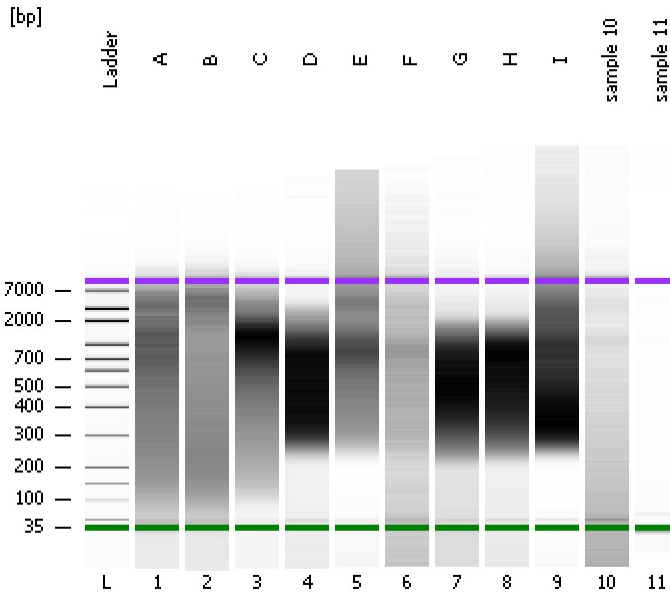


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
Modified: 7/8/2016 3:51:34 PM

Electrophoresis File Run Summary



Instrument Information:

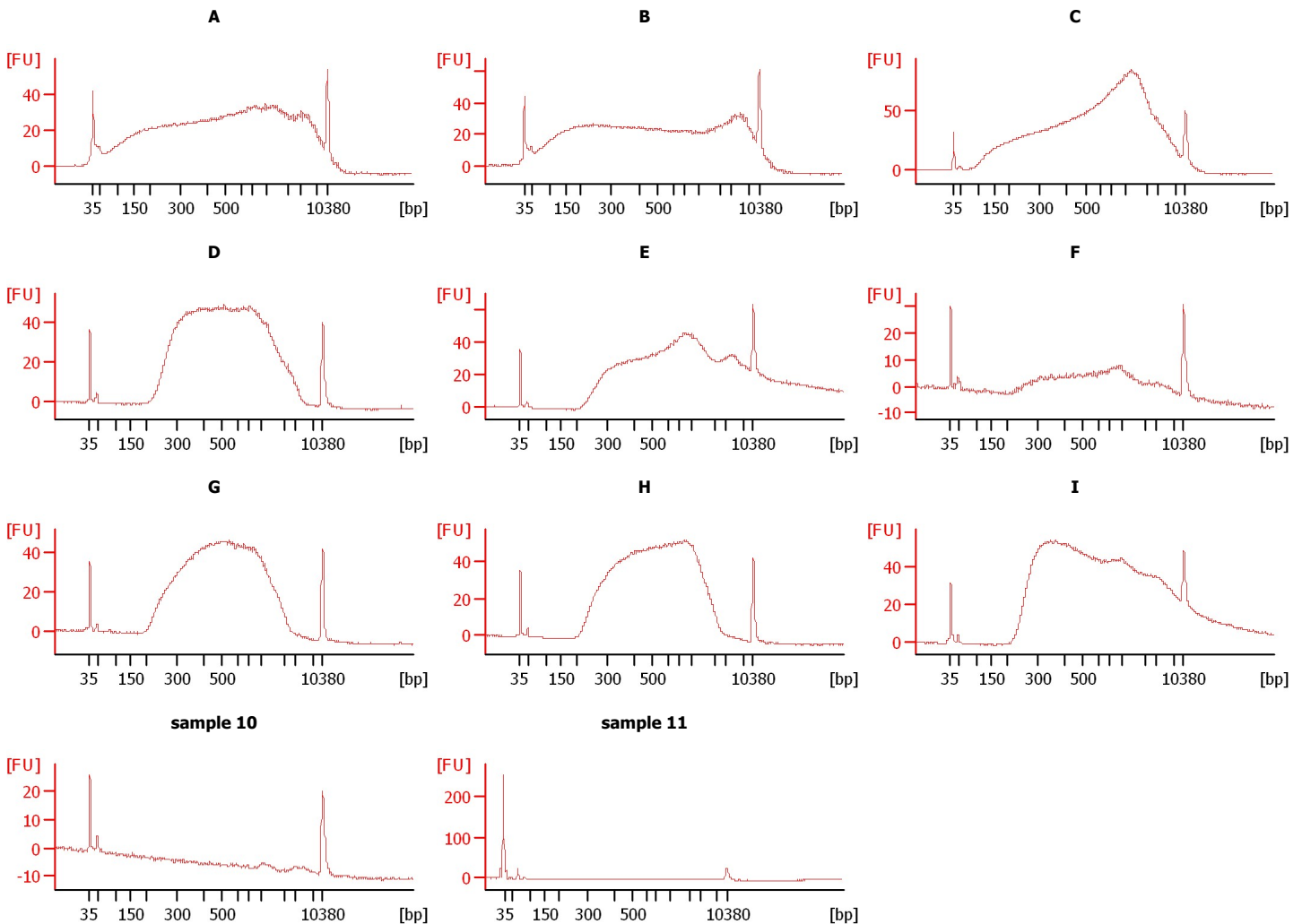
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
 Modified: 7/8/2016 3:51:34 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A		<input type="checkbox"/>	✓			
B		<input type="checkbox"/>	✓			
C		<input type="checkbox"/>	✓			
D		<input type="checkbox"/>	✓			
E		<input type="checkbox"/>	✓			
F		<input type="checkbox"/>	✓			
G		<input type="checkbox"/>	✓			
H		<input type="checkbox"/>	✓			
I		<input type="checkbox"/>	✓			
sample 10		<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\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
Modified: 7/8/2016 3:51:34 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

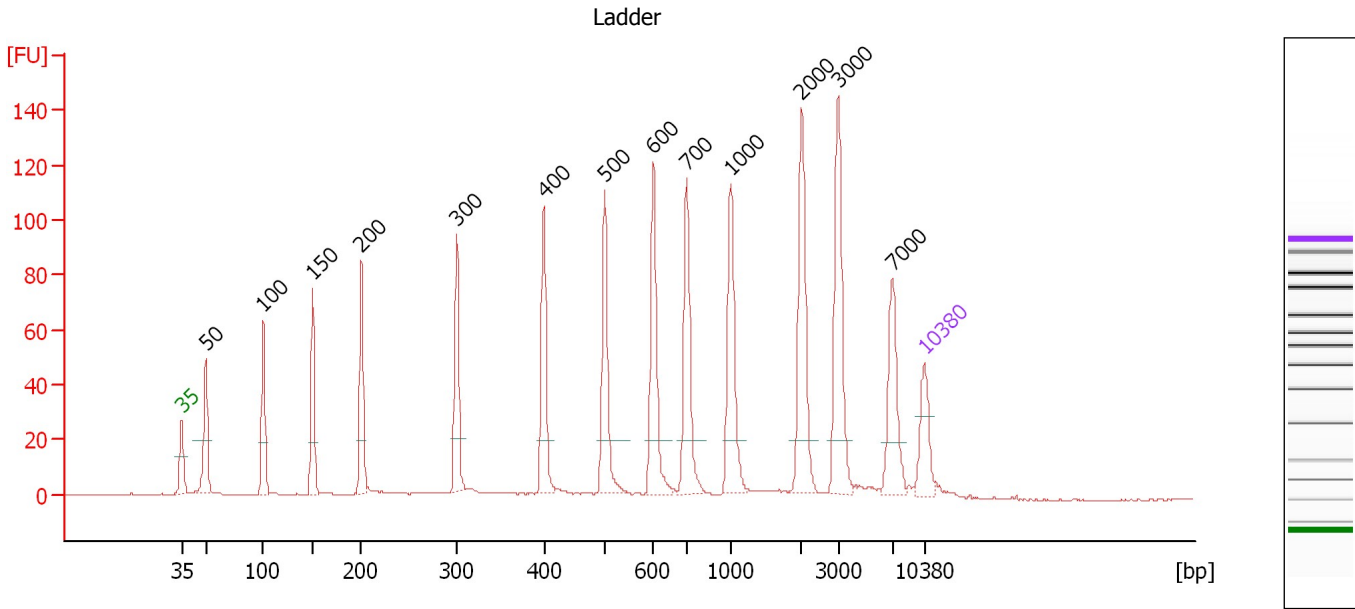
Ladder

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\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
 Modified: 7/8/2016 3:51:34 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

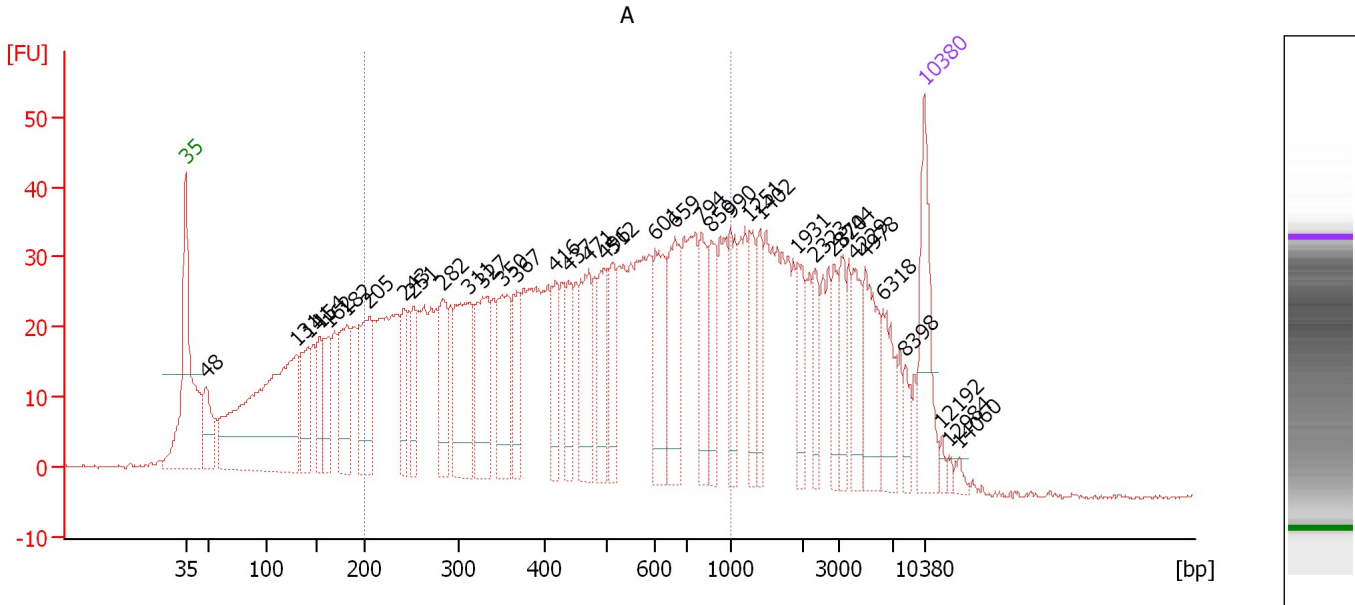
Peak table for Ladder

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	45.26
3	100	150.00	2,272.7	Ladder Peak	50.69
4	150	150.00	1,515.2	Ladder Peak	55.36
5	200	150.00	1,136.4	Ladder Peak	59.93
6	300	150.00	757.6	Ladder Peak	68.93
7	400	150.00	568.2	Ladder Peak	77.12
8	500	150.00	454.5	Ladder Peak	82.85
9	600	150.00	378.8	Ladder Peak	87.47
10	700	150.00	324.7	Ladder Peak	90.59
11	1,000	150.00	227.3	Ladder Peak	94.76
12	2,000	150.00	113.6	Ladder Peak	101.44
13	3,000	150.00	75.8	Ladder Peak	104.86
14	7,000	150.00	32.5	Ladder Peak	109.98
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
 Modified: 7/8/2016 3:51:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : A

Number of peaks found: 37 Corr. Area 1: 1,256.0
 Noise: 0.3

Peak table for sample 1 : A

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	64.55	2,034.9		44.97
3	131	433.76	5,029.3		53.56
4	141	79.81	854.7		54.57
5	154	57.60	566.7		55.73
6	162	65.73	613.7		56.48
7	182	110.07	918.3		58.25
8	205	120.49	888.6		60.42
9	243	54.74	342.0		63.76
10	251	54.15	326.2		64.57
11	282	72.76	391.2		67.29
12	311	131.76	641.0		69.87
13	327	104.18	482.9		71.13
14	350	90.14	390.6		73.00
15	367	59.92	247.4		74.41
16	416	51.32	186.8		78.05
17	437	44.01	152.4		79.26
18	471	88.15	283.6		81.18
19	496	65.81	200.8		82.65
20	512	52.23	154.5		83.40
21	601	81.08	204.5		87.49
22	659	84.79	194.9		89.31
23	794	56.42	107.7		91.89
24	859	53.39	94.2		92.80
25	990	53.71	82.2		94.62

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
 Modified: 7/8/2016 3:51:34 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,251	43.15	52.3		96.43
27	1,402	36.21	39.1		97.44
28	1,931	37.54	29.5		100.98
29	2,323	31.28	20.4		102.55
30	2,870	27.61	14.6		104.41
31	3,244	34.49	16.1		105.17
32	4,229	41.31	14.8		106.43
33	4,978	63.79	19.4		107.39
34	6,318	47.09	11.3		109.11
35	8,398	15.85	2.9		111.23
36	10,380	75.00	10.9	Upper Marker	113.00
37	12,192	0.00	0.0		114.62
38	12,984	0.00	0.0		115.32
39	14,060	0.00	0.0		116.28

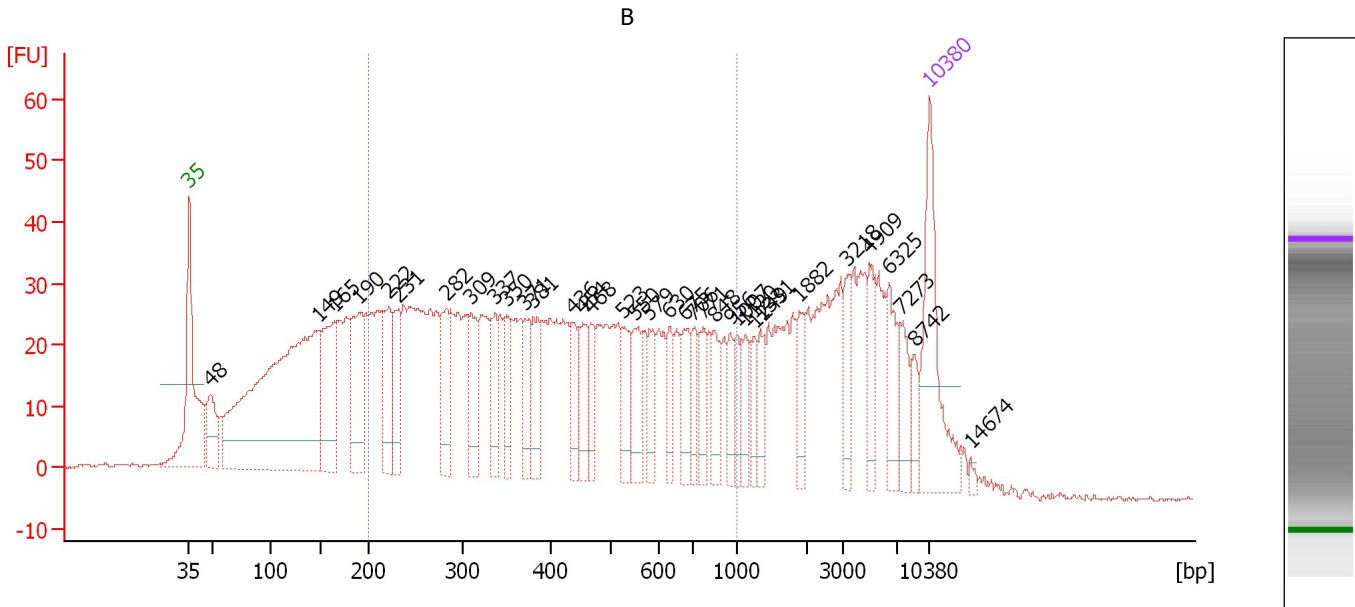
Region table for sample 1 : A

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	480	1,256.0	10,075.9	2,480.25	57	42.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : B

Number of peaks found: 35 Corr. Area 1: 1,165.9
 Noise: 0.3

Peak table for sample 2 : B

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	48.01	1,503.7		45.02
3	149	461.05	4,695.8		55.25
4	165	97.23	894.4		56.71
5	190	86.24	687.5		59.03
6	222	68.84	470.2		61.90
7	231	41.65	273.4		62.70
8	282	51.02	274.3		67.29
9	309	43.95	215.6		69.66
10	337	38.89	175.1		71.93
11	350	30.74	133.0		73.04
12	371	31.16	127.2		74.75
13	381	34.80	138.4		75.56
14	436	27.96	97.2		79.18
15	454	35.17	117.2		80.24
16	468	25.30	82.0		81.00
17	523	32.24	93.4		83.92
18	550	32.72	90.1		85.18
19	579	24.52	64.2		86.49
20	630	20.89	50.2		88.41
21	675	29.15	65.4		89.82
22	706	21.30	45.7		90.67
23	771	23.52	46.2		91.58
24	848	24.70	44.1		92.64
25	956	17.53	27.8		94.15

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

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Electropherogram Summary Continued ...

... Peak table for sample 2 : B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,007	17.00	25.6		94.81
27	1,120	18.03	24.4		95.56
28	1,249	16.29	19.8		96.42
29	1,331	18.87	21.5		96.97
30	1,882	23.63	19.0		100.65
31	3,218	19.83	9.3		105.14
32	4,909	26.44	8.2		107.31
33	6,325	32.51	7.8		109.12
34	7,273	22.70	4.7		110.23
35	8,742	13.20	2.3		111.54
36	10,380	75.00	10.9	Upper Marker	113.00
37	14,674	0.00	0.0		116.83

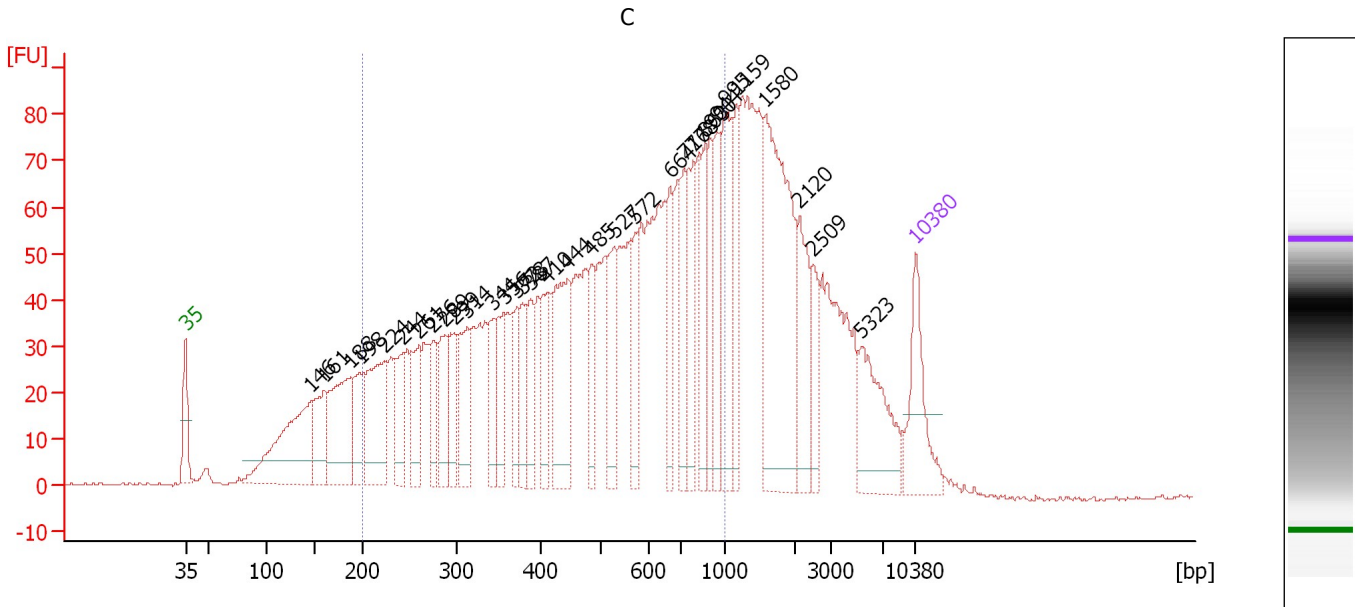
Region table for sample 2 : B

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	446	1,165.9	6,669.5	1,540.40	53	43.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : C

Number of peaks found: 33 Corr. Area 1: 1,952.1
 Noise: 0.3

Peak table for sample 3 : C

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	146	233.85	2,430.9		54.96
3	161	89.89	847.2		56.35
4	188	165.08	1,333.4		58.80
5	198	72.54	554.5		59.77
6	224	168.19	1,138.8		62.07
7	244	64.00	397.0		63.91
8	261	76.48	444.4		65.40
9	276	57.27	314.3		66.78
10	289	73.85	387.8		67.90
11	299	69.54	352.6		68.82
12	314	92.83	448.4		70.05
13	344	52.61	232.0		72.50
14	356	68.57	291.7		73.53
15	372	52.34	213.3		74.80
16	378	53.00	212.5		75.32
17	387	61.04	238.8		76.08
18	410	65.32	241.6		77.67
19	444	150.65	513.7		79.66
20	485	57.63	180.2		81.96
21	527	81.12	233.1		84.11
22	572	63.15	167.4		86.16
23	664	66.22	151.0		89.48
24	716	70.30	148.8		90.81
25	778	90.45	176.1		91.68

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
 Modified: 7/8/2016 3:51:34 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : C

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	863	69.09	121.3		92.85
27	900	69.43	116.9		93.37
28	944	69.26	111.2		93.98
29	995	113.26	172.4		94.69
30	1,159	69.31	90.6		95.82
31	1,580	268.00	257.1		98.63
32	2,120	78.03	55.8		101.85
33	2,509	39.18	23.7		103.18
34	5,323	99.33	28.3		107.84
35	10,380	75.00	10.9	Upper Marker	113.00

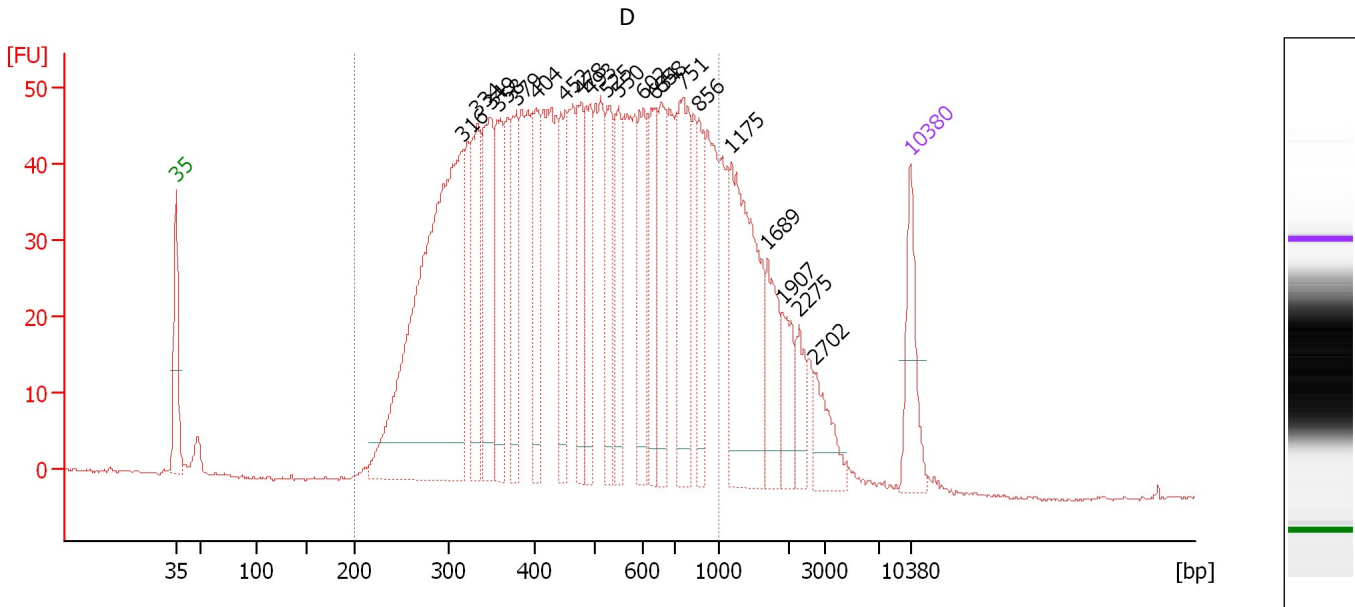
Region table for sample 3 : C

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	516	1,952.1	11,349.4	2,996.72	62	40.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

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 Modified: 7/8/2016 3:51:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : D

Number of peaks found: 21 Corr. Area 1: 1,689.0
 Noise: 0.2


Peak table for sample 4 : D

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	316	870.22	4,167.5		70.27
3	334	185.00	838.8		71.73
4	349	210.95	914.7		72.98
5	358	145.09	614.6		73.65
6	379	131.82	527.5		75.37
7	404	127.42	477.9		77.35
8	452	130.29	436.6		80.11
9	478	114.38	362.9		81.57
10	493	112.70	346.4		82.45
11	525	114.96	331.7		84.01
12	550	102.91	283.6		85.16
13	602	122.80	308.8		87.55
14	634	117.59	280.9		88.54
15	658	119.14	274.5		89.27
16	751	191.36	386.1		91.30
17	856	97.45	172.5		92.75
18	1,175	270.92	349.3		95.93
19	1,689	80.43	72.1		99.36
20	1,907	54.42	43.2		100.82
21	2,275	40.77	27.1		102.38
22	2,702	53.46	30.0		103.84
23	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
Modified: 7/8/2016 3:51:34 PM

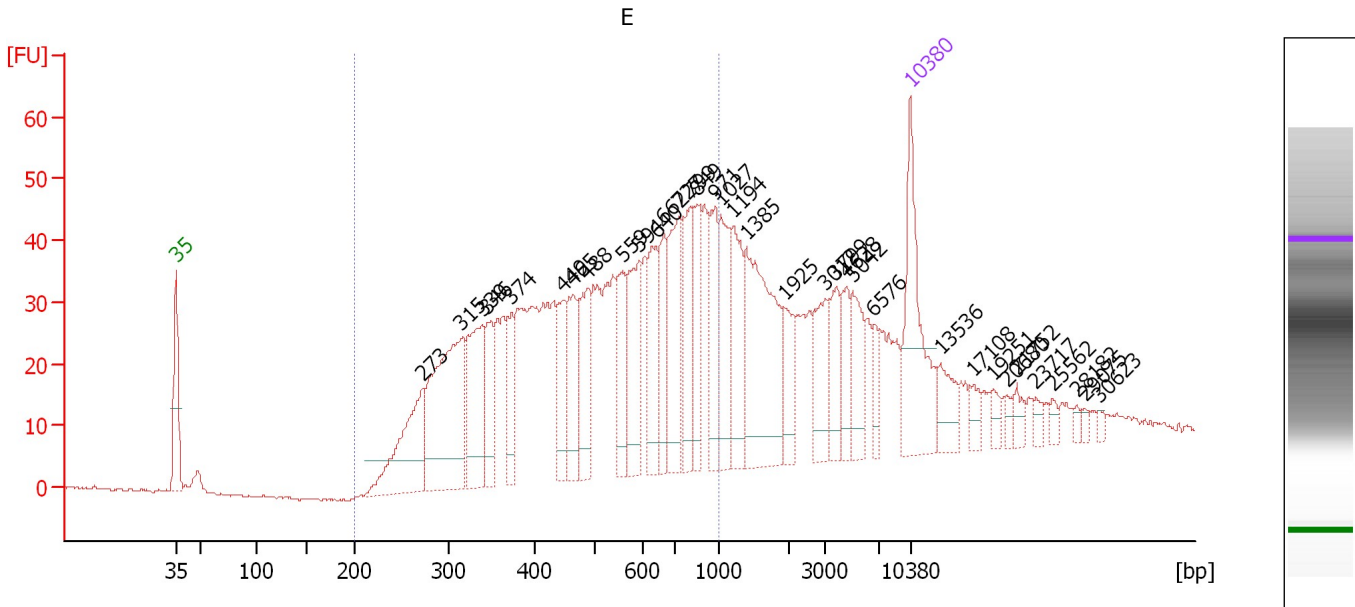
Electropherogram Summary Continued ...**... Region table for sample 4 : D**

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	499	1,689.0	16,379.6	 4,509.15	85	36.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
 Modified: 7/8/2016 3:51:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : E

Number of peaks found: 35 Corr. Area 1: 991.6
 Noise: 0.2

Peak table for sample 5 : E

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	273	96.98	538.8		66.47
3	315	166.24	798.5		70.19
4	339	89.26	398.5		72.16
5	346	40.35	176.8		72.69
6	374	39.18	158.8		74.97
7	449	42.93	145.0		79.91
8	465	58.32	189.8		80.87
9	488	50.98	158.4		82.14
10	559	42.78	115.9		85.59
11	594	66.33	169.2		87.19
12	640	52.96	125.3		88.73
13	662	38.83	88.8		89.42
14	727	68.79	143.4		90.96
15	799	49.46	93.8		91.97
16	849	40.27	71.9		92.66
17	971	46.79	73.0		94.36
18	1,027	51.11	75.4		94.94
19	1,194	53.06	67.3		96.06
20	1,385	118.90	130.1		97.33
21	1,925	26.77	21.1		100.94
22	3,012	35.31	17.8		104.87
23	3,799	25.51	10.2		105.88
24	4,628	24.22	7.9		106.95
25	5,042	32.21	9.7		107.48

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
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Electropherogram Summary Continued ...

... Peak table for sample 5 : E

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,576	14.53	3.3		109.44
27	10,380	75.00	10.9	Upper Marker	113.00
28	13,536	0.00	0.0		115.81
29	17,108	0.00	0.0		119.00
30	19,251	0.00	0.0		120.91
31	20,680	0.00	0.0		122.19
32	21,752	0.00	0.0		123.14
33	23,717	0.00	0.0		124.90
34	25,562	0.00	0.0		126.54
35	28,182	0.00	0.0		128.88
36	29,075	0.00	0.0		129.68
37	30,623	0.00	0.0		131.06

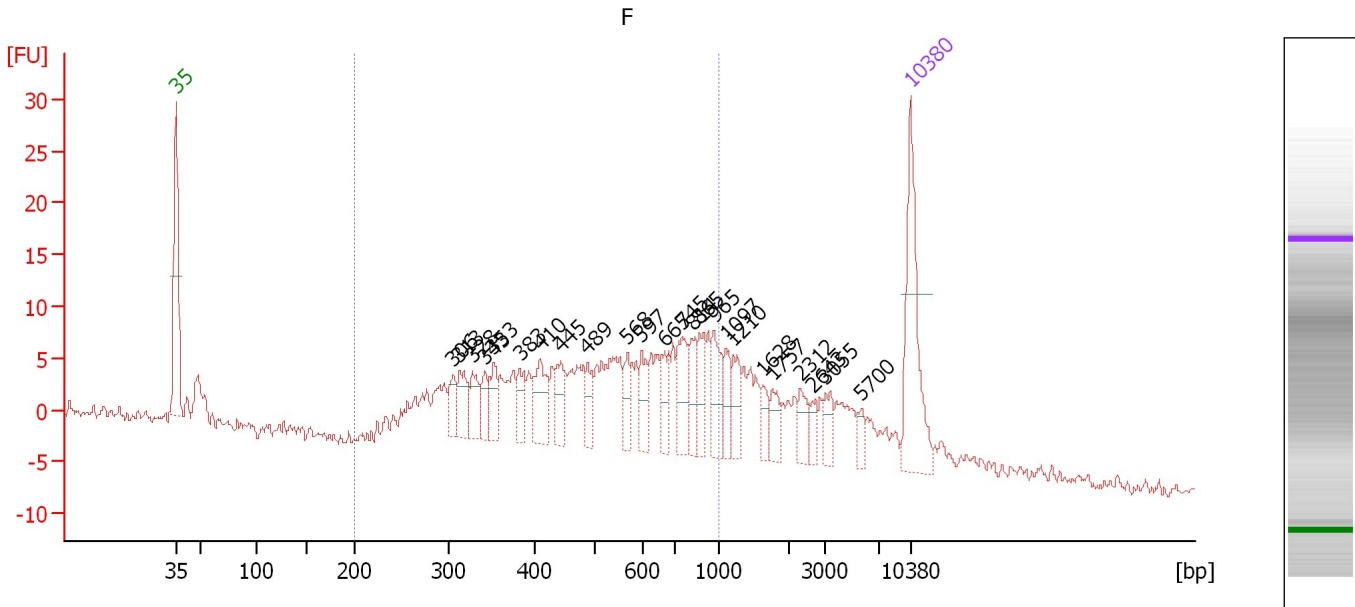
Region table for sample 5 : E

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	539	991.6	4,489.1	1,324.87	64	36.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
 Modified: 7/8/2016 3:51:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : F

Number of peaks found: 24 Corr. Area 1: 270.9
 Noise: 0.7

Peak table for sample 6 : F

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	306	19.08	94.5		69.42
3	313	29.81	144.2		70.01
4	328	25.82	119.2		71.25
5	343	18.21	80.5		72.43
6	353	23.99	103.1		73.24
7	383	21.12	83.5		75.77
8	410	34.81	128.6		77.70
9	445	26.66	90.8		79.69
10	489	17.58	54.5		82.22
11	568	19.52	52.1		85.99
12	597	22.91	58.2		87.34
13	665	20.45	46.6		89.49
14	745	34.45	70.1		91.21
15	814	20.93	38.9		92.18
16	865	22.88	40.1		92.88
17	965	29.14	45.7		94.28
18	1,097	17.93	24.8		95.41
19	1,210	20.11	25.2		96.16
20	1,628	11.06	10.3		98.96
21	1,757	14.53	12.5		99.82
22	2,312	13.90	9.1		102.51
23	2,643	8.27	4.7		103.64
24	3,055	13.19	6.5		104.93
25	5,700	7.73	2.1		108.32

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
Modified: 7/8/2016 3:51:34 PM

Electropherogram Summary Continued ...**... Peak table for sample 6 : F**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

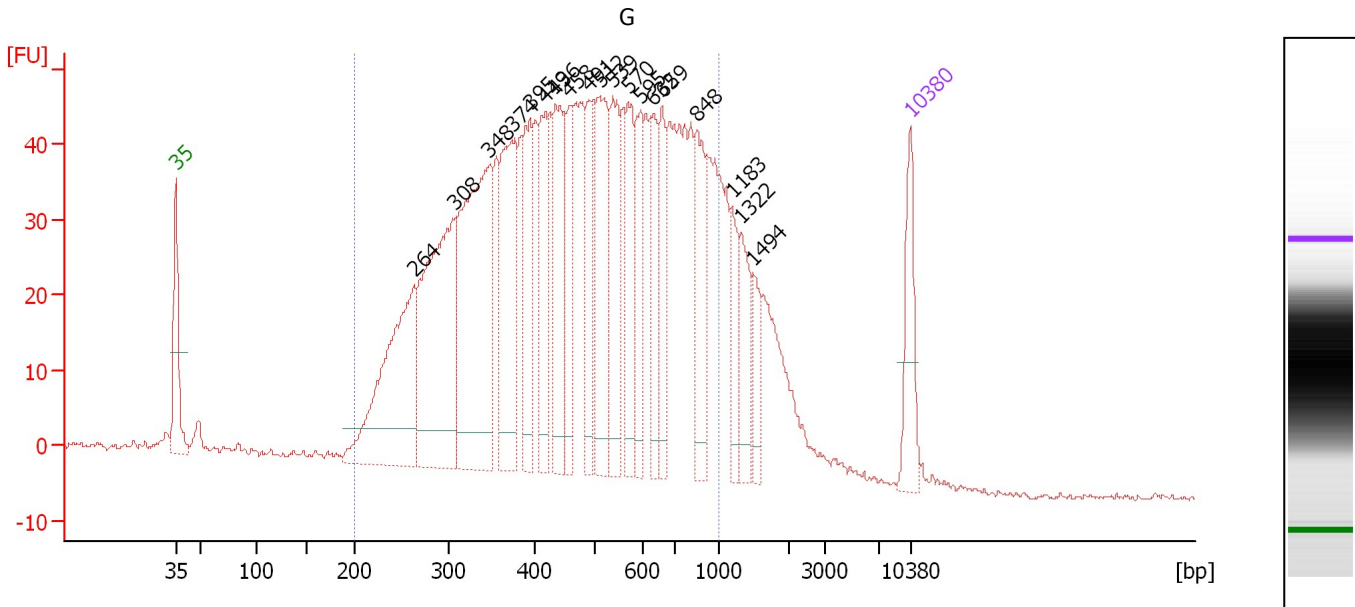
Region table for sample 6 : F

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	539	270.9	2,598.1	762.15	67	36.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : G

Number of peaks found: 19 Corr. Area 1: 1,564.5
 Noise: 0.4

Peak table for sample 7 : G

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	264	367.08	2,109.7		65.66
3	308	425.61	2,097.1		69.54
4	348	469.29	2,041.7		72.88
5	374	232.90	942.7		75.02
6	395	146.65	562.5		76.71
7	419	139.61	505.2		78.19
8	436	174.35	606.0		79.18
9	458	106.67	353.0		80.44
10	491	106.30	327.8		82.35
11	512	208.54	617.5		83.39
12	539	145.02	407.7		84.65
13	570	115.20	306.4		86.07
14	595	95.98	244.6		87.22
15	632	95.41	228.6		88.48
16	659	95.48	219.6		89.30
17	848	118.29	211.4		92.64
18	1,183	60.68	77.7		95.98
19	1,322	72.99	83.7		96.91
20	1,494	40.70	41.3		98.06
21	10,380	75.00	10.9	Upper Marker	113.00

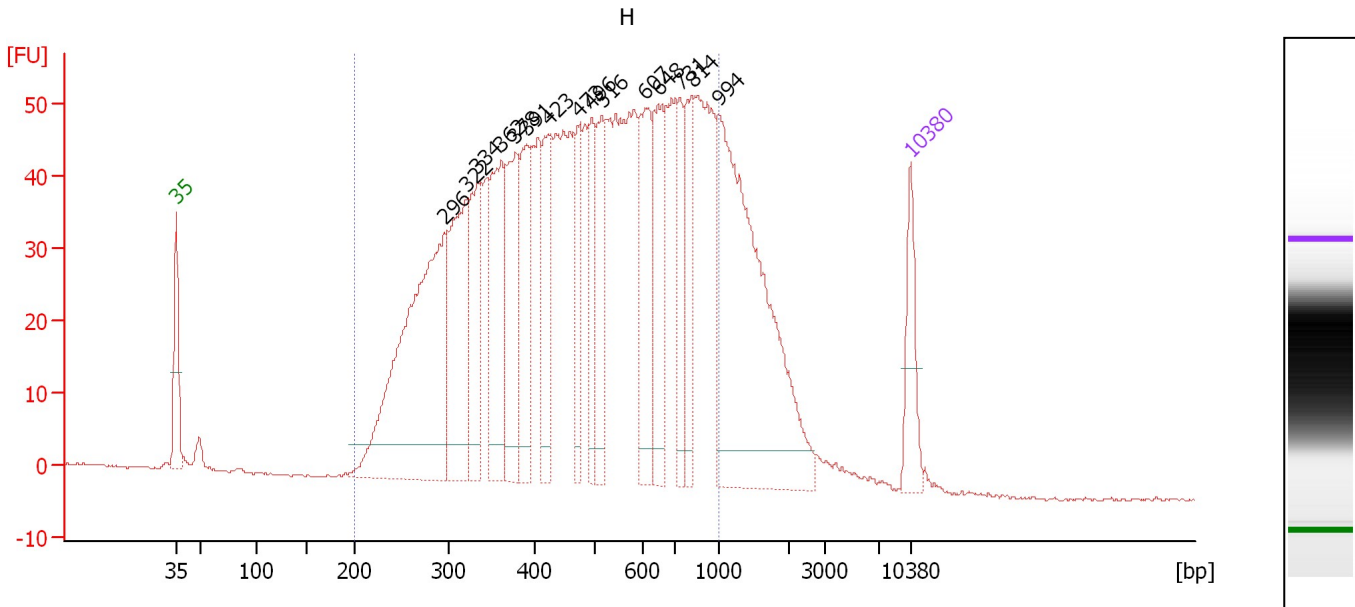
Region table for sample 7 : G

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	499	1,564.5	14,924.8	4,071.91	88	36.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : H

Number of peaks found: 15 Corr. Area 1: 1,664.9
 Noise: 0.2

Peak table for sample 8 : H

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	296	713.78	3,659.1		68.53
3	322	301.15	1,416.3		70.75
4	334	169.19	768.3		71.69
5	362	242.25	1,013.8		74.01
6	378	205.76	824.1		75.34
7	391	161.90	627.2		76.39
8	423	152.77	547.1		78.44
9	473	115.83	370.8		81.32
10	496	116.09	354.9		82.60
11	516	148.16	435.0		83.59
12	607	182.62	455.8		87.69
13	648	177.15	414.3		88.97
14	731	105.70	219.2		91.01
15	814	124.10	230.9		92.18
16	994	627.98	957.6		94.67
17	10,380	75.00	10.9	Upper Marker	113.00

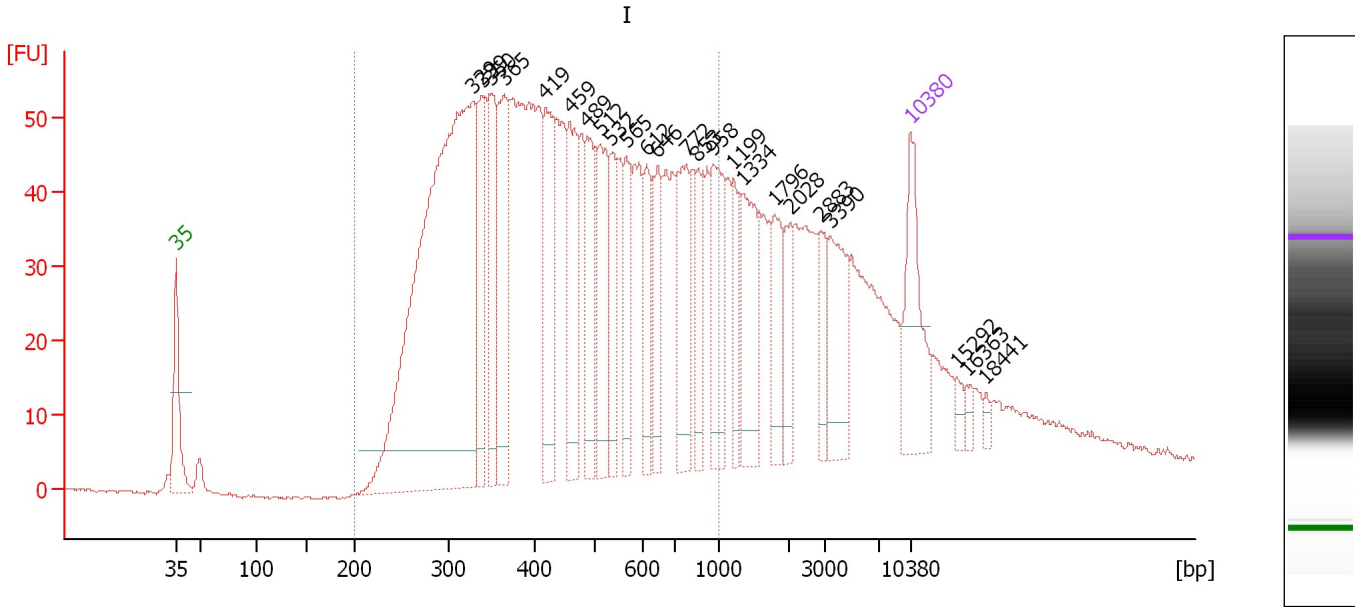
Region table for sample 8 : H

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	508	1,664.9	16,757.0	4,638.84	86	37.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

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 Modified: 7/8/2016 3:51:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : I

Number of peaks found: 24 Corr. Area 1: 1,665.4
 Noise: 0.2

Peak table for sample 9 : I

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	329	784.28	3,610.6		71.31
3	339	98.93	441.6		72.16
4	350	110.46	478.6		73.00
5	365	119.21	494.2		74.29
6	419	103.94	375.6		78.22
7	459	101.33	334.2		80.53
8	489	85.45	264.8		82.21
9	512	90.44	267.8		83.39
10	532	58.82	167.4		84.35
11	565	58.94	158.0		85.87
12	612	58.06	143.8		87.83
13	646	53.96	126.6		88.90
14	772	89.75	176.0		91.60
15	853	49.42	87.8		92.72
16	958	86.46	136.7		94.18
17	1,199	38.16	48.2		96.09
18	1,334	80.96	92.0		96.99
19	1,796	45.62	38.5		100.08
20	2,028	32.13	24.0		101.54
21	2,883	30.05	15.8		104.46
22	3,390	65.80	29.4		105.36
23	10,380	75.00	10.9	Upper Marker	113.00
24	15,292	0.00	0.0		117.38
25	16,363	0.00	0.0		118.34

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

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Electropherogram Summary Continued ...**... Peak table for sample 9 :** I

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	18,441	0.00	0.0		120.19

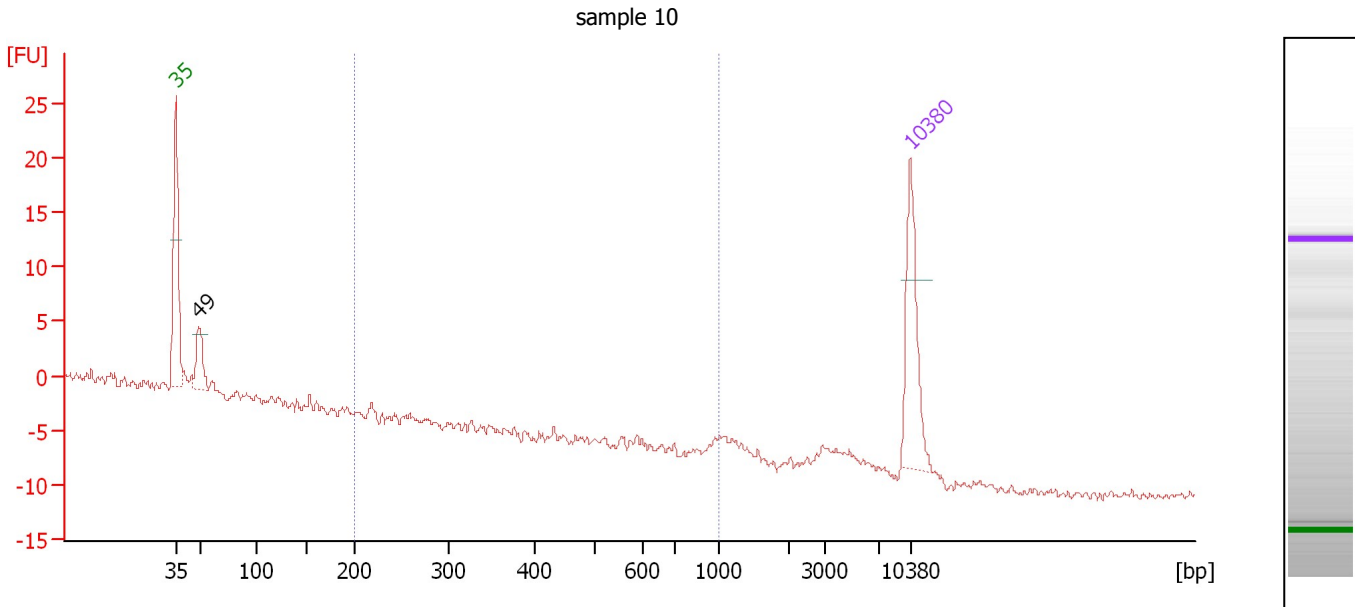
Region table for sample 9 : I

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	481	1,665.4	10,826.0	2,883.33	71	37.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

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 Modified: 7/8/2016 3:51:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 1 Corr. Area 1: 0.2
 Noise: 0.3

Peak table for sample 10 : sample 10

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	47.80	1,472.7		45.14
3	10,380	75.00	10.9	Upper Marker	113.00

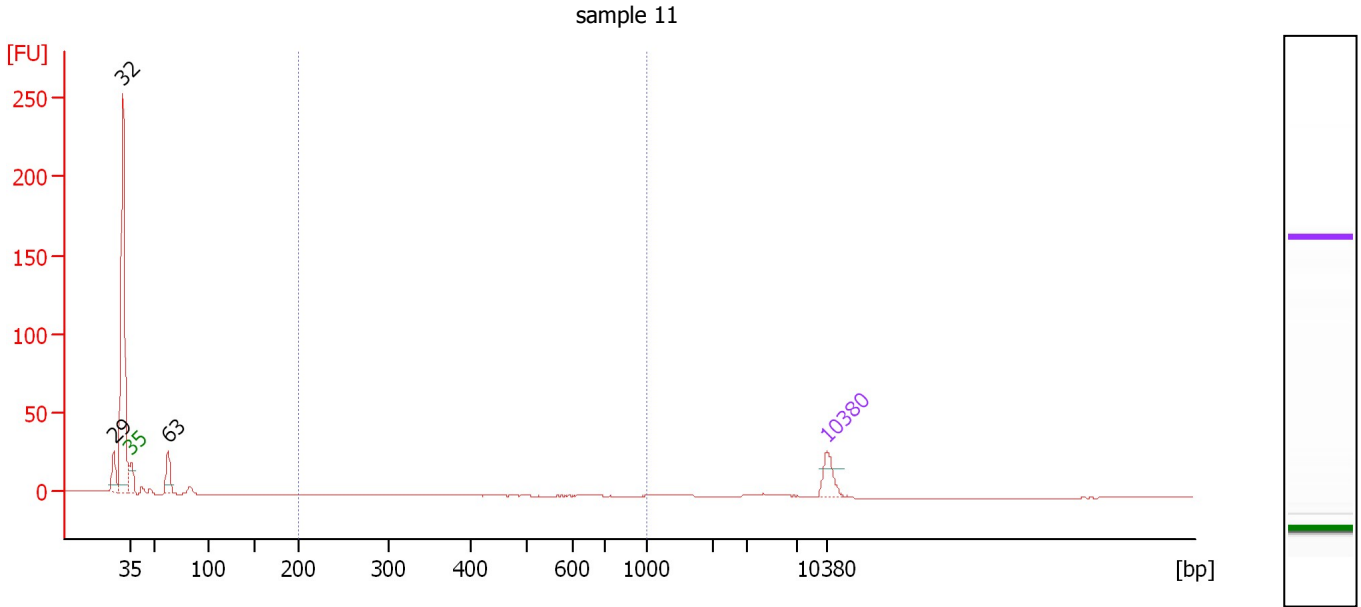
Region table for sample 10 : sample 10

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	659	0.2	4.1	0.82	1	57.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
 Modified: 7/8/2016 3:51:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 3 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 11 : sample 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	29	0.00	0.0		41.23
2	32	0.00	0.0		42.20
3	35	125.00	5,411.3	Lower Marker	43.00
4	63	138.68	3,322.7		46.70
5	10,380	75.00	10.9	Upper Marker	113.00

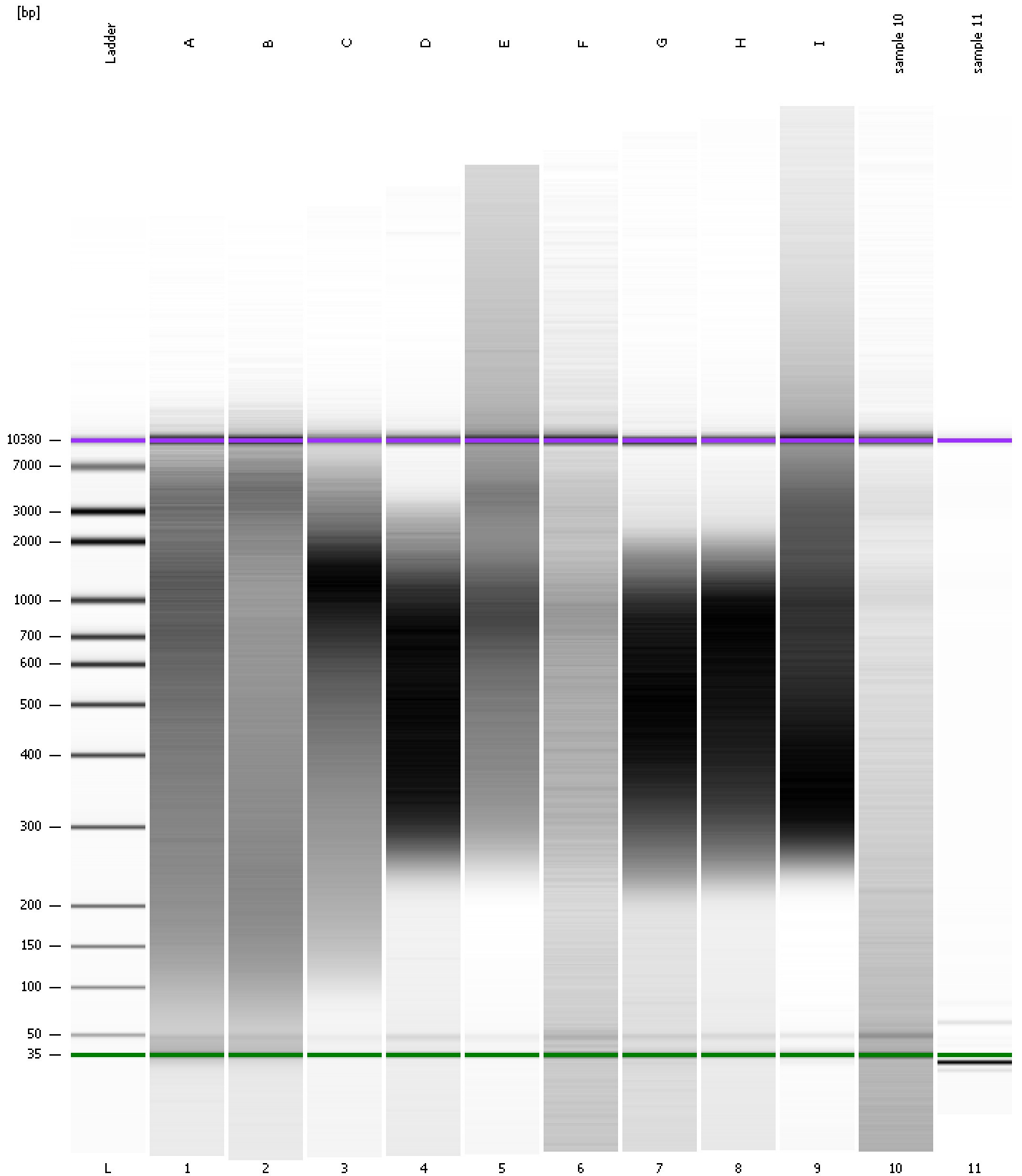
Region table for sample 11 : sample 11

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	0	0.0	0.0	0.00	0	0.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
Modified: 7/8/2016 3:51:34 PM

Gel Image

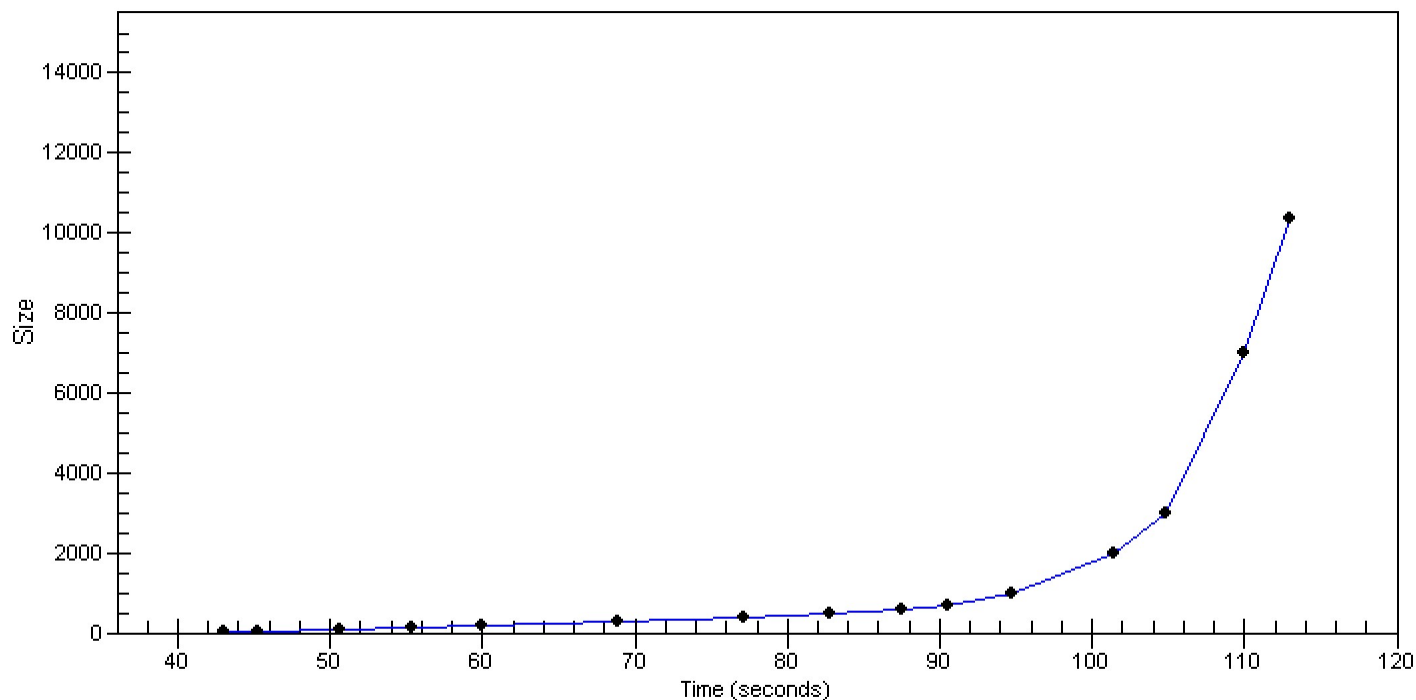


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad

Created: 7/8/2016 3:10:16 PM
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Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay Created: 7/8/2016 3:10:16 PM
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_007.xad Modified: 7/8/2016 3:51:34 PM

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		7/8/2016 3:51:33 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\2016-07-08\2016-07-08_007.xad)		Instrument	Run		7/8/2016 3:10:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/8/2016 3:10:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/8/2016 3:10:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/8/2016 3:10:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/8/2016 3:10:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/8/2016 3:10:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/8/2016 3:10:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1