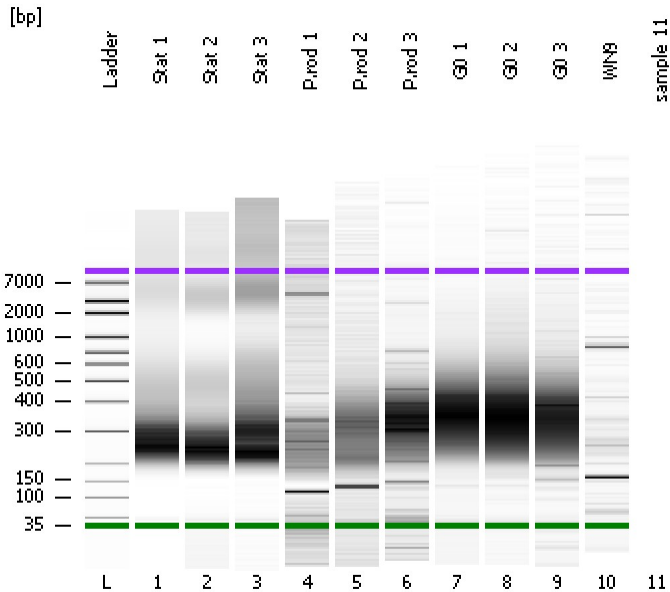


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

Created: 7/11/2016 2:20:59 PM
Modified: 7/11/2016 3:02:25 PM

Electrophoresis File Run Summary



Instrument Information:

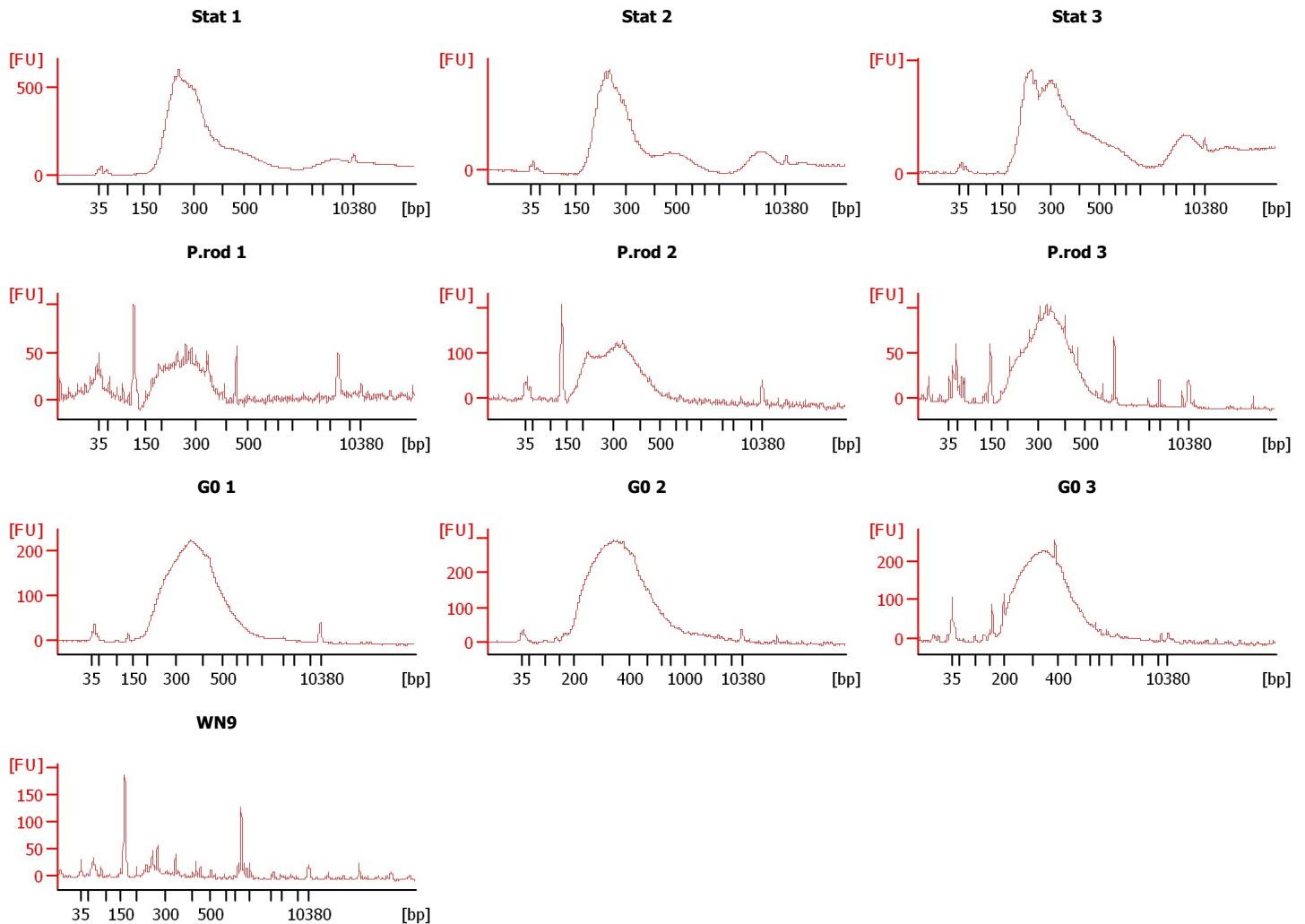
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

Created: 7/11/2016 2:20:59 PM
 Modified: 7/11/2016 3:02:25 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Stat 1		<input type="checkbox"/>	✓			
Stat 2		<input type="checkbox"/>	✓			
Stat 3		<input type="checkbox"/>	✓			
P.rod 1		<input type="checkbox"/>	✓			
P.rod 2		<input type="checkbox"/>	✓			
P.rod 3		<input type="checkbox"/>	✓			
G0 1		<input type="checkbox"/>	✓			
G0 2		<input type="checkbox"/>	✓			
G0 3		<input type="checkbox"/>	✓			
WN9		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

Created: 7/11/2016 2:20:59 PM
Modified: 7/11/2016 3:02:25 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

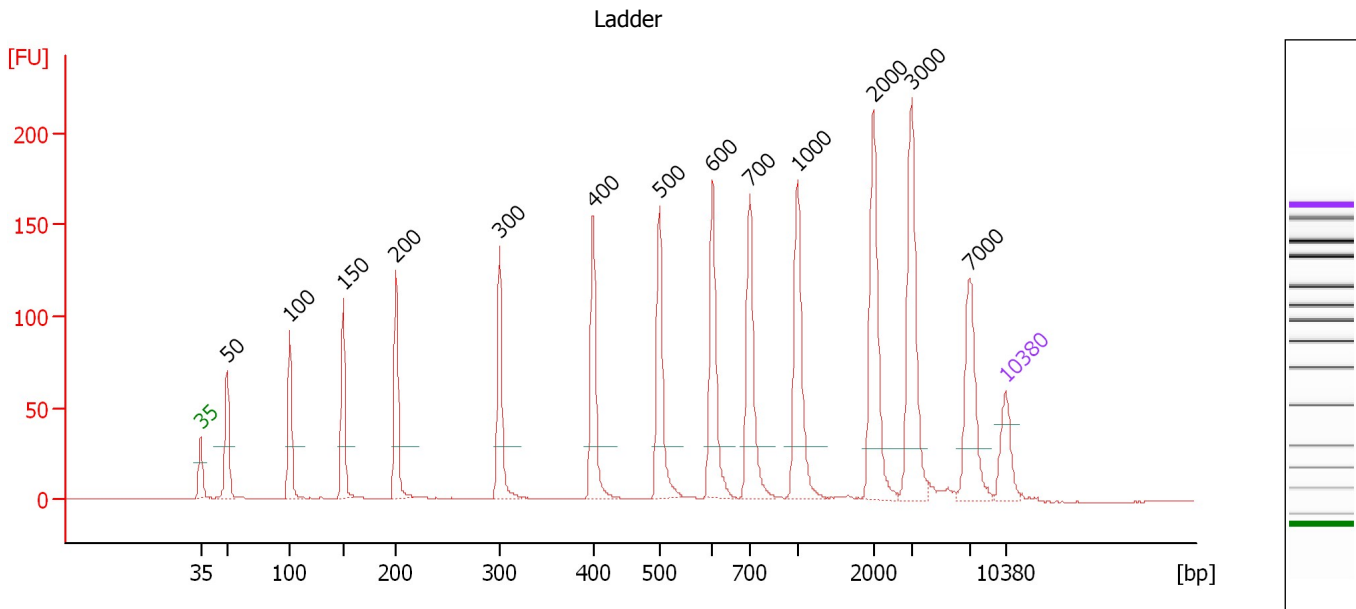
Ladder

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:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

Created: 7/11/2016 2:20:59 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

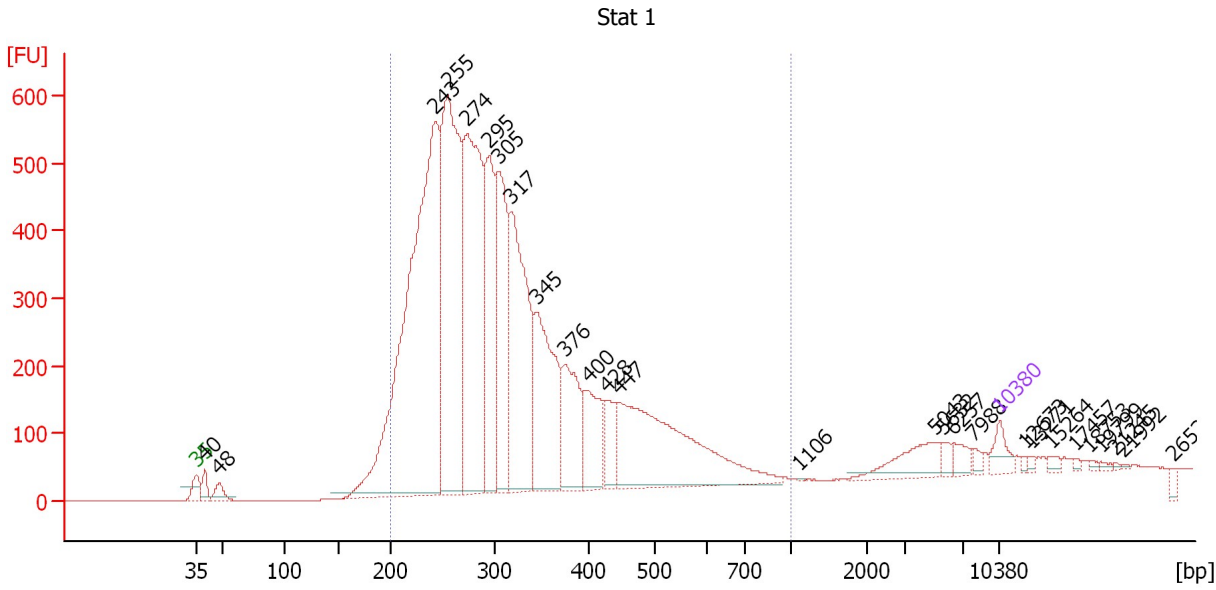
Peak table for Ladder

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	45.27
3	100	150.00	2,272.7	Ladder Peak	50.74
4	150	150.00	1,515.2	Ladder Peak	55.38
5	200	150.00	1,136.4	Ladder Peak	59.97
6	300	150.00	757.6	Ladder Peak	68.96
7	400	150.00	568.2	Ladder Peak	77.12
8	500	150.00	454.5	Ladder Peak	82.87
9	600	150.00	378.8	Ladder Peak	87.50
10	700	150.00	324.7	Ladder Peak	90.75
11	1,000	150.00	227.3	Ladder Peak	94.87
12	2,000	150.00	113.6	Ladder Peak	101.46
13	3,000	150.00	75.8	Ladder Peak	104.79
14	7,000	150.00	32.5	Ladder Peak	109.85
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : Stat 1

Number of peaks found: 27 Corr. Area 1: 10,967.9
 Noise: 0.2

Peak table for sample 1 : Stat 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	40	97.29	3,722.2		43.70
3	48	95.78	3,030.1		44.95
4	243	3,837.04	23,936.3		63.82
5	255	2,203.75	13,106.1		64.89
6	274	1,946.20	10,766.2		66.61
7	295	898.14	4,619.7		68.47
8	305	968.16	4,812.2		69.35
9	317	1,316.77	6,286.5		70.38
10	345	892.77	3,924.1		72.61
11	376	519.10	2,091.5		75.16
12	400	362.73	1,374.1		77.12
13	428	208.13	736.4		78.74
14	447	1,304.76	4,424.0		79.81
15	1,106	2.90	4.0		95.57
16	5,043	176.91	53.1		107.38
17	5,632	38.11	10.3		108.12
18	6,257	59.44	14.4		108.91
19	7,988	21.73	4.1		110.77
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,673	0.00	0.0		115.14
22	13,271	0.00	0.0		115.70
23	15,264	0.00	0.0		117.56
24	17,457	0.00	0.0		119.60
25	18,753	0.00	0.0		120.81

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

Created: 7/11/2016 2:20:59 PM
 Modified: 7/11/2016 3:02:25 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : Stat 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	19,799	0.00	0.0		121.78
27	21,245	0.00	0.0		123.13
28	21,992	0.00	0.0		123.83
29	26,527	0.00	0.0		128.06

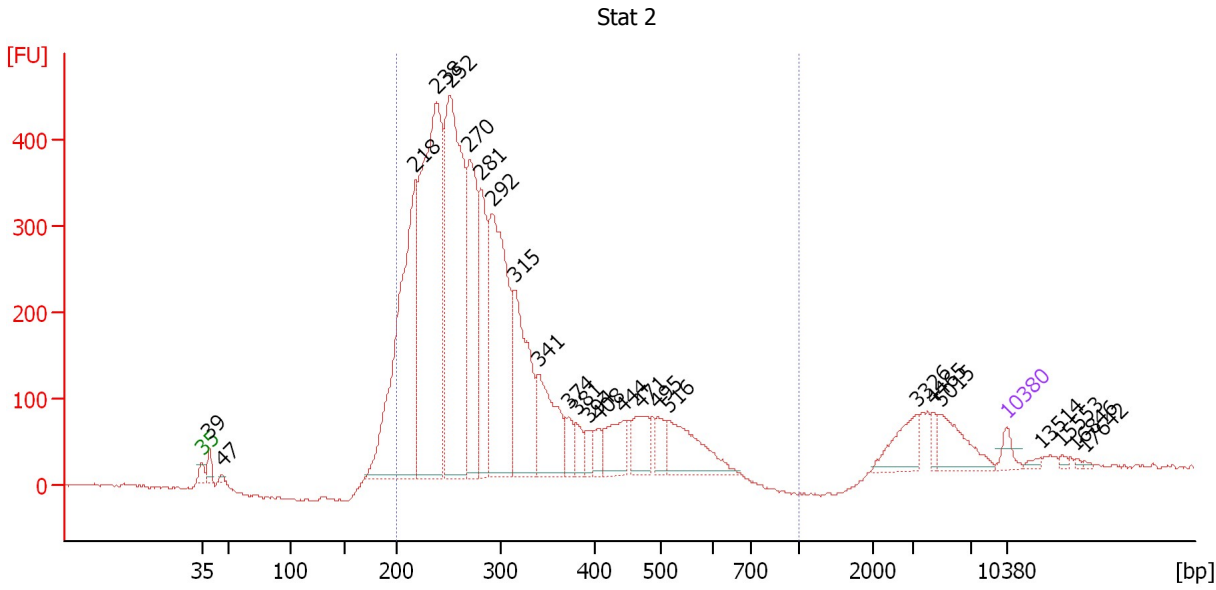
Region table for sample 1 : Stat 1

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	321	10,967.9	71,257.6	13,705.46	92	31.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : Stat 2

Number of peaks found: 25 Corr. Area 1: 7,178.8
 Noise: 1.4

Peak table for sample 2 : Stat 2

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	126.08	4,862.1		43.65
3	47	28.08	912.3		44.76
4	218	3,039.91	21,160.8		61.56
5	238	3,835.02	24,384.3		63.41
6	252	3,271.19	19,691.0		64.62
7	270	1,564.60	8,771.1		66.29
8	281	919.08	4,953.8		67.26
9	292	2,121.20	10,989.6		68.28
10	315	1,225.25	5,893.6		70.18
11	341	790.15	3,515.2		72.27
12	374	151.24	613.4		74.96
13	381	146.04	580.8		75.56
14	394	101.19	389.1		76.63
15	408	145.10	539.3		77.56
16	444	332.89	1,136.1		79.65
17	471	309.38	996.1		81.18
18	495	163.56	500.8		82.57
19	516	566.92	1,666.0		83.59
20	3,326	255.96	116.6		105.21
21	4,465	62.71	21.3		106.64
22	5,015	283.99	85.8		107.34
23	10,380	75.00	10.9	Upper Marker	113.00
24	13,514	0.00	0.0		115.92
25	15,553	0.00	0.0		117.82


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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Electropherogram Summary Continued ...**... Peak table for sample 2 : Stat 2**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	16,846	0.00	0.0		119.03
27	17,642	0.00	0.0		119.77

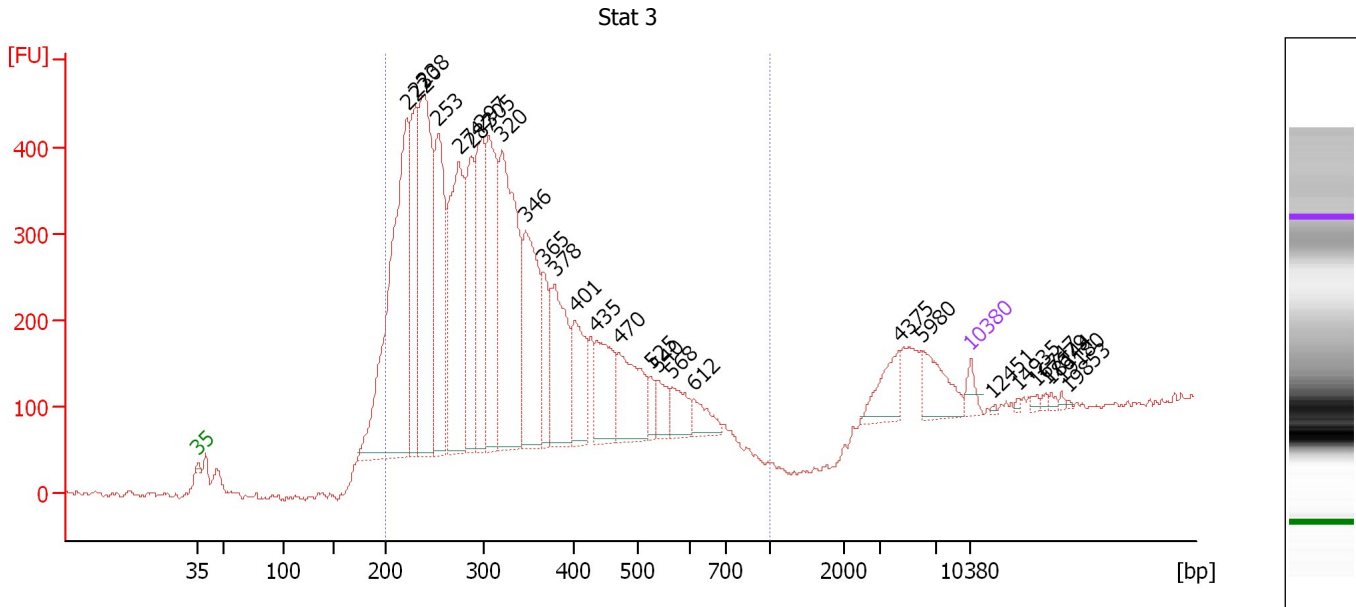
Region table for sample 2 : Stat 2

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	300	7,178.8	100,113.9	 18,214.44	89	29.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : Stat 3

Number of peaks found: 28 Corr. Area 1: 9,066.5
 Noise: 4.3

Peak table for sample 3 : Stat 3

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	222	3,224.74	21,979.1		61.97
3	230	1,194.48	7,856.8		62.70
4	238	2,104.88	13,407.5		63.37
5	253	1,449.51	8,665.9		64.77
6	274	1,792.68	9,899.7		66.66
7	287	925.41	4,890.4		67.77
8	297	1,126.56	5,738.4		68.73
9	305	1,314.48	6,532.5		69.36
10	320	1,994.31	9,452.3		70.57
11	346	1,145.42	5,011.5		72.74
12	365	447.11	1,854.8		74.28
13	378	846.04	3,389.0		75.34
14	401	516.37	1,950.8		77.18
15	435	573.83	2,000.4		79.11
16	470	626.30	2,019.4		81.14
17	525	102.32	295.2		84.03
18	540	185.57	520.9		84.71
19	568	221.74	591.6		86.01
20	612	162.28	401.7		87.90
21	4,375	247.31	85.7		106.53
22	5,980	284.84	72.2		108.56
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,451	0.00	0.0		114.93
25	14,935	0.00	0.0		117.25

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

Created: 7/11/2016 2:20:59 PM
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Electropherogram Summary Continued ...

... Peak table for sample 3 : Stat 3

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	16,747	0.00	0.0		118.94
27	17,679	0.00	0.0		119.81
28	18,144	0.00	0.0		120.24
29	19,180	0.00	0.0		121.21
30	19,853	0.00	0.0		121.83

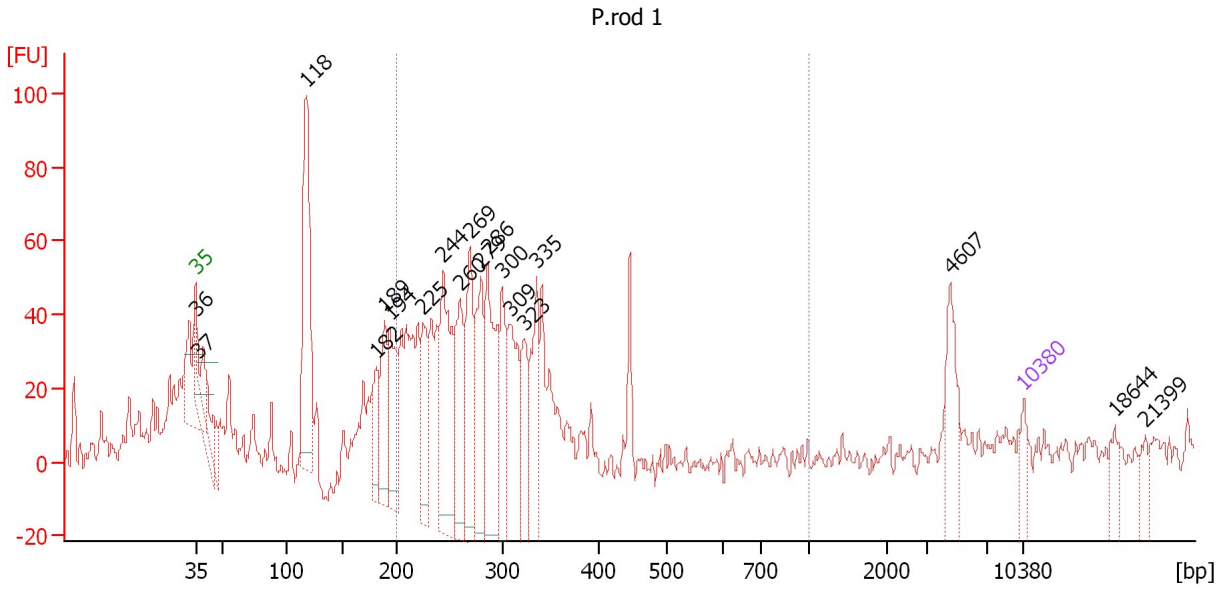
Region table for sample 3 : Stat 3

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	324	9,066.5	105,013.7	20,284.04	90	30.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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 Modified: 7/11/2016 3:02:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : P.rod 1

Number of peaks found: 19 Corr. Area 1: 367.4
 Noise: 4.0

Peak table for sample 4 : P.rod 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	36	188.14	7,942.1		43.14
3	37	102.67	4,228.9		43.27
4	118	276.99	3,568.2		52.38
5	182	65.62	547.4		58.28
6	189	100.99	807.6		59.00
7	194	120.12	938.7		59.41
8	225	88.56	595.4		62.25
9	244	214.33	1,328.8		63.96
10	260	129.16	751.4		65.40
11	269	149.78	842.2		66.21
12	279	143.15	776.1		67.11
13	286	197.41	1,045.8		67.70
14	300	113.66	575.0		68.92
15	309	153.89	754.9		69.68
16	323	90.88	426.7		70.81
17	335	130.16	588.0		71.85
18	4,607	150.78	49.6		106.82
19	10,380	75.00	10.9	Upper Marker	113.00
20	18,644	0.00	0.0		120.71
21	21,399	0.00	0.0		123.28

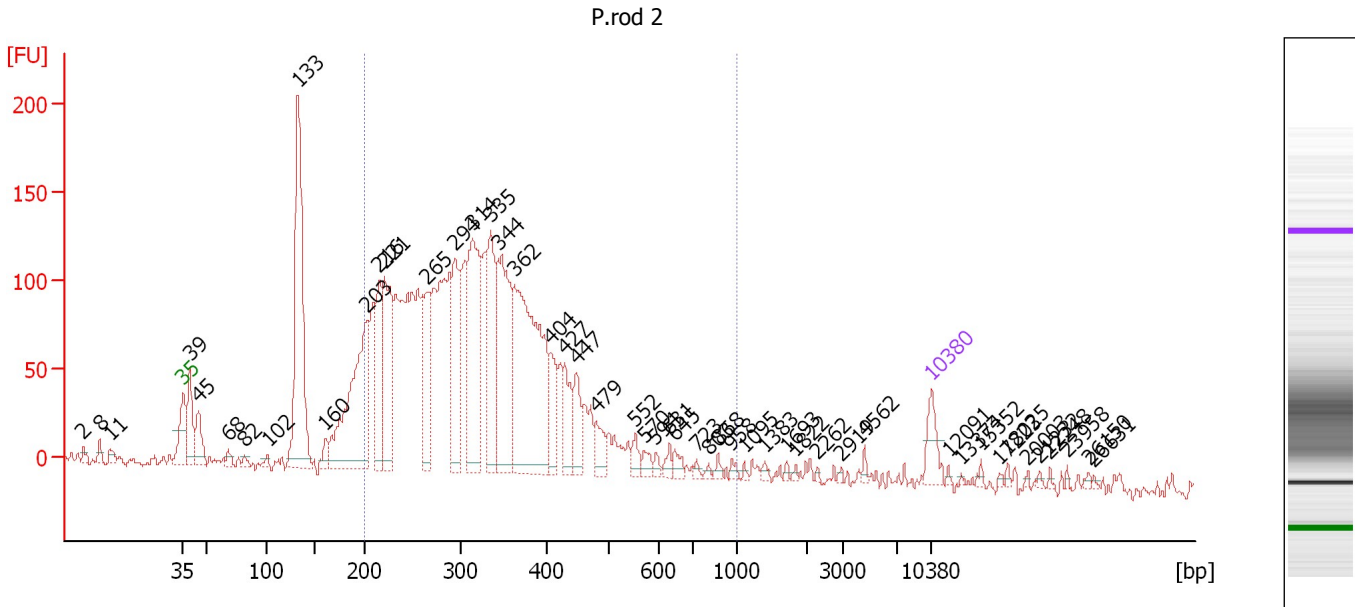
Region table for sample 4 : P.rod 1

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	278	367.4	3,295.8	587.63	71	17.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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 Modified: 7/11/2016 3:02:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : P.rod 2

Number of peaks found: 50 Corr. Area 1: 3,180.0
 Noise: 3.2

Peak table for sample 5 : P.rod 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	2	0.00	0.0		33.68
2	8	0.00	0.0		35.22
3	11	0.00	0.0		36.17
4	35	125.00	5,411.3	Lower Marker	43.00
5	39	220.73	8,514.2		43.65
6	45	154.01	5,199.8		44.50
7	68	30.90	688.9		47.24
8	82	20.82	384.2		48.78
9	102	19.74	293.2		50.93
10	133	995.79	11,373.8		53.77
11	160	52.96	500.9		56.31
12	203	771.98	5,773.2		60.20
13	216	292.05	2,049.5		61.40
14	221	470.07	3,224.3		61.85
15	265	311.78	1,784.7		65.78
16	294	337.15	1,737.1		68.43
17	314	608.64	2,934.6		70.12
18	335	357.73	1,617.9		71.82
19	344	554.46	2,445.1		72.52
20	362	942.75	3,946.9		74.01
21	404	148.70	557.6		77.35
22	427	136.93	485.3		78.70
23	447	122.56	415.1		79.84
24	479	78.63	248.9		81.64
25	552	41.10	112.8		85.28

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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 Modified: 7/11/2016 3:02:25 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : P.rod 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	570	32.62	86.7		86.13
27	594	18.00	45.9		87.22
28	631	26.87	64.5		88.52
29	645	30.61	71.9		88.97
30	723	11.16	23.4		91.06
31	803	9.02	17.0		92.16
32	868	16.41	28.6		93.06
33	958	14.45	22.8		94.30
34	1,095	6.82	9.4		95.50
35	1,383	11.41	12.5		97.39
36	1,693	7.13	6.4		99.44
37	1,822	6.34	5.3		100.29
38	2,262	5.19	3.5		102.33
39	2,919	5.58	2.9		104.52
40	4,562	12.65	4.2		106.77
41	10,380	75.00	10.9	Upper Marker	113.00
42	12,091	0.00	0.0		114.60
43	13,374	0.00	0.0		115.79
44	15,352	0.00	0.0		117.64
45	17,223	0.00	0.0		119.38
46	18,025	0.00	0.0		120.13
47	20,003	0.00	0.0		121.97
48	21,232	0.00	0.0		123.12
49	22,248	0.00	0.0		124.07
50	23,958	0.00	0.0		125.66
51	26,150	0.00	0.0		127.71
52	26,631	0.00	0.0		128.16

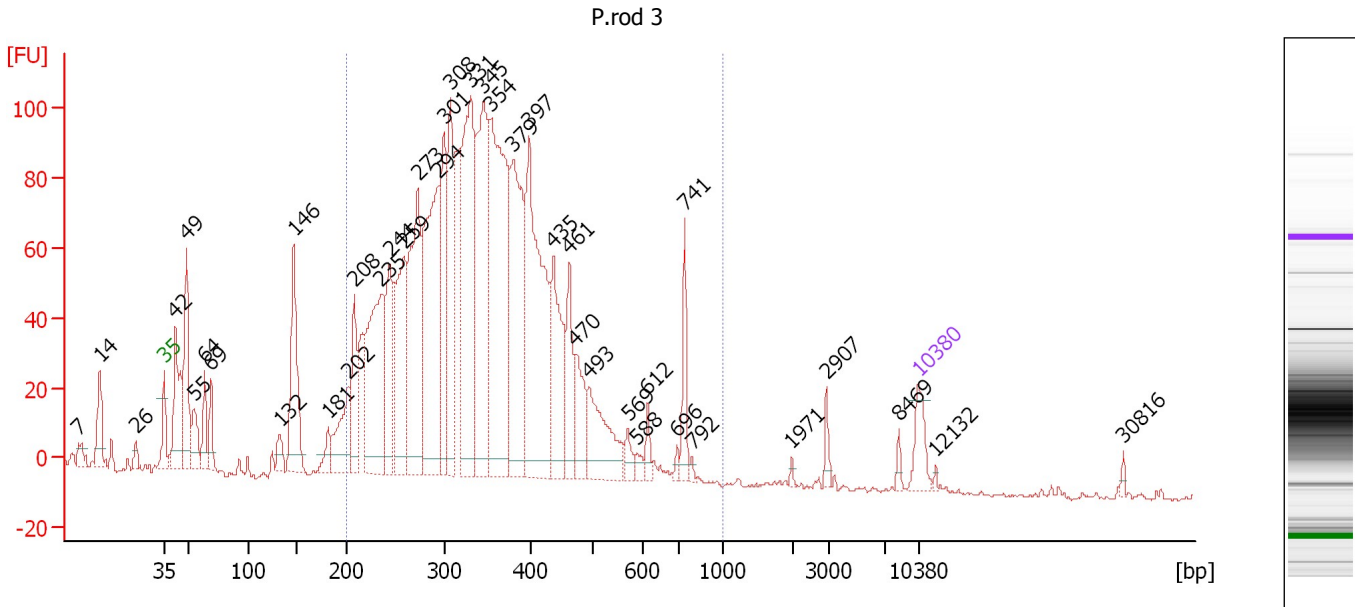
Region table for sample 5 : P.rod 2

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	338	3,180.0	38,645.5	7,729.93	76	32.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : P.rod 3

Number of peaks found: 40 Corr. Area 1: 2,328.9
 Noise: 0.8

Peak table for sample 6 : P.rod 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	7	0.00	0.0		35.08
2	14	0.00	0.0		37.01
3	26	0.00	0.0		40.38
4	35	125.00	5,411.3	Lower Marker	43.00
5	42	348.15	12,599.9		44.04
6	49	375.67	11,680.6		45.08
7	55	131.64	3,654.6		45.77
8	64	112.93	2,689.1		46.76
9	69	96.87	2,125.4		47.36
10	132	62.73	718.1		53.74
11	146	413.71	4,286.0		55.03
12	181	69.77	583.2		58.25
13	202	223.54	1,678.4		60.13
14	208	222.16	1,619.4		60.67
15	235	656.56	4,226.3		63.15
16	244	296.25	1,838.2		63.94
17	259	474.19	2,773.5		65.28
18	273	615.10	3,409.3		66.56
19	294	808.93	4,172.8		68.40
20	301	393.21	1,979.5		69.04
21	308	414.91	2,043.4		69.58
22	331	806.20	3,693.7		71.47
23	345	705.09	3,099.6		72.60
24	354	997.50	4,265.0		73.40
25	379	631.55	2,523.2		75.43

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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Electropherogram Summary Continued ...

... Peak table for sample 6 : P.rod 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	397	800.93	3,053.3		76.91
27	435	350.27	1,219.7		79.14
28	461	175.89	578.1		80.62
29	470	171.43	552.1		81.17
30	493	263.39	809.8		82.46
31	569	40.87	108.8		86.07
32	588	21.96	56.6		86.96
33	612	36.34	89.9		87.90
34	696	16.56	36.0		90.62
35	741	116.44	238.0		91.32
36	792	10.44	20.0		92.01
37	1,971	7.81	6.0		101.27
38	2,907	28.65	14.9		104.49
39	8,469	15.73	2.8		111.22
40	10,380	75.00	10.9	Upper Marker	113.00
41	12,132	0.00	0.0		114.63
42	30,816	0.00	0.0		132.06

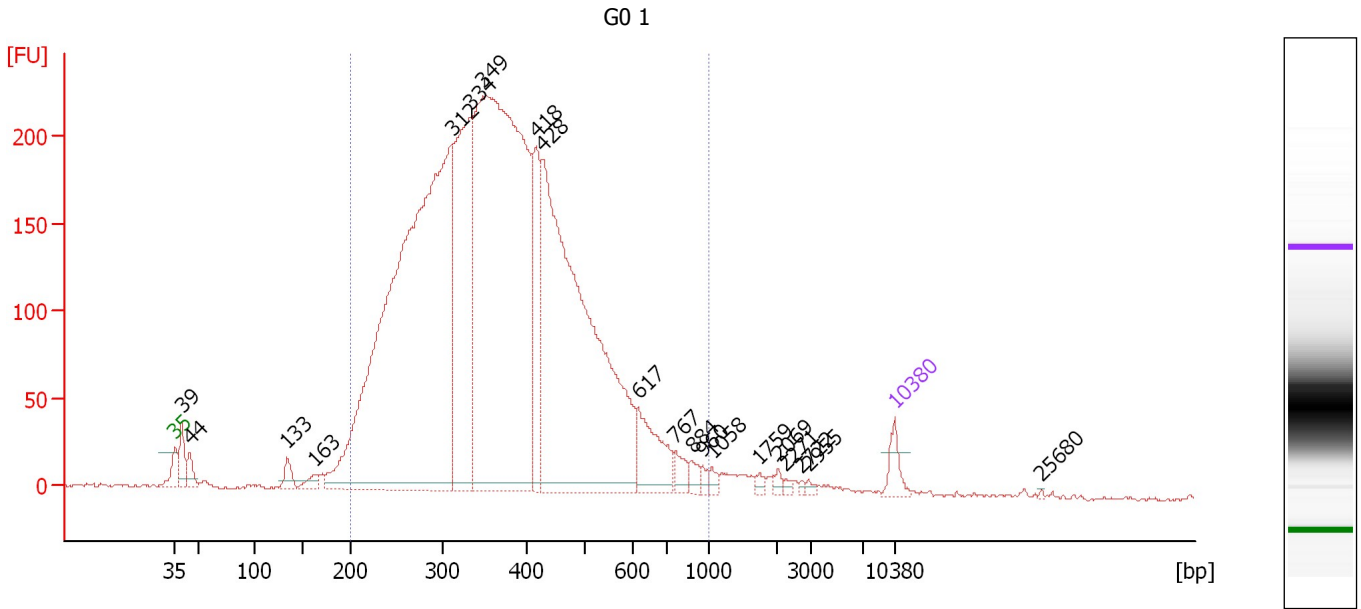
Region table for sample 6 : P.rod 3

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	353	2,328.9	44,145.6	9,383.76	87	28.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

Created: 7/11/2016 2:20:59 PM
 Modified: 7/11/2016 3:02:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : G0 1

Number of peaks found: 20 Corr. Area 1: 5,649.2
 Noise: 0.9

Peak table for sample 7 : G0 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	39	190.16	7,366.4		43.62
3	44	113.54	3,887.4		44.40
4	133	92.94	1,055.0		53.85
5	163	63.42	590.6		56.54
6	312	5,275.29	25,626.5		69.93
7	334	1,436.29	6,524.9		71.70
8	349	4,641.29	20,162.1		72.94
9	418	490.66	1,780.3		78.13
10	428	3,180.06	11,246.8		78.75
11	617	327.73	805.4		88.04
12	767	76.83	151.7		91.67
13	884	44.99	77.1		93.28
14	960	26.37	41.6		94.32
15	1,058	29.03	41.6		95.25
16	1,759	19.55	16.8		99.87
17	2,069	22.50	16.5		101.69
18	2,271	13.69	9.1		102.36
19	2,722	9.32	5.2		103.87
20	2,955	13.62	7.0		104.65
21	10,380	75.00	10.9	Upper Marker	113.00
22	25,680	0.00	0.0		127.27

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

Created: 7/11/2016 2:20:59 PM
Modified: 7/11/2016 3:02:25 PM

Electropherogram Summary Continued ...

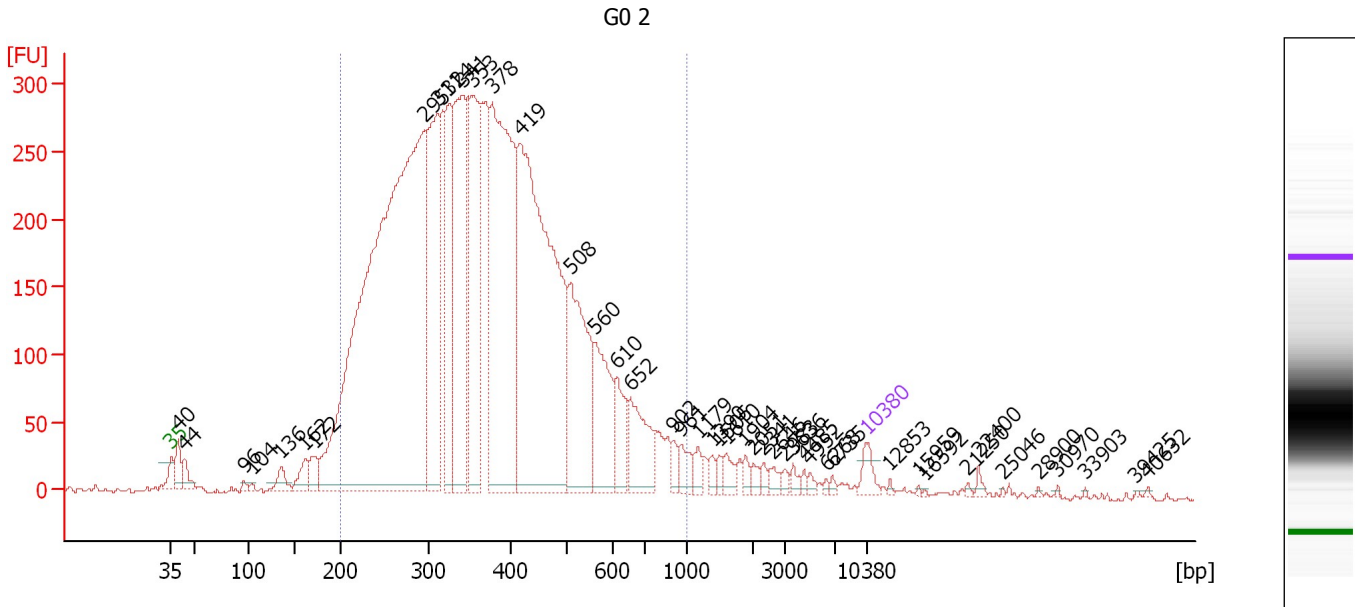
... Region table for sample 7 : G0 1

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	381	5,649.2	69,014.4	15,533.69	95	30.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : G0 2

Number of peaks found: 45 Corr. Area 1: 8,236.7
 Noise: 1.5

Peak table for sample 8 : G0 2

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	40	184.73	7,067.3		43.70
3	44	130.45	4,507.1		44.34
4	96	24.00	379.1		50.30
5	104	14.16	205.5		51.15
6	136	107.35	1,198.8		54.05
7	162	135.87	1,267.5		56.52
8	172	143.85	1,264.6		57.43
9	295	6,948.04	35,728.5		68.48
10	311	1,350.79	6,590.7		69.82
11	324	850.68	3,973.9		70.95
12	341	1,553.70	6,894.7		72.34
13	353	1,243.33	5,332.6		73.31
14	378	2,468.82	9,889.3		75.34
15	419	3,202.36	11,591.5		78.19
16	508	987.07	2,945.1		83.23
17	560	546.02	1,477.6		85.64
18	610	257.48	639.0		87.84
19	652	386.31	898.0		89.18
20	902	62.91	105.7		93.53
21	961	96.91	152.8		94.33
22	1,179	63.87	82.1		96.05
23	1,390	40.03	43.6		97.44
24	1,505	36.82	37.1		98.20
25	1,610	61.85	58.2		98.89

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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 Modified: 7/11/2016 3:02:25 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : G0 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,904	35.91	28.6		100.82
27	2,051	35.36	26.1		101.63
28	2,341	28.74	18.6		102.59
29	2,646	40.17	23.0		103.61
30	2,983	23.84	12.1		104.74
31	3,636	30.01	12.5		105.60
32	4,485	17.93	6.1		106.67
33	4,952	20.98	6.4		107.26
34	6,268	11.86	2.9		108.92
35	6,735	14.55	3.3		109.51
36	10,380	75.00	10.9	Upper Marker	113.00
37	12,853	0.00	0.0		115.31
38	15,959	0.00	0.0		118.20
39	16,592	0.00	0.0		118.79
40	21,250	0.00	0.0		123.14
41	22,400	0.00	0.0		124.21
42	25,046	0.00	0.0		126.68
43	28,900	0.00	0.0		130.27
44	30,970	0.00	0.0		132.20
45	33,903	0.00	0.0		134.94
46	39,425	0.00	0.0		140.09
47	40,632	0.00	0.0		141.21

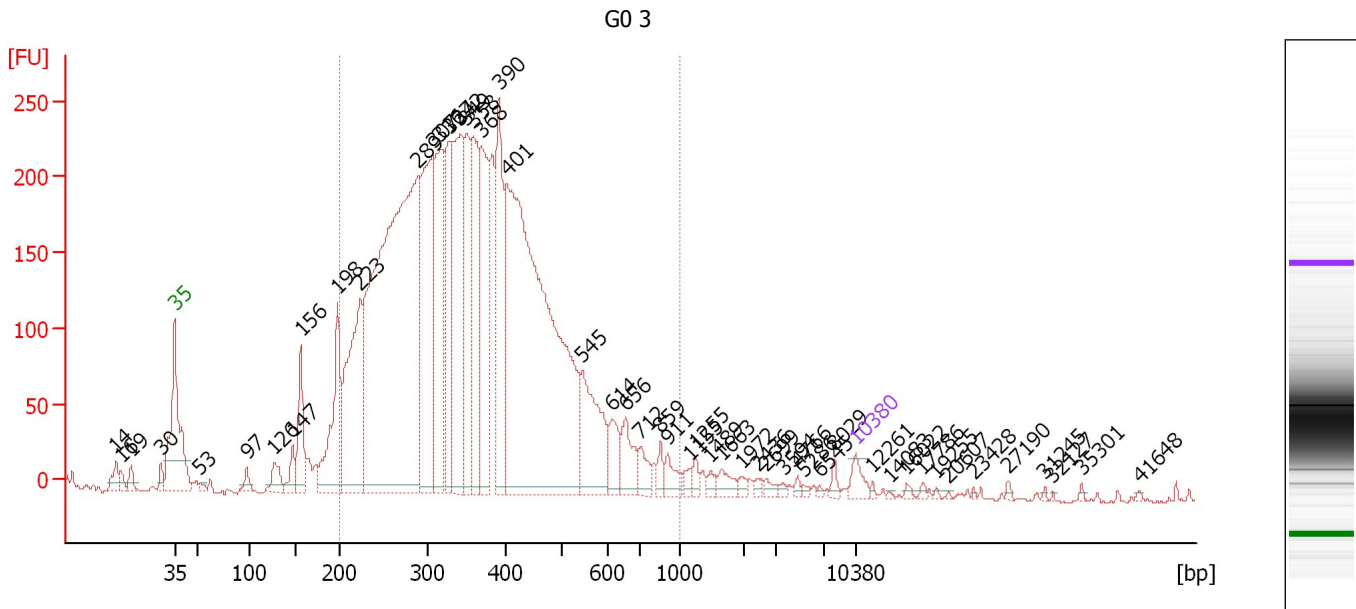
Region table for sample 8 : G0 2

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	384	8,236.7	98,168.1	21,808.38	91	33.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : G0 3

Number of peaks found: 51 Corr. Area 1: 5,996.2
 Noise: 1.8

Peak table for sample 9 : G0 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	14	0.00	0.0		36.97
2	16	0.00	0.0		37.46
3	19	0.00	0.0		38.51
4	30	0.00	0.0		41.57
5	35	125.00	5,411.3	Lower Marker	43.00
6	53	29.29	832.7		45.63
7	97	84.40	1,320.0		50.40
8	126	161.00	1,928.8		53.20
9	147	143.26	1,475.0		55.11
10	156	419.36	4,070.7		55.94
11	198	844.40	6,465.0		59.77
12	223	1,346.59	9,130.8		62.08
13	289	5,376.24	28,159.0		68.00
14	307	1,567.14	7,734.5		69.53
15	316	1,163.93	5,573.7		70.30
16	327	794.86	3,681.3		71.18
17	342	1,323.32	5,863.8		72.38
18	349	831.65	3,607.2		72.98
19	358	974.73	4,124.7		73.70
20	368	923.26	3,799.9		74.52
21	390	951.05	3,691.9		76.33
22	401	4,457.43	16,861.3		77.15
23	545	644.14	1,792.1		84.93
24	614	179.17	442.3		87.95
25	656	233.07	538.4		89.32

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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Electropherogram Summary Continued ...

... Peak table for sample 9 : G0 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	712	119.70	254.8		90.91
27	859	63.32	111.7		92.94
28	911	105.93	176.2		93.65
29	1,155	44.02	57.7		95.90
30	1,255	48.10	58.1		96.56
31	1,489	33.13	33.7		98.09
32	1,663	74.48	67.8		99.24
33	1,972	28.26	21.7		101.27
34	2,436	20.53	12.8		102.91
35	2,699	32.47	18.2		103.79
36	3,594	17.63	7.4		105.55
37	4,766	20.24	6.4		107.03
38	5,286	15.13	4.3		107.68
39	6,545	10.82	2.5		109.27
40	8,029	36.82	6.9		110.81
41	10,380	75.00	10.9	Upper Marker	113.00
42	12,261	0.00	0.0		114.75
43	14,083	0.00	0.0		116.45
44	16,022	0.00	0.0		118.26
45	17,786	0.00	0.0		119.91
46	19,255	0.00	0.0		121.28
47	20,607	0.00	0.0		122.54
48	23,428	0.00	0.0		125.17
49	27,190	0.00	0.0		128.68
50	31,245	0.00	0.0		132.46
51	32,127	0.00	0.0		133.28
52	35,301	0.00	0.0		136.24
53	41,648	0.00	0.0		142.16

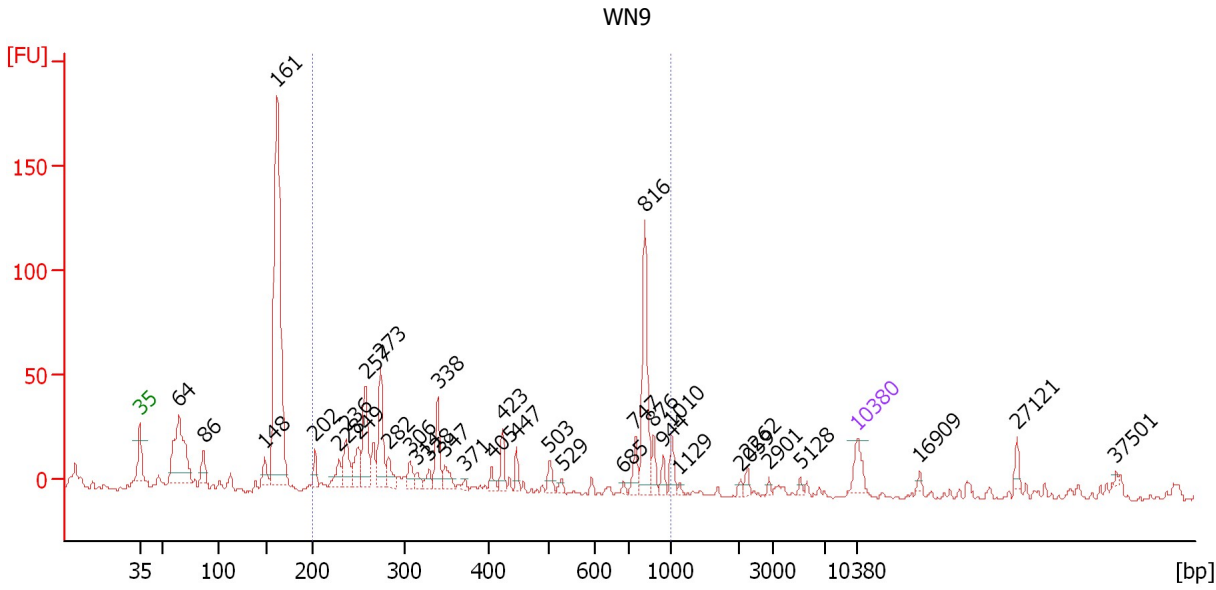
Region table for sample 9 : G0 3

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	368	5,996.2	98,613.4	21,394.64	92	31.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : WN9

Number of peaks found: 36 Corr. Area 1: 295.7
 Noise: 1.3

Peak table for sample 10 : WN9

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	64	628.76	14,893.7		46.80
3	86	99.23	1,741.8		49.25
4	148	77.30	789.1		55.23
5	161	1,769.87	16,610.6		56.43
6	202	59.09	443.8		60.12
7	228	81.53	542.3		62.46
8	236	155.30	997.6		63.19
9	249	129.08	786.7		64.34
10	257	269.65	1,591.5		65.07
11	273	259.77	1,442.2		66.52
12	282	86.75	466.8		67.30
13	306	66.89	331.3		69.44
14	314	38.38	185.5		70.06
15	328	44.99	207.7		71.26
16	338	164.49	736.5		72.09
17	347	68.29	297.9		72.82
18	371	15.67	64.0		74.75
19	405	38.37	143.6		77.40
20	423	74.77	267.8		78.44
21	447	47.51	161.2		79.80
22	503	47.54	143.1		83.02
23	529	17.86	51.1		84.22
24	685	11.78	26.1		90.26
25	747	73.65	149.3		91.40

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

Created: 7/11/2016 2:20:59 PM
 Modified: 7/11/2016 3:02:25 PM

Electropherogram Summary Continued ...

... Peak table for sample 10 : WN9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	816	396.62	736.8		92.34
27	876	58.73	101.6		93.17
28	944	38.09	61.1		94.11
29	1,010	61.00	91.5		94.94
30	1,129	10.70	14.4		95.72
31	2,059	14.58	10.7		101.65
32	2,262	22.68	15.2		102.33
33	2,901	10.69	5.6		104.46
34	5,128	11.16	3.3		107.48
35	10,380	75.00	10.9	Upper Marker	113.00
36	16,909	0.00	0.0		119.09
37	27,121	0.00	0.0		128.61
38	37,501	0.00	0.0		138.29

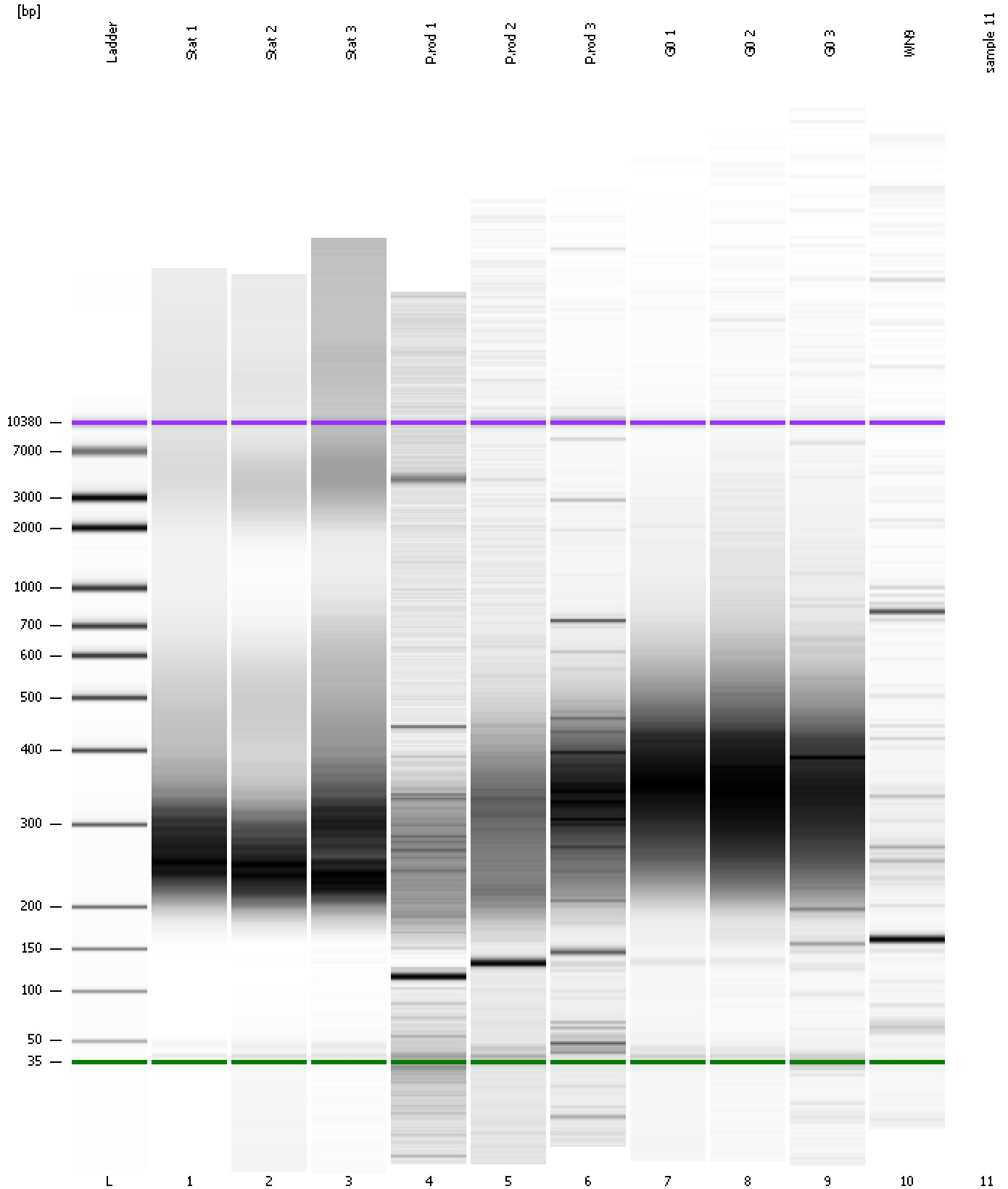
Region table for sample 10 : WN9

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	532	295.7	6,662.9	1,555.18	44	50.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

Created: 7/11/2016 2:20:59 PM
Modified: 7/11/2016 3:02:25 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

Created: 7/11/2016 2:20:59 PM
Modified: 7/11/2016 3:02:25 PM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad

Created: 7/11/2016 2:20:59 PM
 Modified: 7/11/2016 3:02:25 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		7/11/2016 2:58:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_003.xad)		Instrument	Run		7/11/2016 2:21:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/11/2016 2:21:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/11/2016 2:21:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/11/2016 2:21:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/11/2016 2:21:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/11/2016 2:21:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/11/2016 2:21:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1