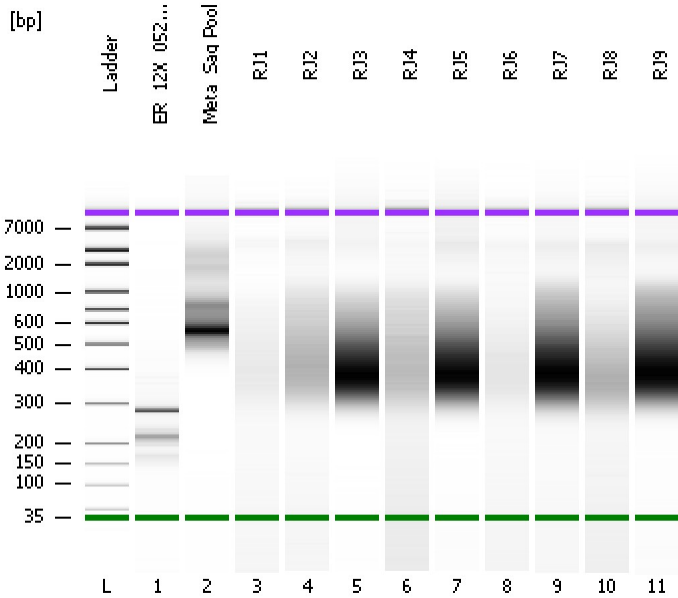


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

Created: 5/27/2014 8:48:48 AM
Modified: 5/27/2014 9:51:07 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

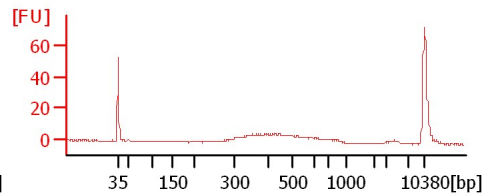
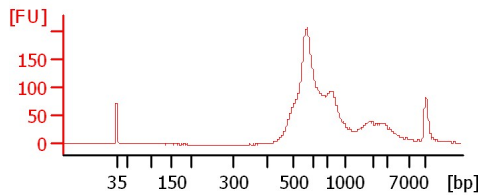
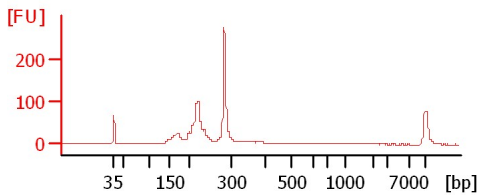
Chip Information:

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

ER_12X_052114 1:10

Meta_Sag Pool

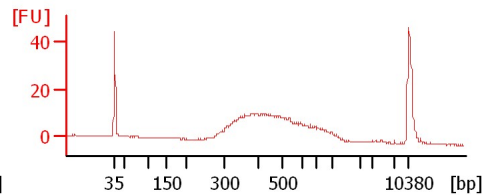
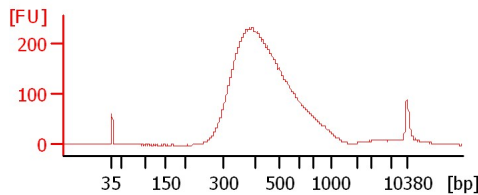
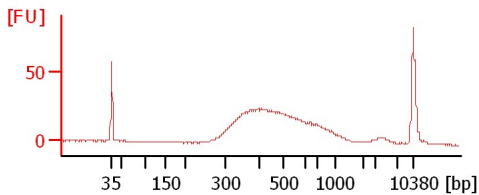
RJ1



RJ2

RJ3

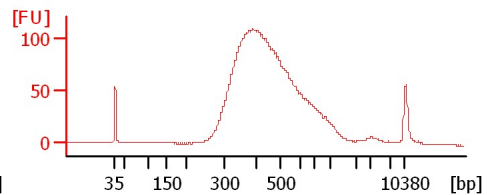
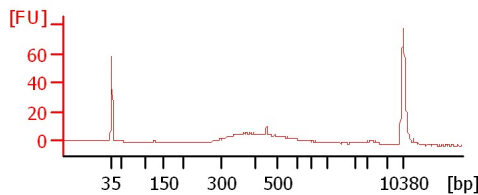
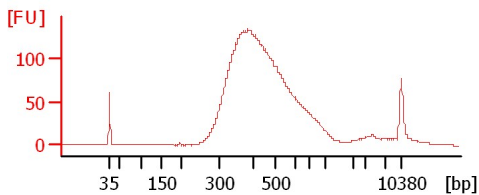
RJ4



RJ5

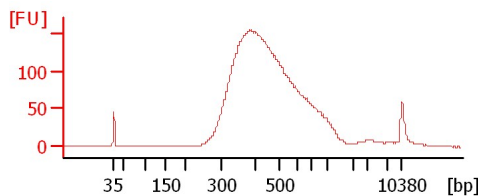
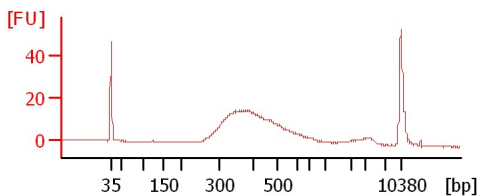
RJ6

RJ7



RJ8

RJ9



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

Created: 5/27/2014 8:48:48 AM
 Modified: 5/27/2014 9:51:07 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ER_12X_052114 1:10		<input type="checkbox"/>	✓			
Meta_Sag Pool		<input type="checkbox"/>	✓			
RJ1		<input type="checkbox"/>	✓			
RJ2		<input type="checkbox"/>	✓			
RJ3		<input type="checkbox"/>	✓			
RJ4		<input type="checkbox"/>	✓			
RJ5		<input type="checkbox"/>	✓			
RJ6		<input type="checkbox"/>	✓			
RJ7		<input type="checkbox"/>	✓			
RJ8		<input type="checkbox"/>	✓			
RJ9		<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\2014-05-27\2014-05-27_002.xad

Created: 5/27/2014 8:48:48 AM
Modified: 5/27/2014 9:51:07 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

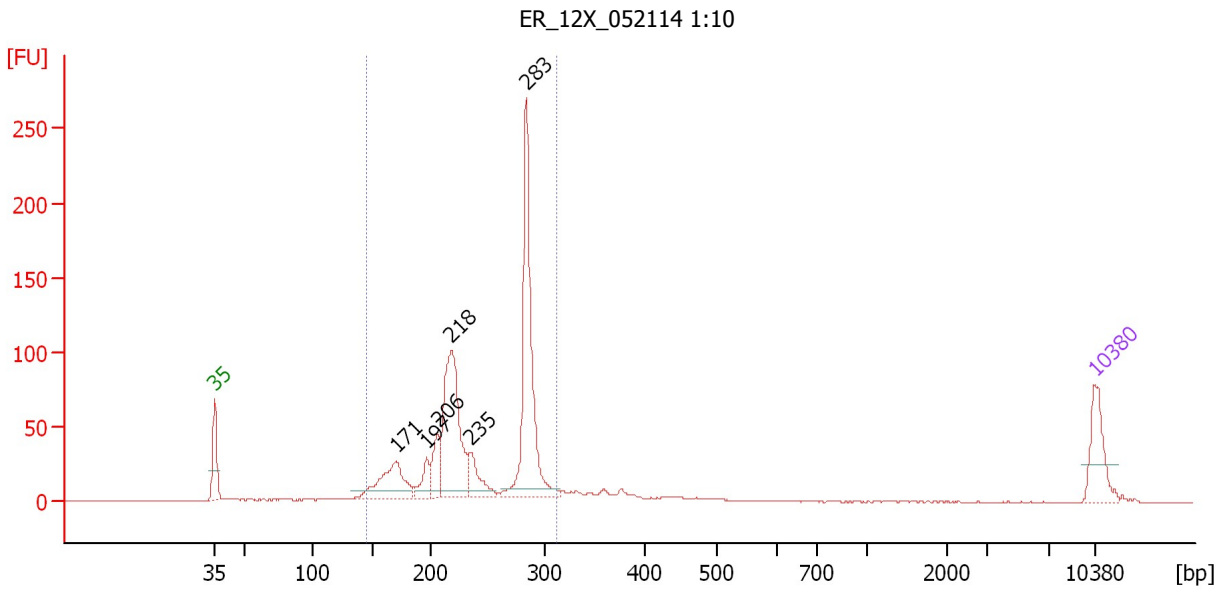
Ladder

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:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

Created: 5/27/2014 8:48:48 AM
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Electropherogram Summary



Overall Results for sample 1 : ER_12X_052114_1:10

Number of peaks found: 6 Corr. Area 1: 861.9
 Noise: 0.2

Peak table for sample 1 : ER_12X_052114_1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	171	168.12	1,491.8	
3	197	57.89	445.7	
4	206	73.22	538.4	
5	218	369.45	2,566.3	
6	235	78.70	506.7	
7	283	442.15	2,365.1	
8	10,380	75.00	10.9	Upper Marker

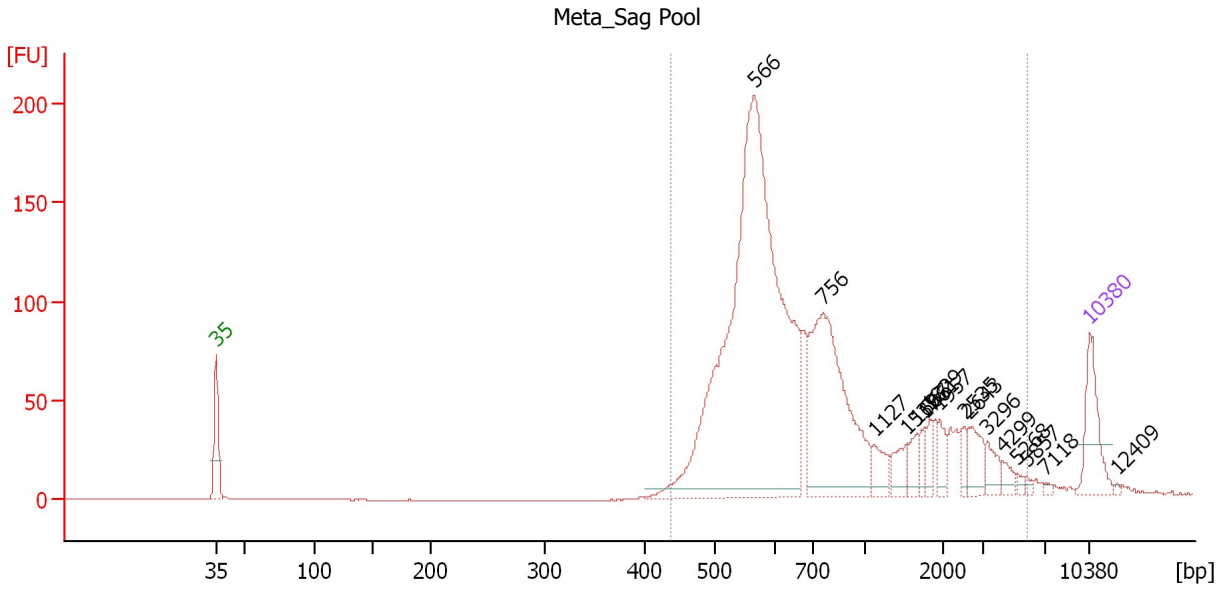
Region table for sample 1 : ER_12X_052114_1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
144	312	240	8,336.2	1,276.10	861.9	88	17.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

Created: 5/27/2014 8:48:48 AM
 Modified: 5/27/2014 9:51:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Meta_Sag Pool

Number of peaks found: 16 Corr. Area 1: 1,861.9
 Noise: 0.2

Peak table for sample 2 : Meta_Sag Pool

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	566	1,317.41	3,528.1	
3	756	414.44	830.7	
4	1,127	37.08	49.8	
5	1,539	33.69	33.2	
6	1,667	23.54	21.4	
7	1,761	18.00	15.5	
8	1,829	19.63	16.3	
9	1,957	25.00	19.4	
10	2,535	17.37	10.4	
11	2,643	40.48	23.2	
12	3,296	25.79	11.9	
13	4,299	14.53	5.1	
14	5,268	4.98	1.4	
15	5,857	4.19	1.1	
16	7,118	3.55	0.8	
17	10,380	75.00	10.9	Upper Marker
18	12,409	0.00	0.0	

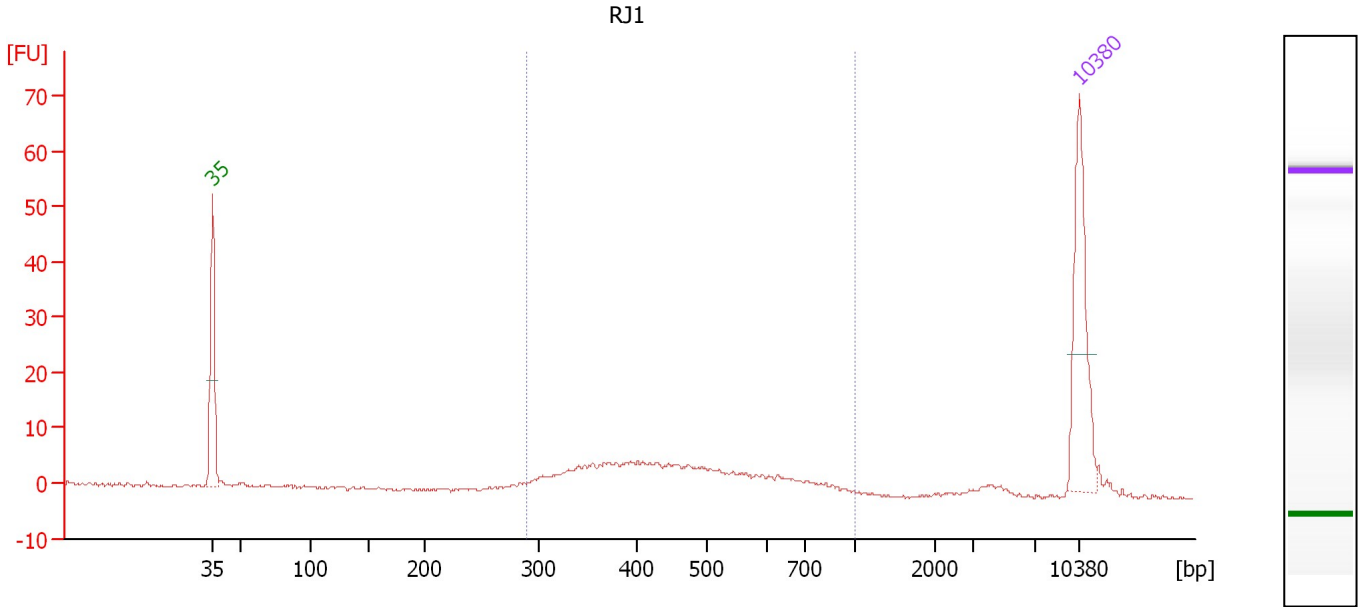
Region table for sample 2 : Meta_Sag Pool

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
437	5,864	970	4,644.0	2,068.21	1,861.9	98	85.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : RJ1

Number of peaks found: 0 Corr. Area 1: 116.0
 Noise: 0.3

Peak table for sample 3 : RJ1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

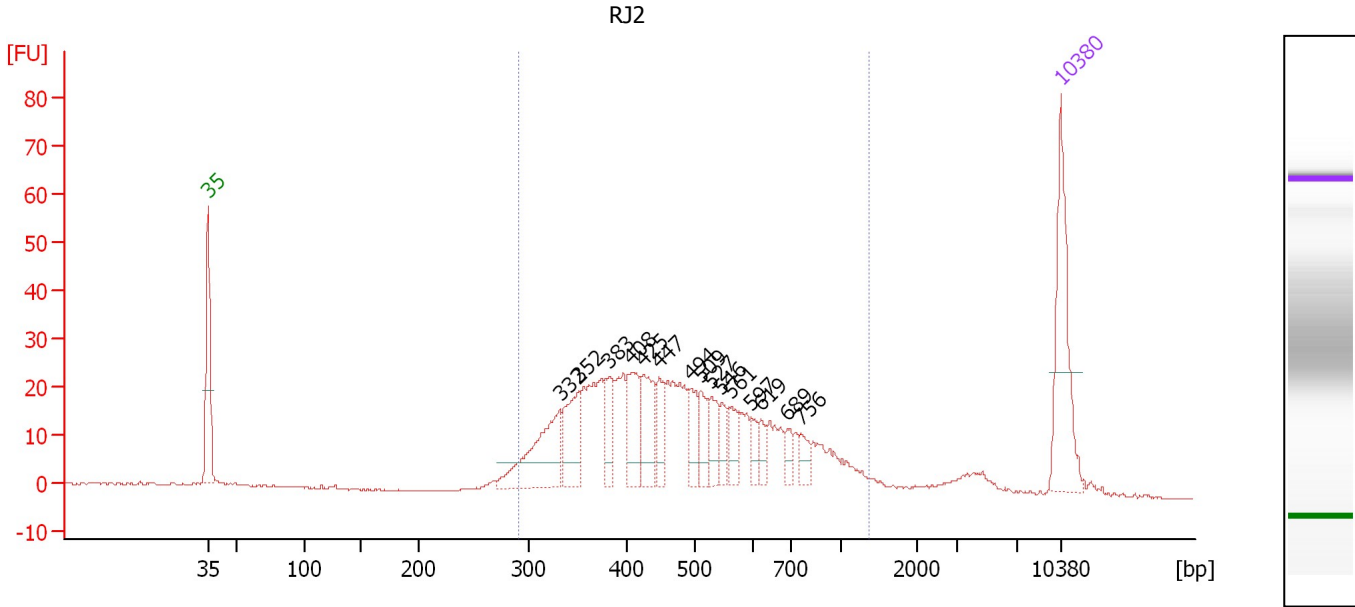
Region table for sample 3 : RJ1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
290	1,000	471	611.6	173.66	116.0	88	27.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : RJ2

Number of peaks found: 15 Corr. Area 1: 603.0
 Noise: 0.2

Peak table for sample 4 : RJ2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	332	91.90	419.5	
3	352	56.30	242.2	
4	383	31.95	126.4	
5	408	48.49	180.3	
6	425	51.22	182.5	
7	447	28.85	97.8	
8	494	26.52	81.4	
9	509	24.75	73.7	
10	527	25.30	72.7	
11	546	15.12	42.0	
12	561	21.43	57.9	
13	597	11.30	28.7	
14	619	11.65	28.5	
15	689	12.30	27.0	
16	756	13.28	26.6	
17	10,380	75.00	10.9	Upper Marker

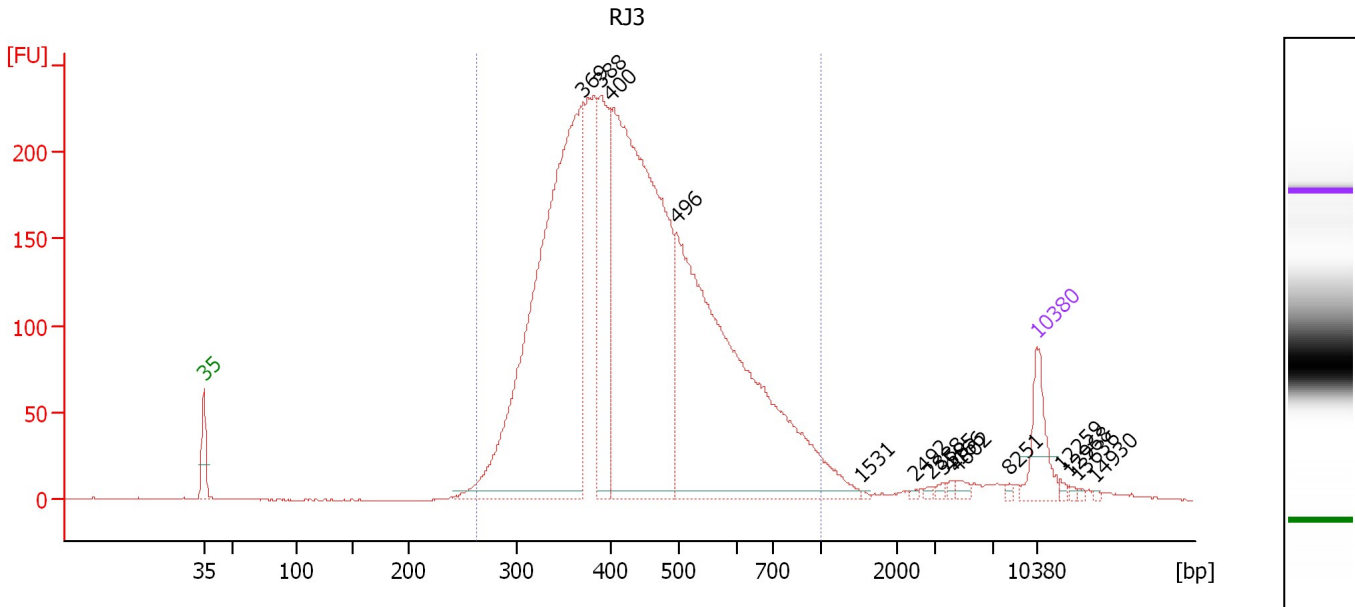
Region table for sample 4 : RJ2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
291	1,374	508	2,776.6	818.40	603.0	90	36.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

Created: 5/27/2014 8:48:48 AM
 Modified: 5/27/2014 9:51:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : RJ3

Number of peaks found: 15 Corr. Area 1: 4,679.9
 Noise: 0.2

Peak table for sample 5 : RJ3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	369	1,459.64	5,987.3	
3	388	349.38	1,362.6	
4	400	1,365.76	5,176.9	
5	496	1,268.72	3,878.8	
6	1,531	2.75	2.7	
7	2,492	2.99	1.8	
8	2,888	4.27	2.2	
9	3,585	5.20	2.2	
10	4,166	4.82	1.8	
11	4,602	10.18	3.4	
12	8,251	3.82	0.7	
13	10,380	75.00	10.9	Upper Marker
14	12,259	0.00	0.0	
15	12,968	0.00	0.0	
16	13,636	0.00	0.0	
17	14,930	0.00	0.0	

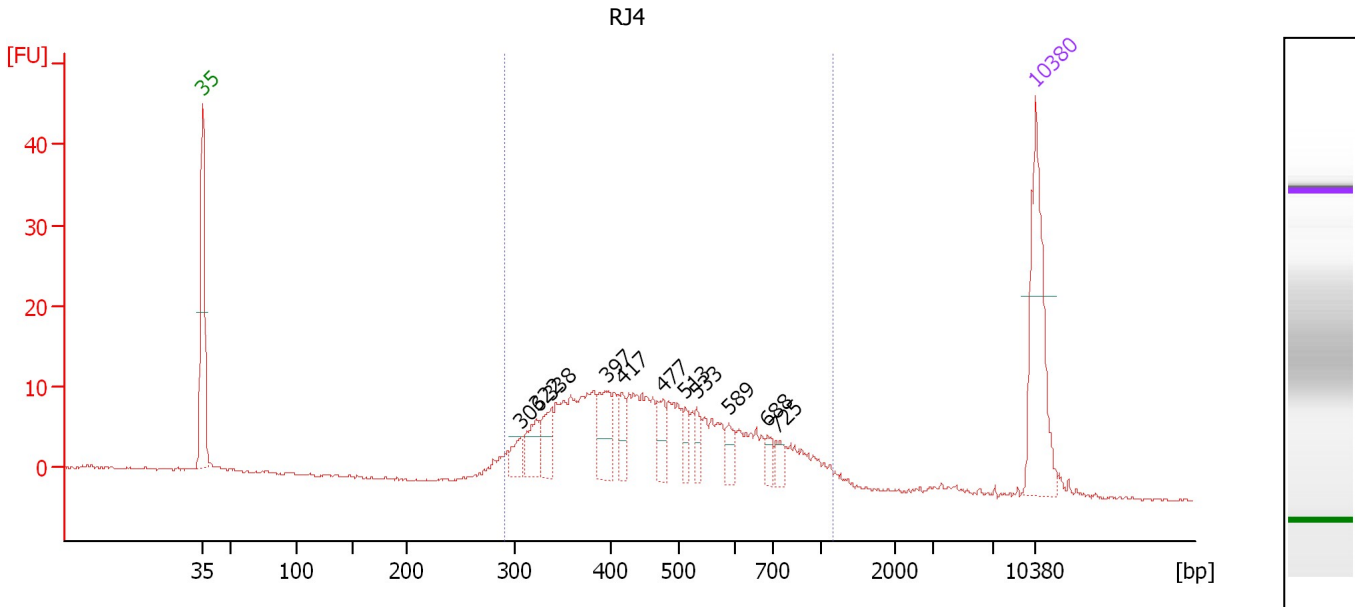
Region table for sample 5 : RJ3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
263	1,000	450	17,260.8	4,706.73	4,679.9	96	27.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : RJ4

Number of peaks found: 11 Corr. Area 1: 281.3
 Noise: 0.2

Peak table for sample 6 : RJ4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	306	16.09	79.6	
3	322	26.96	126.9	
4	338	25.03	112.3	
5	397	36.39	139.0	
6	417	16.29	59.2	
7	477	19.99	63.5	
8	513	12.63	37.3	
9	533	12.82	36.5	
10	589	12.84	33.0	
11	688	8.43	18.6	
12	725	10.48	21.9	
13	10,380	75.00	10.9	Upper Marker

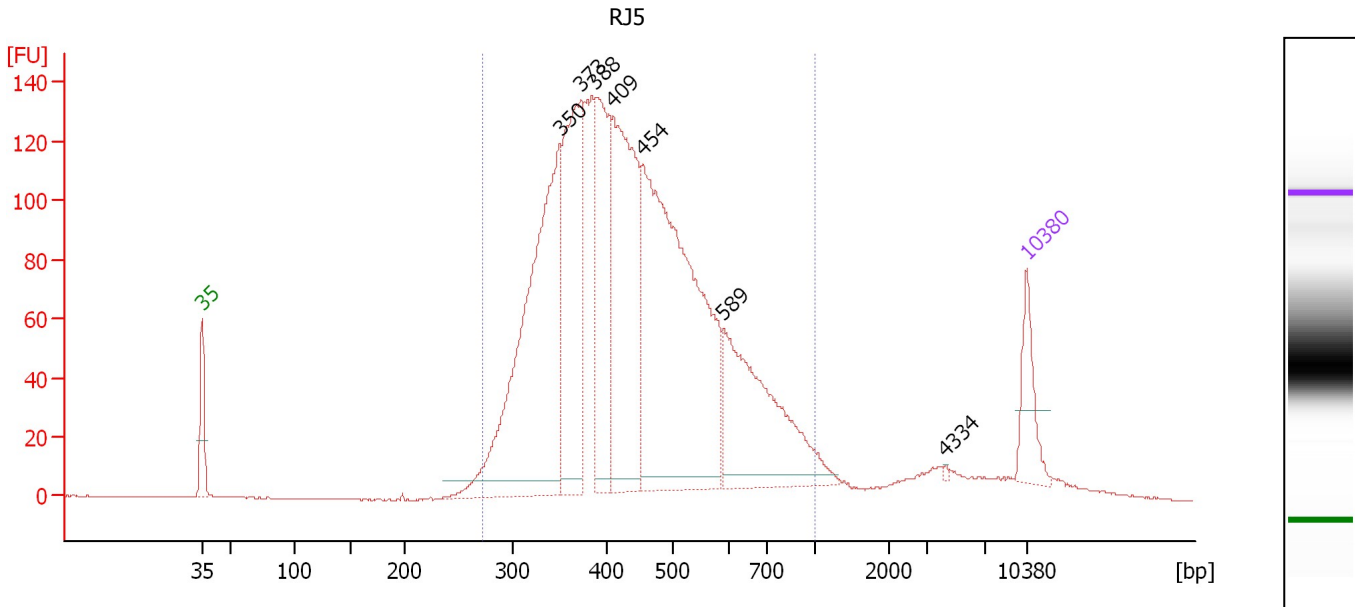
Region table for sample 6 : RJ4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
290	1,173	495	1,925.3	558.90	281.3	91	33.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

Created: 5/27/2014 8:48:48 AM
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Electropherogram Summary Continued ...



Overall Results for sample 7 : RJ5

Number of peaks found: 7 Corr. Area 1: 2,790.4
 Noise: 0.2

Peak table for sample 7 : RJ5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	350	882.42	3,816.7	
3	373	488.95	1,986.2	
4	388	346.10	1,350.5	
5	409	558.75	2,069.8	
6	454	1,013.04	3,378.8	
7	589	402.66	1,036.5	
8	4,334	2.69	0.9	
9	10,380	75.00	10.9	Upper Marker

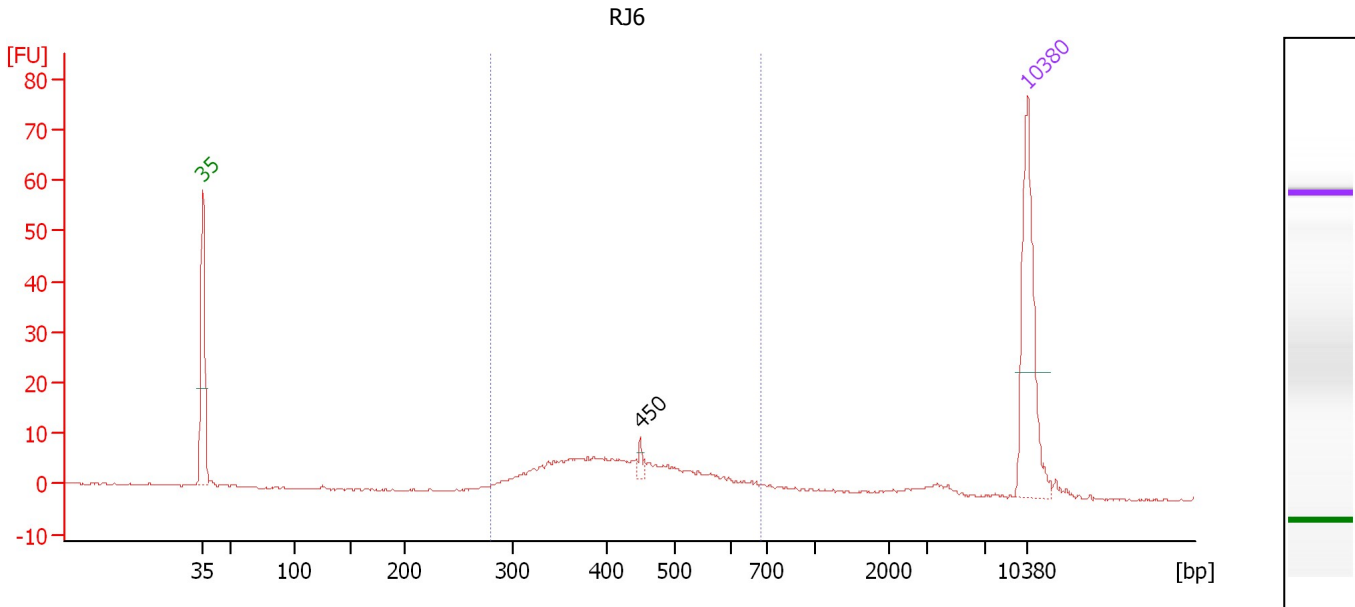
Region table for sample 7 : RJ5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
272	1,000	455	14,582.2	4,011.13	2,790.4	94	28.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

Created: 5/27/2014 8:48:48 AM
 Modified: 5/27/2014 9:51:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : RJ6

Number of peaks found: 1 Corr. Area 1: 138.6
 Noise: 0.2

Peak table for sample 8 : RJ6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	450	4.64	15.6	
3	10,380	75.00	10.9	Upper Marker

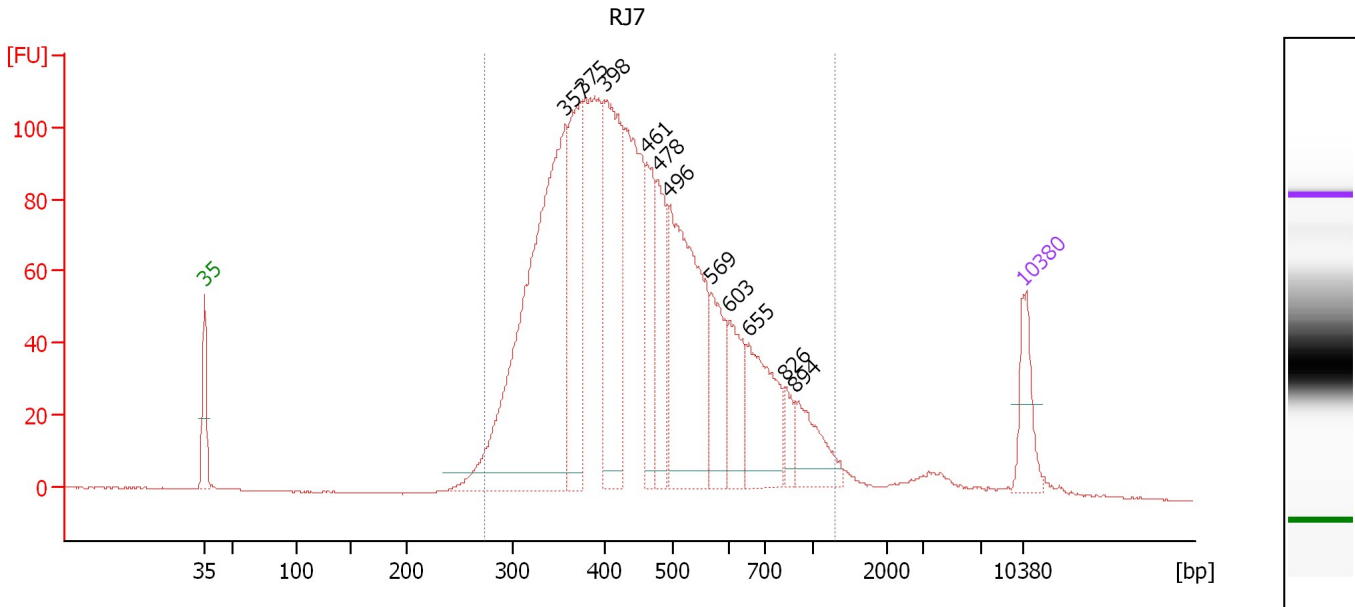
Region table for sample 8 : RJ6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
279	684	434	678.0	182.94	138.6	80	21.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : RJ7

Number of peaks found: 11 Corr. Area 1: 2,406.0
 Noise: 0.2

Peak table for sample 9 : RJ7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	357	1,063.37	4,512.8	
3	375	331.07	1,338.6	
4	398	448.51	1,706.8	
5	461	170.43	559.7	
6	478	181.80	576.1	
7	496	505.90	1,546.2	
8	569	151.52	403.2	
9	603	124.11	311.9	
10	655	204.10	471.8	
11	826	38.74	71.0	
12	894	105.04	178.1	
13	10,380	75.00	10.9	Upper Marker

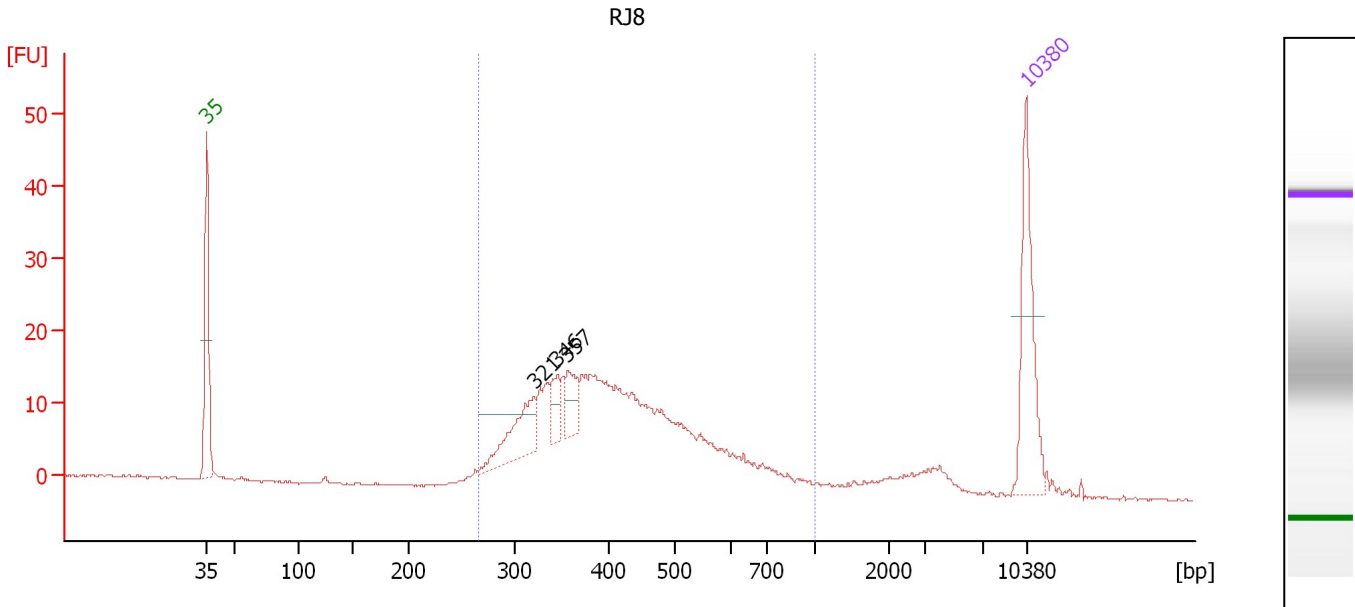
Region table for sample 9 : RJ7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
274	1,313	474	15,273.5	4,266.45	2,406.0	96	34.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : RJ8

Number of peaks found: 3 Corr. Area 1: 326.1
 Noise: 0.2

Peak table for sample 10 : RJ8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	321	60.83	287.3	
3	346	23.80	104.2	
4	357	27.59	117.2	
5	10,380	75.00	10.9	Upper Marker

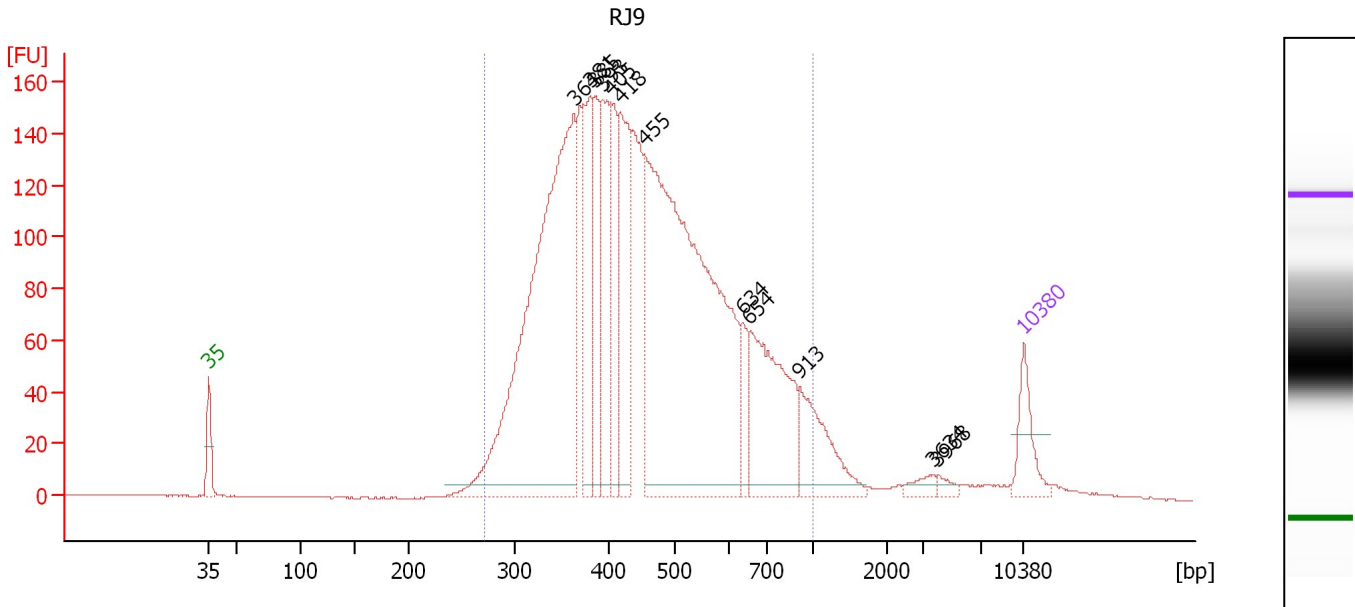
Region table for sample 10 : RJ8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
266	1,000	431	2,568.3	670.81	326.1	90	27.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : RJ9

Number of peaks found: 12 Corr. Area 1: 3,391.4
 Noise: 0.1

Peak table for sample 11 : RJ9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	364	1,436.53	5,985.5	
3	381	269.98	1,074.1	
4	385	193.80	761.8	
5	393	276.36	1,064.1	
6	405	182.78	683.2	
7	418	309.59	1,121.6	
8	455	1,609.08	5,356.0	
9	634	74.18	177.3	
10	654	368.41	853.0	
11	913	176.53	292.9	
12	3,634	21.86	9.1	
13	3,968	14.05	5.4	
14	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : RJ9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
271	1,000	469	18,902.8	5,295.85	3,391.4	95	30.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27_002.xad

Created: 5/27/2014 8:48:48 AM
Modified: 5/27/2014 9:51:07 AM

Gel Image

