

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-14\2016-12-14_001.xad

Created: 12/14/2016 8:14:51 AM
Modified: 12/15/2016 7:03:12 AM

Electrophoresis File Run Summary

Instrument Information:

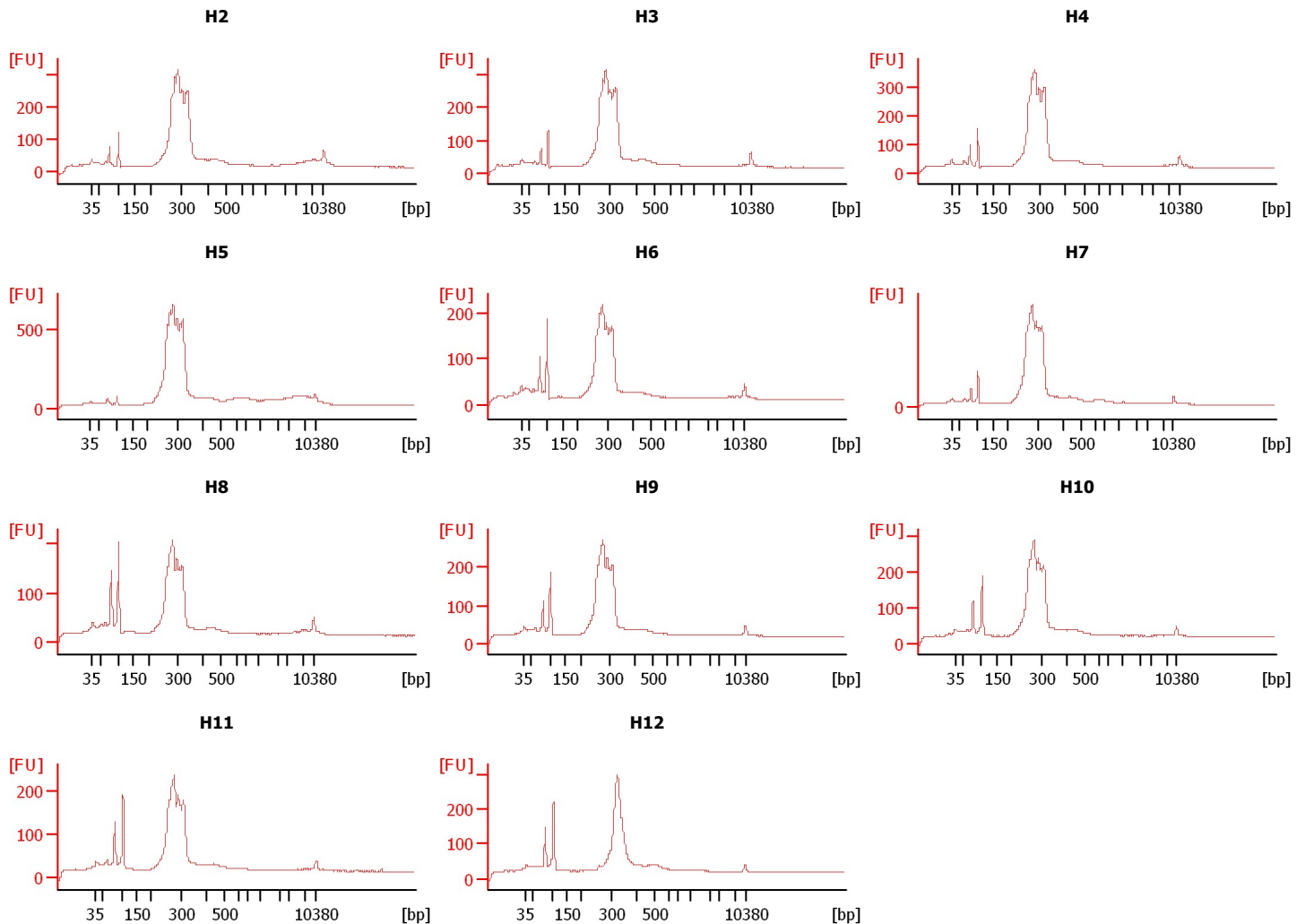
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
H2		<input type="checkbox"/>	✓			
H3		<input type="checkbox"/>	✓			
H4		<input type="checkbox"/>	✓			
H5		<input type="checkbox"/>	✓			
H6		<input type="checkbox"/>	✓			
H7		<input type="checkbox"/>	✓			
H8		<input type="checkbox"/>	✓			
H9		<input type="checkbox"/>	✓			
H10		<input type="checkbox"/>	✓			
H11		<input type="checkbox"/>	✓			
H12		<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

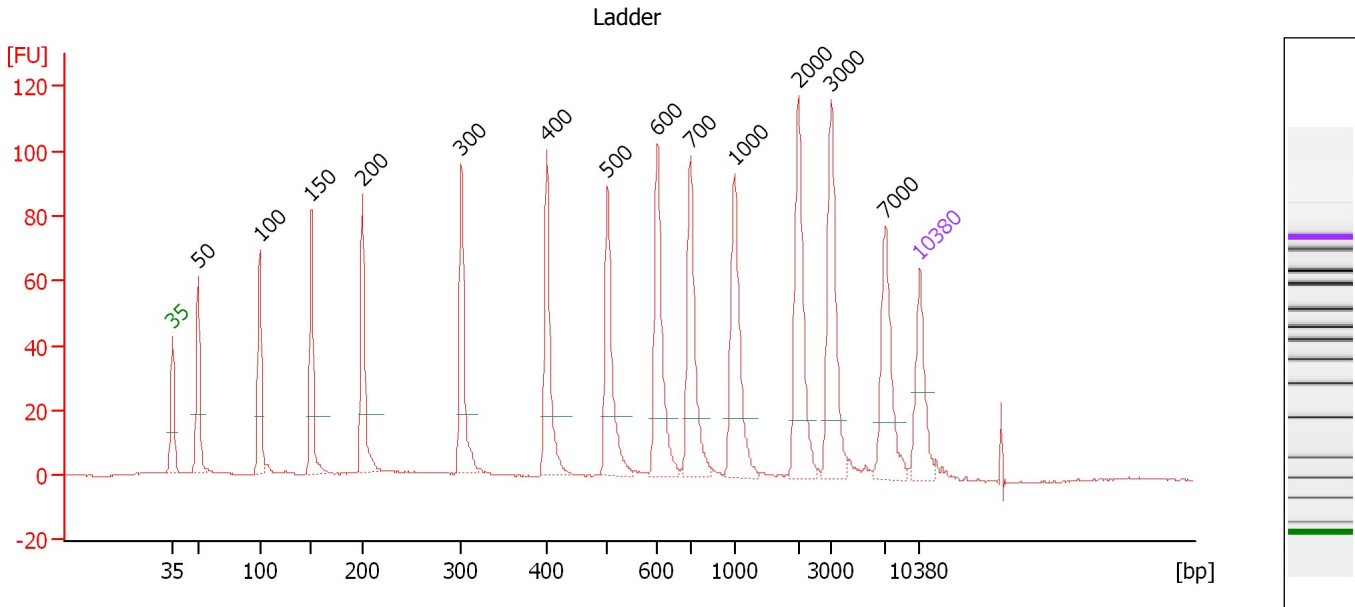
Ladder

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: 0.1

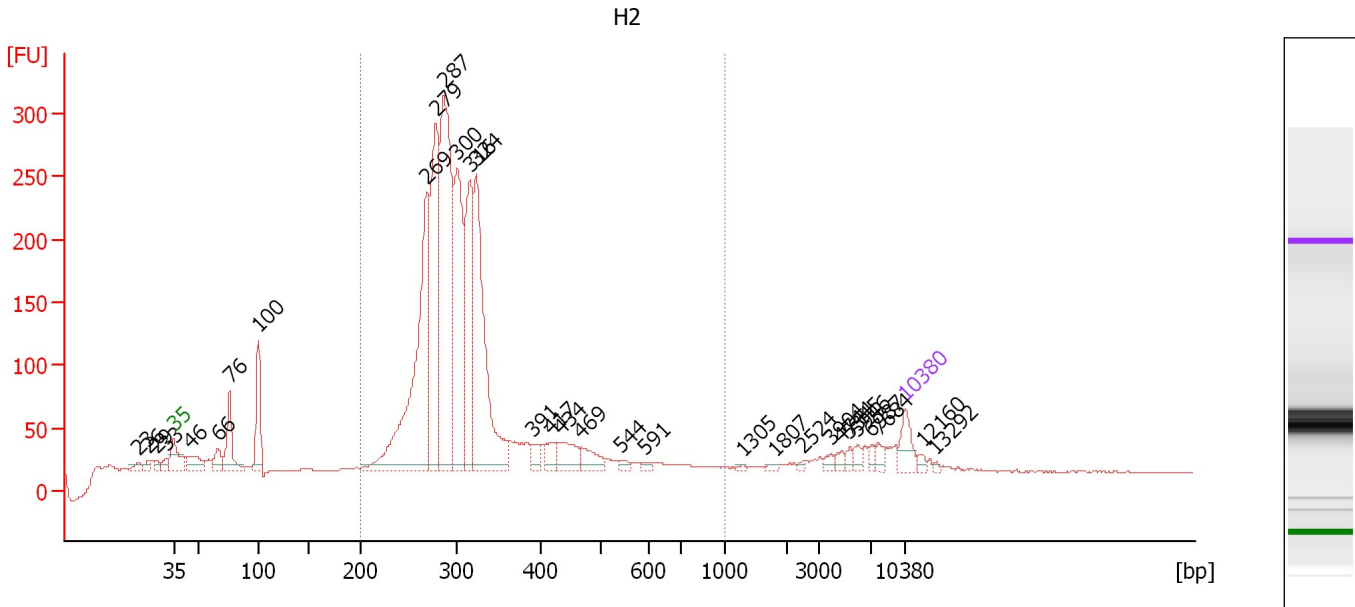
Peak table for Ladder

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	45.40
3	100	150.00	2,272.7	Ladder Peak	51.14
4	150	150.00	1,515.2	Ladder Peak	55.99
5	200	150.00	1,136.4	Ladder Peak	60.79
6	300	150.00	757.6	Ladder Peak	70.08
7	400	150.00	568.2	Ladder Peak	78.07
8	500	150.00	454.5	Ladder Peak	83.77
9	600	150.00	378.8	Ladder Peak	88.42
10	700	150.00	324.7	Ladder Peak	91.52
11	1,000	150.00	227.3	Ladder Peak	95.66
12	2,000	150.00	113.6	Ladder Peak	101.66
13	3,000	150.00	75.8	Ladder Peak	104.71
14	7,000	150.00	32.5	Ladder Peak	109.80
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : H2

Number of peaks found: 31 Corr. Area 1: 3,387.5
 Noise: 0.3

Peak table for sample 1 : H2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	23	0.00	0.0		39.63
2	26	0.00	0.0		40.50
3	29	0.00	0.0		41.37
4	33	0.00	0.0		42.34
5	35	125.00	5,411.3	Lower Marker	43.00
6	46	115.15	3,831.8		44.68
7	66	82.81	1,901.6		47.23
8	76	225.56	4,511.8		48.36
9	100	263.15	3,998.2		51.11
10	269	1,216.33	6,841.4		67.23
11	279	845.31	4,595.4		68.10
12	287	1,262.60	6,666.9		68.87
13	300	752.91	3,800.8		70.09
14	316	597.87	2,865.8		71.37
15	324	921.79	4,313.9		71.98
16	391	48.26	186.8		77.39
17	417	66.21	240.8		79.02
18	434	122.01	426.3		79.99
19	469	85.35	276.0		81.98
20	544	22.47	62.6		85.81
21	591	16.00	41.0		88.00
22	1,305	7.74	9.0		97.49
23	1,807	11.14	9.3		100.50
24	2,524	9.44	5.7		103.26
25	3,904	18.17	7.1		105.86

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Electropherogram Summary Continued ...

... Peak table for sample 1 : H2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,744	20.38	6.5		106.93
27	5,345	19.18	5.4		107.69
28	5,946	24.32	6.2		108.46
29	6,987	19.58	4.2		109.79
30	7,684	25.32	5.0		110.45
31	10,380	75.00	10.9	Upper Marker	113.00
32	12,160	0.00	0.0		114.68
33	13,292	0.00	0.0		115.76

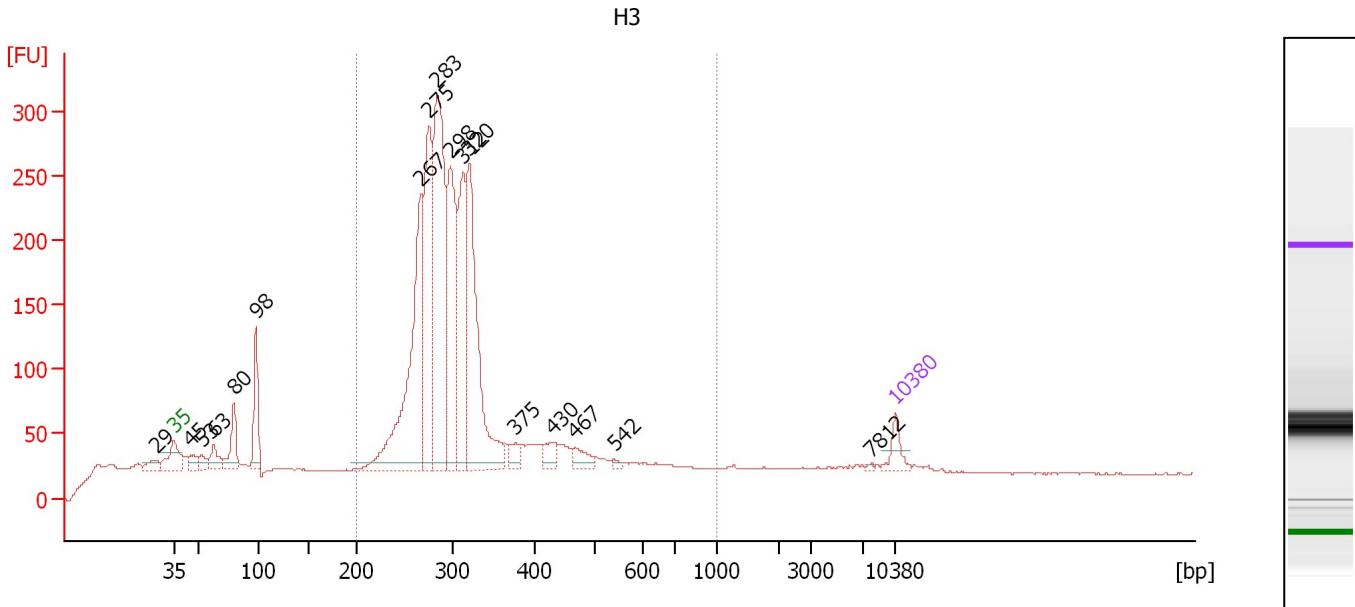
Region table for sample 1 : H2

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	339	3,387.5	37,892.7	7,696.19	65	35.0

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Electropherogram Summary Continued ...



Overall Results for sample 2 : H3

Number of peaks found: 17 Corr. Area 1: 3,163.4
 Noise: 0.4

Peak table for sample 2 : H3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	29	0.00	0.0		41.24
2	35	125.00	5,411.3	Lower Marker	43.00
3	45	86.91	2,903.9		44.65
4	53	76.51	2,188.4		45.74
5	63	135.29	3,260.3		46.88
6	80	248.31	4,704.8		48.84
7	98	375.12	5,775.5		50.96
8	267	1,509.80	8,576.6		66.99
9	275	1,041.63	5,737.6		67.76
10	283	1,576.91	8,430.3		68.54
11	298	979.11	4,980.2		69.88
12	312	797.25	3,866.6		71.07
13	320	1,223.88	5,791.9		71.69
14	375	72.73	293.7		76.09
15	430	95.30	336.2		79.76
16	467	87.11	282.8		81.88
17	542	18.56	51.9		85.70
18	7,812	7.01	1.4		110.57
19	10,380	75.00	10.9	Upper Marker	113.00

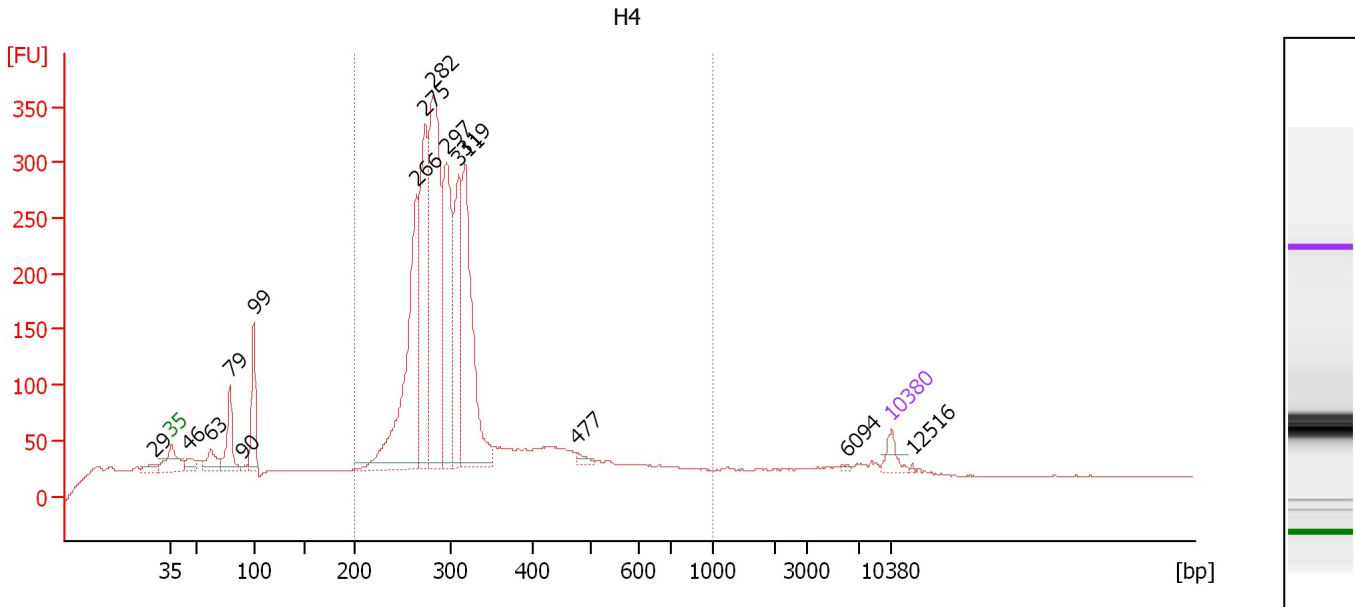
Region table for sample 2 : H3

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	333	3,163.4	46,757.1	9,401.77	69	34.1

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Electropherogram Summary Continued ...



Overall Results for sample 3 : H4

Number of peaks found: 15 Corr. Area 1: 3,517.5
 Noise: 0.4

Peak table for sample 3 : H4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	29	0.00	0.0		41.34
2	35	125.00	5,411.3	Lower Marker	43.00
3	46	103.49	3,407.5		44.76
4	63	186.03	4,477.8		46.89
5	79	385.51	7,377.1		48.75
6	90	26.44	447.3		49.94
7	99	469.55	7,185.0		51.03
8	266	1,572.62	8,970.4		66.89
9	275	1,191.22	6,574.1		67.72
10	282	1,892.41	10,175.2		68.39
11	297	1,130.50	5,770.2		69.79
12	311	852.62	4,150.6		70.98
13	319	1,323.71	6,286.9		71.60
14	477	39.60	125.7		82.48
15	6,094	9.24	2.3		108.65
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,516	0.00	0.0		115.02

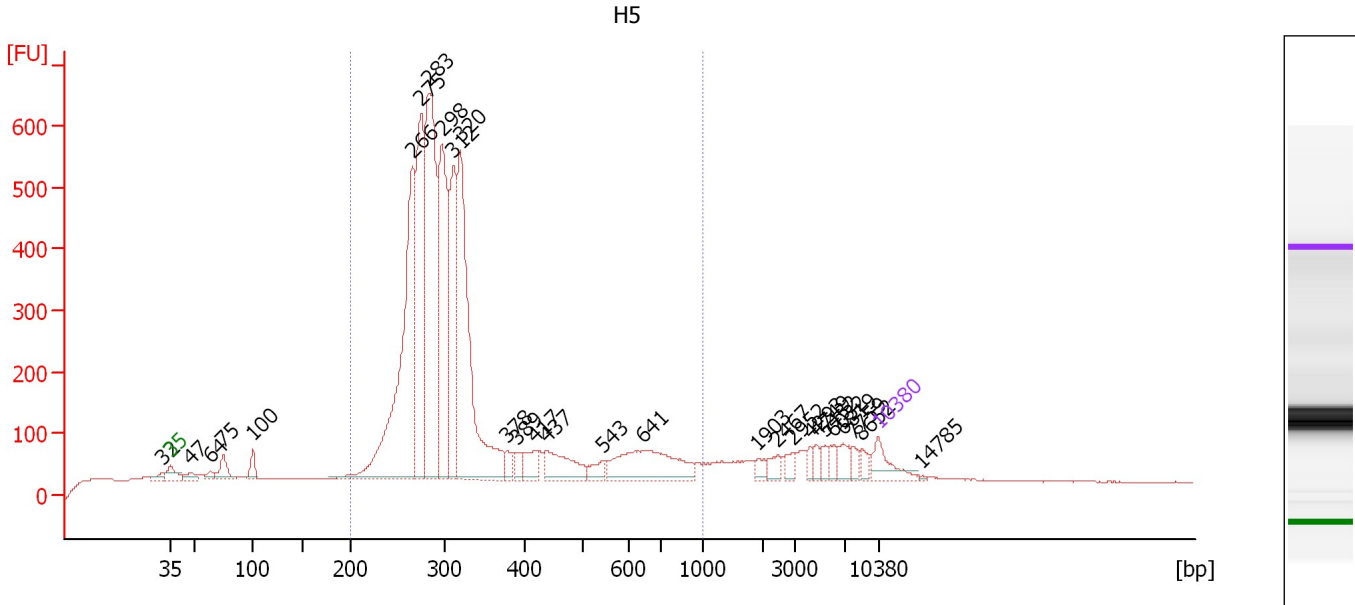
Region table for sample 3 : H4

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	330	3,517.5	52,127.9	10,413.65	72	33.6

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Electropherogram Summary Continued ...



Overall Results for sample 4 : H5

Number of peaks found: 28 Corr. Area 1: 6,785.0
 Noise: 0.7

Peak table for sample 4 : H5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.16
2	35	125.00	5,411.3	Lower Marker	43.00
3	47	40.85	1,311.2		44.95
4	64	27.65	659.0		46.96
5	75	90.04	1,829.3		48.22
6	100	60.15	912.9		51.12
7	266	1,192.28	6,783.7		66.95
8	275	758.14	4,171.3		67.79
9	283	1,082.40	5,788.3		68.53
10	298	768.38	3,913.1		69.85
11	312	511.99	2,489.3		71.01
12	320	1,020.95	4,830.9		71.70
13	378	35.04	140.6		76.29
14	389	43.50	169.2		77.24
15	417	68.57	249.3		79.03
16	437	156.73	543.3		80.19
17	543	46.13	128.7		85.78
18	641	302.03	714.1		89.68
19	1,903	25.18	20.0		101.08
20	2,467	32.73	20.1		103.08
21	2,952	28.92	14.8		104.56
22	4,293	21.59	7.6		106.35
23	4,749	24.84	7.9		106.93
24	5,452	28.08	7.8		107.83
25	6,032	28.61	7.2		108.57

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Electropherogram Summary Continued ...

... Peak table for sample 4 : H5

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,819	44.61	9.9		109.57
27	7,759	24.22	4.7		110.52
28	8,652	22.59	4.0		111.36
29	10,380	75.00	10.9	Upper Marker	113.00
30	14,785	0.00	0.0		117.17

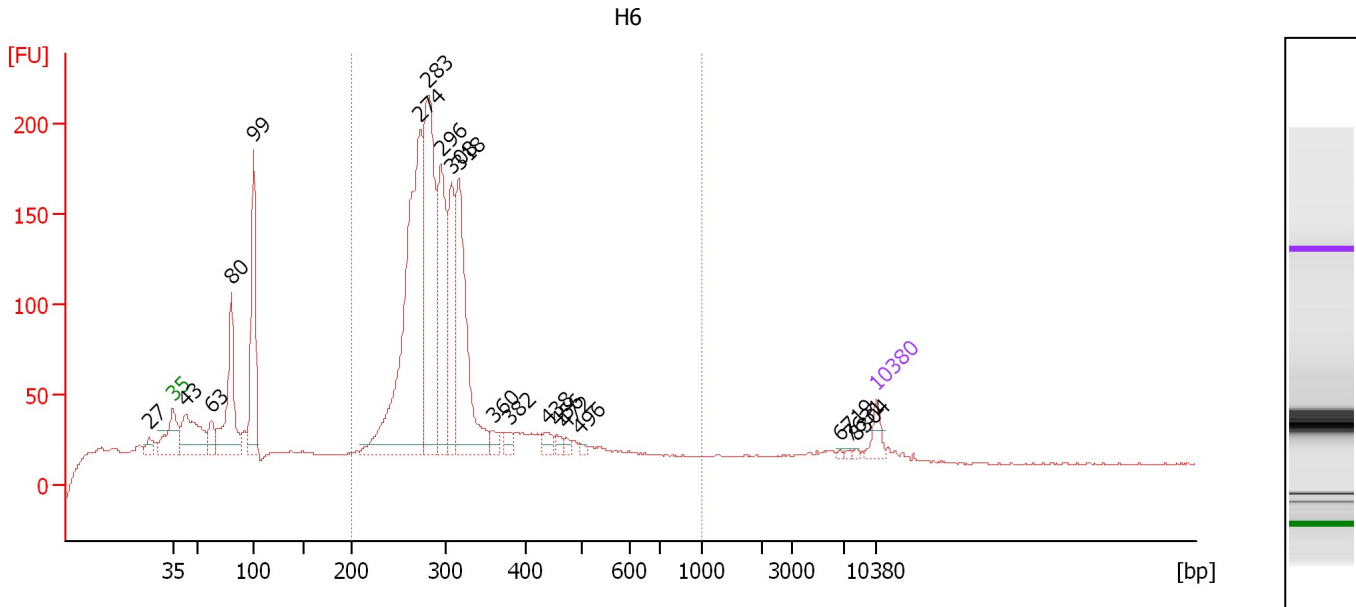
Region table for sample 4 : H5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
200	1,000	343	6,785.0	31,805.2	6,435.84	79	38.3

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Electropherogram Summary Continued ...



Overall Results for sample 5 : H6

Number of peaks found: 19 Corr. Area 1: 2,009.2
 Noise: 0.5

Peak table for sample 5 : H6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	27	0.00	0.0		40.66
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	538.59	18,992.6		44.27
4	63	151.77	3,659.2		46.87
5	80	775.53	14,700.9		48.84
6	99	893.59	13,631.1		51.07
7	274	2,260.55	12,493.7		67.68
8	283	1,555.11	8,334.4		68.47
9	296	926.67	4,736.7		69.75
10	308	610.70	2,999.9		70.76
11	318	1,121.68	5,348.8		71.50
12	360	67.10	282.2		74.90
13	382	57.79	229.1		76.65
14	438	65.66	227.0		80.26
15	456	37.62	125.0		81.26
16	472	28.01	90.0		82.17
17	496	18.84	57.5		83.55
18	6,719	6.59	1.5		109.44
19	7,631	8.64	1.7		110.40
20	8,304	9.17	1.7		111.04
21	10,380	75.00	10.9	Upper Marker	113.00

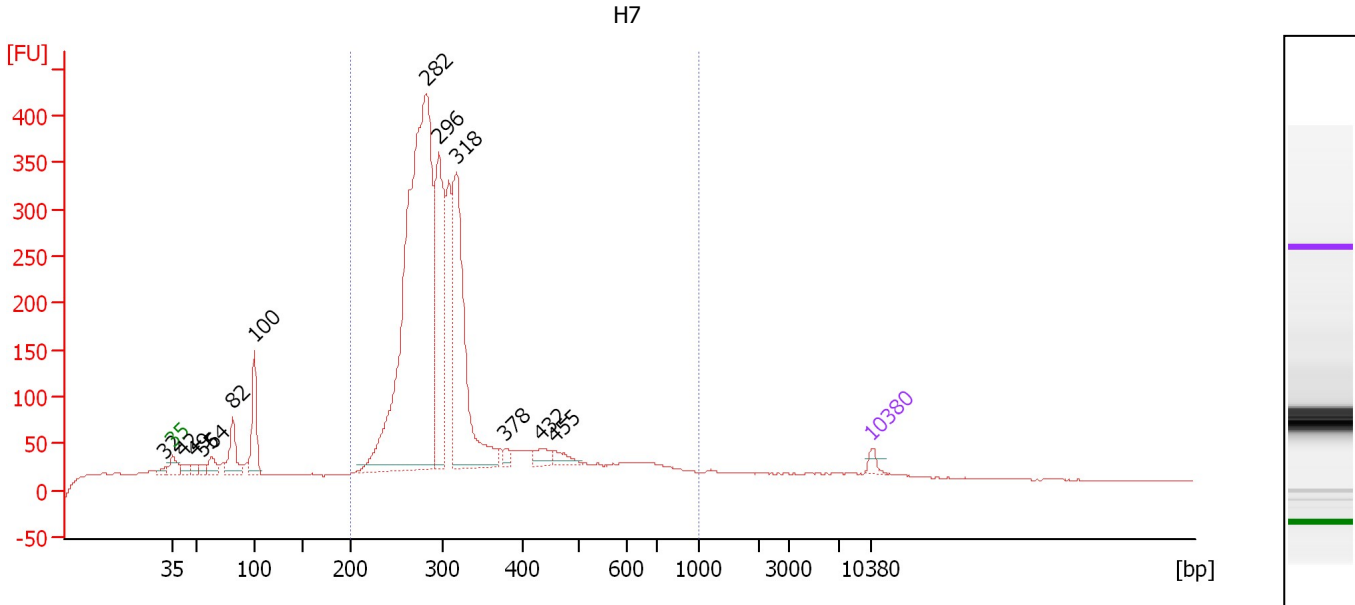
Region table for sample 5 : H6

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	325	2,009.2	41,994.4	8,326.06	65	32.1

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Electropherogram Summary Continued ...



Overall Results for sample 6 : H7

Number of peaks found: 13 Corr. Area 1: 4,019.2
 Noise: 0.5

Peak table for sample 6 : H7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.25
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	150.40	5,466.7		44.07
4	49	125.38	3,900.7		45.19
5	55	111.48	3,087.6		45.94
6	64	267.87	6,387.6		46.95
7	82	617.62	11,457.7		49.04
8	100	957.84	14,465.9		51.18
9	282	10,093.02	54,172.1		68.44
10	296	2,711.29	13,901.0		69.66
11	318	3,423.75	16,337.8		71.48
12	378	87.60	351.4		76.29
13	432	200.70	704.7		79.87
14	455	159.05	529.7		81.21
15	10,380	75.00	10.9	Upper Marker	113.00

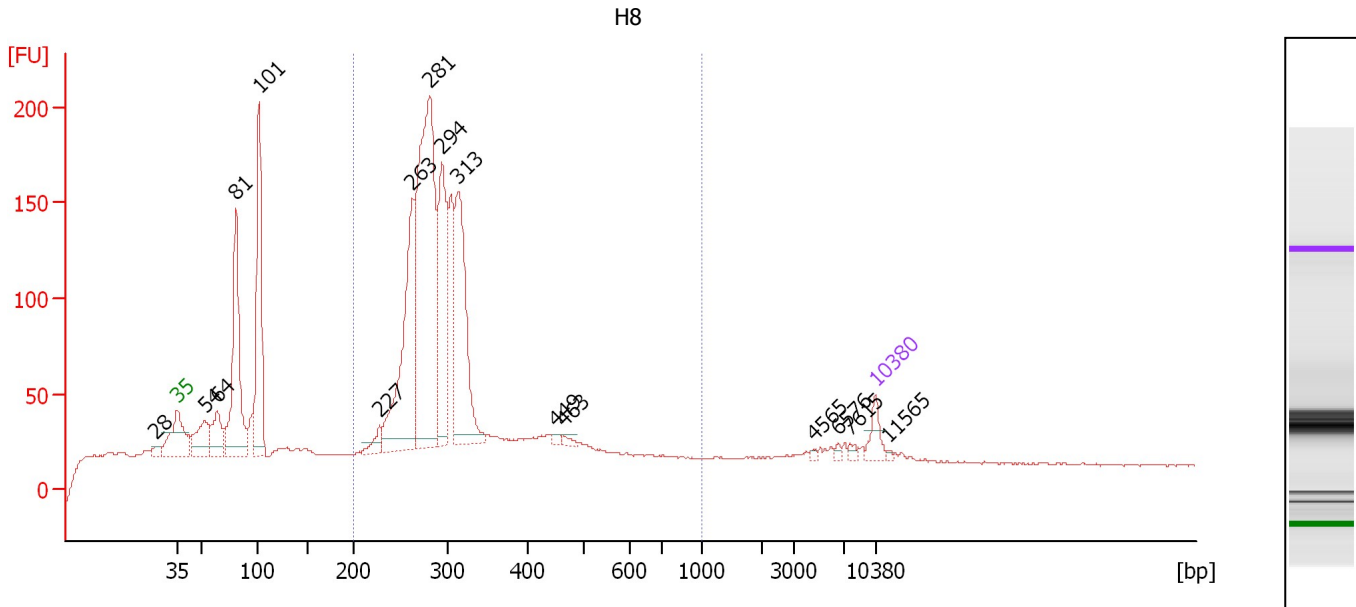
Region table for sample 6 : H7

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	4,019.2	110,803.5	21,977.98	81	33.1

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Electropherogram Summary Continued ...



Overall Results for sample 7 : H8

Number of peaks found: 16 Corr. Area 1: 1,858.1
 Noise: 0.5

Peak table for sample 7 : H8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		40.92
2	35	125.00	5,411.3	Lower Marker	43.00
3	54	257.75	7,264.8		45.83
4	64	257.98	6,065.7		47.06
5	81	965.67	18,129.6		48.93
6	101	945.80	14,215.0		51.22
7	227	82.44	550.4		63.29
8	263	1,017.97	5,874.6		66.60
9	281	1,930.22	10,410.1		68.31
10	294	803.35	4,138.0		69.54
11	313	878.88	4,251.2		71.14
12	449	17.44	58.9		80.86
13	463	24.97	81.7		81.66
14	4,565	10.09	3.4		106.70
15	6,576	12.56	2.9		109.26
16	7,615	19.40	3.9		110.38
17	10,380	75.00	10.9	Upper Marker	113.00
18	11,565	0.00	0.0		114.12

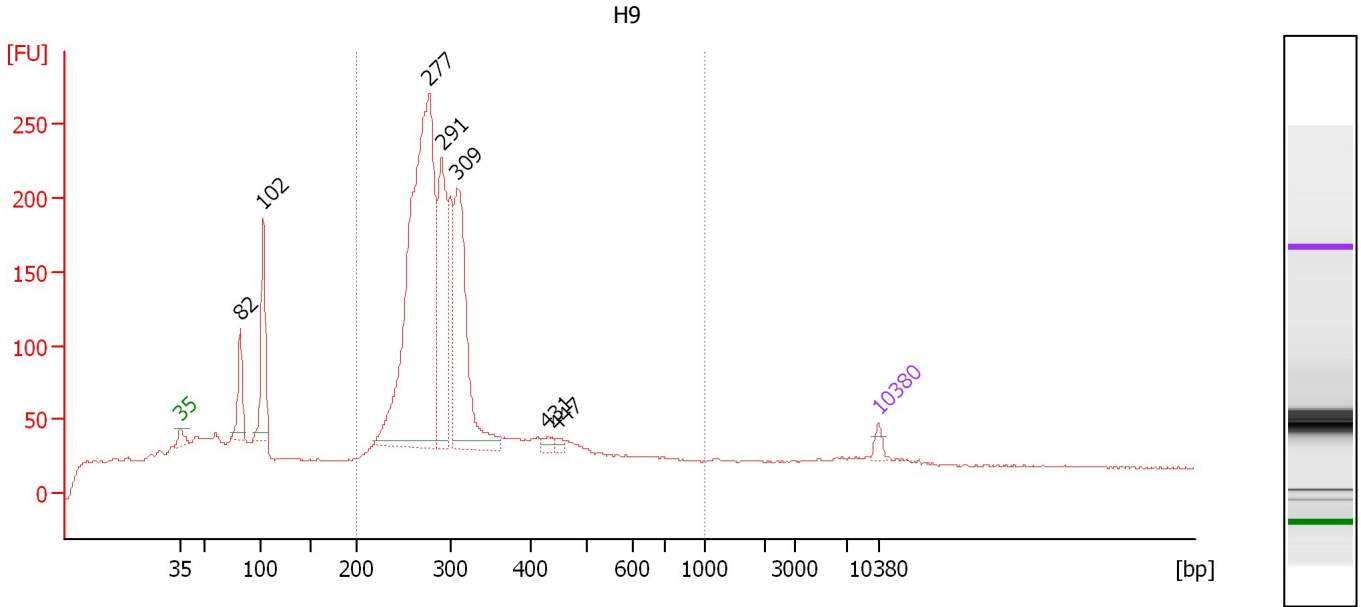
Region table for sample 7 : H8

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	324	1,858.1	35,463.1	6,990.20	61	33.0

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Electropherogram Summary Continued ...



Overall Results for sample 8 : H9

Number of peaks found: 7 Corr. Area 1: 2,553.3
 Noise: 0.5

Peak table for sample 8 : H9

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	82	584.99	10,847.0		49.04
3	102	1,165.71	17,308.6		51.34
4	277	6,178.96	33,758.6		67.97
5	291	1,718.47	8,943.5		69.26
6	309	2,210.81	10,837.2		70.81
7	431	79.73	280.3		79.84
8	447	61.55	208.6		80.75
9	10,380	75.00	10.9	Upper Marker	113.00

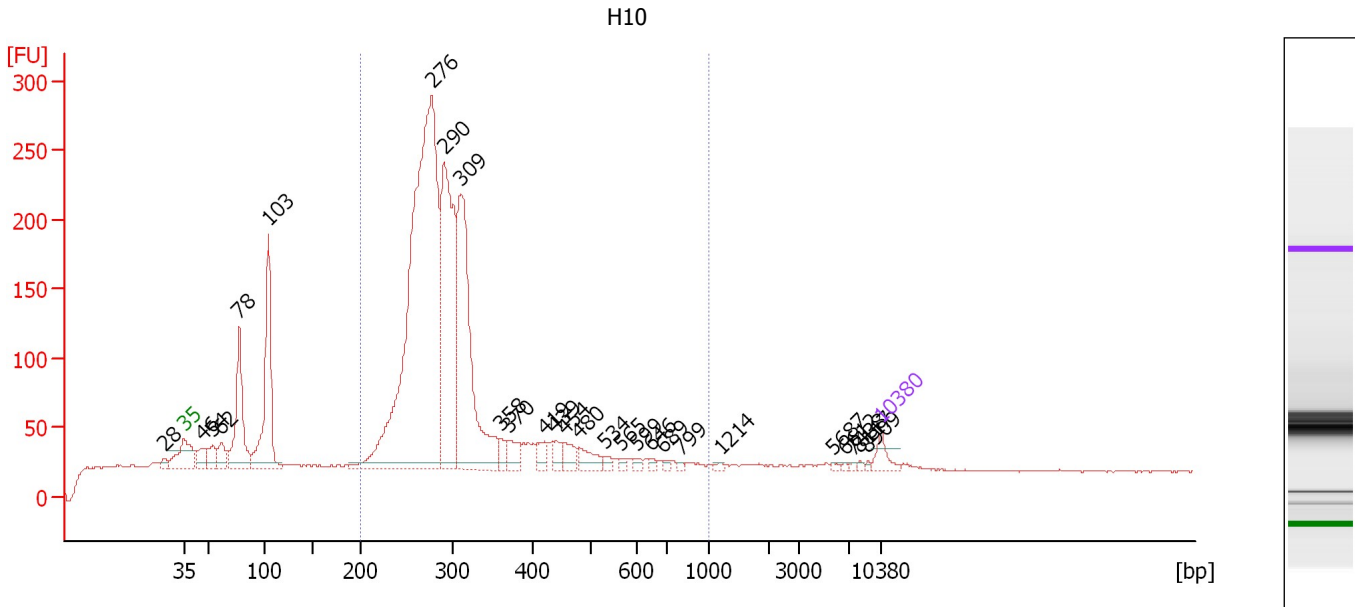
Region table for sample 8 : H9

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	324	2,553.3	78,397.9	15,349.62	66	34.4

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Electropherogram Summary Continued ...



Overall Results for sample 9 : H10

Number of peaks found: 27 Corr. Area 1: 2,866.4
 Noise: 0.4

Peak table for sample 9 : H10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		41.07
2	35	125.00	5,411.3	Lower Marker	43.00
3	46	152.41	4,979.1		44.82
4	54	150.91	4,212.6		45.89
5	62	164.59	4,039.9		46.75
6	78	797.55	15,579.8		48.57
7	103	1,138.14	16,707.7		51.46
8	276	4,878.16	26,743.0		67.89
9	290	1,864.21	9,733.2		69.17
10	309	1,714.96	8,399.4		70.83
11	358	70.05	296.3		74.74
12	370	132.56	543.4		75.65
13	419	96.41	348.3		79.18
14	439	80.76	278.7		80.30
15	454	115.71	386.1		81.16
16	480	121.49	383.2		82.66
17	534	37.03	105.2		85.33
18	565	24.61	66.0		86.78
19	599	22.74	57.5		88.38
20	646	22.72	53.3		89.83
21	689	16.49	36.3		91.17
22	799	12.70	24.1		92.88
23	1,214	15.11	18.9		96.94
24	5,687	11.48	3.1		108.13
25	6,612	9.60	2.2		109.31

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-14\2016-12-14_001.xad

Created: 12/14/2016 8:14:51 AM
 Modified: 12/15/2016 7:03:12 AM

Electropherogram Summary Continued ...

... Peak table for sample 9 : H10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	7,438	8.41	1.7		110.22
27	8,117	9.54	1.8		110.86
28	8,909	9.39	1.6		111.61
29	10,380	75.00	10.9	Upper Marker	113.00

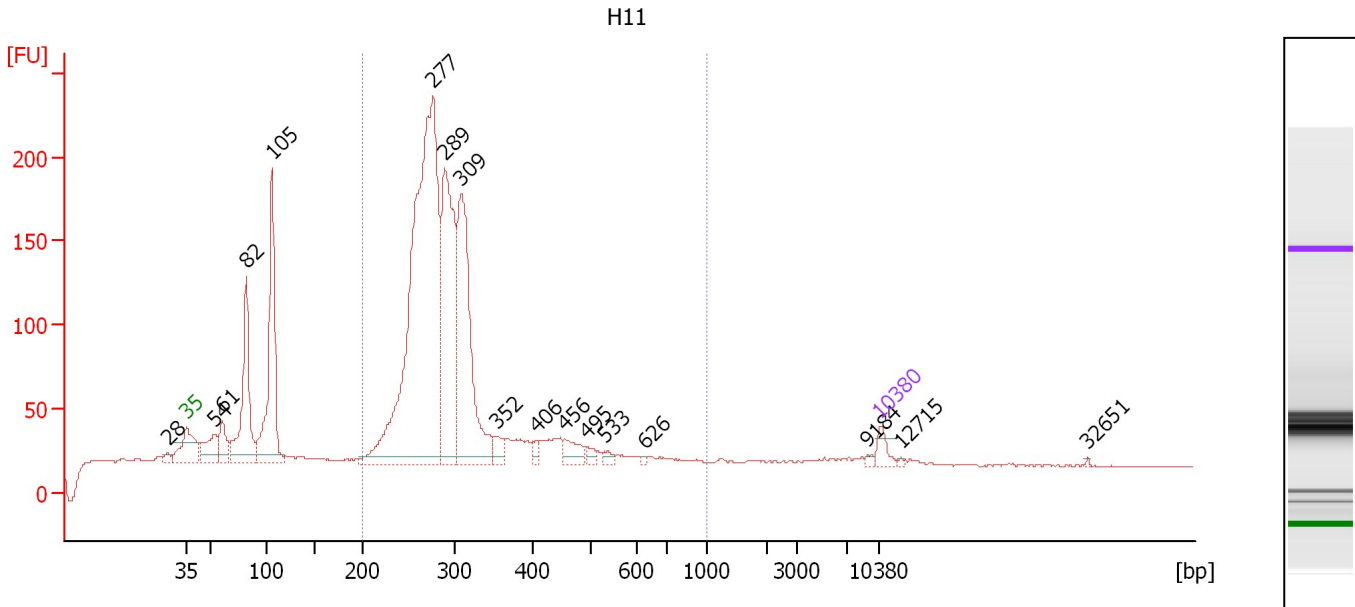
Region table for sample 9 : H10

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	329	2,866.4	56,446.9	11,085.89	66	36.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-14\2016-12-14_001.xad

Created: 12/14/2016 8:14:51 AM
 Modified: 12/15/2016 7:03:12 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : H11

Number of peaks found: 17 Corr. Area 1: 2,366.5
 Noise: 0.5

Peak table for sample 10 : H11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		41.11
2	35	125.00	5,411.3	Lower Marker	43.00
3	54	336.38	9,524.0		45.80
4	61	273.47	6,843.2		46.61
5	82	1,126.11	20,896.8		49.04
6	105	1,535.17	22,167.3		51.62
7	277	4,844.42	26,491.3		67.95
8	289	1,786.95	9,360.4		69.08
9	309	1,730.61	8,483.9		70.81
10	352	109.62	471.5		74.25
11	406	52.42	195.7		78.40
12	456	145.28	482.8		81.26
13	495	53.65	164.3		83.47
14	533	38.24	108.7		85.30
15	626	15.06	36.4		89.24
16	9,184	16.97	2.8		111.87
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,715	0.00	0.0		115.21
19	32,651	0.00	0.0		134.07

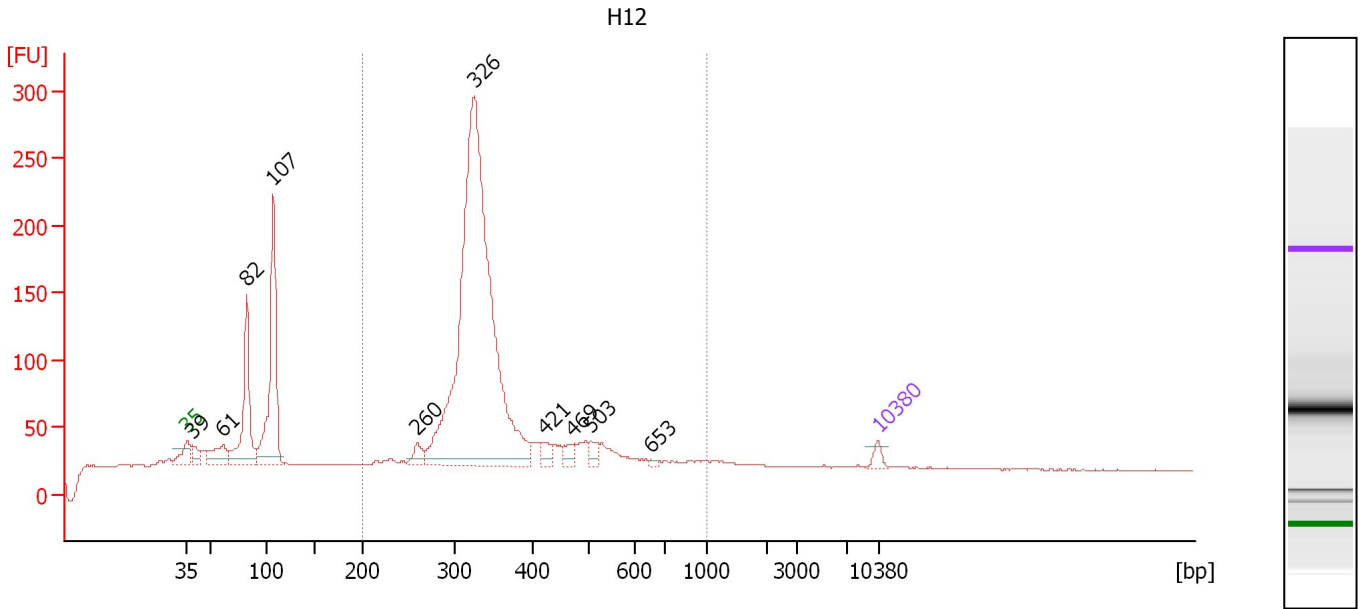
Region table for sample 10 : H11

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	333	2,366.5	59,754.6	11,789.13	59	37.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-14\2016-12-14_001.xad

Created: 12/14/2016 8:14:51 AM
 Modified: 12/15/2016 7:03:12 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : H12

Number of peaks found: 10 Corr. Area 1: 2,145.2
 Noise: 0.3

Peak table for sample 11 : H12

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	39	191.73	7,439.1		43.65
3	61	462.98	11,487.2		46.67
4	82	1,590.10	29,309.3		49.10
5	107	2,348.10	33,331.6		51.80
6	260	181.87	1,059.6		66.37
7	326	8,552.08	39,770.4		72.14
8	421	147.50	530.9		79.27
9	469	150.22	485.0		82.02
10	503	133.11	401.0		83.91
11	653	27.92	64.8		90.06
12	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : H12

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	378	2,145.2	63,247.4	14,169.13	53	34.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-14\2016-12-14_001.xad

Created: 12/14/2016 8:14:51 AM
Modified: 12/15/2016 7:03:12 AM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-14\2016-12-14_001.xad

Created: 12/14/2016 8:14:51 AM
 Modified: 12/15/2016 7:03:12 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		12/14/2016 8:56:07 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-12-14\2016-12-14_001.xad)		Instrument	Run		12/14/2016 8:14:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/14/2016 8:14:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/14/2016 8:14:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/14/2016 8:14:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/14/2016 8:14:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/14/2016 8:14:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/14/2016 8:14:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1