

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_002.xad

Created: 6/30/2017 1:39:23 PM
Modified: 6/30/2017 2:20:44 PM

Electrophoresis File Run Summary

Instrument Information:

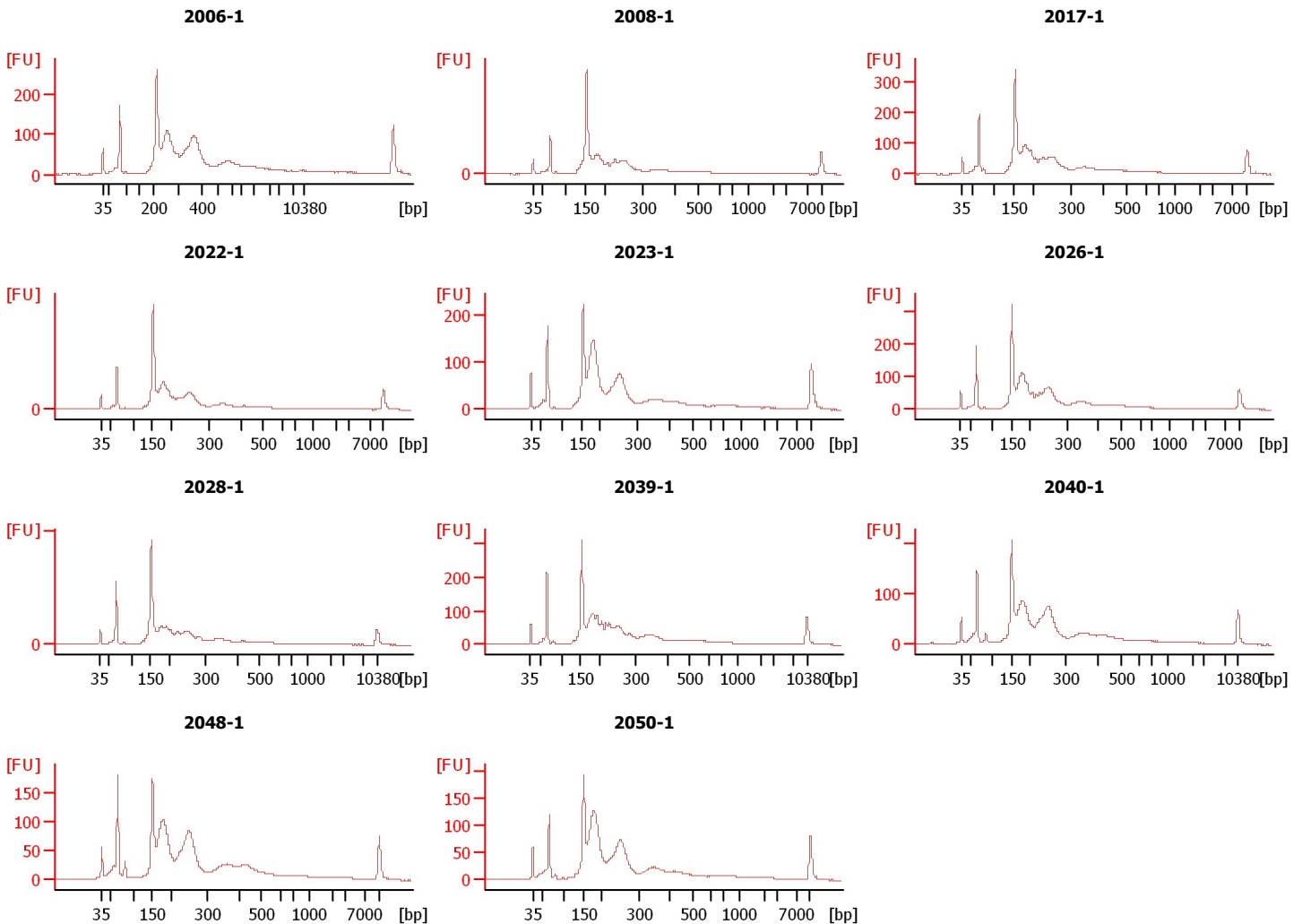
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
2006-1		<input type="checkbox"/>	✓			
2008-1		<input type="checkbox"/>	✓			
2017-1		<input type="checkbox"/>	✓			
2022-1		<input type="checkbox"/>	✓			
2023-1		<input type="checkbox"/>	✓			
2026-1		<input type="checkbox"/>	✓			
2028-1		<input type="checkbox"/>	✓			
2039-1		<input type="checkbox"/>	✓			
2040-1		<input type="checkbox"/>	✓			
2048-1		<input type="checkbox"/>	✓			
2050-1		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

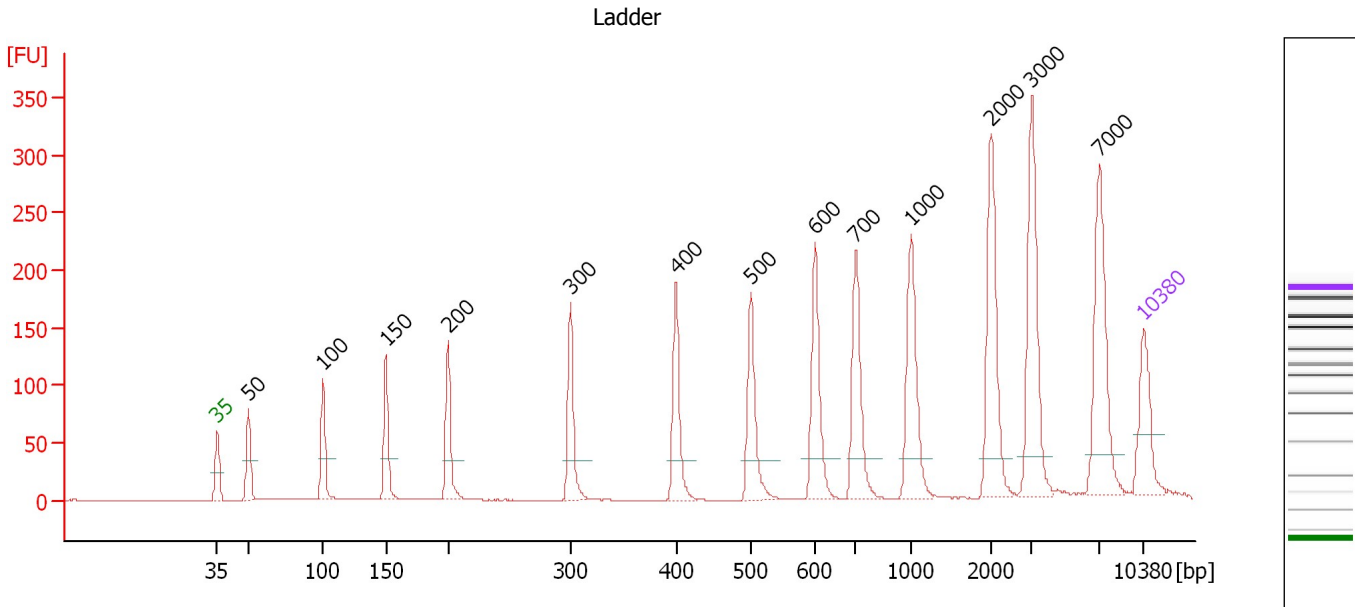
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

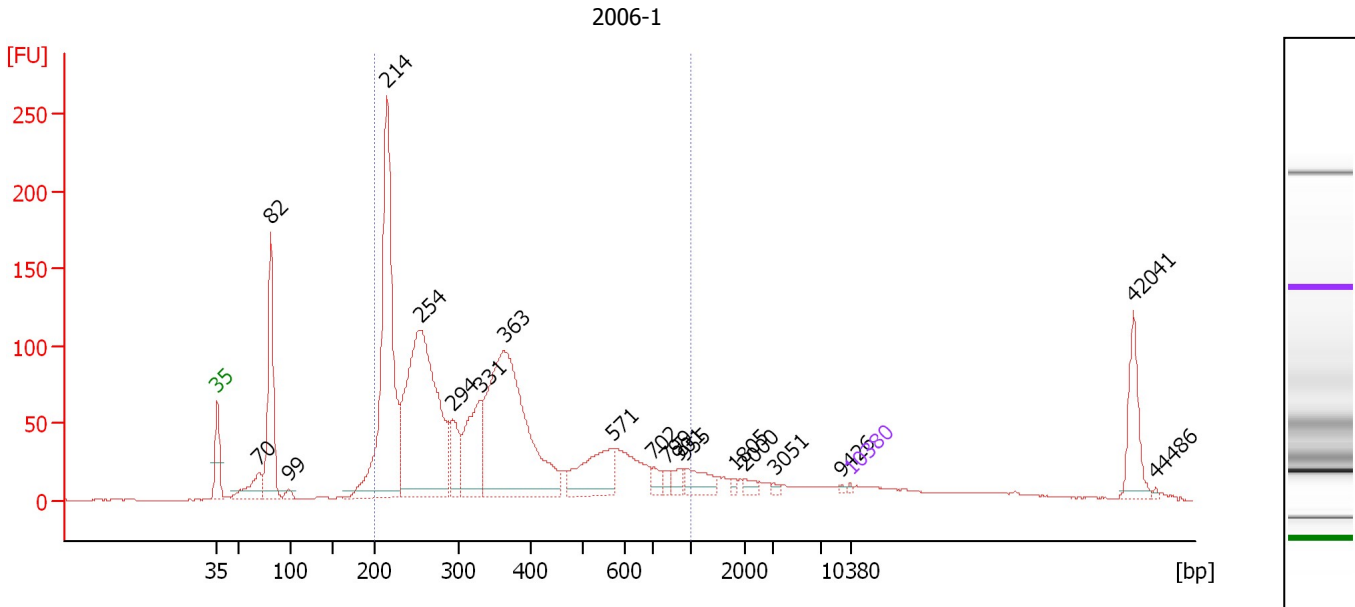
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.34
3	100	150.00	2,272.7	Ladder Peak	50.97
4	150	150.00	1,515.2	Ladder Peak	55.73
5	200	150.00	1,136.4	Ladder Peak	60.44
6	300	150.00	757.6	Ladder Peak	69.66
7	400	150.00	568.2	Ladder Peak	77.64
8	500	150.00	454.5	Ladder Peak	83.32
9	600	150.00	378.8	Ladder Peak	88.15
10	700	150.00	324.7	Ladder Peak	91.21
11	1,000	150.00	227.3	Ladder Peak	95.40
12	2,000	150.00	113.6	Ladder Peak	101.44
13	3,000	150.00	75.8	Ladder Peak	104.50
14	7,000	150.00	32.5	Ladder Peak	109.66
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 2006-1

Number of peaks found: 19 Corr. Area 1: 2,214.1
 Noise: 0.2

Peak table for sample 1 : 2006-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	70	2,611.70	56,470.5		47.60
3	82	9,536.40	177,119.0		48.90
4	99	406.72	6,235.0		50.84
5	214	20,936.72	148,067.4		61.75
6	254	22,145.49	132,161.7		65.41
7	294	2,553.05	13,178.6		69.07
8	331	5,352.91	24,505.4		72.13
9	363	18,863.46	78,786.6		74.67
10	571	4,026.23	10,680.0		86.76
11	702	612.20	1,321.2		91.24
12	799	430.60	816.3		92.60
13	901	500.18	841.5		94.01
14	955	1,377.64	2,184.6		94.78
15	1,805	184.86	155.2		100.26
16	2,000	310.58	235.3		101.44
17	3,051	147.52	73.3		104.57
18	9,426	80.45	12.9		112.06
19	10,380	75.00	10.9	Upper Marker	113.00
20	42,041	0.00	0.0		144.31
21	44,486	0.00	0.0		146.73

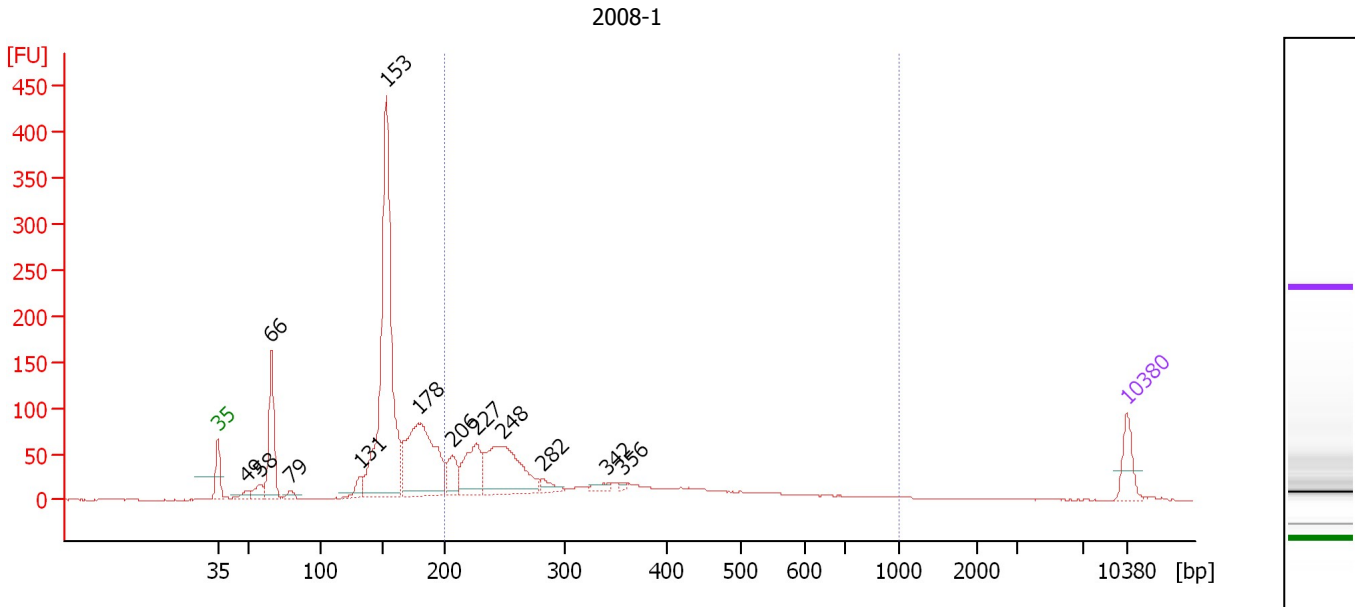
Region table for sample 1 : 2006-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	360	2,214.0	413,457.8	81,302.30	74	44.2

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 2008-1

Number of peaks found: 13 Corr. Area 1: 985.0
 Noise: 0.3

Peak table for sample 2 : 2008-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	49	39.06	1,195.7		45.26
3	58	65.81	1,728.7		46.20
4	66	370.68	8,549.7		47.11
5	79	30.41	582.0		48.62
6	131	63.12	730.1		53.92
7	153	1,519.59	15,086.5		55.97
8	178	714.60	6,072.0		58.40
9	206	116.19	853.2		61.02
10	227	244.49	1,633.3		62.91
11	248	450.85	2,752.5		64.88
12	282	41.00	220.6		67.96
13	342	25.73	114.0		73.01
14	356	9.98	42.5		74.12
15	10,380	75.00	10.9	Upper Marker	113.00

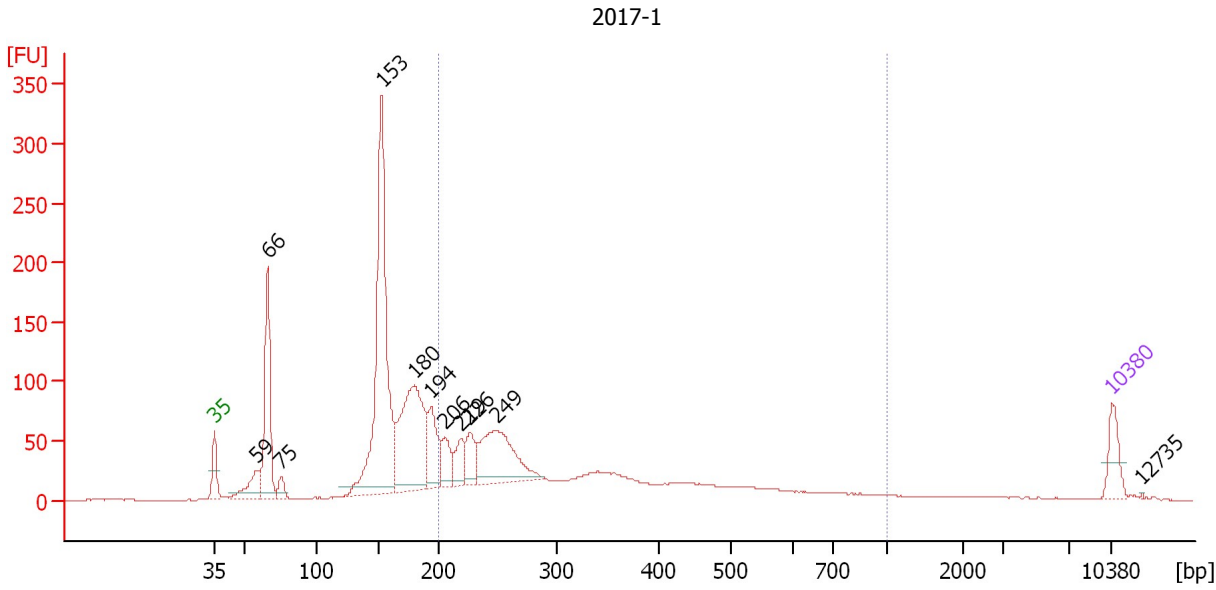
Region table for sample 2 : 2008-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	329	985.0	8,514.8	1,566.09	38	42.3

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 2017-1

Number of peaks found: 11 Corr. Area 1: 1,085.3
 Noise: 0.3

Peak table for sample 3 : 2017-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	59	498.36	3,957.7		46.33
3	66	498.36	11,475.8		47.12
4	75	51.34	1,031.8		48.20
5	153	1,287.41	12,741.8		56.02
6	180	690.15	5,809.0		58.56
7	194	212.31	1,657.1		59.89
8	206	114.72	844.9		60.97
9	219	105.34	729.4		62.17
10	226	117.70	787.4		62.88
11	249	410.37	2,501.4		64.92
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,735	0.00	0.0		115.33

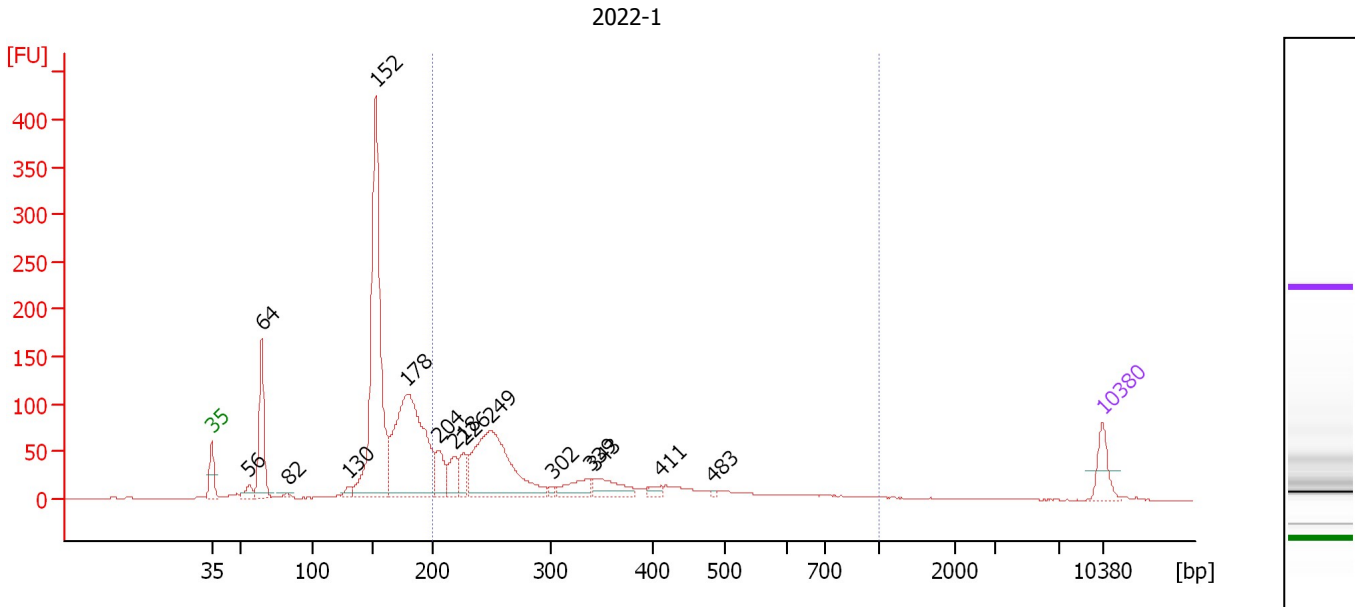
Region table for sample 3 : 2017-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	340	1,085.3	10,018.3	1,880.82	41	43.0

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 2022-1

Number of peaks found: 15 Corr. Area 1: 1,015.0
 Noise: 0.3

Peak table for sample 4 : 2022-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	56	51.25	1,395.2		45.97
3	64	402.67	9,502.7		46.94
4	82	15.13	278.2		48.99
5	130	35.15	410.3		53.81
6	152	1,453.65	14,503.6		55.90
7	178	1,090.40	9,300.5		58.33
8	204	129.73	963.8		60.80
9	218	118.82	825.7		62.10
10	226	100.46	672.9		62.86
11	249	720.73	4,387.1		64.95
12	302	14.17	71.0		69.85
13	339	99.80	446.5		72.74
14	343	110.23	487.2		73.08
15	411	26.76	98.6		78.27
16	483	5.87	18.4		82.34
17	10,380	75.00	10.9	Upper Marker	113.00

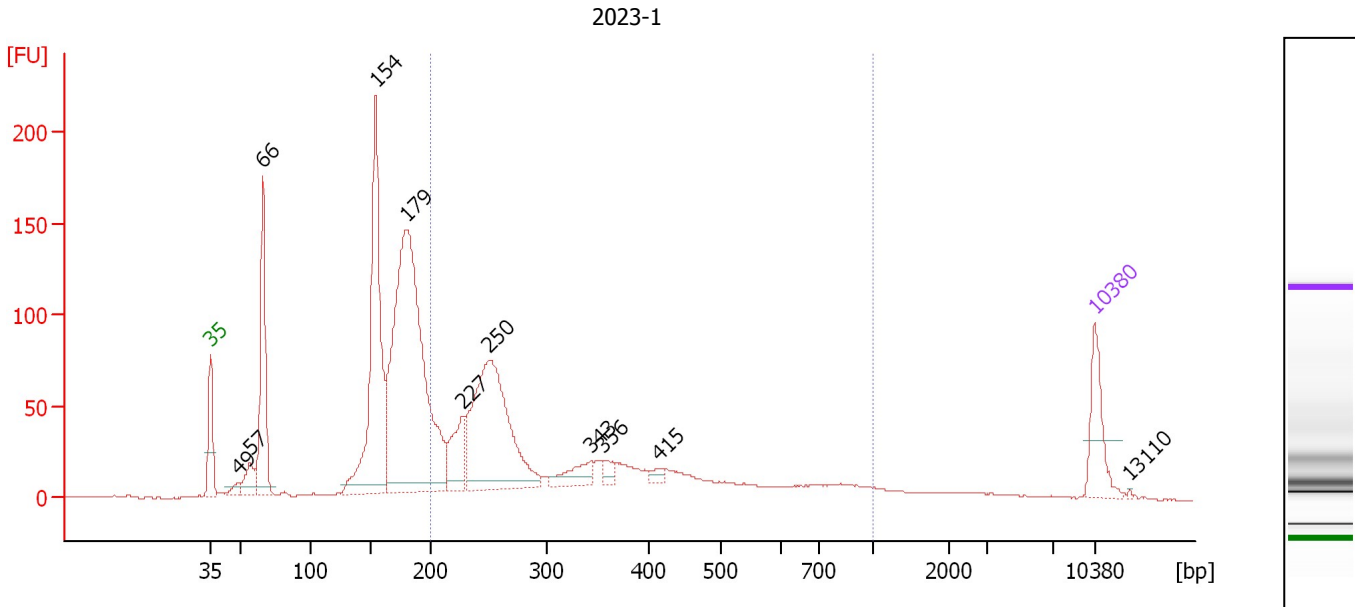
Region table for sample 4 : 2022-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	326	1,015.0	9,548.8	1,752.34	39	41.9

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 2023-1

Number of peaks found: 11 Corr. Area 1: 1,052.0
 Noise: 0.3

Peak table for sample 5 : 2023-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	49	22.81	704.1		45.19
3	57	62.00	1,648.7		46.12
4	66	323.44	7,430.5		47.14
5	154	604.94	5,961.7		56.08
6	179	1,103.52	9,327.1		58.49
7	227	118.36	789.0		62.96
8	250	531.11	3,222.5		65.03
9	343	56.16	247.8		73.13
10	356	24.36	103.8		74.10
11	415	13.48	49.2		78.49
12	10,380	75.00	10.9	Upper Marker	113.00
13	13,110	0.00	0.0		115.70

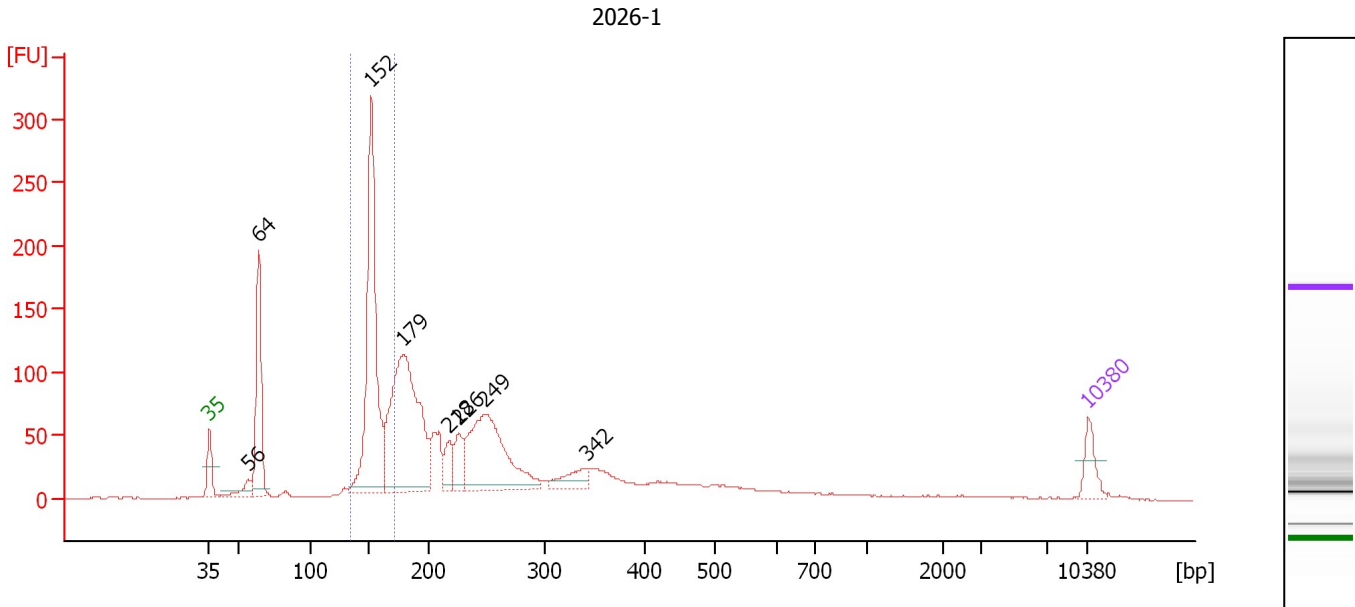
Region table for sample 5 : 2023-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	348	1,052.0	7,155.1	1,355.98	42	45.6

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 2026-1

Number of peaks found: 8 Corr. Area 1: 643.1
 Noise: 0.2

Peak table for sample 6 : 2026-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	56	76.06	2,043.3		46.06
3	64	559.86	13,267.3		46.91
4	152	1,244.85	12,411.5		55.91
5	179	1,243.84	10,528.1		58.46
6	218	106.85	742.1		62.11
7	226	134.19	897.8		62.88
8	249	732.29	4,447.5		65.00
9	342	95.27	422.5		72.99
10	10,380	75.00	10.9	Upper Marker	113.00

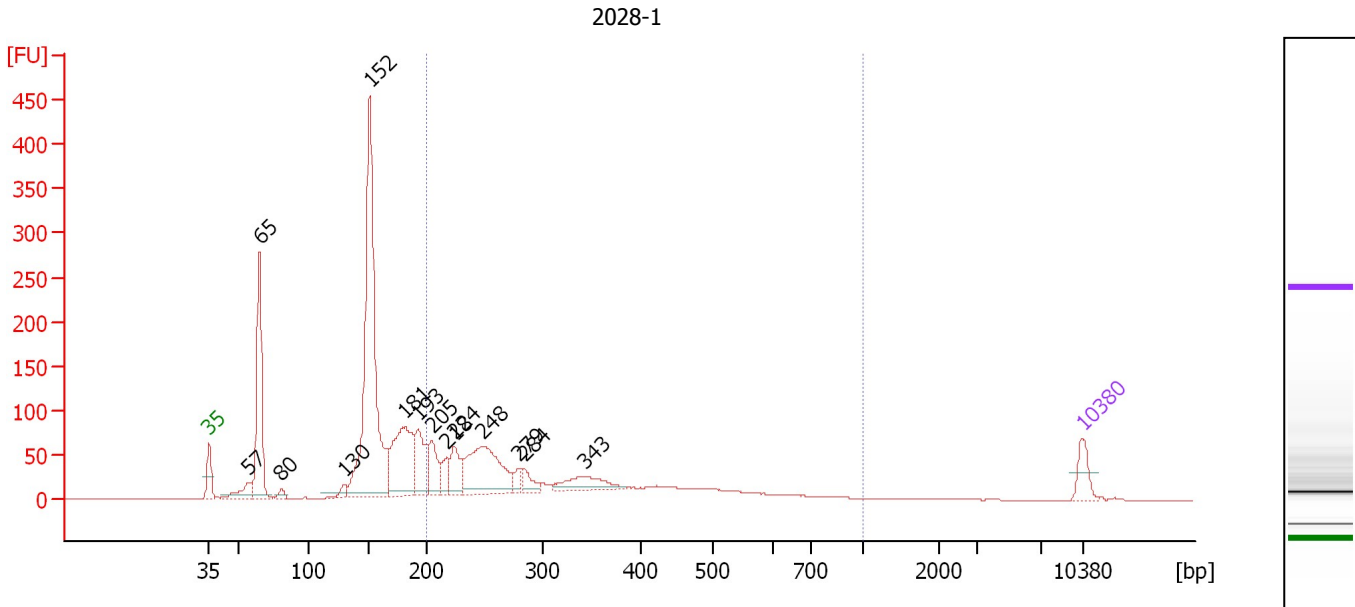
Region table for sample 6 : 2026-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
134	172	155	643.1	15,555.4	1,584.99	26	5.0

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 2028-1

Number of peaks found: 14 Corr. Area 1: 1,118.2
 Noise: 0.2

Peak table for sample 7 : 2028-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	57	125.28	3,332.0		46.12
3	65	718.56	16,768.2		47.02
4	80	30.93	582.3		48.77
5	130	47.63	555.4		53.82
6	152	1,831.01	18,308.8		55.87
7	181	557.04	4,662.5		58.65
8	193	263.66	2,071.9		59.76
9	205	178.06	1,317.9		60.87
10	218	94.59	658.4		62.07
11	224	164.56	1,112.2		62.67
12	248	527.84	3,221.0		64.89
13	279	50.95	276.3		67.76
14	284	73.73	392.7		68.23
15	343	163.01	720.9		73.06
16	10,380	75.00	10.9	Upper Marker	113.00

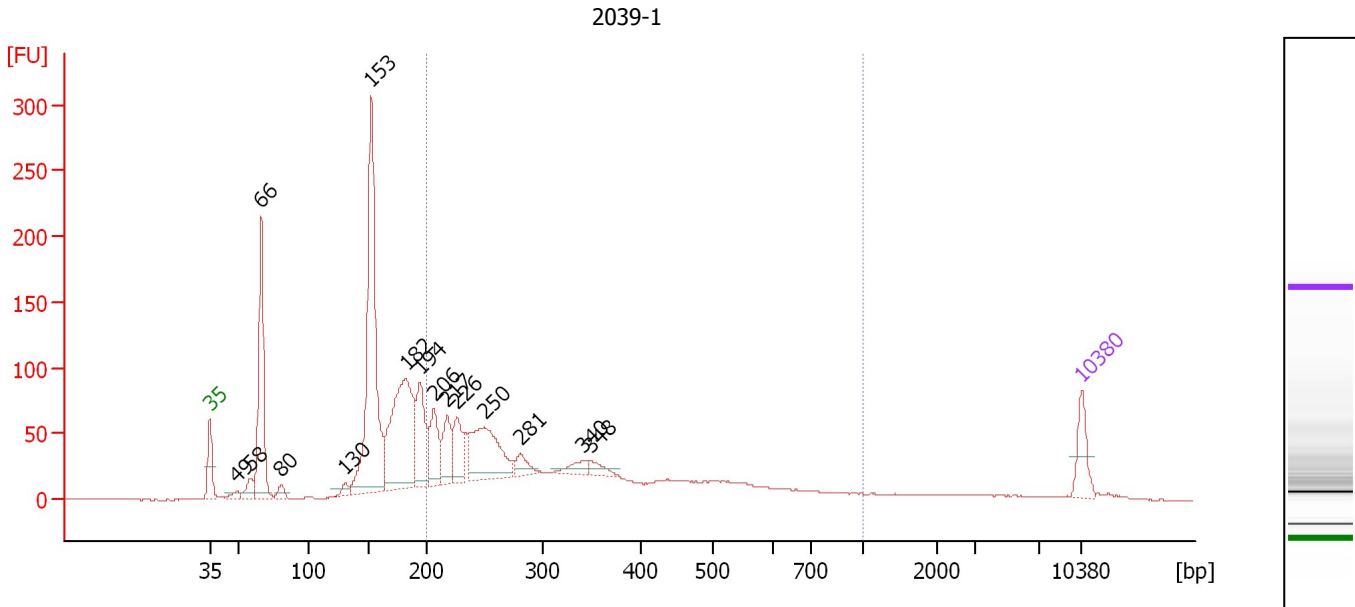
Region table for sample 7 : 2028-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	331	1,118.2	11,255.9	2,099.56	40	40.3

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 2039-1

Number of peaks found: 15 Corr. Area 1: 1,191.1
 Noise: 0.2

Peak table for sample 8 : 2039-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	49	30.33	937.4		45.18
3	58	63.68	1,659.6		46.25
4	66	560.03	12,909.0		47.11
5	80	36.73	694.2		48.74
6	130	27.27	317.7		53.83
7	153	1,041.95	10,345.3		55.97
8	182	660.01	5,504.4		58.71
9	194	254.07	1,984.9		59.87
10	206	168.48	1,239.9		60.98
11	217	138.16	962.5		62.05
12	226	141.31	948.1		62.82
13	250	343.51	2,086.0		65.01
14	281	56.01	301.9		67.92
15	340	47.11	209.7		72.88
16	348	39.80	173.1		73.53
17	10,380	75.00	10.9	Upper Marker	113.00

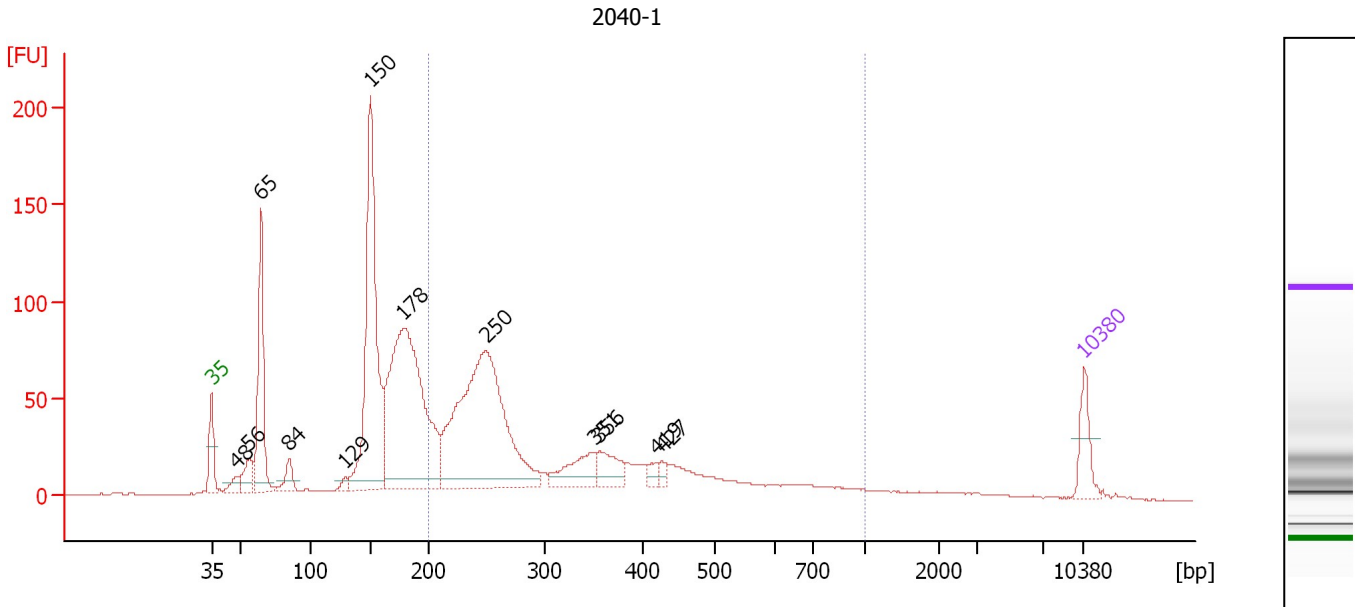
Region table for sample 8 : 2039-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	342	1,191.1	11,696.4	2,208.61	46	42.8

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 2040-1

Number of peaks found: 12 Corr. Area 1: 1,059.0
 Noise: 0.2

Peak table for sample 9 : 2040-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	48	48.62	1,537.5		45.01
3	56	97.68	2,632.4		46.04
4	65	476.14	11,172.5		46.98
5	84	70.51	1,267.3		49.20
6	129	20.50	241.5		53.70
7	150	1,013.15	10,216.9		55.75
8	178	1,247.23	10,593.0		58.40
9	250	1,179.36	7,152.5		65.04
10	351	137.05	590.9		73.76
11	356	101.88	433.9		74.11
12	419	27.35	98.8		78.73
13	427	20.10	71.2		79.20
14	10,380	75.00	10.9	Upper Marker	113.00

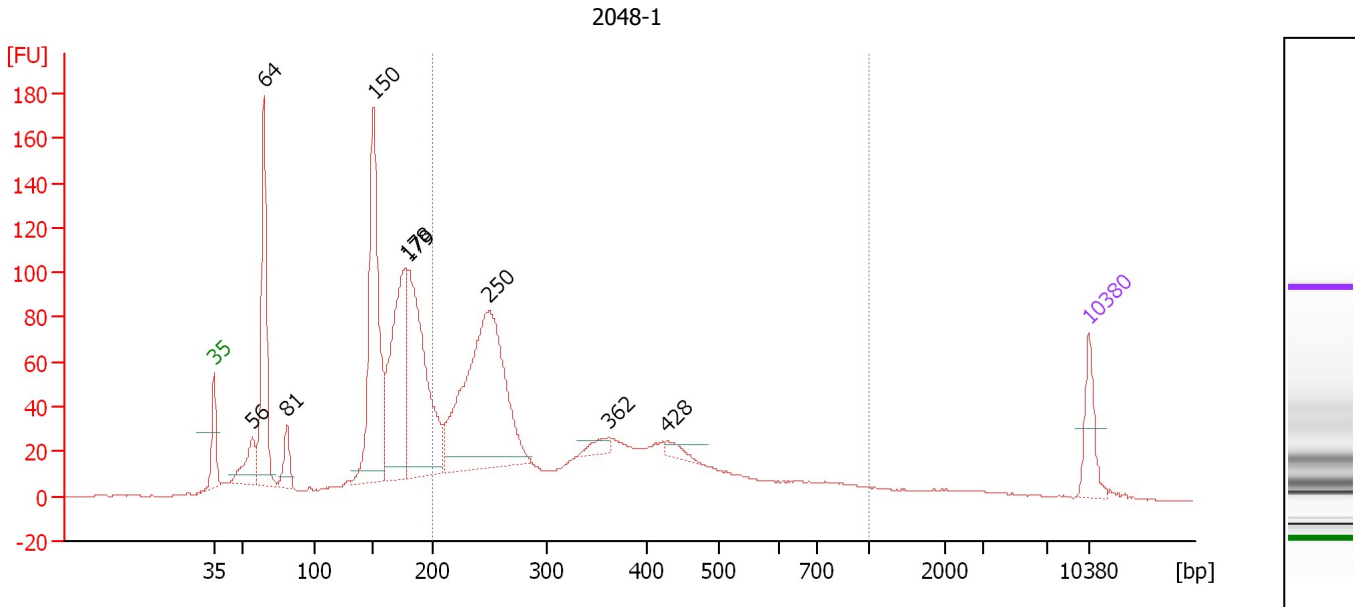
Region table for sample 9 : 2040-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	341	1,059.0	12,227.5	2,309.06	46	42.8

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Electropherogram Summary Continued ...



Overall Results for sample 10 : 2048-1

Number of peaks found: 9 Corr. Area 1: 1,185.1
 Noise: 0.2

Peak table for sample 10 : 2048-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	56	135.11	3,645.2		46.03
3	64	519.54	12,207.2		46.97
4	81	89.88	1,686.4		48.80
5	150	724.81	7,303.2		55.76
6	178	539.52	4,604.3		58.32
7	179	662.94	5,600.4		58.49
8	250	922.37	5,596.6		65.02
9	362	32.99	138.2		74.59
10	428	30.38	107.5		79.24
11	10,380	75.00	10.9	Upper Marker	113.00

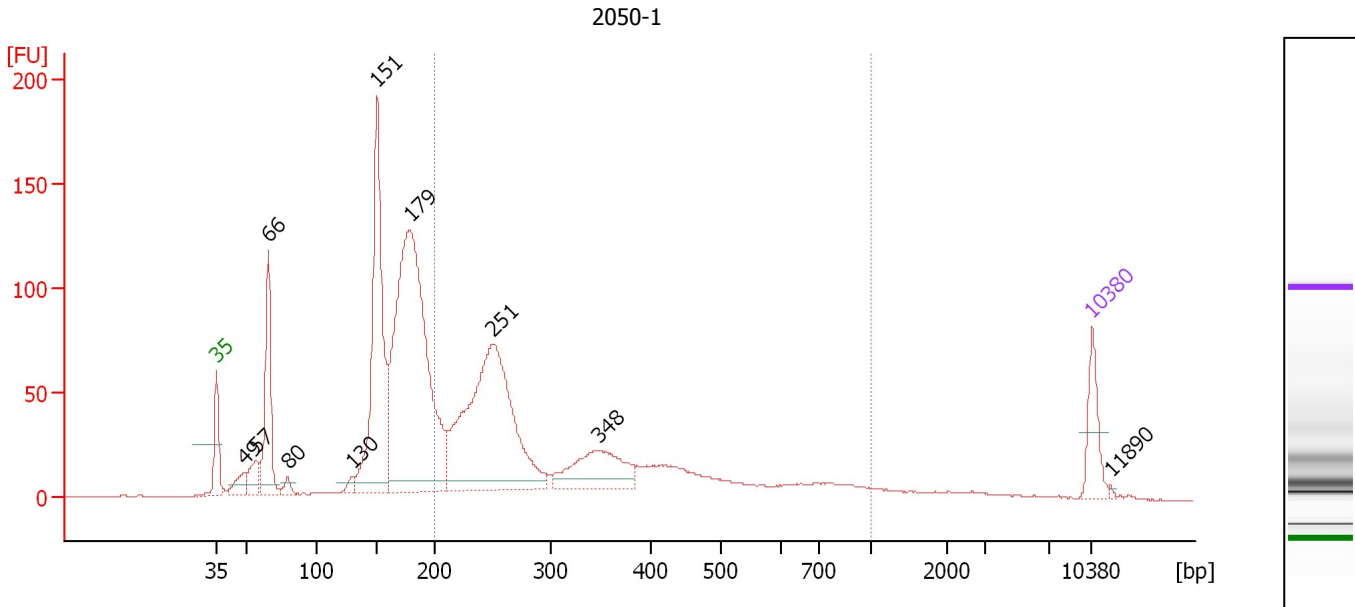
Region table for sample 10 : 2048-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	348	1,185.1	12,341.3	2,372.57	47	42.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_002.xad

Created: 6/30/2017 1:39:23 PM
 Modified: 6/30/2017 2:20:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 2050-1

Number of peaks found: 10 Corr. Area 1: 1,018.5
 Noise: 0.2

Peak table for sample 11 : 2050-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	49	61.60	1,895.5		45.22
3	57	75.67	2,015.0		46.11
4	66	327.69	7,568.8		47.10
5	80	25.09	477.7		48.67
6	130	19.90	232.6		53.79
7	151	745.69	7,472.8		55.84
8	179	1,411.72	11,962.8		58.44
9	251	936.86	5,656.4		65.14
10	348	217.97	948.7		73.50
11	10,380	75.00	10.9	Upper Marker	113.00
12	11,890	0.00	0.0		114.49

Region table for sample 11 : 2050-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	344	1,018.5	9,640.0	1,824.15	43	44.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_002.xad

Created: 6/30/2017 1:39:23 PM
Modified: 6/30/2017 2:20:44 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-30\2017-06-30_002.xad

Created: 6/30/2017 1:39:23 PM
Modified: 6/30/2017 2:20:44 PM

Curves

Standard Curve

