

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ings\Bioanalyzer\2015-07-17\2015-07-17_002_MiSeq139Libs.xad

Created: 7/17/2015 1:35:44 PM
Modified: 7/20/2015 4:53:50 PM

Electrophoresis File Run Summary

Instrument Information:

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

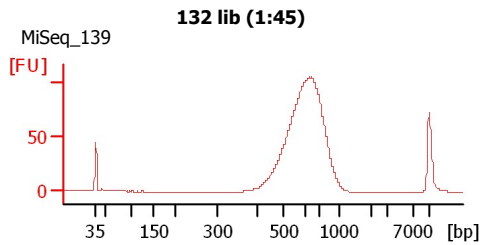
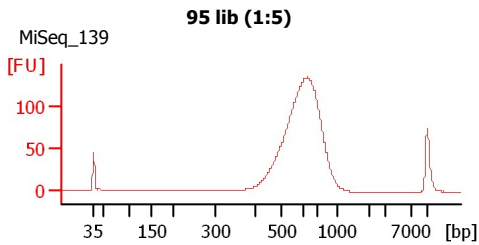
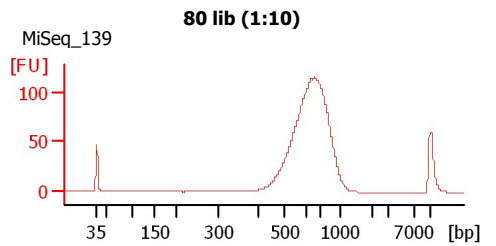
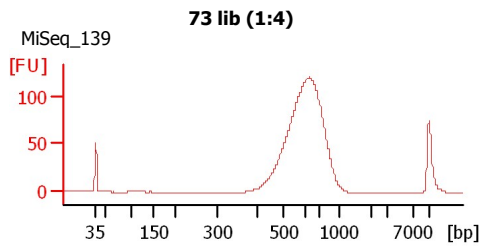
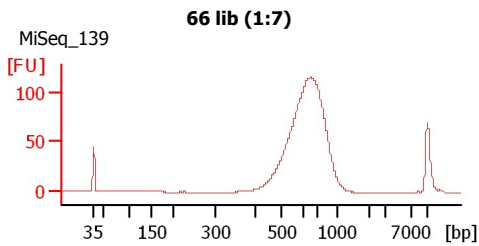
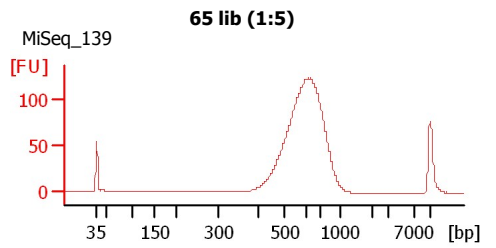
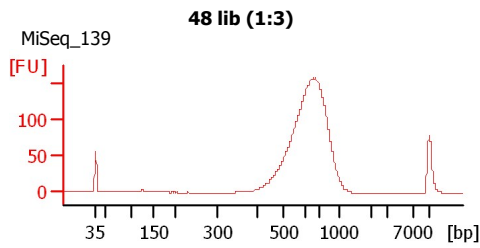
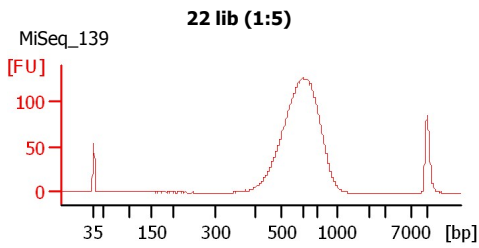
Assay Information:

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:\...ings\Bioanalyzer\2015-07-17\2015-07-17_002_MiSeq139Libs.xad

Created: 7/17/2015 1:35:44 PM
 Modified: 7/20/2015 4:53:50 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
22 lib (1:5)	MiSeq_139	<input type="checkbox"/>	✓			
48 lib (1:3)	MiSeq_139	<input type="checkbox"/>	✓			
65 lib (1:5)	MiSeq_139	<input type="checkbox"/>	✓			
66 lib (1:7)	MiSeq_139	<input type="checkbox"/>	✓			
73 lib (1:4)	MiSeq_139	<input type="checkbox"/>	✓			
80 lib (1:10)	MiSeq_139	<input type="checkbox"/>	✓			
95 lib (1:5)	MiSeq_139	<input type="checkbox"/>	✓			
132 lib (1:45)	MiSeq_139	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ings\Bioanalyzer\2015-07-17\2015-07-17_002_MiSeq139Libs.xad

Created: 7/17/2015 1:35:44 PM
Modified: 7/20/2015 4:53:50 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

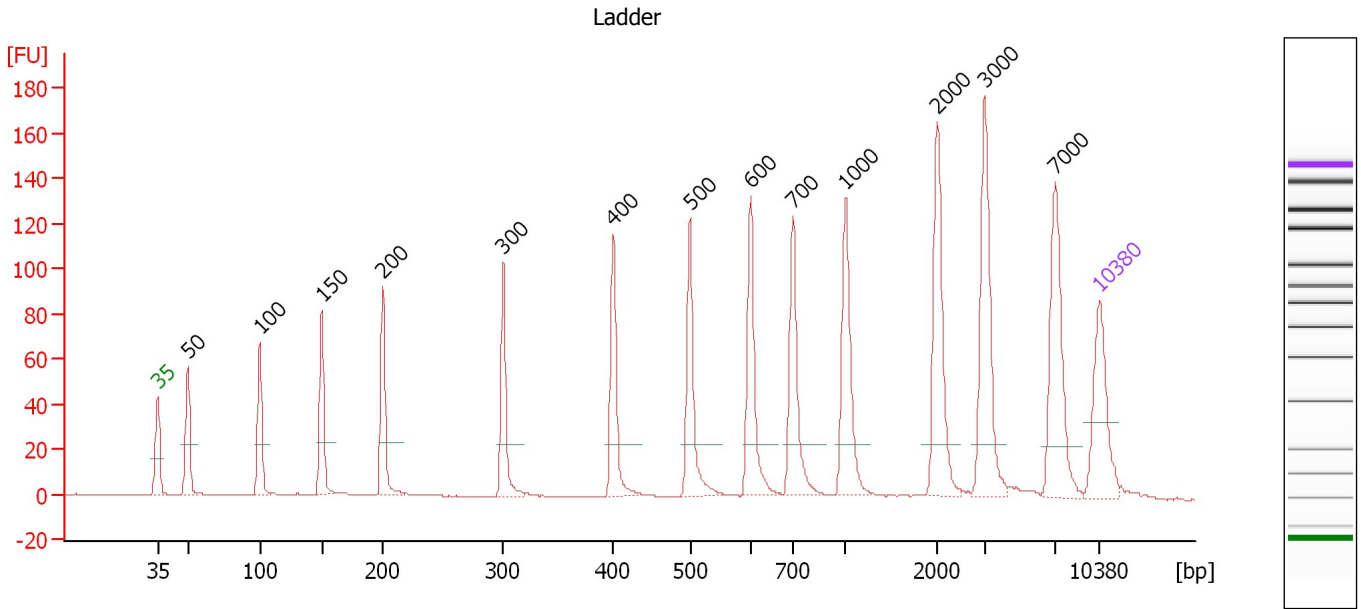
Ladder

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:\...ings\Bioanalyzer\2015-07-17\2015-07-17_002_MiSeq139Libs.xad

Created: 7/17/2015 1:35:44 PM
 Modified: 7/20/2015 4:53:50 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

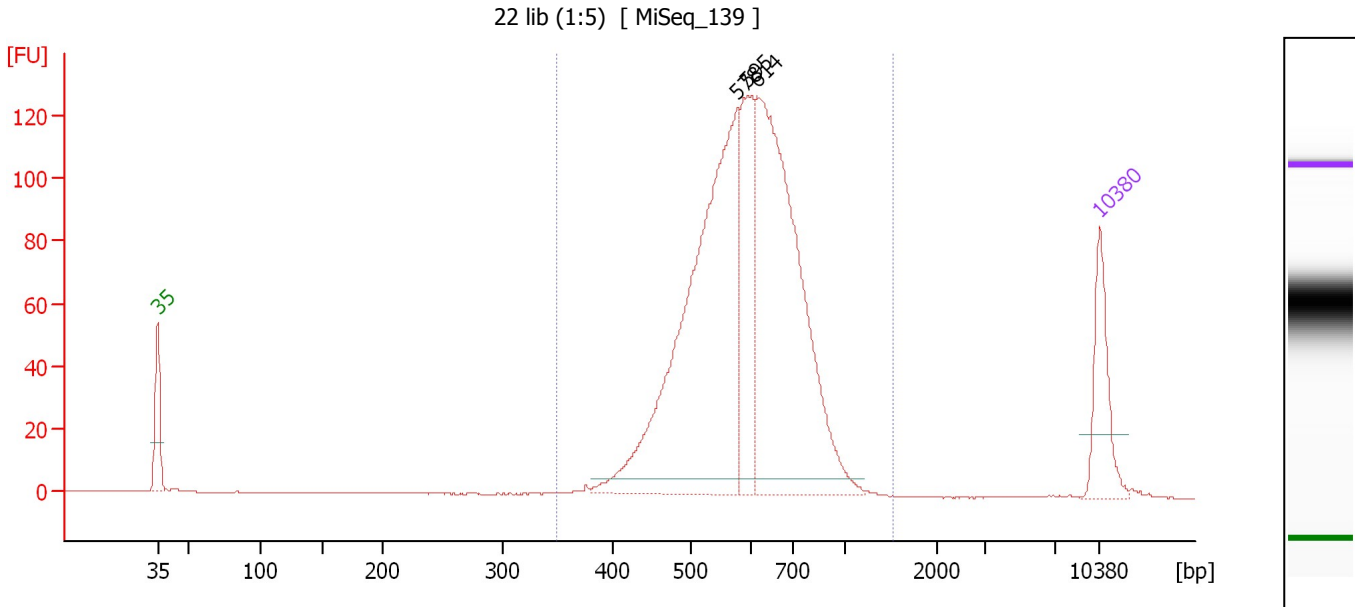
Peak table for Ladder

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	45.24
3	100	150.00	2,272.7	Ladder Peak	50.59
4	150	150.00	1,515.2	Ladder Peak	55.20
5	200	150.00	1,136.4	Ladder Peak	59.72
6	300	150.00	757.6	Ladder Peak	68.66
7	400	150.00	568.2	Ladder Peak	76.86
8	500	150.00	454.5	Ladder Peak	82.54
9	600	150.00	378.8	Ladder Peak	87.06
10	700	150.00	324.7	Ladder Peak	90.18
11	1,000	150.00	227.3	Ladder Peak	94.09
12	2,000	150.00	113.6	Ladder Peak	100.89
13	3,000	150.00	75.8	Ladder Peak	104.43
14	7,000	150.00	32.5	Ladder Peak	109.69
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-07-17\2015-07-17_002_MiSeq139Libs.xad

Created: 7/17/2015 1:35:44 PM
 Modified: 7/20/2015 4:53:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 22 lib (1:5)

Number of peaks found: 3 Corr. Area 1: 1,388.5
 Noise: 0.2

Peak table for sample 1 : 22 lib (1:5)

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	578	679.82	1,781.7		86.07
3	595	189.48	482.6		86.83
4	614	604.39	1,491.9		87.49
5	10,380	75.00	10.9	Upper Marker	113.00

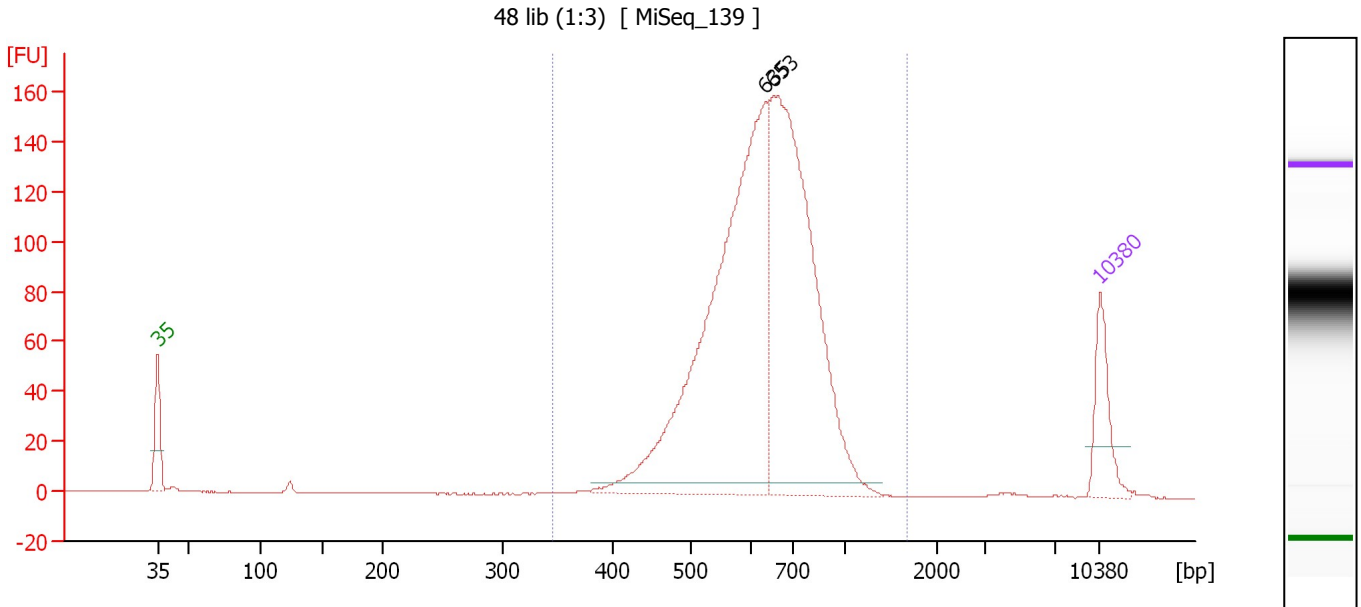
Region table for sample 1 : 22 lib (1:5)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
348	607	1,526	1,388.5	4,021.2	98	19.1	1,548.30

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-07-17\2015-07-17_002_MiSeq139Libs.xad

Created: 7/17/2015 1:35:44 PM
 Modified: 7/20/2015 4:53:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 48 lib (1:3)

Number of peaks found: 2 Corr. Area 1: 1,589.5
 Noise: 0.1

Peak table for sample 2 : 48 lib (1:3)

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	635	954.20	2,277.5		88.14
3	653	794.57	1,842.8		88.72
4	10,380	75.00	10.9	Upper Marker	113.00

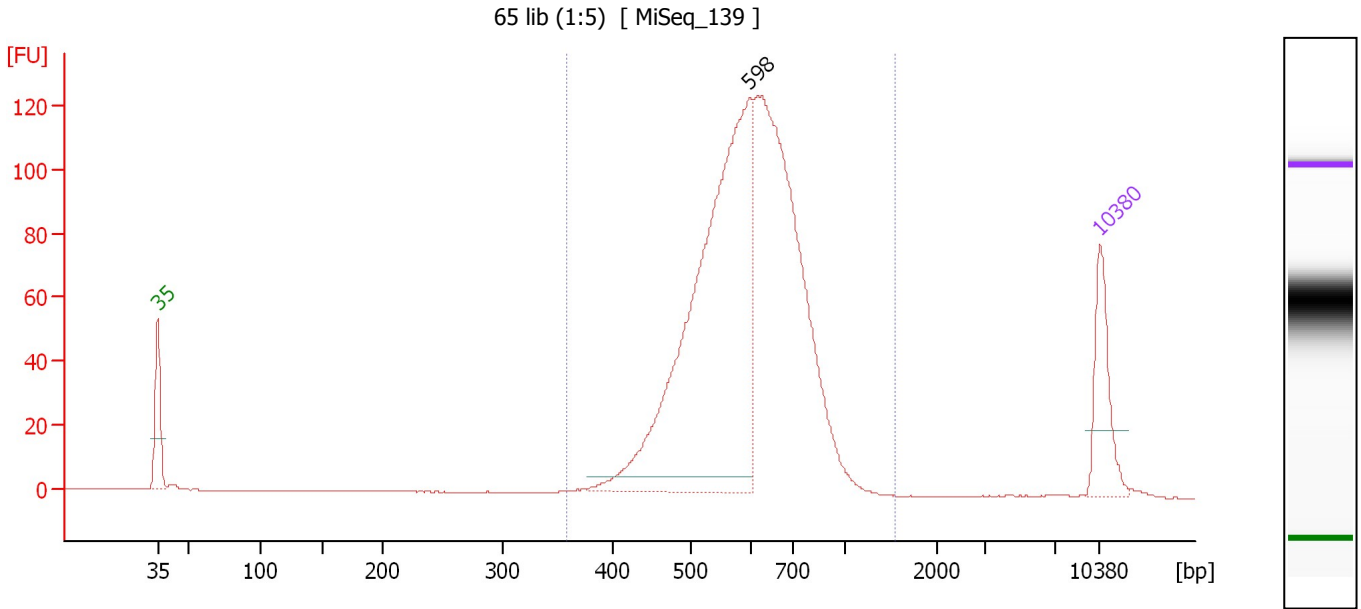
Region table for sample 2 : 48 lib (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
345	648	1,676	1,589.5	4,482.6	98	20.3	1,831.03

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-07-17\2015-07-17_002_MiSeq139Libs.xad

Created: 7/17/2015 1:35:44 PM
 Modified: 7/20/2015 4:53:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 65 lib (1:5)

Number of peaks found: 1 Corr. Area 1: 1,302.5
 Noise: 0.1

Peak table for sample 3 : 65 lib (1:5)

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	598	783.96	1,986.7		86.96
3	10,380	75.00	10.9	Upper Marker	113.00

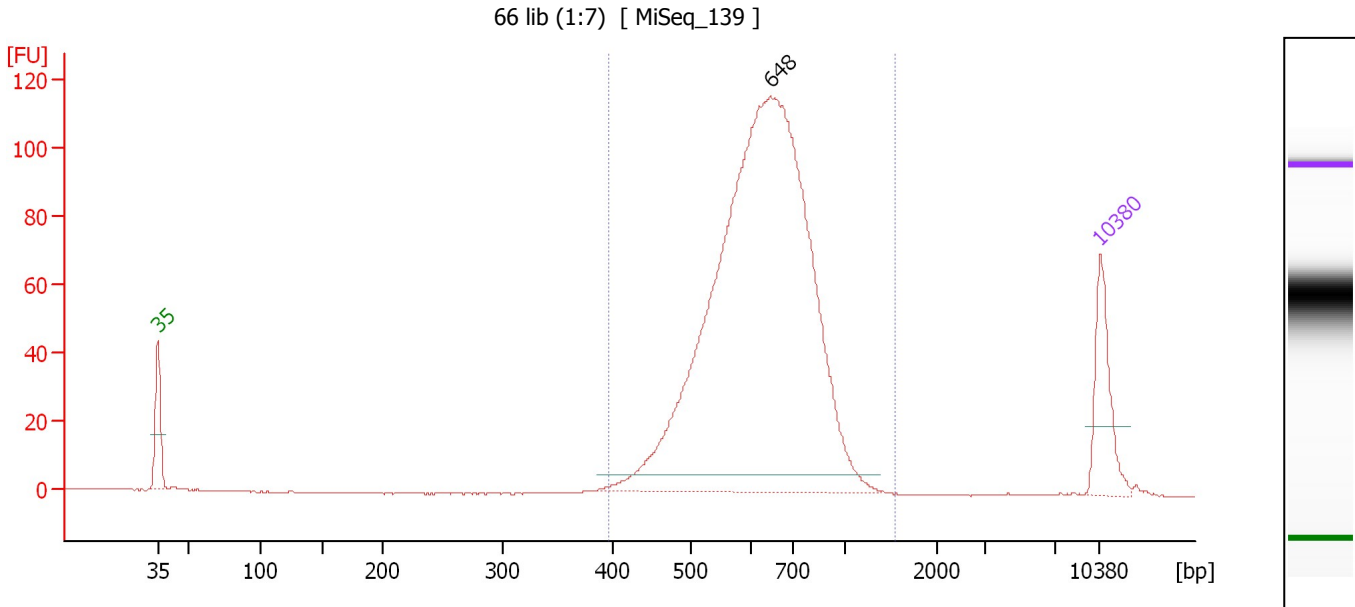
Region table for sample 3 : 65 lib (1:5)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
358	613	1,549	1,302.5	3,965.0	99	18.8	1,543.10

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-07-17\2015-07-17_002_MiSeq139Libs.xad

Created: 7/17/2015 1:35:44 PM
 Modified: 7/20/2015 4:53:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 66 lib (1:7)

Number of peaks found: 1 Corr. Area 1: 1,138.3
 Noise: 0.1

Peak table for sample 4 : 66 lib (1:7)

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	648	1,402.12	3,276.4		88.57
3	10,380	75.00	10.9	Upper Marker	113.00

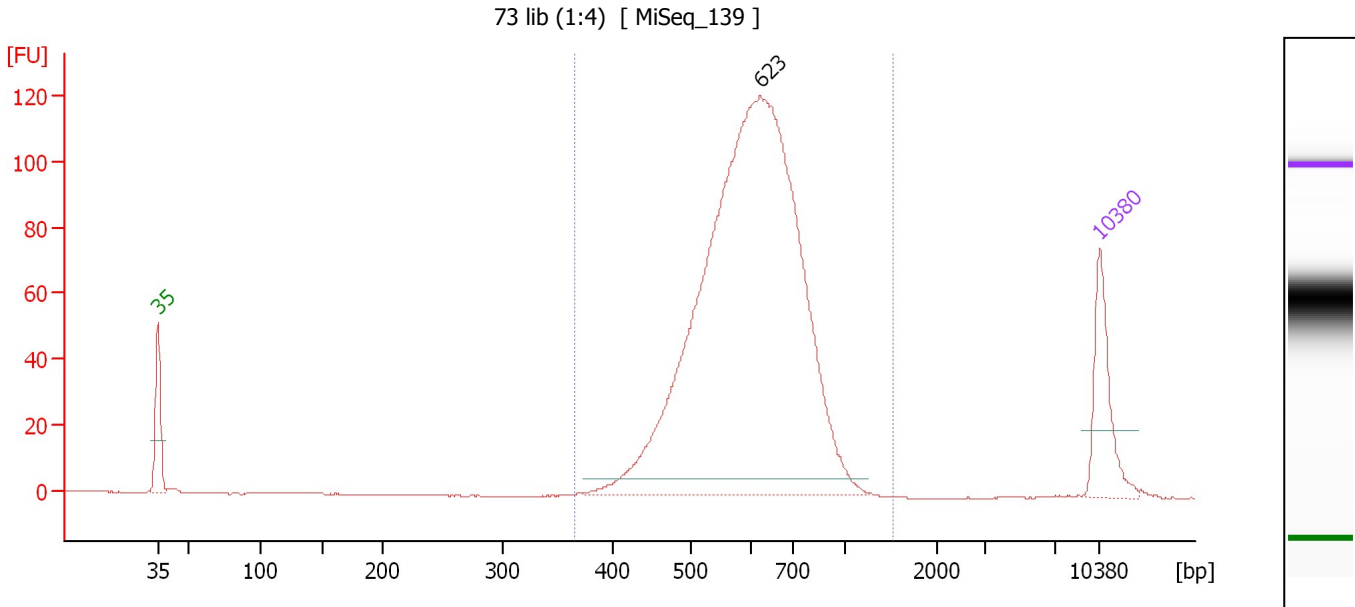
Region table for sample 4 : 66 lib (1:7)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
396	648	1,552	1,138.3	3,545.0	98	20.1	1,453.64

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-07-17\2015-07-17_002_MiSeq139Libs.xad

Created: 7/17/2015 1:35:44 PM
 Modified: 7/20/2015 4:53:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 73 lib (1:4)

Number of peaks found: 1 Corr. Area 1: 1,213.0
 Noise: 0.1

Peak table for sample 5 : 73 lib (1:4)

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	623	1,325.73	3,225.8		87.77
3	10,380	75.00	10.9	Upper Marker	113.00

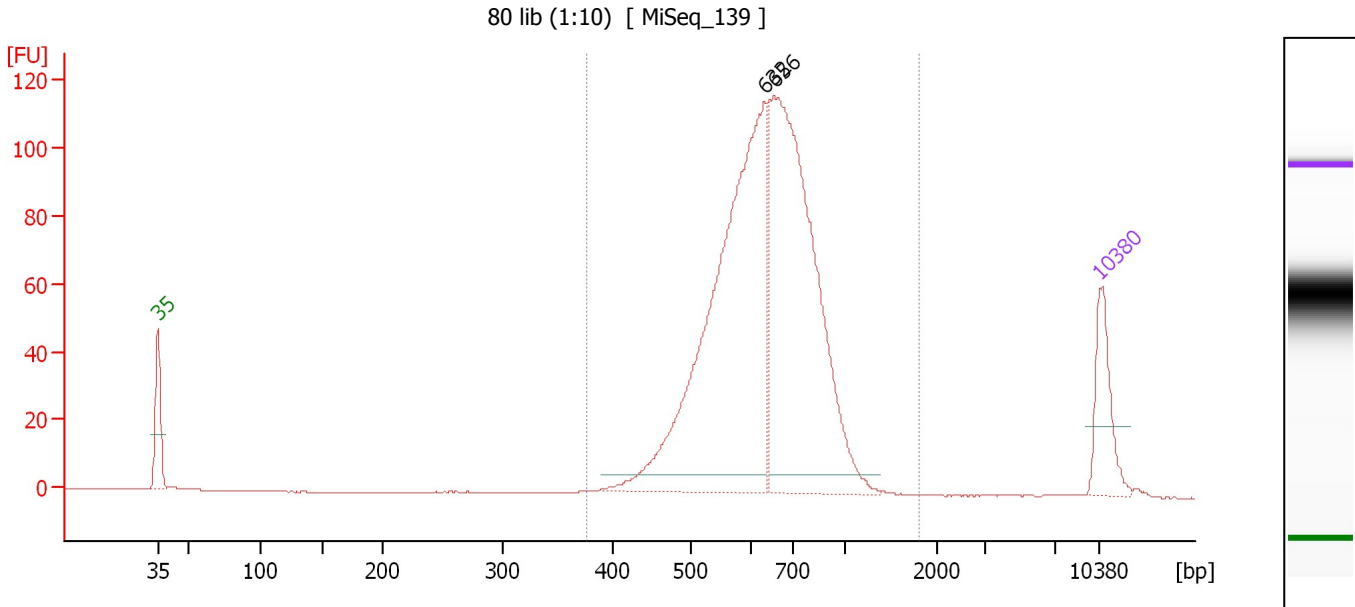
Region table for sample 5 : 73 lib (1:4)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
365	619	1,512	1,213.0	3,513.5	99	18.4	1,382.85

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-07-17\2015-07-17_002_MiSeq139Libs.xad

Created: 7/17/2015 1:35:44 PM
 Modified: 7/20/2015 4:53:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 80 lib (1:10)

Number of peaks found: 2 Corr. Area 1: 1,134.0
 Noise: 0.1

Peak table for sample 6 : 80 lib (1:10)

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	632	792.12	1,899.7		88.05
3	656	726.78	1,679.1		88.80
4	10,380	75.00	10.9	Upper Marker	113.00

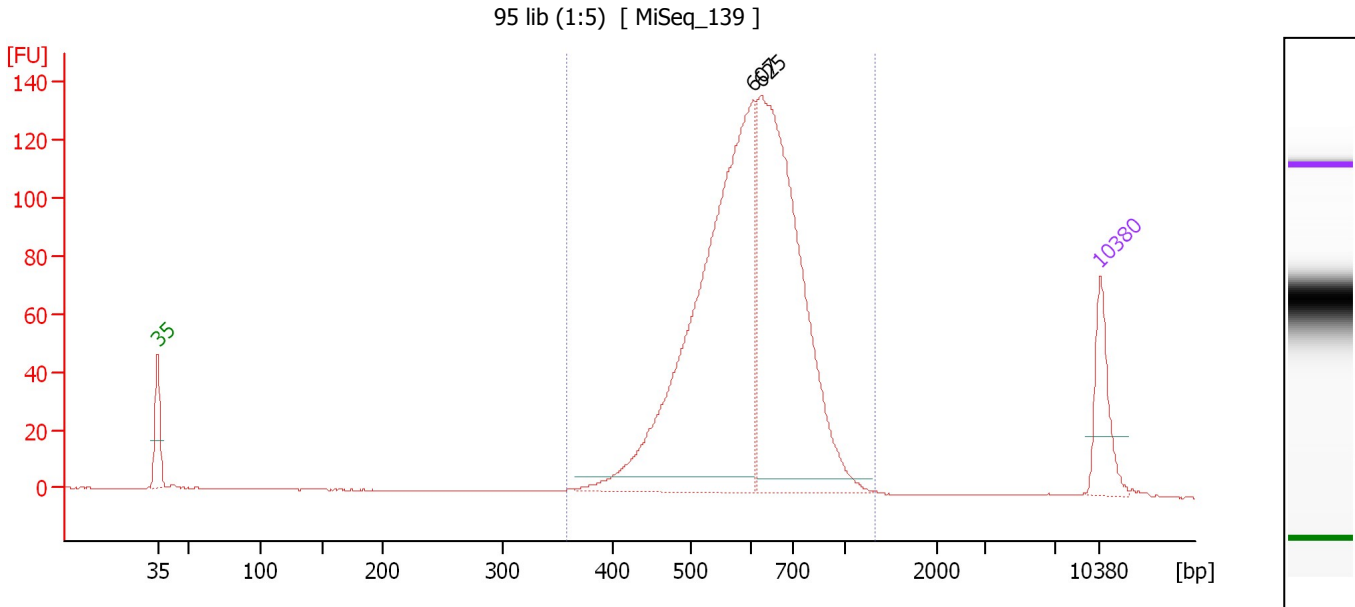
Region table for sample 6 : 80 lib (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
376	657	1,805	1,134.0	3,827.0	99	20.8	1,586.70

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-07-17\2015-07-17_002_MiSeq139Libs.xad

Created: 7/17/2015 1:35:44 PM
 Modified: 7/20/2015 4:53:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 95 lib (1:5)

Number of peaks found: 2 Corr. Area 1: 1,367.4
 Noise: 0.1

Peak table for sample 7 : 95 lib (1:5)

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	607	928.06	2,316.9		87.27
3	625	741.26	1,797.8		87.83
4	10,380	75.00	10.9	Upper Marker	113.00

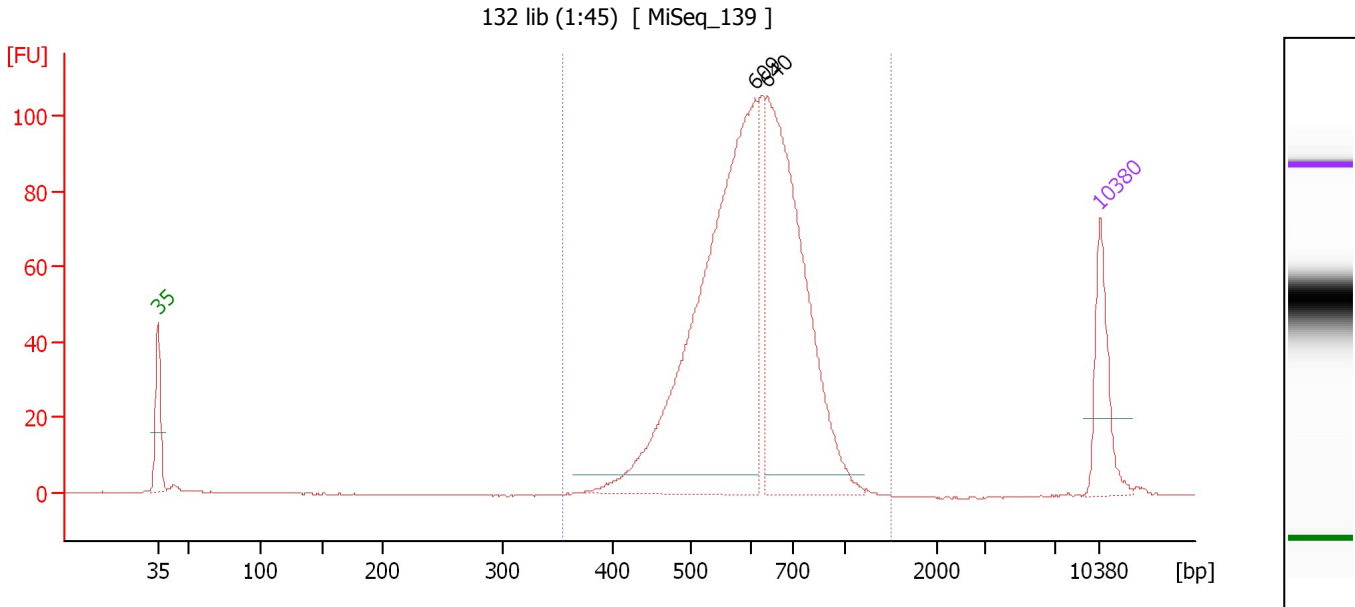
Region table for sample 7 : 95 lib (1:5)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
357	615	1,331	1,367.4	4,589.0	97	18.7	1,788.89

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-07-17\2015-07-17_002_MiSeq139Libs.xad

Created: 7/17/2015 1:35:44 PM
 Modified: 7/20/2015 4:53:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 132 lib (1:45)

Number of peaks found: 2 Corr. Area 1: 1,062.2
 Noise: 0.1

Peak table for sample 8 : 132 lib (1:45)

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	609	765.13	1,902.8		87.35
3	640	537.46	1,272.0		88.31
4	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 8 : 132 lib (1:45)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
354	622	1,497	1,062.2	3,735.7	97	19.1	1,472.05

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ings\Bioanalyzer\2015-07-17\2015-07-17_002_MiSeq139Libs.xad

Created: 7/17/2015 1:35:44 PM
Modified: 7/20/2015 4:53:50 PM

Gel Image