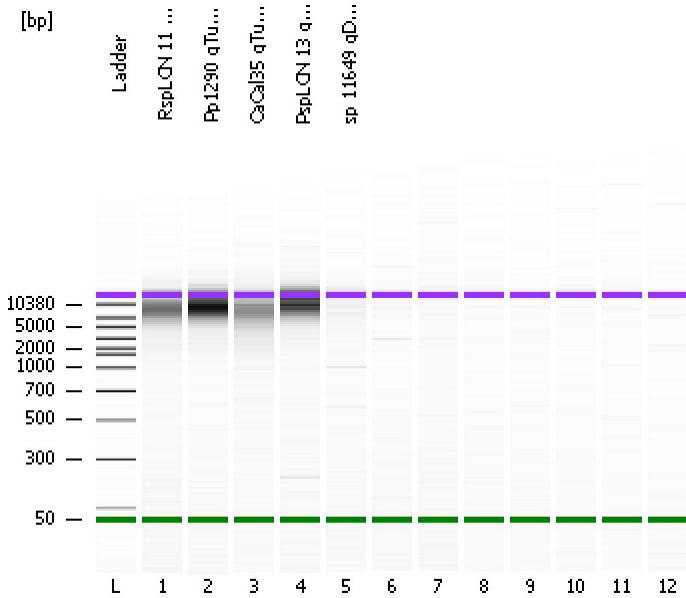


Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
Modified: 1/29/2014 3:51:06 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\DNA 12000 Series II.xsy

Assay Class: DNA 12000
Version: 2.4
Assay Comments: DNA Analysis 100 -12000 bp

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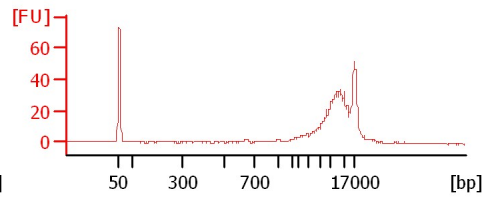
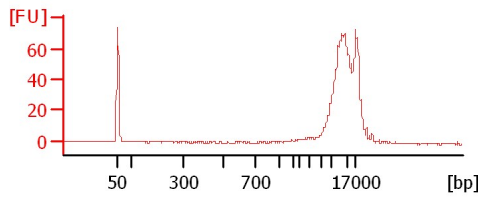
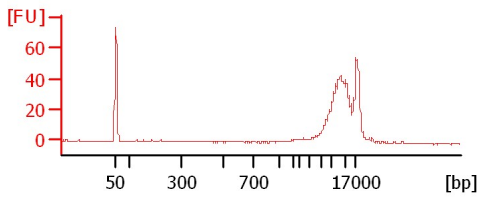
Chip Information:

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

RspLCN 11 gTube 1/29

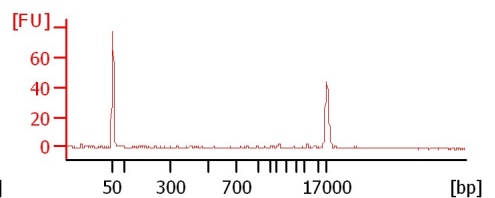
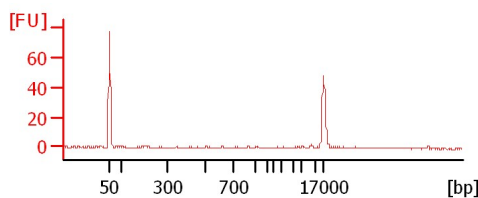
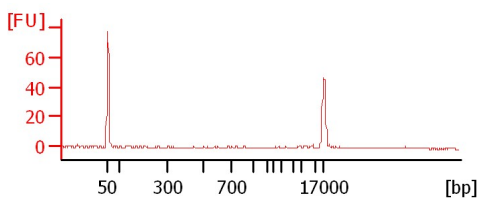
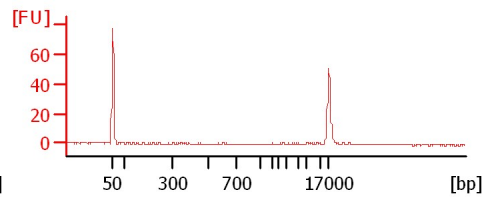
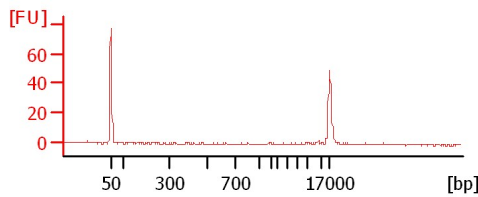
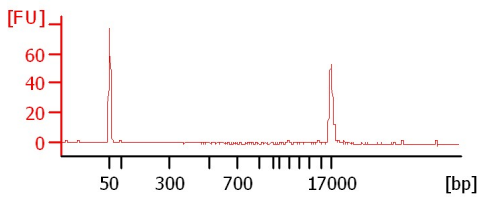
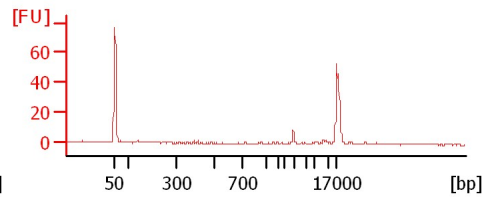
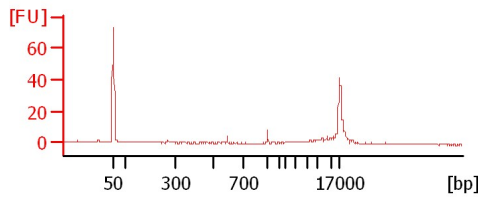
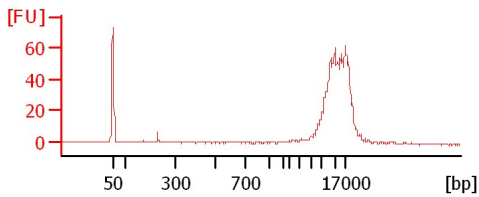
Pp1290 gTube 1/29

CaCal35 gTube 1/29



PspLCN 13 gTube 1/29

sp 11649 gDNA



Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
Modified: 1/29/2014 3:51:06 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
RspLCN 11 gTube 1/29		<input type="checkbox"/>	✓			
Pp1290 gTube 1/29		<input type="checkbox"/>	✓			
CaCal35 gTube 1/29		<input type="checkbox"/>	✓			
PspLCN 13 gTube 1/29		<input type="checkbox"/>	✓			
sp 11649 gDNA		<input type="checkbox"/>	✓			
		<input type="checkbox"/>	✓			
		<input type="checkbox"/>	✓			
		<input type="checkbox"/>	✓			
		<input type="checkbox"/>	✓			
		<input type="checkbox"/>	✓			
		<input type="checkbox"/>	✓			
		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			
Chip Lot #				Reagent Kit Lot #		

Chip Comments :

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
Modified: 1/29/2014 3:51:06 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 20
Maximum Visible Range [s] : 99
Start Analysis Time Range [s] : 20
End Analysis Time Range [s] : 98.95
Ladder Concentration [ng/μl] : 44
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [ng/μl] : 8.3
Upper Marker Concentration [ng/μl] : 4.2
Used Upper Marker for Quantitation
This is a Qualitative Assay Only
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 20
Integration End Time [s] : 98.95
Slope Threshold : 0.8
Height Threshold [FU] : 20
Area Threshold : 0.1
Width Threshold [s] : 0.5
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

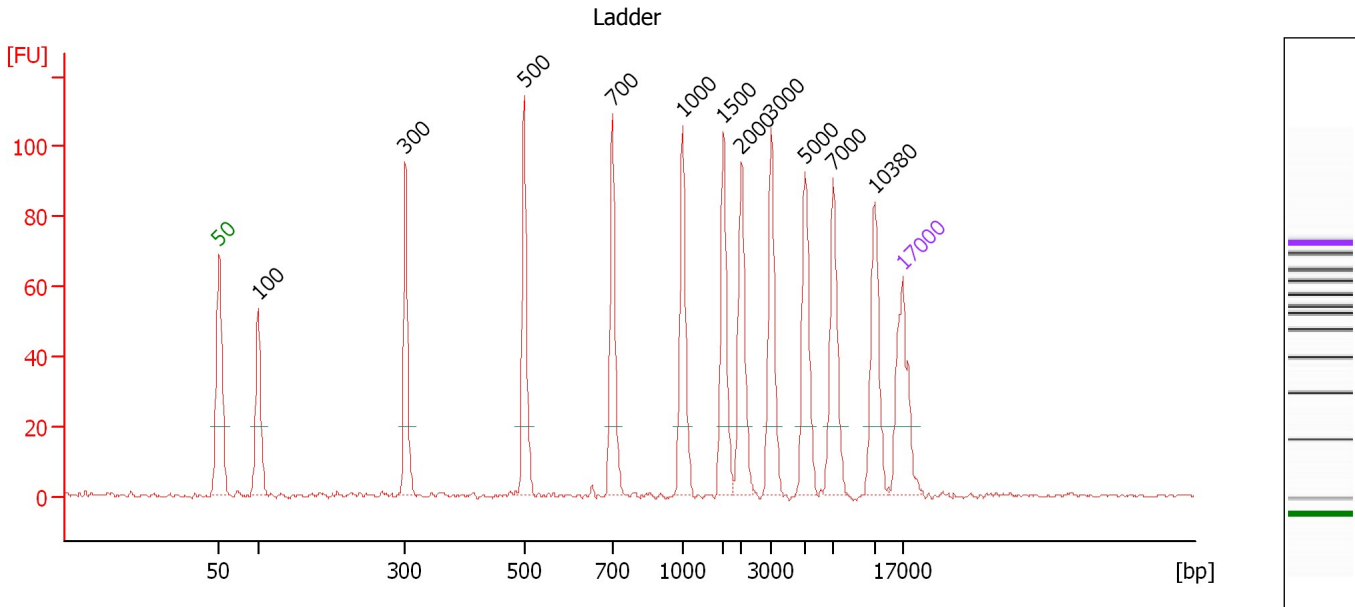
Ladder

Ladder Peak	Size	Area
1	50	120
2	100	48
3	300	61
4	500	77
5	700	81
6	1000	86
7	1500	92
8	2000	92
9	3000	96
10	5000	100
11	7000	98
12	10380	102
13	17000	110

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
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Electropherogram Summary



Peak table for Ladder

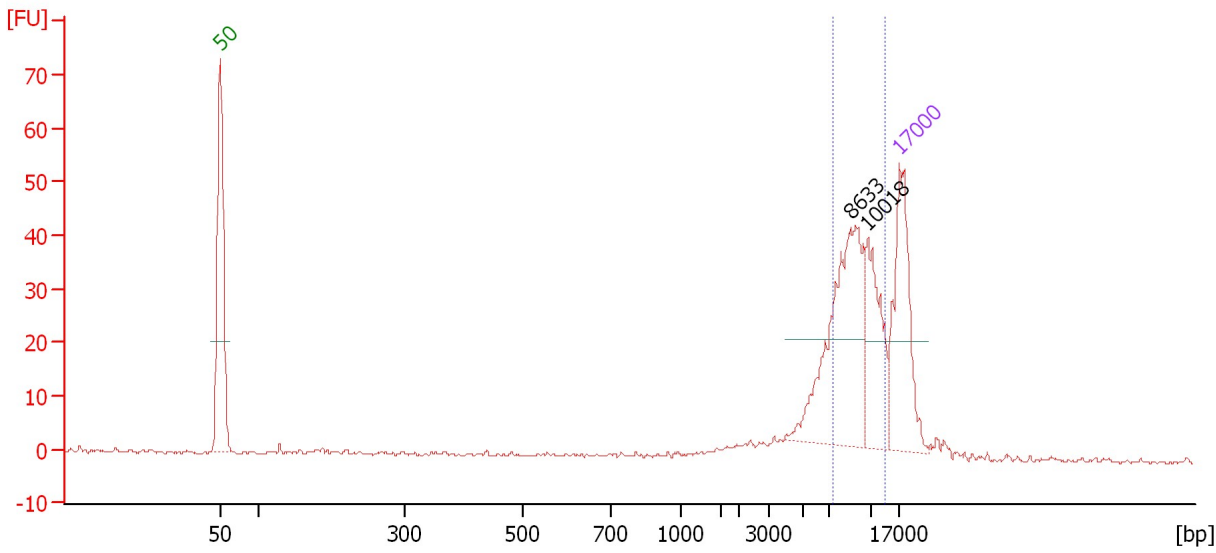
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	100	4.00	60.6	Ladder Peak
3	300	4.00	20.2	Ladder Peak
4	500	4.00	12.1	Ladder Peak
5	700	4.00	8.7	Ladder Peak
6	1,000	4.00	6.1	Ladder Peak
7	1,500	4.00	4.0	Ladder Peak
8	2,000	4.00	3.0	Ladder Peak
9	3,000	4.00	2.0	Ladder Peak
10	5,000	4.00	1.2	Ladder Peak
11	7,000	4.00	0.9	Ladder Peak
12	10,380	4.00	0.6	Ladder Peak
13	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
 Modified: 1/29/2014 3:51:06 PM

Electropherogram Summary Continued ...

RspLCN 11 gTube 1/29



Overall Results for sample 1 : RspLCN 11 gTube 1/29

Number of peaks found: 2 Area 1: 135.4

Peak table for sample 1 : RspLCN 11 gTube 1/29

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	8,633	7.37	1.3	
3	10,018	3.01	0.5	
4	17,000	4.20	0.4	Upper Marker

Region table for sample 1 : RspLCN 11 gTube 1/29

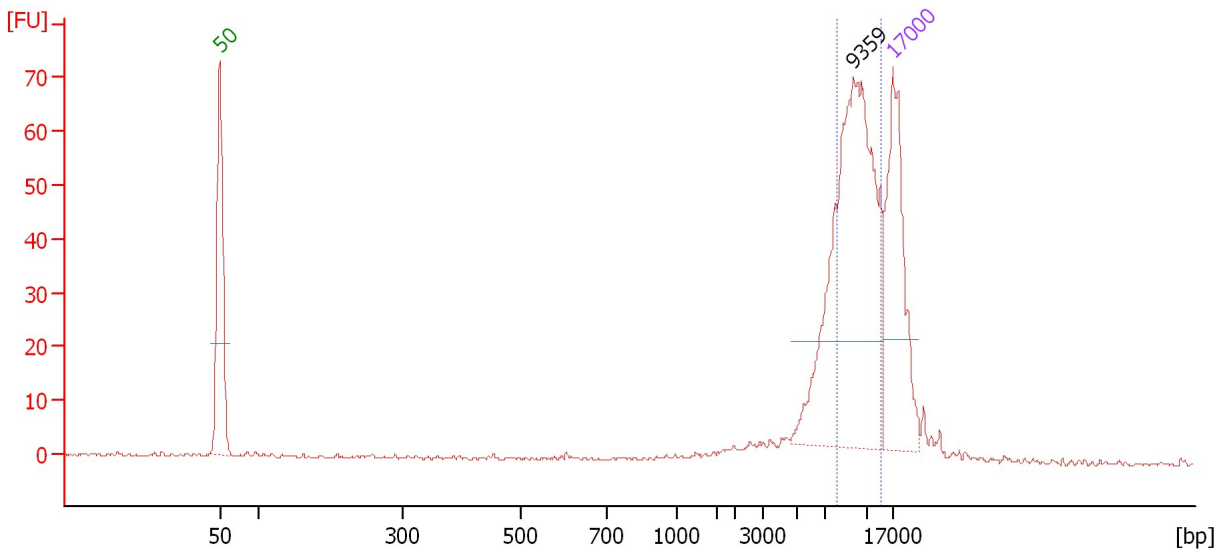
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	Col Size distribution in CV or [%]	% of Total
7,276	13,809	9,498	8.79	135.4	16.4	63

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
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Electropherogram Summary Continued ...

Pp1290 gTube 1/29



Overall Results for sample 2 : Pp1290 gTube 1/29

Number of peaks found: 1 Area 1: 194.4

Peak table for sample 2 : Pp1290 gTube 1/29

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	9,359	10.73	1.7	
3	17,000	4.20	0.4	Upper Marker

Region table for sample 2 : Pp1290 gTube 1/29

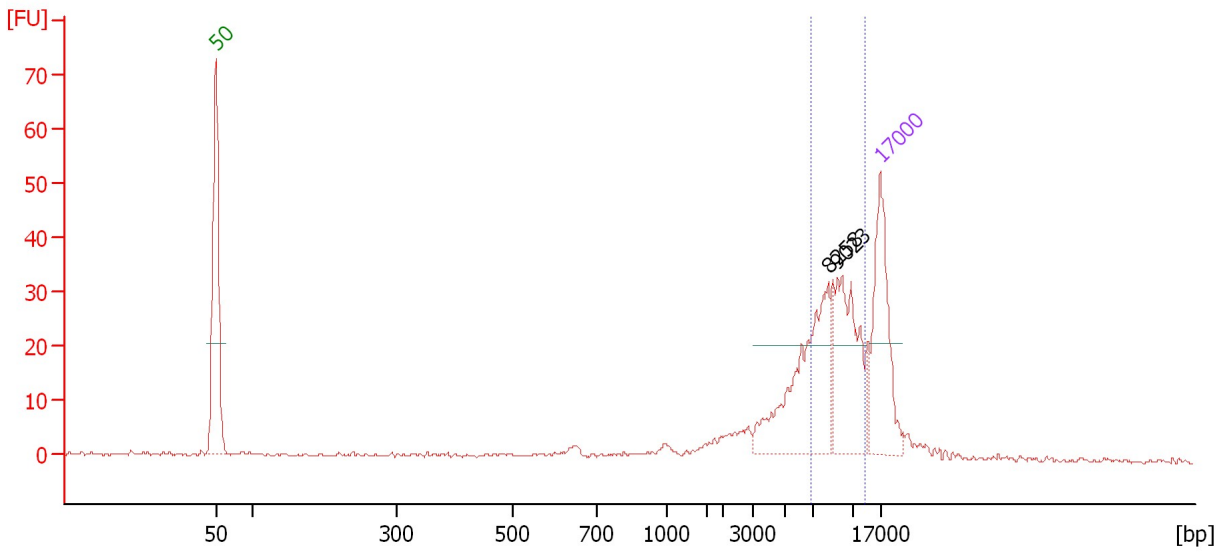
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	Col Size distribution in CV or [%]	% of Total
7,918	14,163	10,032	8.48	194.4	15.8	67

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
 Modified: 1/29/2014 3:51:06 PM

Electropherogram Summary Continued ...

CaCal35 gTube 1/29



Overall Results for sample 3 : CaCal35 gTube 1/29

Number of peaks found: 2 Area 1: 106.4

Peak table for sample 3 : CaCal35 gTube 1/29

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	8,258	5.92	1.1	
3	9,023	4.51	0.8	
4	17,000	4.20	0.4	Upper Marker

Region table for sample 3 : CaCal35 gTube 1/29

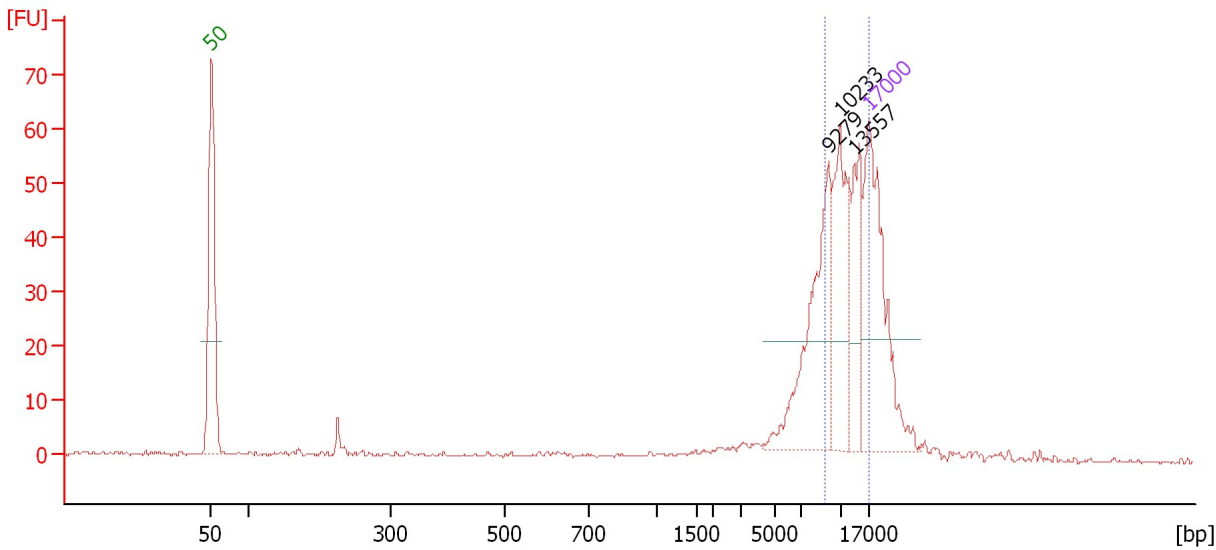
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	Col Size distribution in CV or [%]	% of Total
6,875	13,233	9,129	7.59	106.4	16.3	55

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
 Modified: 1/29/2014 3:51:06 PM

Electropherogram Summary Continued ...

PspLCN 13 gTube 1/29



Overall Results for sample 4 : PspLCN 13 gTube 1/29

Number of peaks found: 3 Area 1: 134.7

Peak table for sample 4 : PspLCN 13 gTube 1/29

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	9,279	3.54	0.6	
3	10,233	2.95	0.4	
4	13,557	1.71	0.2	
5	17,000	4.20	0.4	Upper Marker

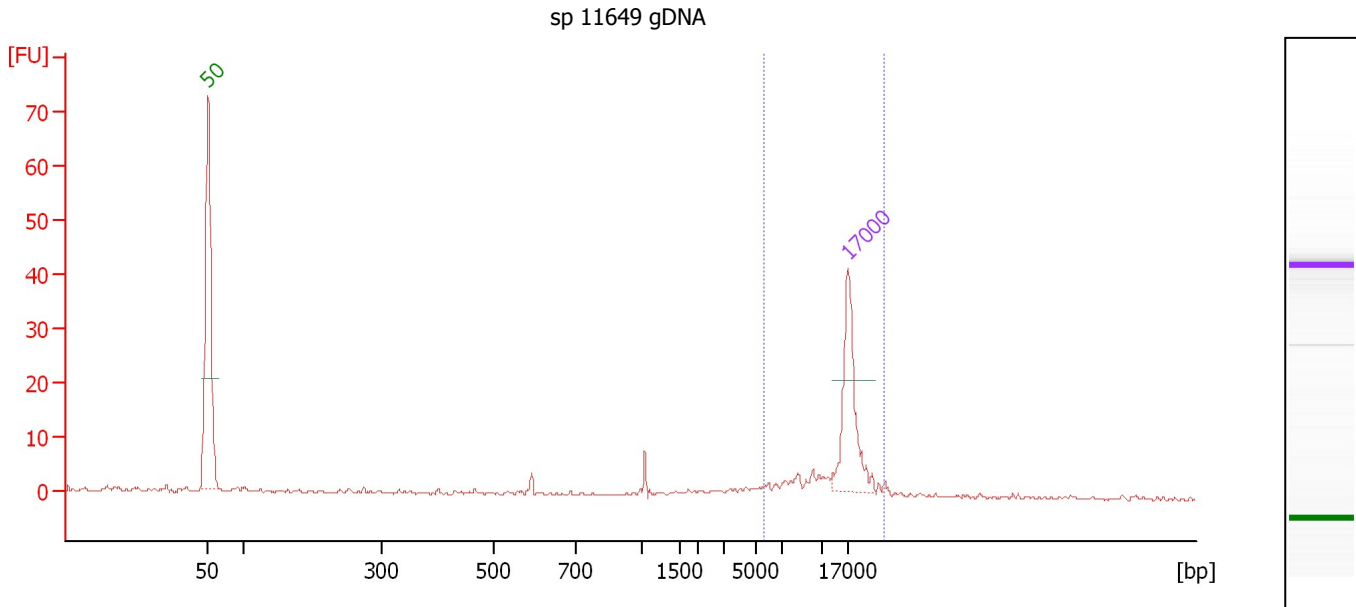
Region table for sample 4 : PspLCN 13 gTube 1/29

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	Col Size distribution in CV or [%]	% of Total
8,967	17,245	12,117	5.66	134.7	21.0	57

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
 Modified: 1/29/2014 3:51:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sp 11649 gDNA

Number of peaks found: 0 Area 1: 14.5

Peak table for sample 5 : sp 11649 gDNA

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

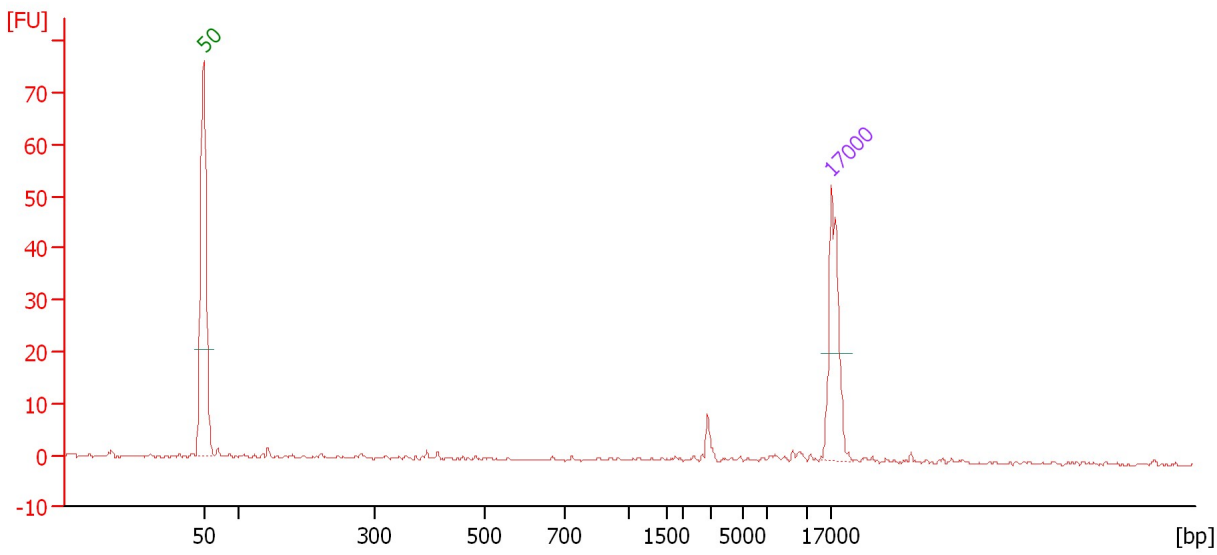
Region table for sample 5 : sp 11649 gDNA

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	Col Size distribution in CV or [%]	% of Total
5,497	26,656	15,692	1.64	14.5	28.9	38

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
Modified: 1/29/2014 3:51:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 :

Number of peaks found: 0

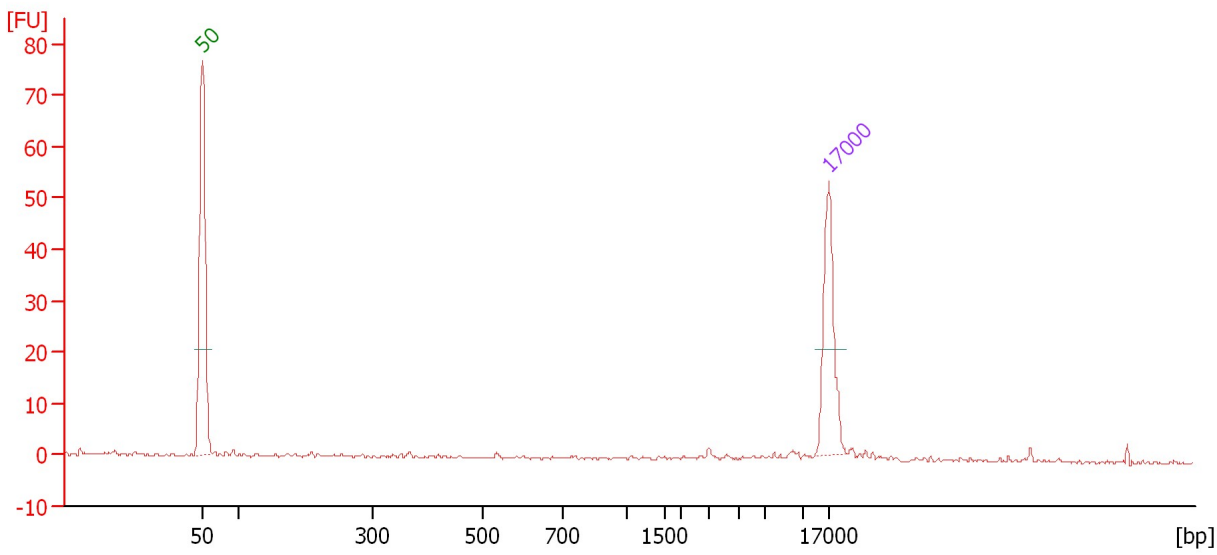
Peak table for sample 6 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
 Modified: 1/29/2014 3:51:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 :

Number of peaks found: 0

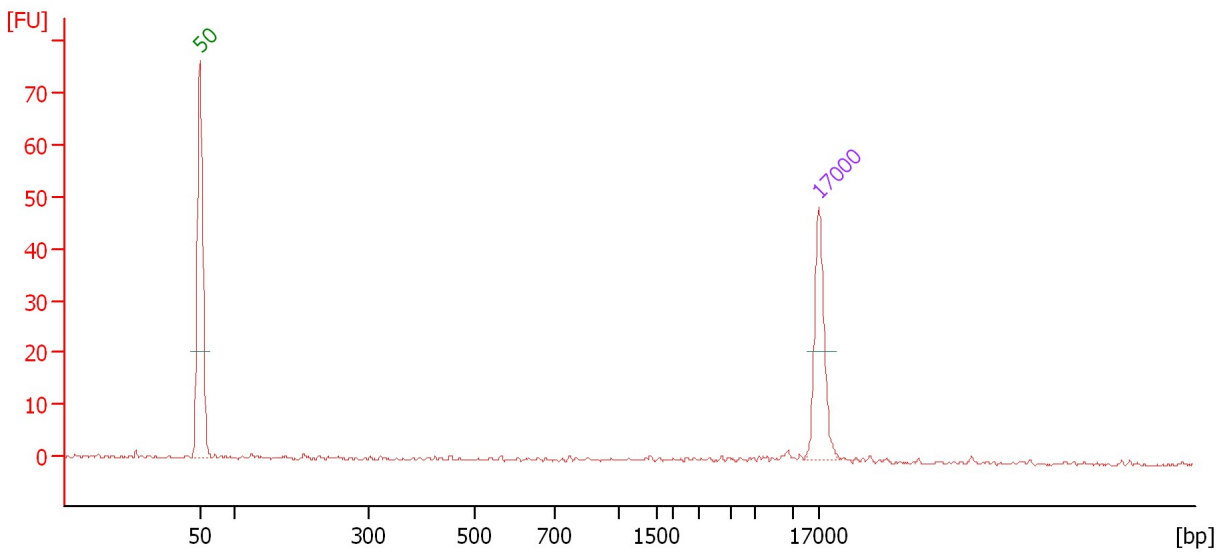
Peak table for sample 7 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
Modified: 1/29/2014 3:51:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 :

Number of peaks found: 0

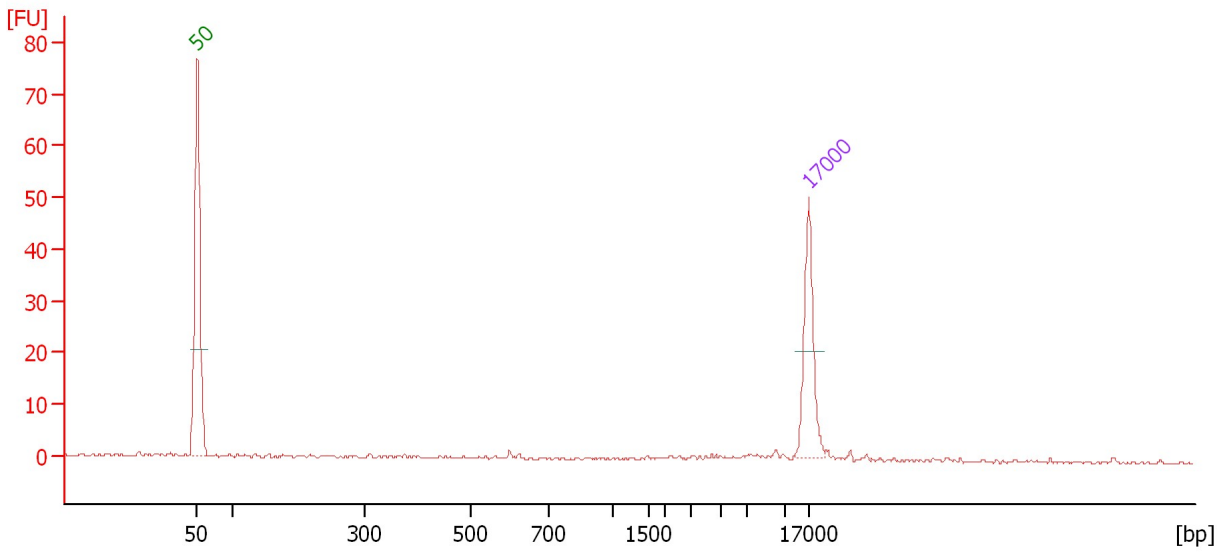
Peak table for sample 8 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
Modified: 1/29/2014 3:51:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 :

Number of peaks found: 0

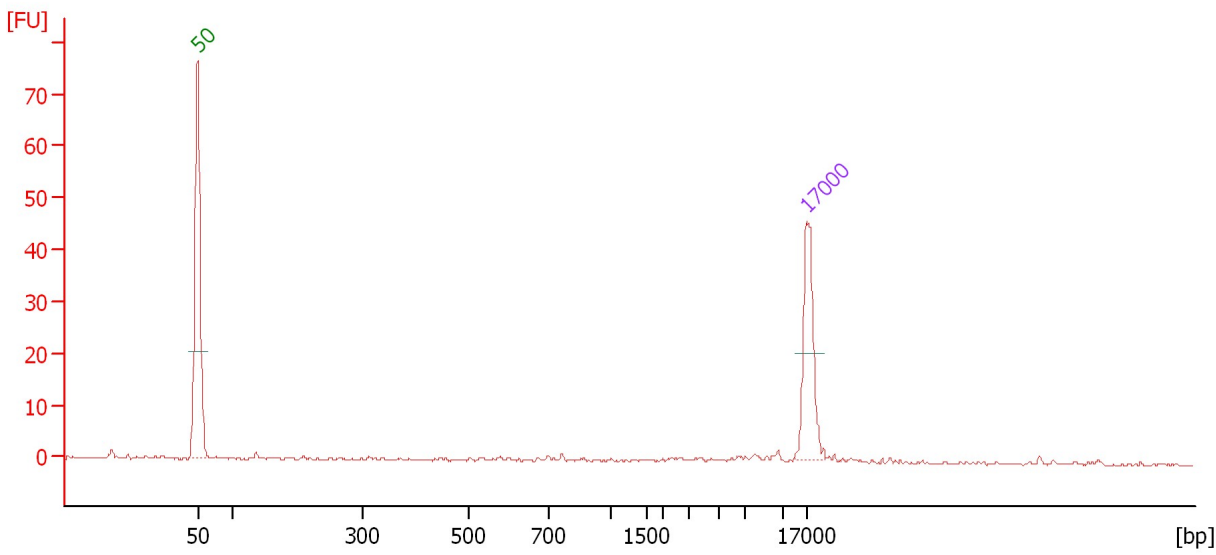
Peak table for sample 9 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
 Modified: 1/29/2014 3:51:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 :

Number of peaks found: 0

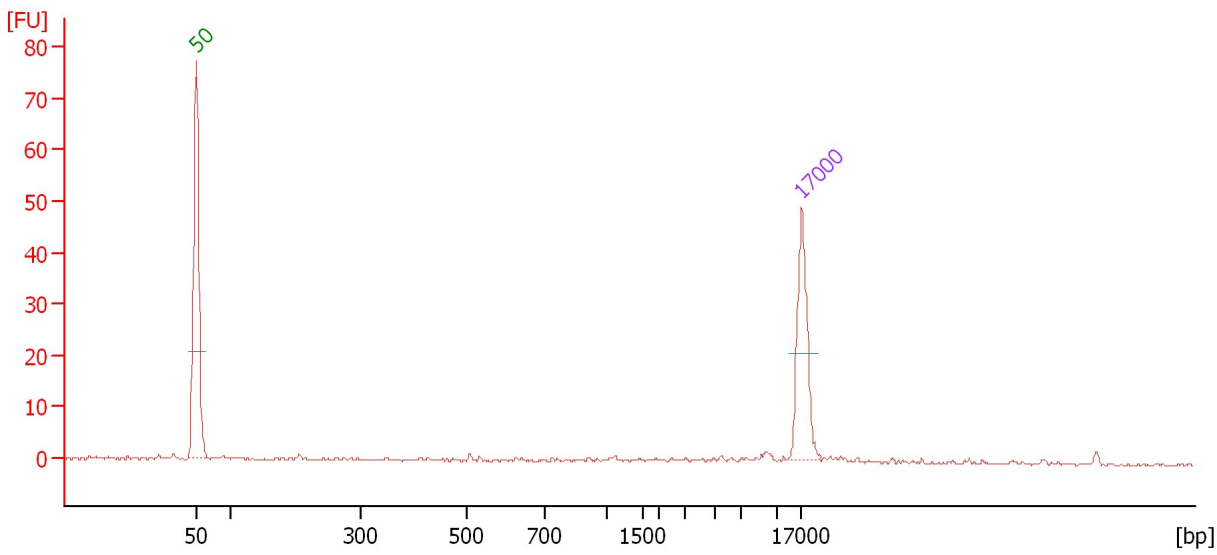
Peak table for sample 10 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
Modified: 1/29/2014 3:51:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 :

Number of peaks found: 0

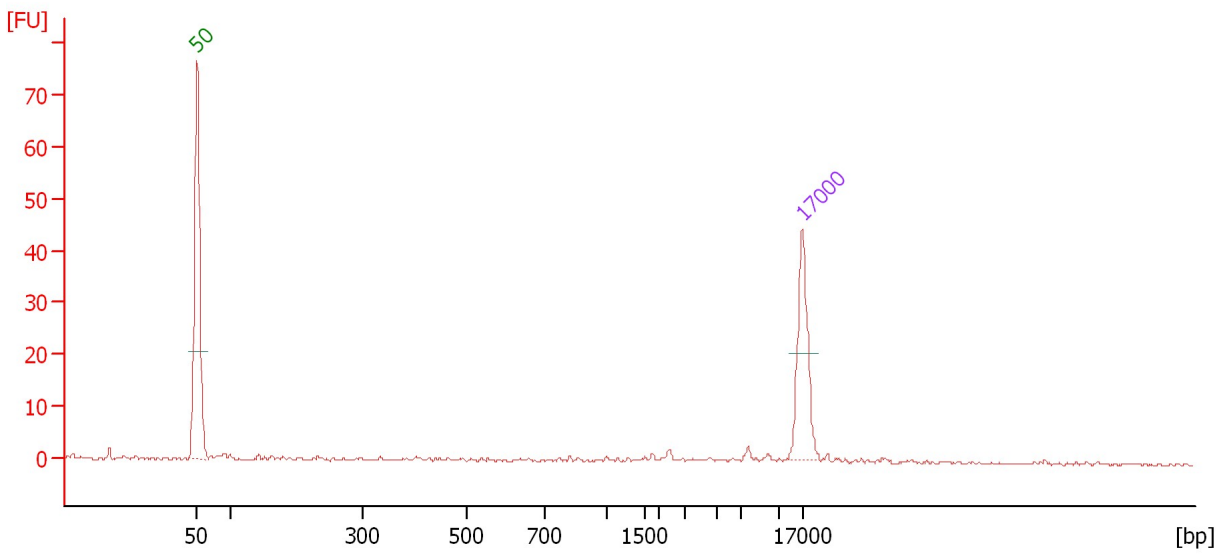
Peak table for sample 11 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
Modified: 1/29/2014 3:51:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 :

Number of peaks found: 0

Peak table for sample 12 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-29\2014-01-29_003.xad

Created: 1/29/2014 3:11:05 PM
Modified: 1/29/2014 3:51:06 PM

Gel Image

