	
8	501	64.61	195.6	
9	526	111.29	320.3	
10	673	8.28	18.7	
11	1,475	37.30	38.3	
12	1,653	18.29	16.8	
13	1,935	26.97	21.1	
14	2,150	18.44	13.0	
15	2,335	27.70	18.0	
16	2,760	40.49	22.2	
17	3,473	90.60	39.5	
18	10,380	75.00	10.9	Upper Marker

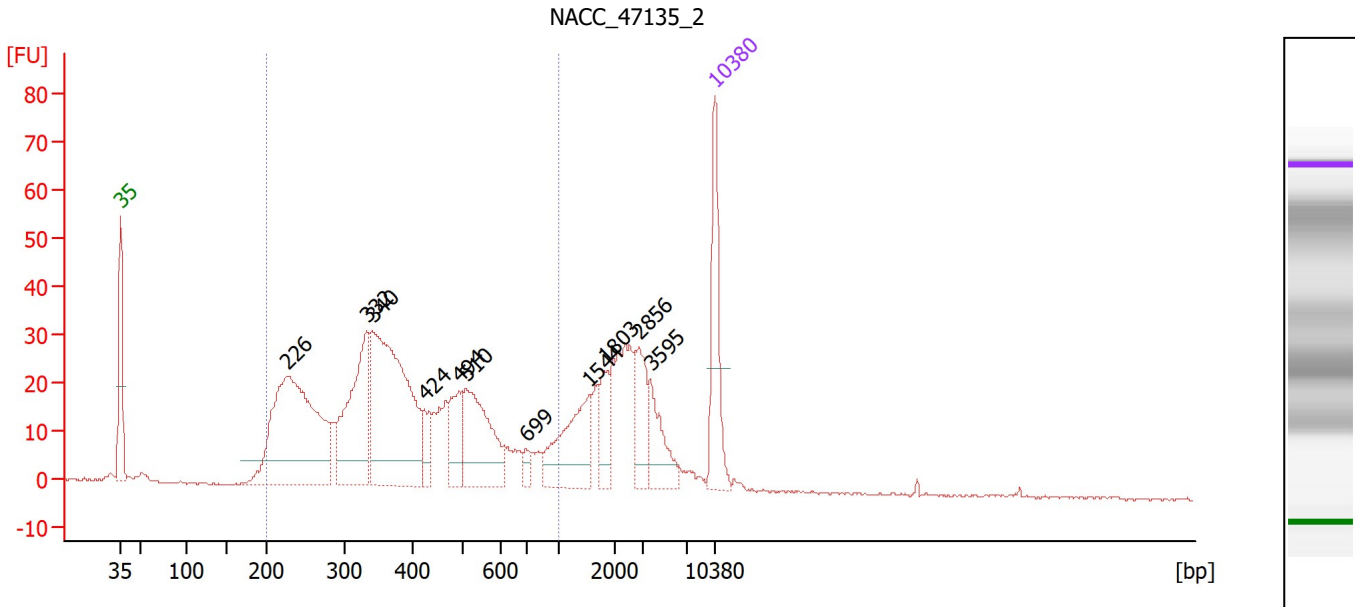
Region table for sample 6 : NACC 44955 1

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	601.5	70	410	36.6	1,029.93	4,489.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : NACC 47135 2

Number of peaks found: 11 Corr. Area 1: 736.6
 Noise: 0.2

Peak table for sample 7 : NACC 47135 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	226	377.68	2,534.9	
3	332	177.48	809.1	
4	340	321.86	1,433.2	
5	424	26.07	93.2	
6	494	52.72	161.8	
7	510	124.65	370.4	
8	699	9.28	20.1	
9	1,544	84.28	82.7	
10	1,803	33.71	28.3	
11	2,856	43.55	23.1	
12	3,595	43.01	18.1	
13	10,380	75.00	10.9	Upper Marker

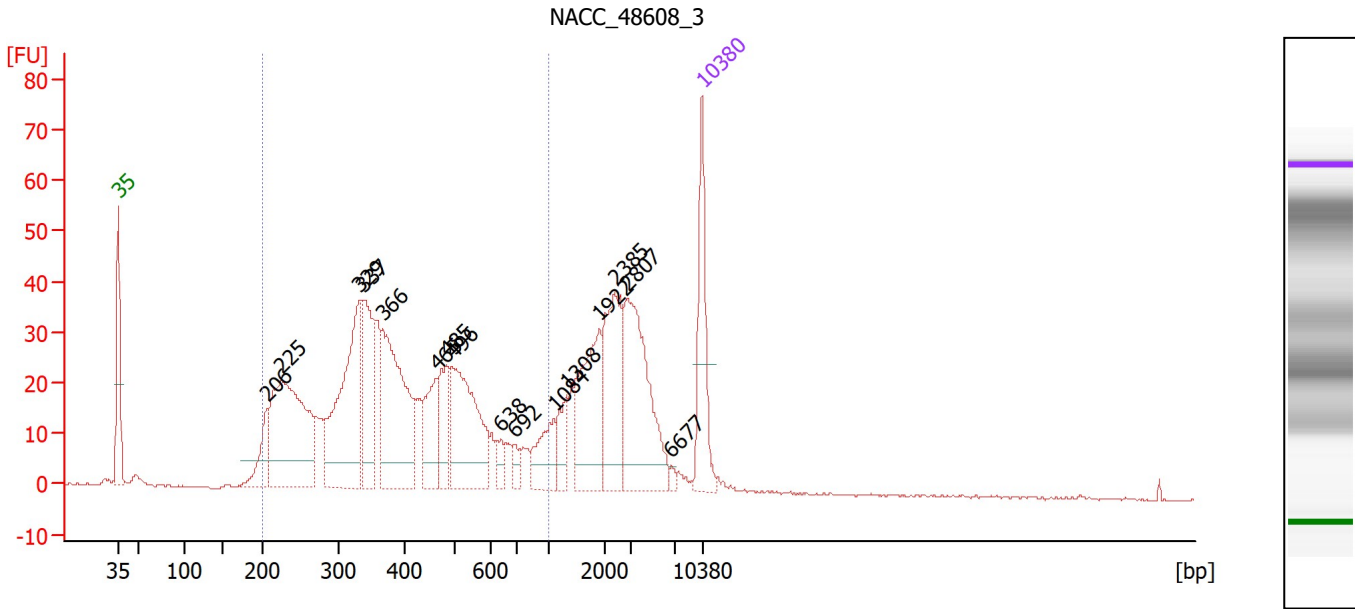
Region table for sample 7 : NACC 47135 2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	736.6	72	403	39.0	1,175.61	5,284.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : NACC 48608 3

Number of peaks found: 16 Corr. Area 1: 818.3
 Noise: 0.2

Peak table for sample 8 : NACC 48608 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	206	52.83	388.8	
3	225	287.20	1,935.9	
4	329	222.74	1,024.6	
5	337	106.51	478.3	
6	366	203.55	841.8	
7	465	67.65	220.6	
8	485	60.44	188.7	
9	496	162.09	494.9	
10	638	15.31	36.4	
11	692	11.25	24.6	
12	1,084	44.47	62.2	
13	1,308	28.07	32.5	
14	1,922	99.97	78.8	
15	2,385	100.09	63.6	
16	2,807	144.95	78.2	
17	6,677	3.95	0.9	
18	10,380	75.00	10.9	Upper Marker

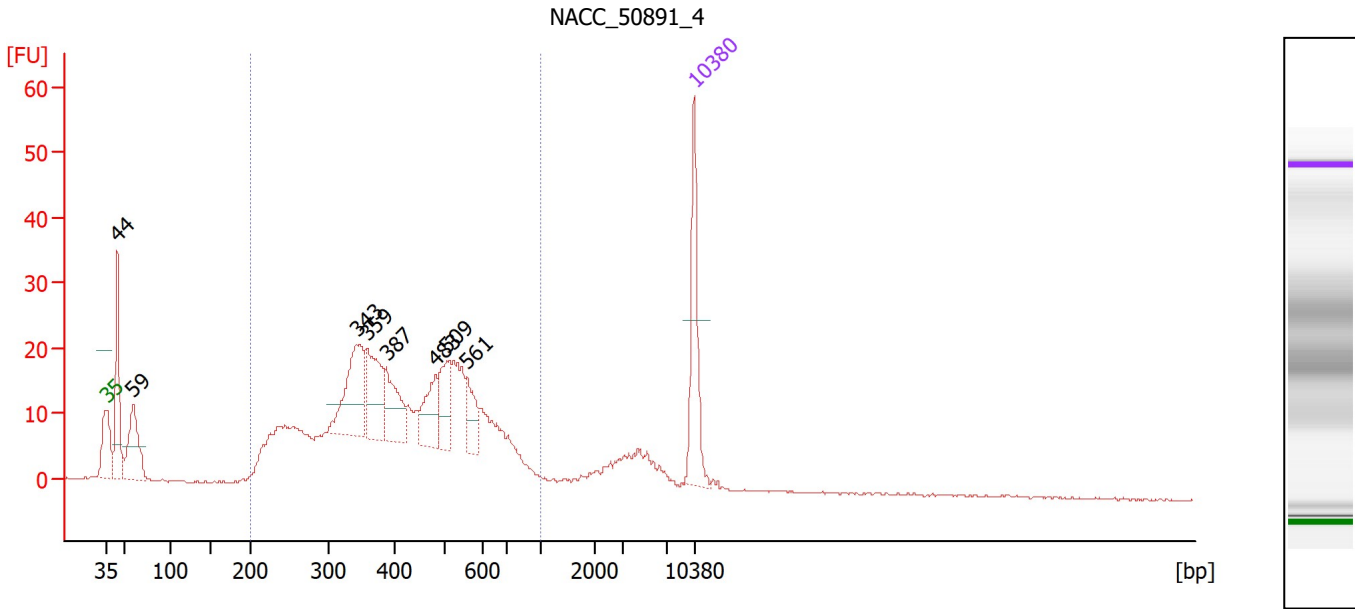
Region table for sample 8 : NACC 48608 3

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	818.3	68	410	38.3	1,391.60	6,115.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : NACC 50891 4

Number of peaks found: 8 Corr. Area 1: 497.5
 Noise: 0.2

Peak table for sample 9 : NACC 50891 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	127.63	4,389.3	
3	59	109.54	2,816.8	
4	343	108.21	477.8	
5	359	81.72	344.8	
6	387	62.00	242.7	
7	483	50.99	159.9	
8	509	47.95	142.7	
9	561	35.19	95.1	
10	10,380	75.00	10.9	Upper Marker

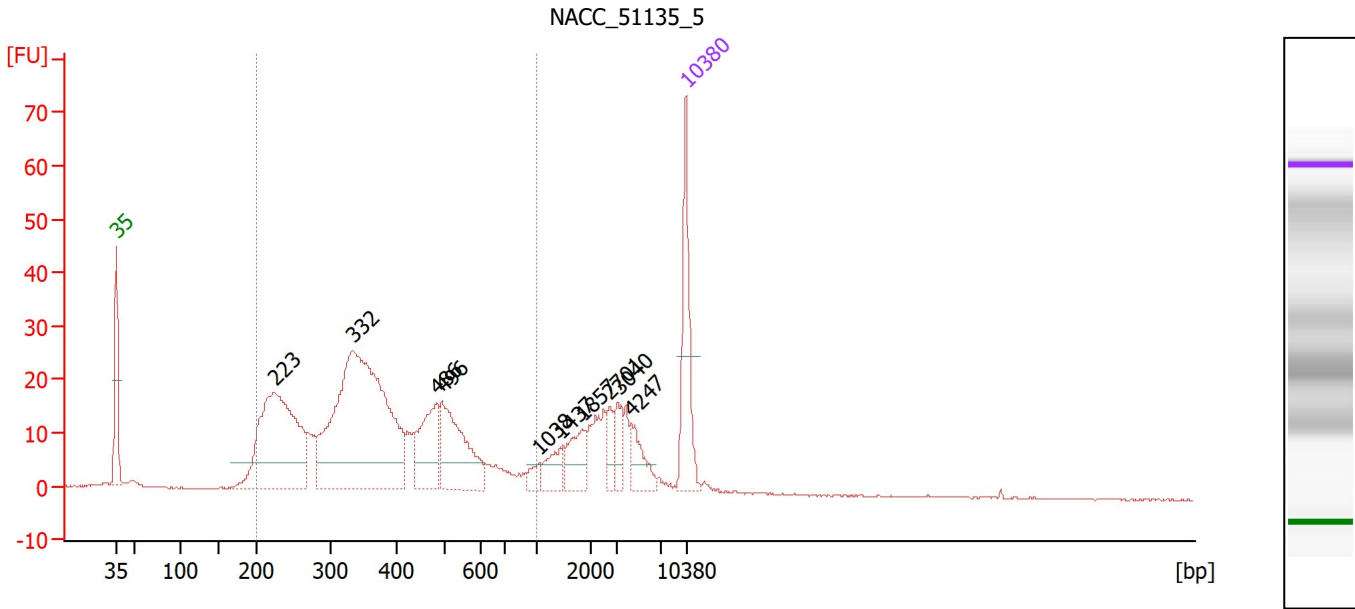
Region table for sample 9 : NACC 50891 4

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	497.5	80	435	32.4	1,167.30	4,722.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : NACC 51135 5

Number of peaks found: 10 Corr. Area 1: 549.9
 Noise: 0.1

Peak table for sample 10 : NACC 51135 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	223	313.79	2,133.7	
3	332	481.32	2,193.9	
4	486	83.35	259.8	
5	496	115.18	351.8	
6	1,038	11.11	16.2	
7	1,437	24.39	25.7	
8	1,857	33.99	27.7	
9	2,701	16.82	9.4	
10	3,040	19.65	9.8	
11	4,247	28.39	10.1	
12	10,380	75.00	10.9	Upper Marker

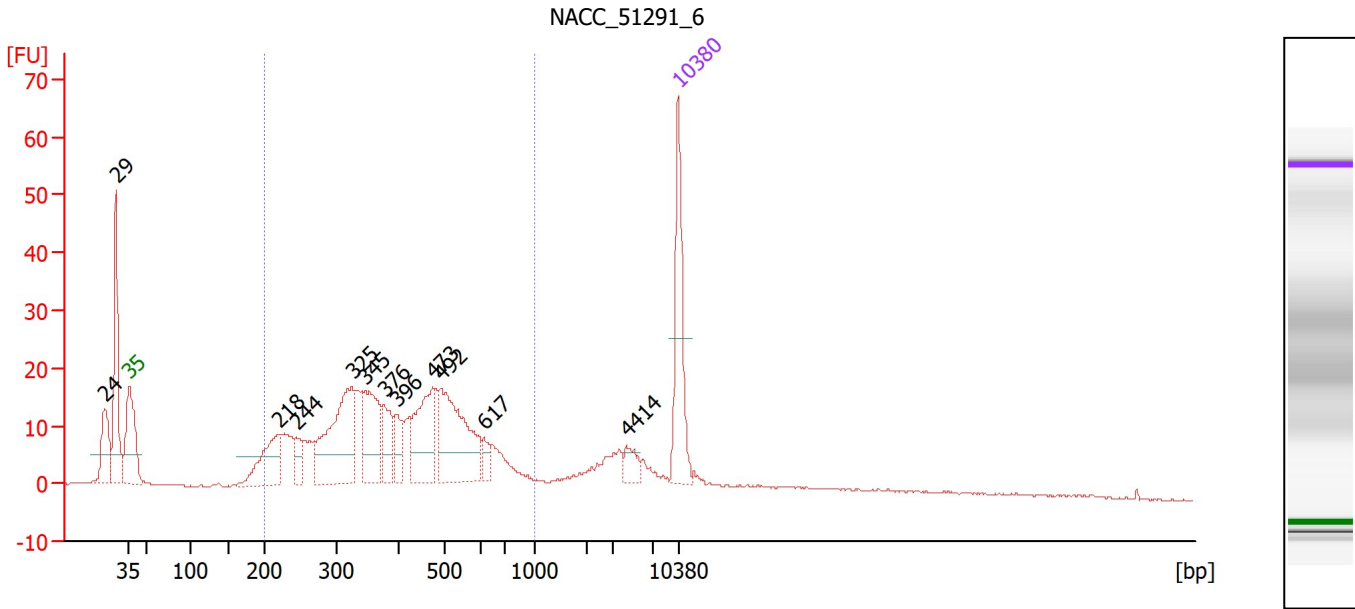
Region table for sample 10 : NACC 51135 5

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	549.9	77	384	36.5	1,053.90	4,863.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

Created: 6/14/2024 10:32:02 AM
 Modified: 6/14/2024 11:23:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : NACC 51291 6

Number of peaks found: 12 Corr. Area 1: 447.5
 Noise: 0.2

Peak table for sample 11 : NACC 51291 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	24	0.00	0.0	
2	29	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	218	81.40	565.2	
5	244	22.92	142.6	
6	325	149.22	696.0	
7	345	84.03	368.7	
8	376	40.48	163.0	
9	396	26.56	101.7	
10	473	86.91	278.3	
11	492	125.23	385.8	
12	617	12.16	29.9	
13	4,414	13.76	4.7	
14	10,380	75.00	10.9	Upper Marker

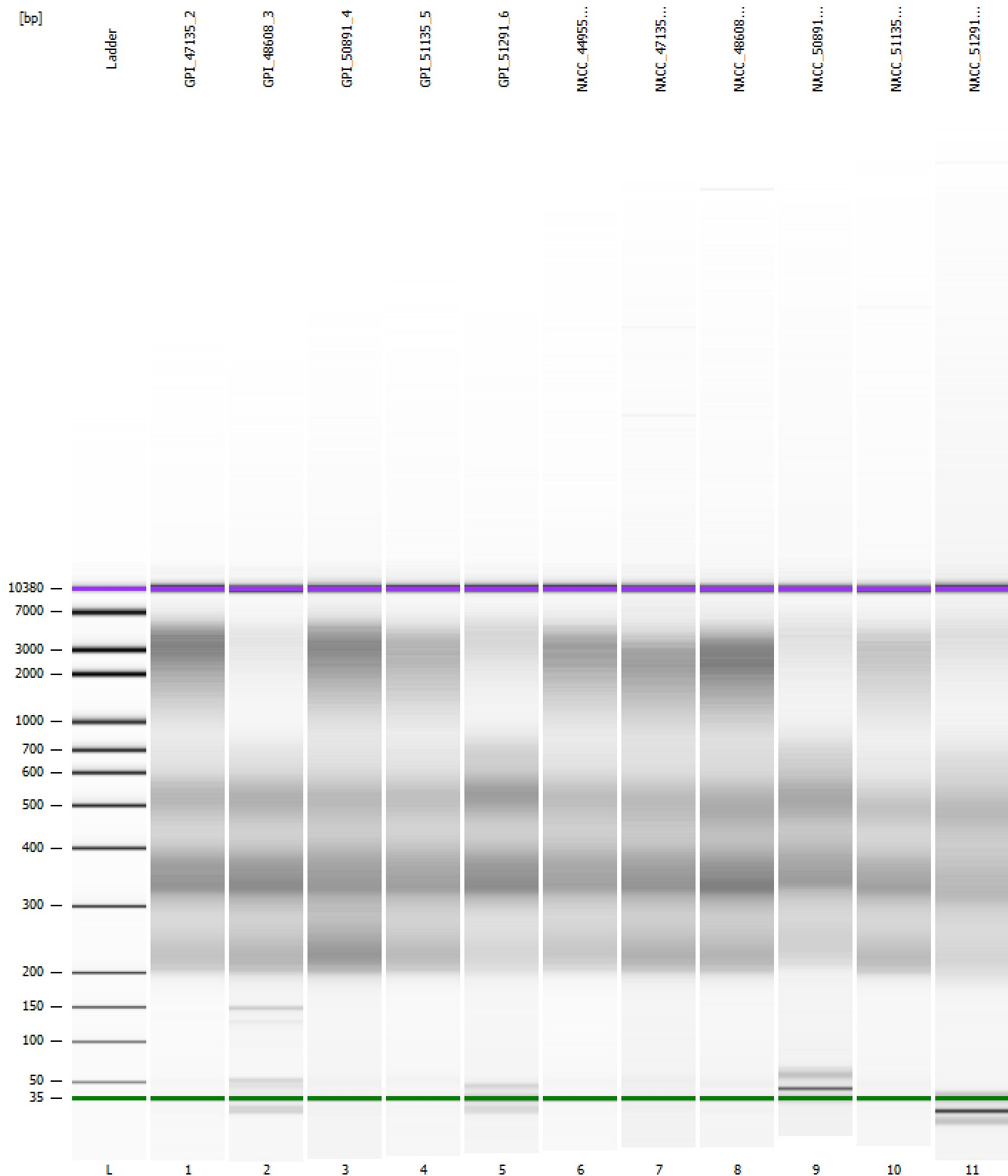
Region table for sample 11 : NACC 51291 6

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	447.5	69	415	33.8	871.35	3,705.6	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

Created: 6/14/2024 10:32:02 AM
Modified: 6/14/2024 11:23:06 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad

Created: 6/14/2024 10:32:02 AM
 Modified: 6/14/2024 11:23:06 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		6/14/2024 11:13:24 AM	(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\2024-06-14\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2024-06-14_001.xad)		Instrument	Run		6/14/2024 10:32:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/14/2024 10:32:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/14/2024 10:32:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/14/2024 10:32:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/14/2024 10:32:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/14/2024 10:32:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/14/2024 10:32:09 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB