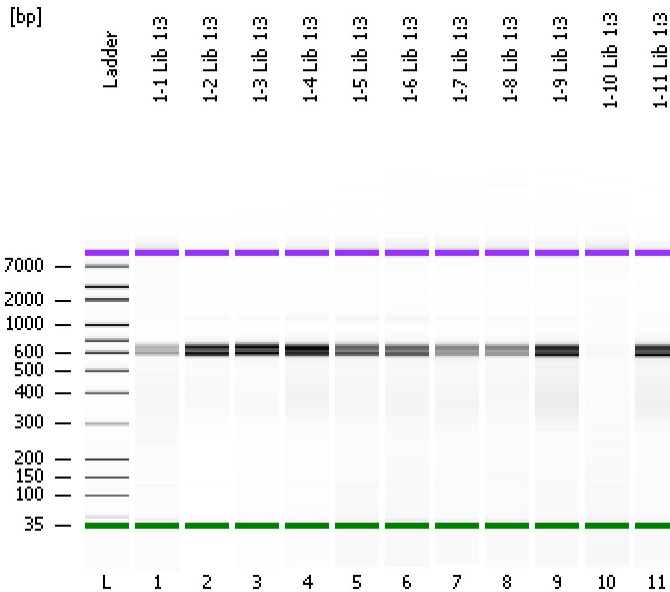


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
Modified: 8/14/2012 5:25:13 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

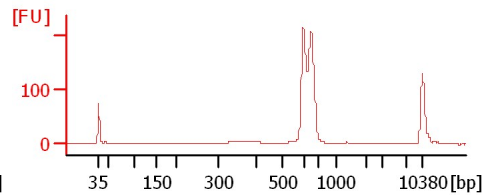
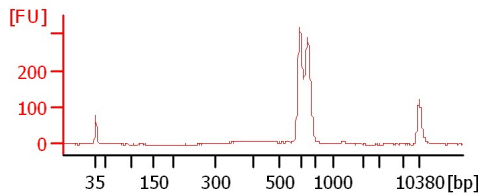
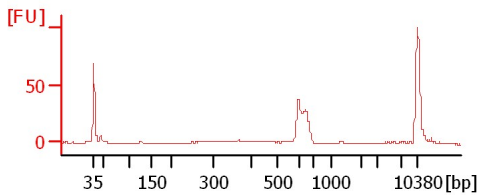
Chip Information:

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

1-1 Lib 1:3

1-2 Lib 1:3

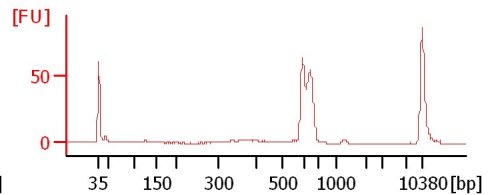
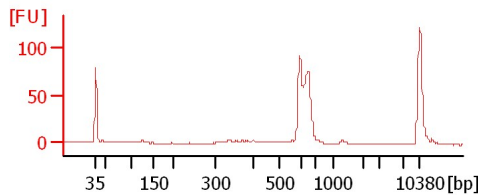
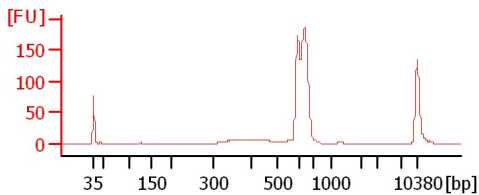
1-3 Lib 1:3



1-4 Lib 1:3

1-5 Lib 1:3

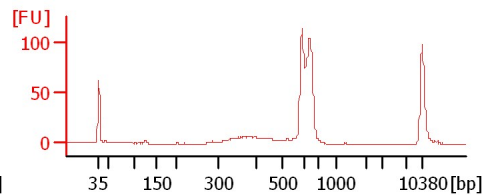
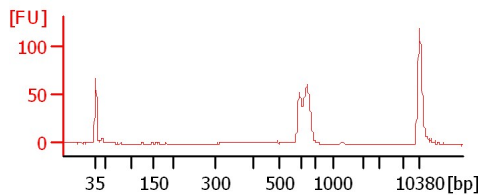
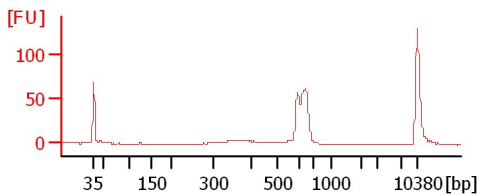
1-6 Lib 1:3



1-7 Lib 1:3

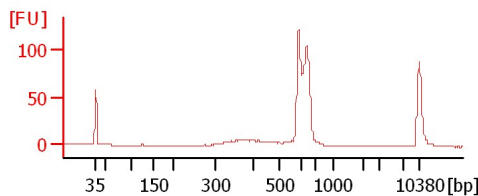
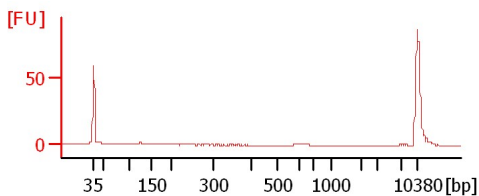
1-8 Lib 1:3

1-9 Lib 1:3



1-10 Lib 1:3

1-11 Lib 1:3



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
 Modified: 8/14/2012 5:25:13 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1-1 Lib 1:3		<input type="checkbox"/>	✓			
1-2 Lib 1:3		<input type="checkbox"/>	✓			
1-3 Lib 1:3		<input type="checkbox"/>	✓			
1-4 Lib 1:3		<input type="checkbox"/>	✓			
1-5 Lib 1:3		<input type="checkbox"/>	✓			
1-6 Lib 1:3		<input type="checkbox"/>	✓			
1-7 Lib 1:3		<input type="checkbox"/>	✓			
1-8 Lib 1:3		<input type="checkbox"/>	✓			
1-9 Lib 1:3		<input type="checkbox"/>	✓			
1-10 Lib 1:3		<input type="checkbox"/>	✓			
1-11 Lib 1:3		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
Modified: 8/14/2012 5:25:13 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

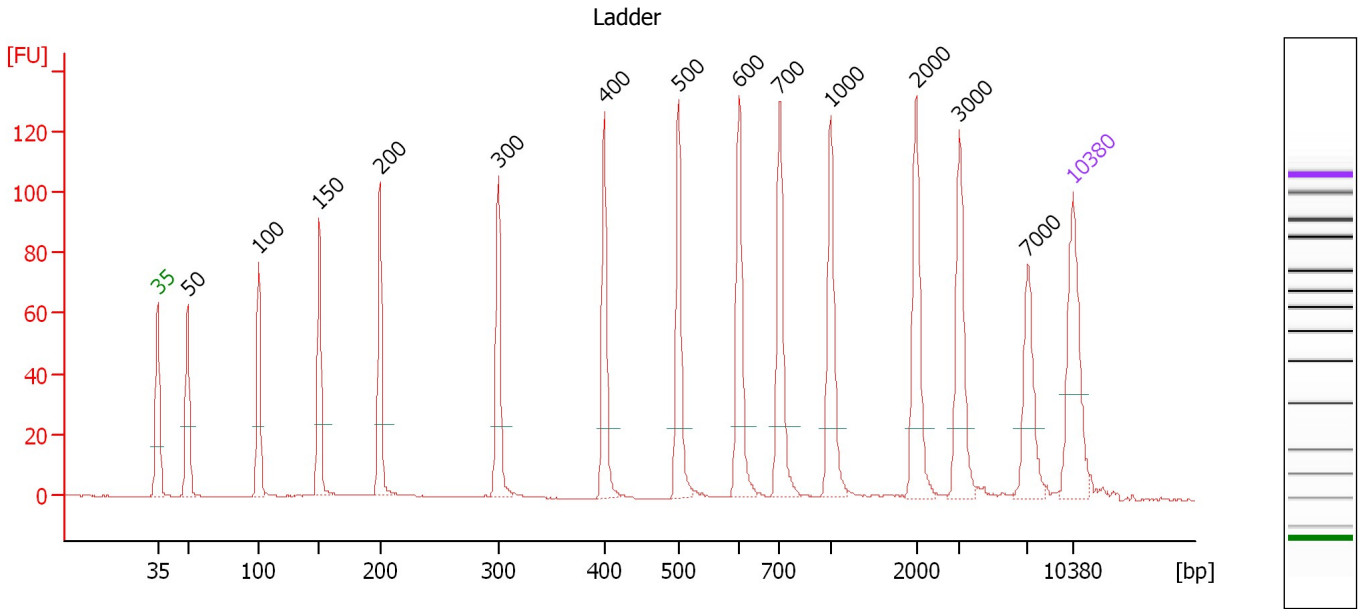
Ladder

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:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
 Modified: 8/14/2012 5:25:13 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

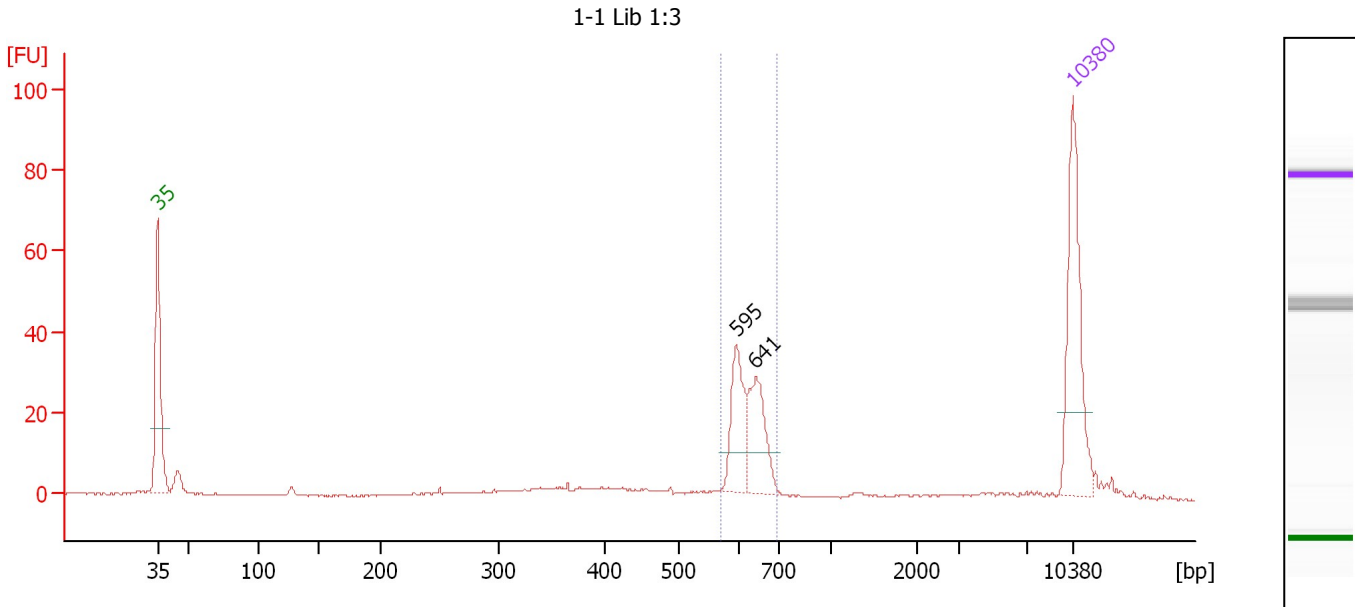
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
 Modified: 8/14/2012 5:25:13 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : 1-1 Lib 1:3

Height Threshold [FU] : 10

Overall Results for sample 1 : 1-1 Lib 1:3

Number of peaks found: 2 Corr. Area 1: 104.5
 Noise: 0.1

Peak table for sample 1 : 1-1 Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	595	47.27	120.3	
3	641	50.11	118.3	
4	10,380	75.00	10.9	Upper Marker

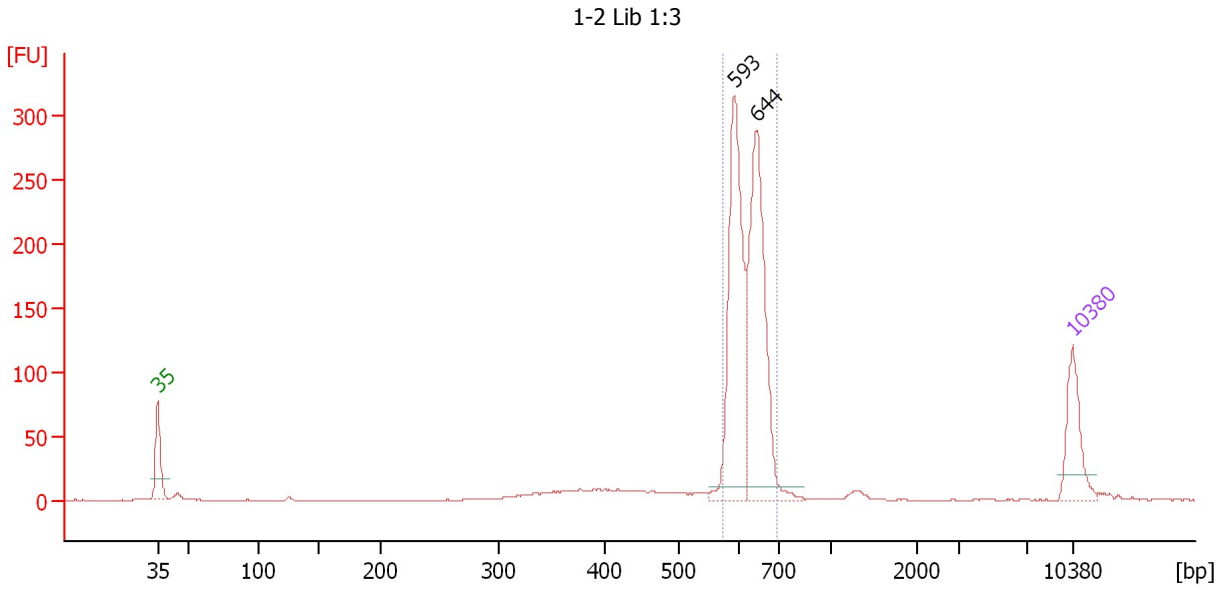
Region table for sample 1 : 1-1 Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
571	693	623	251.3	103.20	104.5	56	4.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
 Modified: 8/14/2012 5:25:13 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : 1-2 Lib 1:3

Height Threshold [FU] : 10

Overall Results for sample 2 : 1-2 Lib 1:3

Number of peaks found: 2 Corr. Area 1: 919.3
 Noise: 0.1

Peak table for sample 2 : 1-2 Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	593	351.47	898.8	
3	644	375.89	884.1	
4	10,380	75.00	10.9	Upper Marker

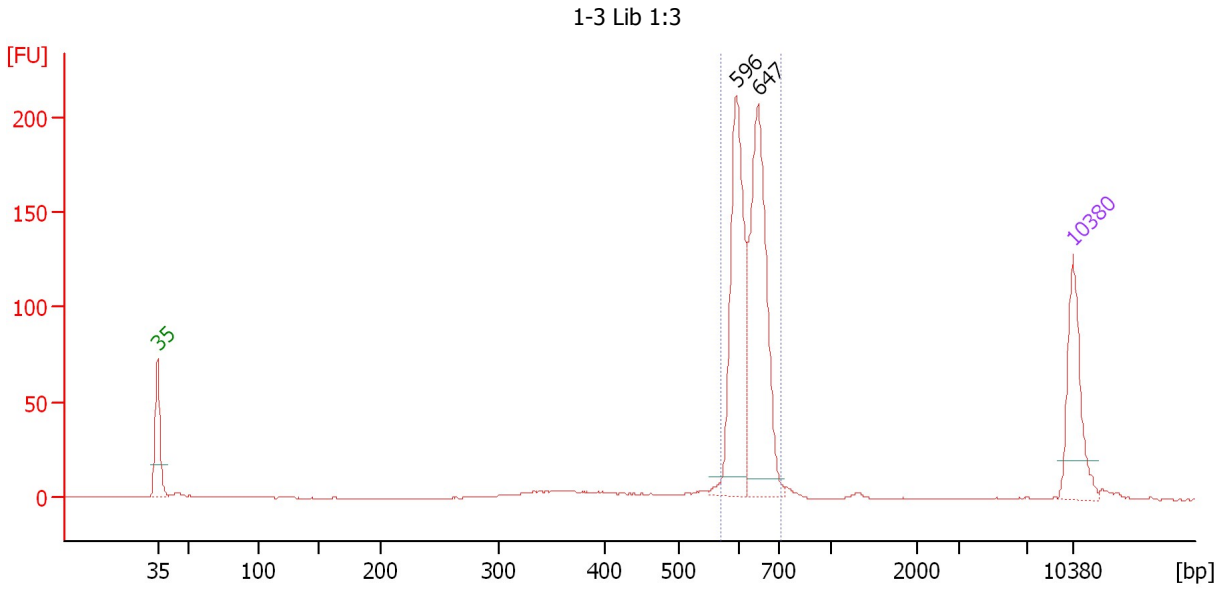
Region table for sample 2 : 1-2 Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
574	694	622	1,730.7	709.32	919.3	80	4.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
 Modified: 8/14/2012 5:25:13 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : 1-3 Lib 1:3

Height Threshold [FU] : 10

Overall Results for sample 3 : 1-3 Lib 1:3

Number of peaks found: 2 Corr. Area 1: 652.4
 Noise: 0.1

Peak table for sample 3 : 1-3 Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	596	226.51	576.2	
3	647	254.23	595.3	
4	10,380	75.00	10.9	Upper Marker

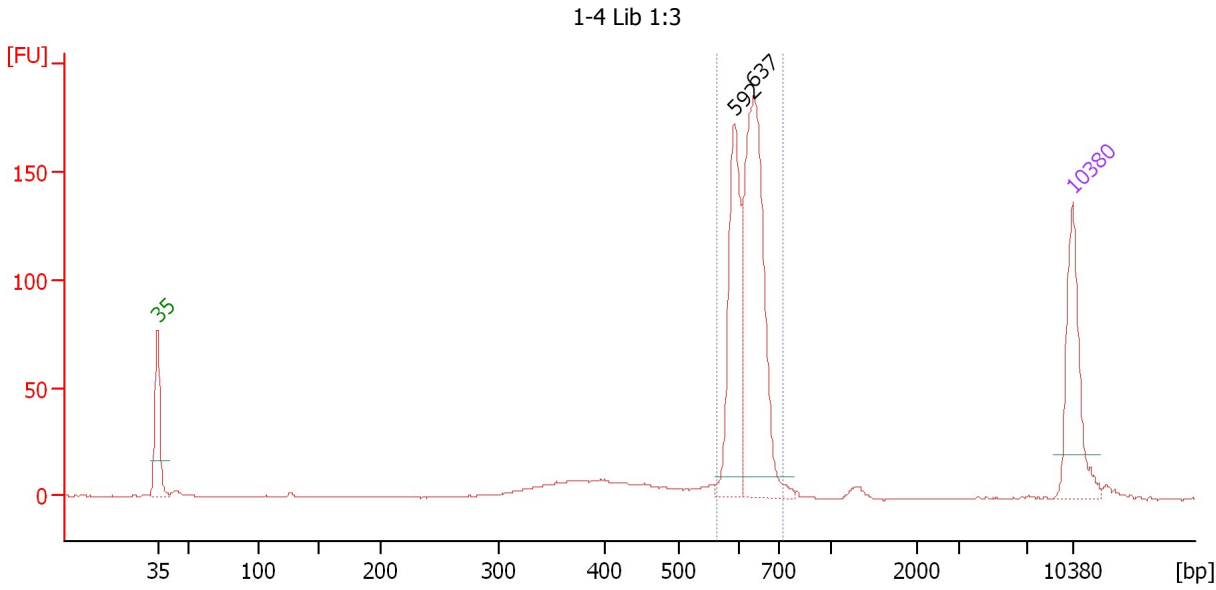
Region table for sample 3 : 1-3 Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
572	713	627	1,167.3	481.90	652.4	82	4.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
 Modified: 8/14/2012 5:25:13 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : 1-4 Lib 1:3

Height Threshold [FU] : 10

Overall Results for sample 4 : 1-4 Lib 1:3

Number of peaks found: 2 Corr. Area 1: 586.5
 Noise: 0.2

Peak table for sample 4 : 1-4 Lib 1:3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	592	145.86	373.2	
3	637	256.49	610.1	
4	10,380	75.00	10.9	Upper Marker

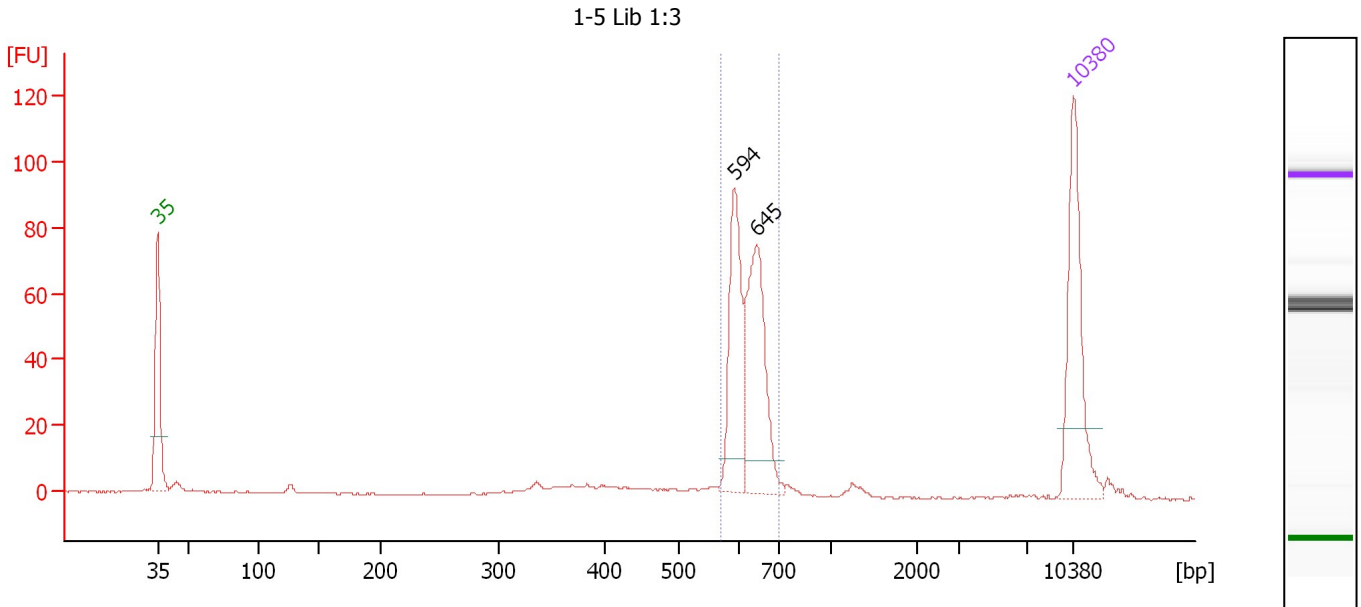
Region table for sample 4 : 1-4 Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
562	714	623	974.8	400.07	586.5	77	4.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
 Modified: 8/14/2012 5:25:13 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : 1-5 Lib 1:3

Height Threshold [FU] : 10

Overall Results for sample 5 : 1-5 Lib 1:3

Number of peaks found: 2 Corr. Area 1: 262.1
 Noise: 0.2

Peak table for sample 5 : 1-5 Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	594	88.52	226.0	
3	645	110.41	259.5	
4	10,380	75.00	10.9	Upper Marker

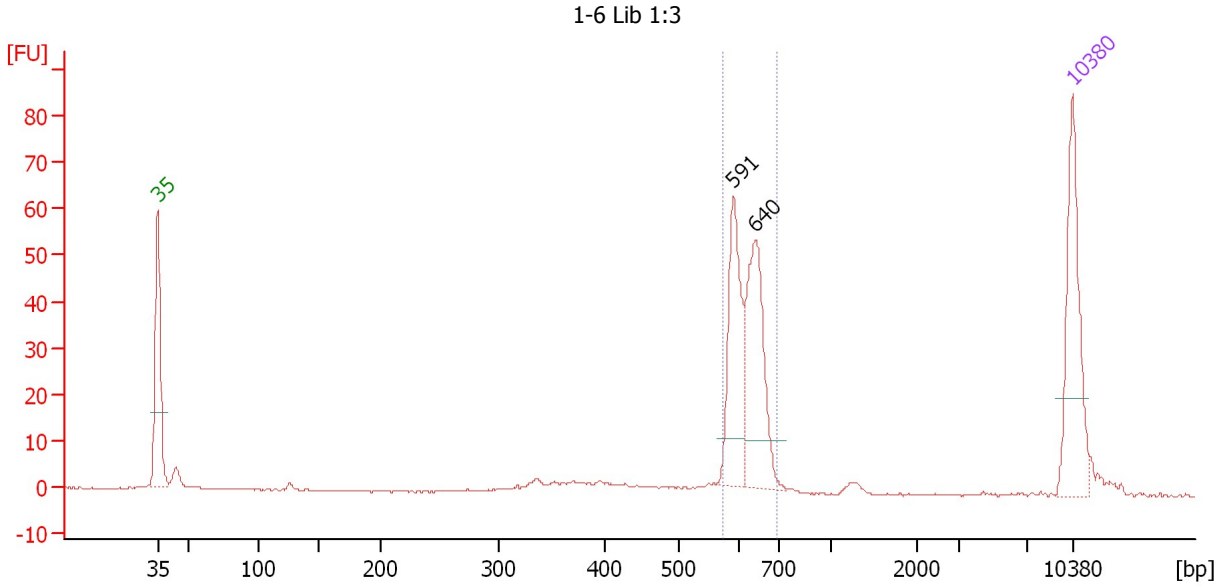
Region table for sample 5 : 1-5 Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
569	698	622	491.4	201.46	262.1	74	4.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
 Modified: 8/14/2012 5:25:13 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : 1-6 Lib 1:3

Height Threshold [FU] : 10

Overall Results for sample 6 : 1-6 Lib 1:3

Number of peaks found: 2 Corr. Area 1: 181.6
 Noise: 0.2

Peak table for sample 6 : 1-6 Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	591	92.49	237.2	
3	640	109.78	260.1	
4	10,380	75.00	10.9	Upper Marker

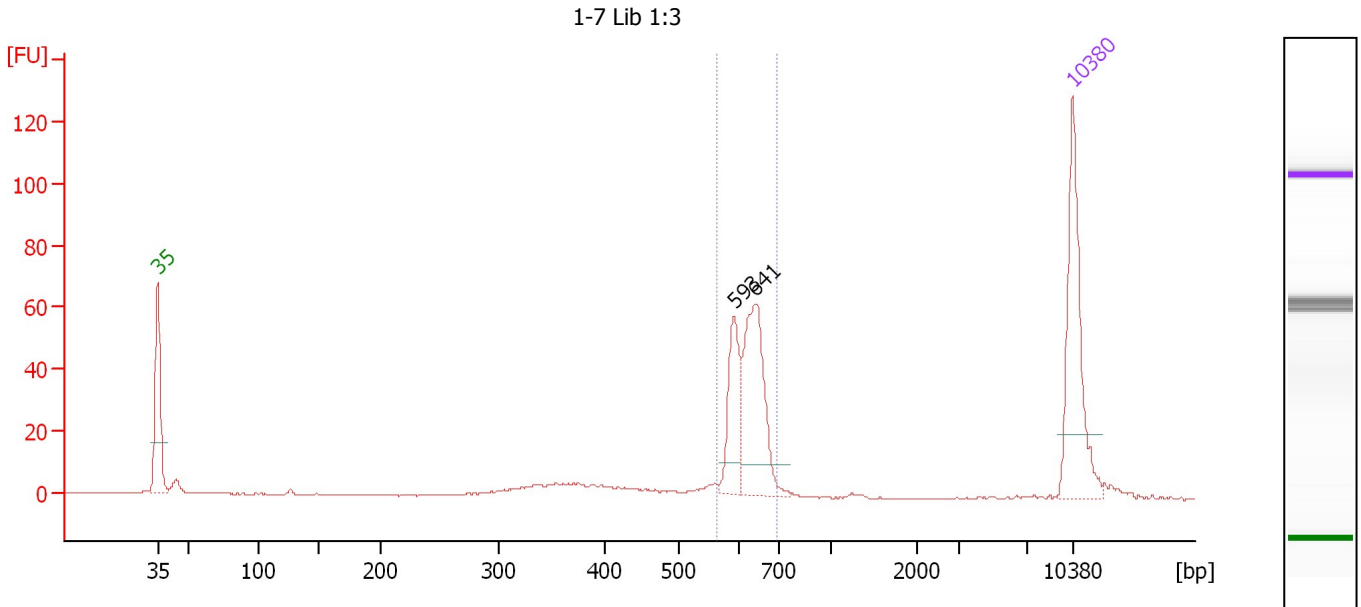
Region table for sample 6 : 1-6 Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
572	696	620	510.2	208.39	181.6	72	4.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
 Modified: 8/14/2012 5:25:13 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : 1-7 Lib 1:3

Height Threshold [FU] : 10

Overall Results for sample 7 : 1-7 Lib 1:3

Number of peaks found: 2 Corr. Area 1: 196.7
 Noise: 0.2

Peak table for sample 7 : 1-7 Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	593	50.27	128.5	
3	641	95.28	225.1	
4	10,380	75.00	10.9	Upper Marker

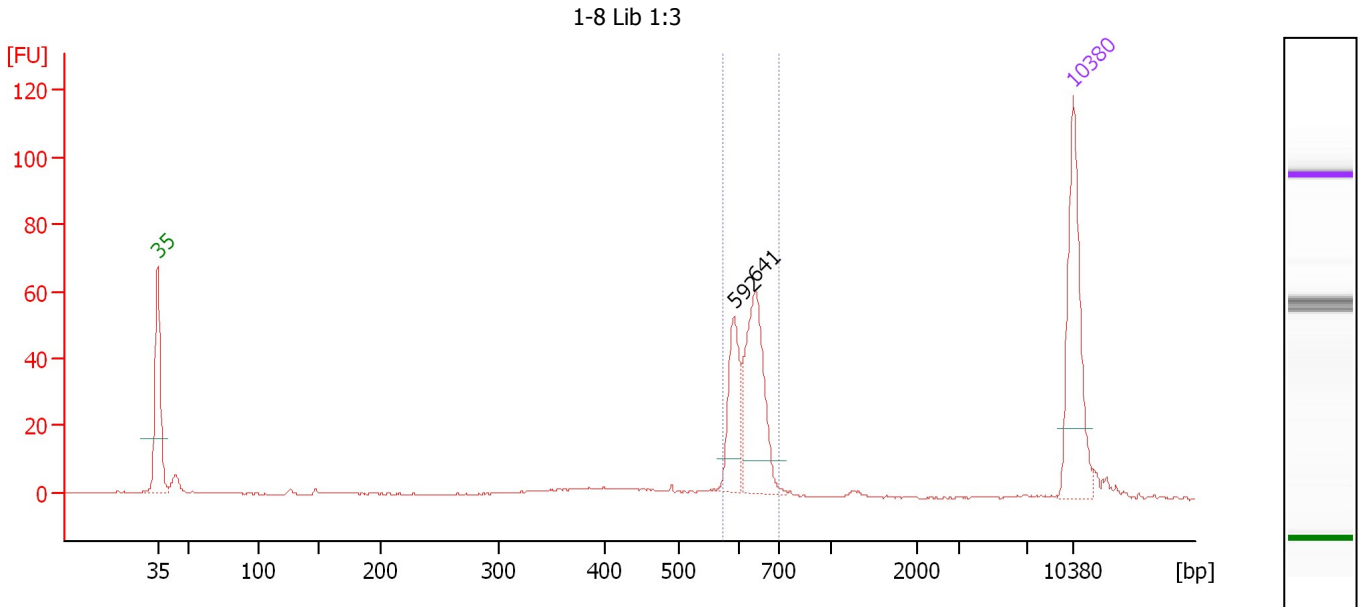
Region table for sample 7 : 1-7 Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
563	695	622	357.4	146.55	196.7	72	4.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
 Modified: 8/14/2012 5:25:13 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : 1-8 Lib 1:3

Height Threshold [FU] : 10

Overall Results for sample 8 : 1-8 Lib 1:3

Number of peaks found: 2 Corr. Area 1: 178.9
 Noise: 0.1

Peak table for sample 8 : 1-8 Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	592	48.78	124.8	
3	641	93.51	221.0	
4	10,380	75.00	10.9	Upper Marker

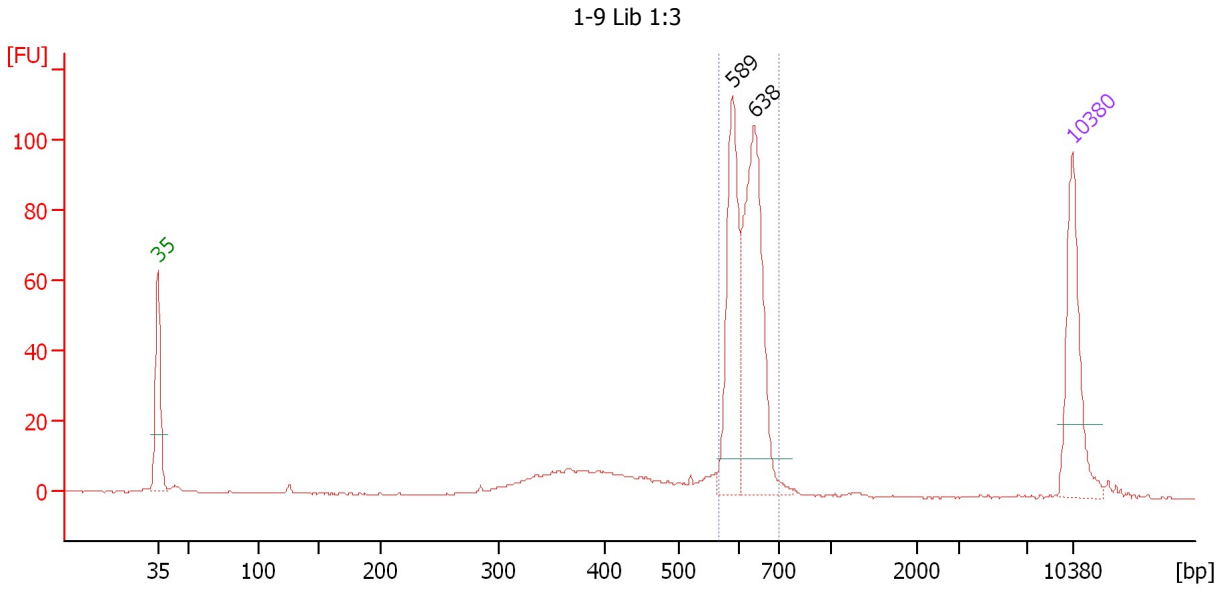
Region table for sample 8 : 1-8 Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
574	701	624	358.4	147.31	178.9	66	4.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
 Modified: 8/14/2012 5:25:13 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : 1-9 Lib 1:3

Height Threshold [FU] : 10

Overall Results for sample 9 : 1-9 Lib 1:3

Number of peaks found: 2 Corr. Area 1: 337.2
 Noise: 0.2

Peak table for sample 9 : 1-9 Lib 1:3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	589	127.76	328.7	
3	638	190.63	452.5	
4	10,380	75.00	10.9	Upper Marker

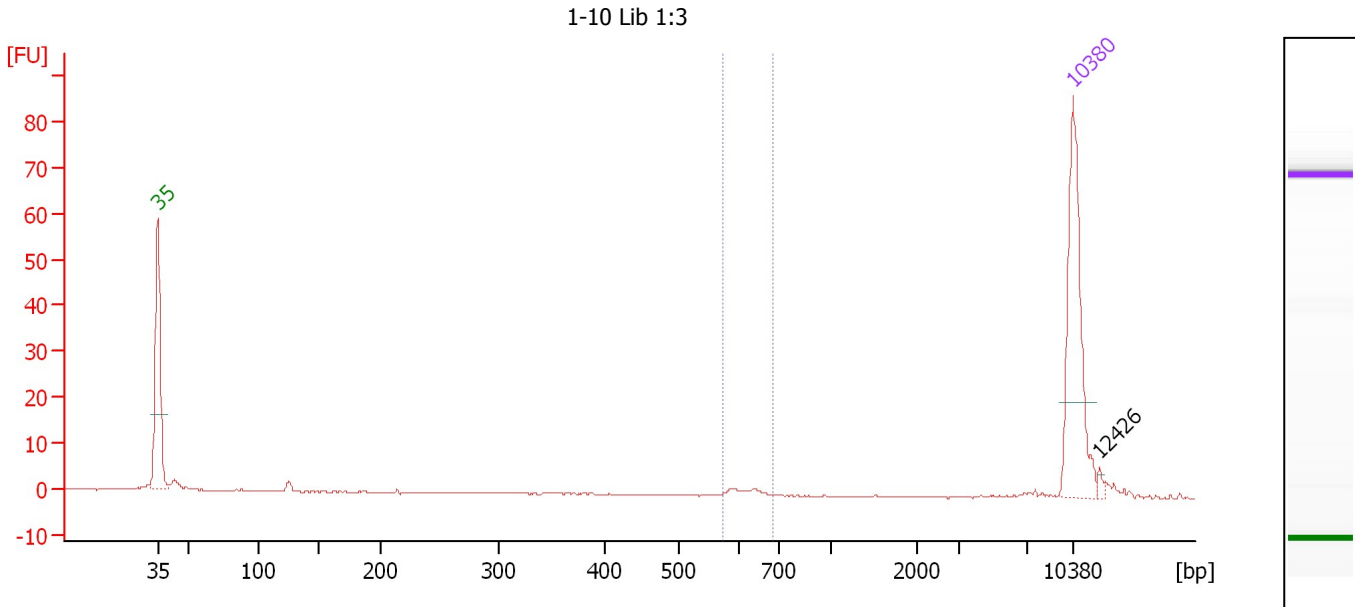
Region table for sample 9 : 1-9 Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
566	698	618	778.9	317.09	337.2	71	4.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
 Modified: 8/14/2012 5:25:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 1-10 Lib 1:3

Number of peaks found: 1 Corr. Area 1: 3.6
 Noise: 0.1

Peak table for sample 10 : 1-10 Lib 1:3

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
3	12,426	0.00	0.0	

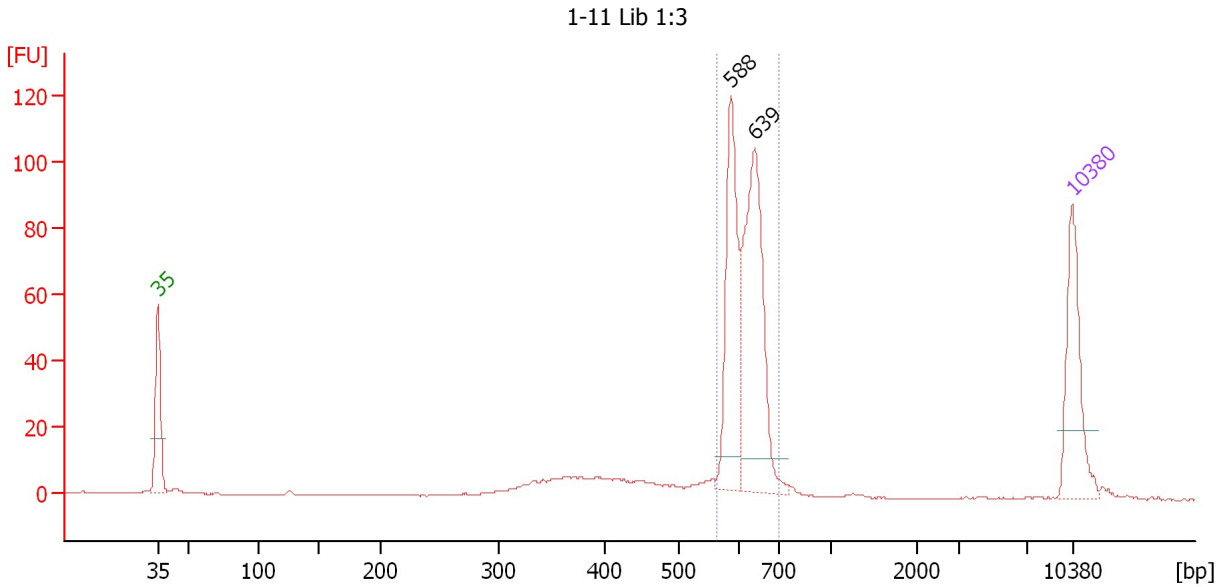
Region table for sample 10 : 1-10 Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
575	681	618	9.6	3.91	3.6	15	4.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
 Modified: 8/14/2012 5:25:13 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 11 : 1-11 Lib 1:3

Height Threshold [FU] : 10

Overall Results for sample 11 : 1-11 Lib 1:3

Number of peaks found: 2 Corr. Area 1: 343.8
 Noise: 0.1

Peak table for sample 11 : 1-11 Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	588	151.19	389.9	
3	639	216.70	514.0	
4	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : 1-11 Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
565	699	617	916.9	372.90	343.8	75	4.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-14\2012-08-14_010.xad

Created: 8/14/2012 4:42:16 PM
Modified: 8/14/2012 5:25:13 PM

Gel Image

