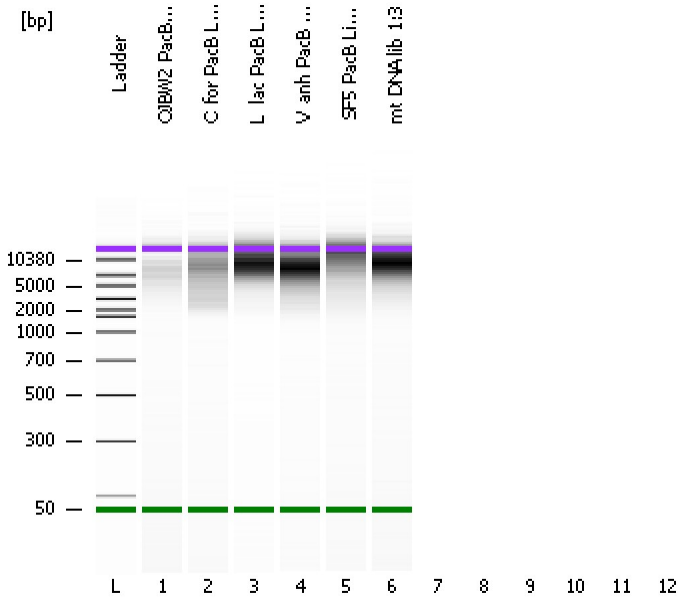


Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-23\2013-01-23_004.xad

Created: 1/23/2013 4:24:42 PM
 Modified: 1/23/2013 4:49:21 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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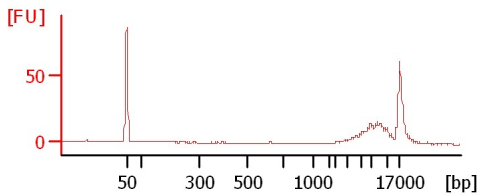
Chip Information:

Chip Lot #:

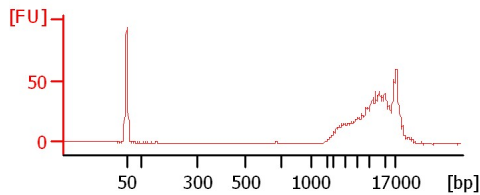
Reagent Kit Lot #:

Chip Comments:

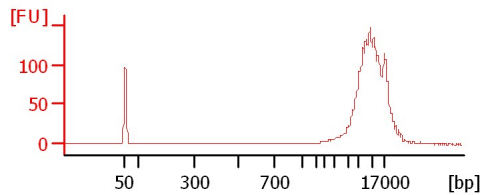
OJBW2 PacB Lib 1:3 (1/23/13)



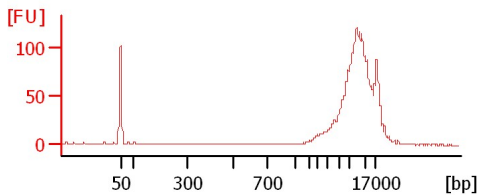
C_for PacB Lib 1:3 (1/23/13)



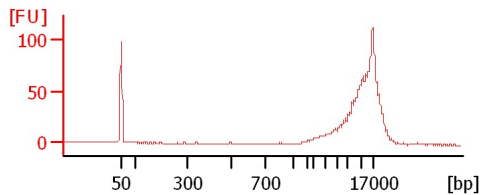
L_lac PacB Lib 1:3 (1/23/13)



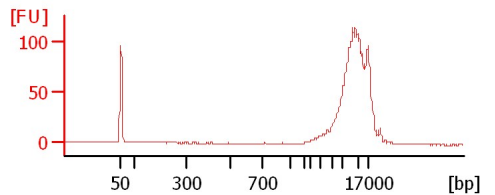
V_anh PacB Lib 1:3 (1/23/13)



SF5 PacB Lib 1:3



mt DNA lib 1:3



Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-23\2013-01-23_004.xad

Created: 1/23/2013 4:24:42 PM
 Modified: 1/23/2013 4:49:21 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
OJBW2 PacB Lib 1:3 (1/23/13)		<input type="checkbox"/>	✓			
C_for PacB Lib 1:3 (1/23/13)		<input type="checkbox"/>	✓			
L_lac PacB Lib 1:3 (1/23/13)		<input type="checkbox"/>	✓			
V_anh PacB Lib 1:3 (1/23/13)		<input type="checkbox"/>	✓			
SF5 PacB Lib 1:3		<input type="checkbox"/>	✓			
mt DNA lib 1:3		<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\2013-01-23\2013-01-23_004.xad

Created: 1/23/2013 4:24:42 PM
Modified: 1/23/2013 4:49:21 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

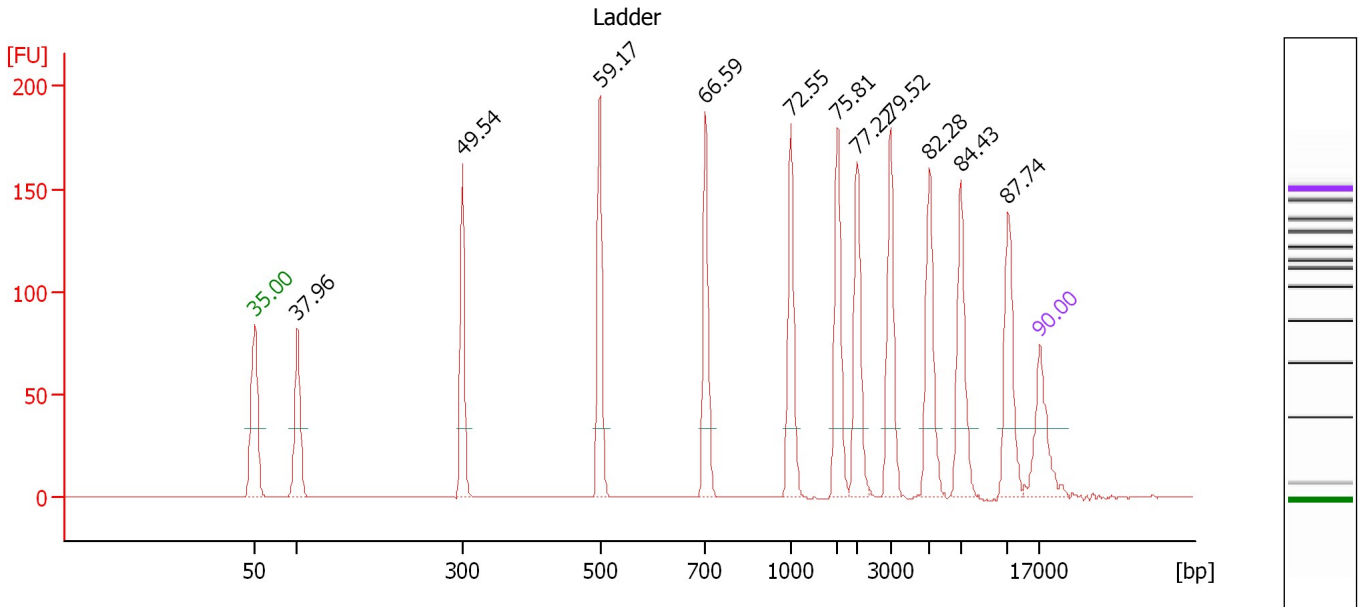
Ladder

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\2013-01-23\2013-01-23_004.xad

Created: 1/23/2013 4:24:42 PM
 Modified: 1/23/2013 4:49:21 PM

Electropherogram Summary



Peak table for Ladder

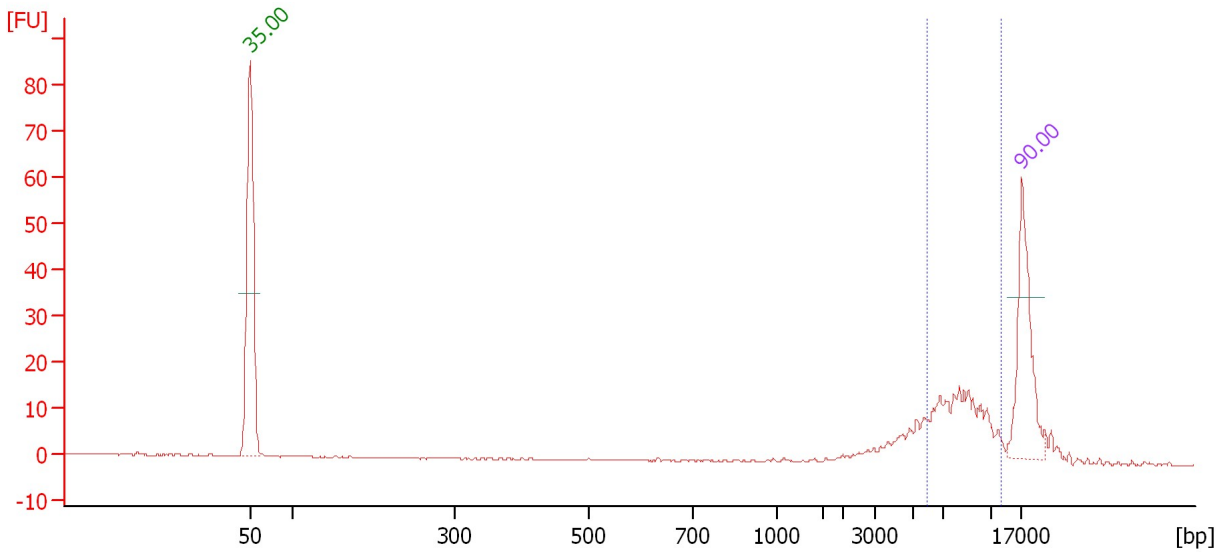
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	100	4.00	60.6	Ladder Peak
3	300	4.00	20.2	Ladder Peak
4	500	4.00	12.1	Ladder Peak
5	700	4.00	8.7	Ladder Peak
6	1,000	4.00	6.1	Ladder Peak
7	1,500	4.00	4.0	Ladder Peak
8	2,000	4.00	3.0	Ladder Peak
9	3,000	4.00	2.0	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\2013-01-23\2013-01-23_004.xad

Created: 1/23/2013 4:24:42 PM
 Modified: 1/23/2013 4:49:21 PM

Electropherogram Summary Continued ...

OJBW2 PacB Lib 1:3 (1/23/13)



Overall Results for sample 1 : OJBW2 PacB Lib 1:3 (1/23/13)

Number of peaks found: 0 Area 1: 61.6

Peak table for sample 1 : OJBW2 PacB Lib 1:3 (1/23/13)

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 1 : OJBW2 PacB Lib 1:3 (1/23/13)

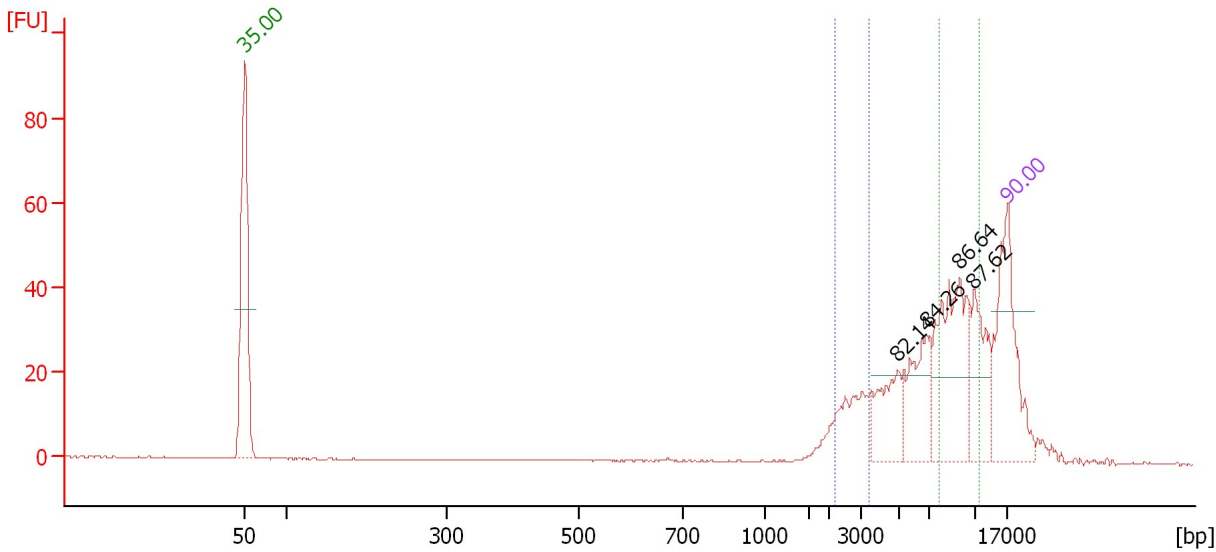
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
5,861	12,649	8,326	4.45	61.6	60	18.4	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-23\2013-01-23_004.xad

Created: 1/23/2013 4:24:42 PM
 Modified: 1/23/2013 4:49:21 PM

Electropherogram Summary Continued ...

C_for PacB Lib 1:3 (1/23/13)



Overall Results for sample 2 : C for PacB Lib 1:3 (1/23/13)

Number of peaks found: 4 Area 2: 106.3
 Area 1: 33.5

Peak table for sample 2 : C for PacB Lib 1:3 (1/23/13)

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	4,901	1.87	0.6	
3	6,840	2.25	0.5	
4	9,253	4.56	0.7	
5	10,256	2.40	0.4	
6	17,000	4.20	0.4	Upper Marker

Region table for sample 2 : C for PacB Lib 1:3 (1/23/13)

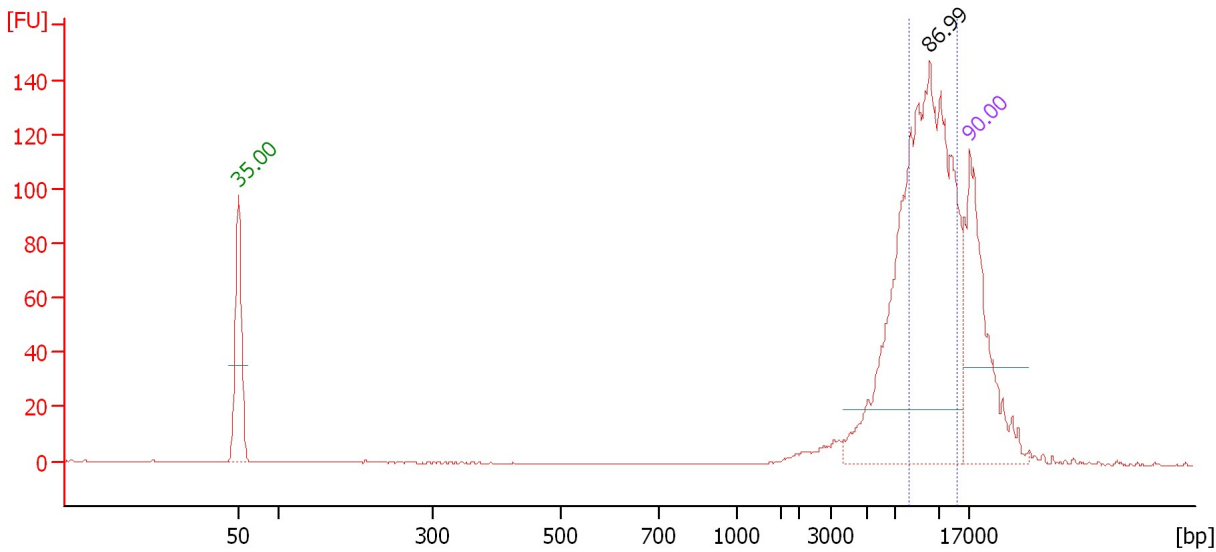
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
2,189	3,420	2,739	1.71	33.5	11	12.1	Blue
7,726	11,215	9,185	5.14	106.3	36	9.7	Green

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-23\2013-01-23_004.xad

Created: 1/23/2013 4:24:42 PM
 Modified: 1/23/2013 4:49:21 PM

Electropherogram Summary Continued ...

L_lac PacB Lib 1:3 (1/23/13)



Overall Results for sample 3 : L_lac PacB Lib 1:3 (1/23/13)

Number of peaks found: 1 Area: 421.5

Peak table for sample 3 : L_lac PacB Lib 1:3 (1/23/13)

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	9,606	14.38	2.3	
3	17,000	4.20	0.4	Upper Marker

Region table for sample 3 : L_lac PacB Lib 1:3 (1/23/13)

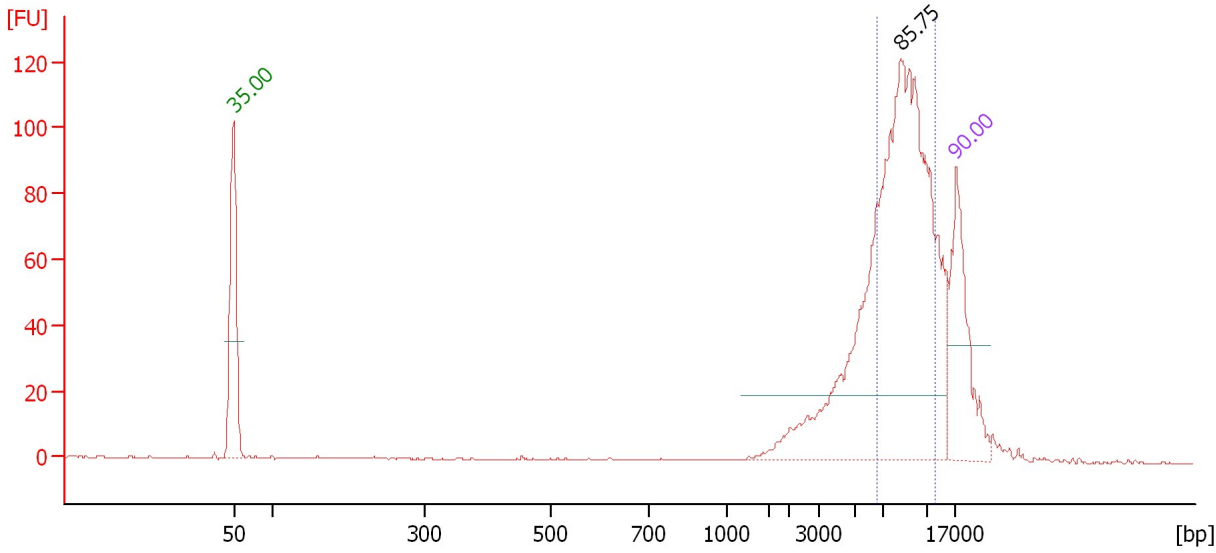
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
7,986	14,165	10,139	9.22	421.5	61	16.0	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-23\2013-01-23_004.xad

Created: 1/23/2013 4:24:42 PM
 Modified: 1/23/2013 4:49:21 PM

Electropherogram Summary Continued ...

V_anh PacB Lib 1:3 (1/23/13)



Overall Results for sample 4 : V_anh PacB Lib 1:3 (1/23/13)

Number of peaks found: 1 Area 1: 405.3

Peak table for sample 4 : V_anh PacB Lib 1:3 (1/23/13)

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	8,346	23.19	4.2	
3	17,000	4.20	0.4	Upper Marker

Region table for sample 4 : V_anh PacB Lib 1:3 (1/23/13)

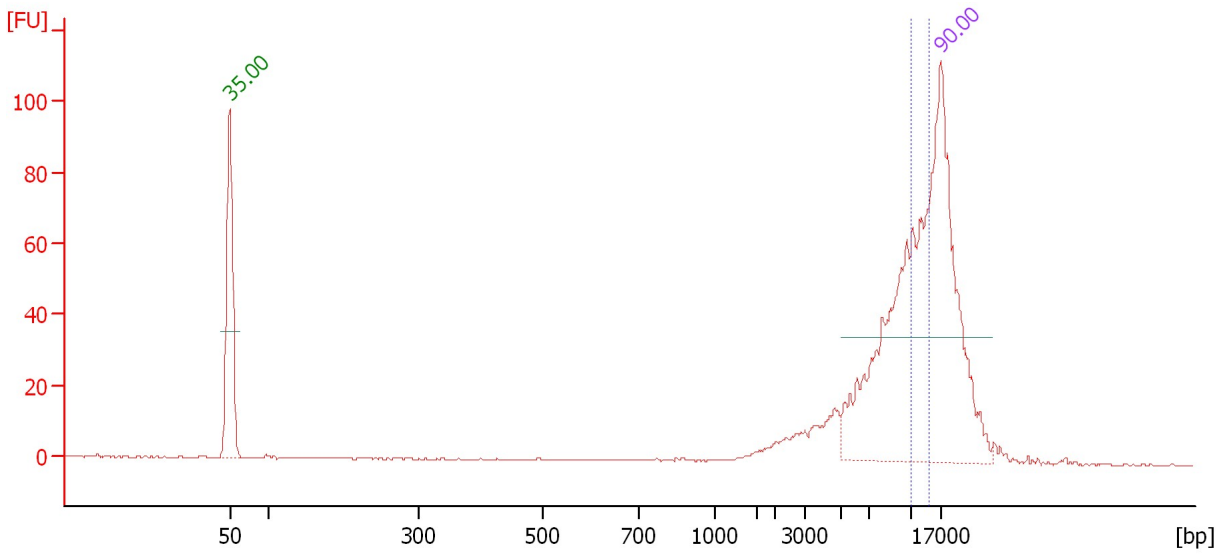
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
6,588	12,288	8,836	14.74	405.3	61	15.4	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-23\2013-01-23_004.xad

Created: 1/23/2013 4:24:42 PM
 Modified: 1/23/2013 4:49:21 PM

Electropherogram Summary Continued ...

SF5 PacB Lib 1:3



Overall Results for sample 5 : SF5 PacB Lib 1:3

Number of peaks found: 0 Area 1: 0.0

Peak table for sample 5 : SF5 PacB Lib 1:3

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

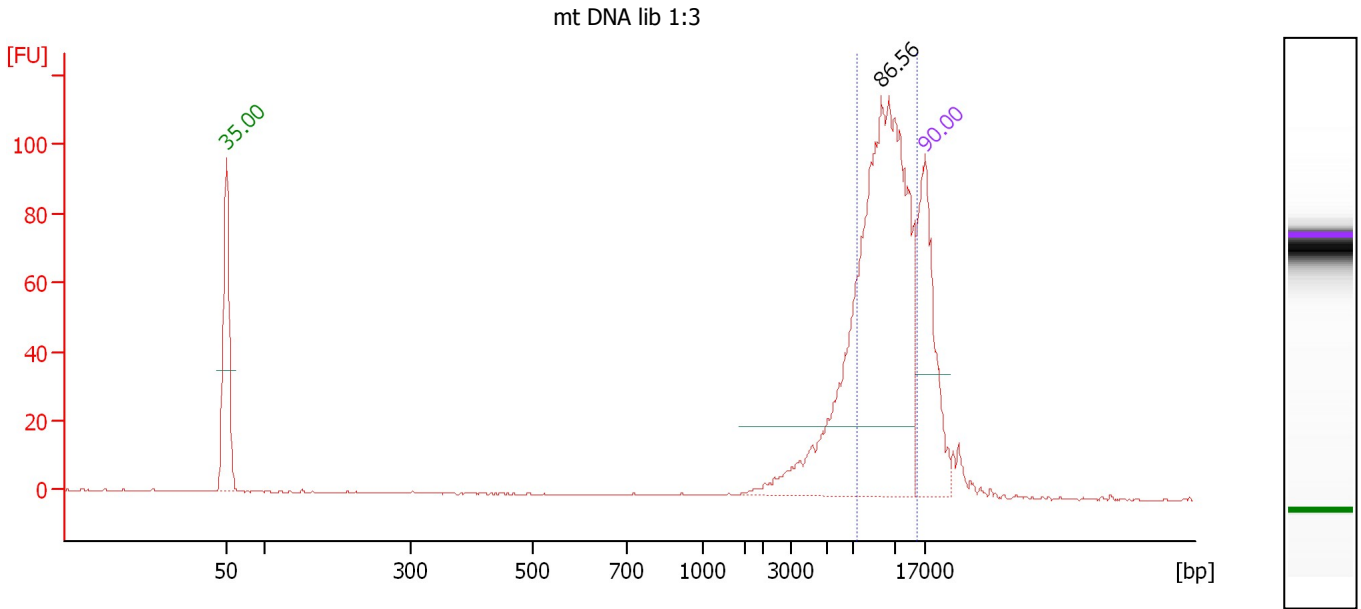
Region table for sample 5 : SF5 PacB Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
10,328	14,345	12,198	0.00	0.0	0	10.2	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-23\2013-01-23_004.xad

Created: 1/23/2013 4:24:42 PM
 Modified: 1/23/2013 4:49:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : mt DNA lib 1:3

Number of peaks found: 1 Area 1: 392.1

Peak table for sample 6 : mt DNA lib 1:3

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	9,173	16.30	2.7	
3	17,000	4.20	0.4	Upper Marker

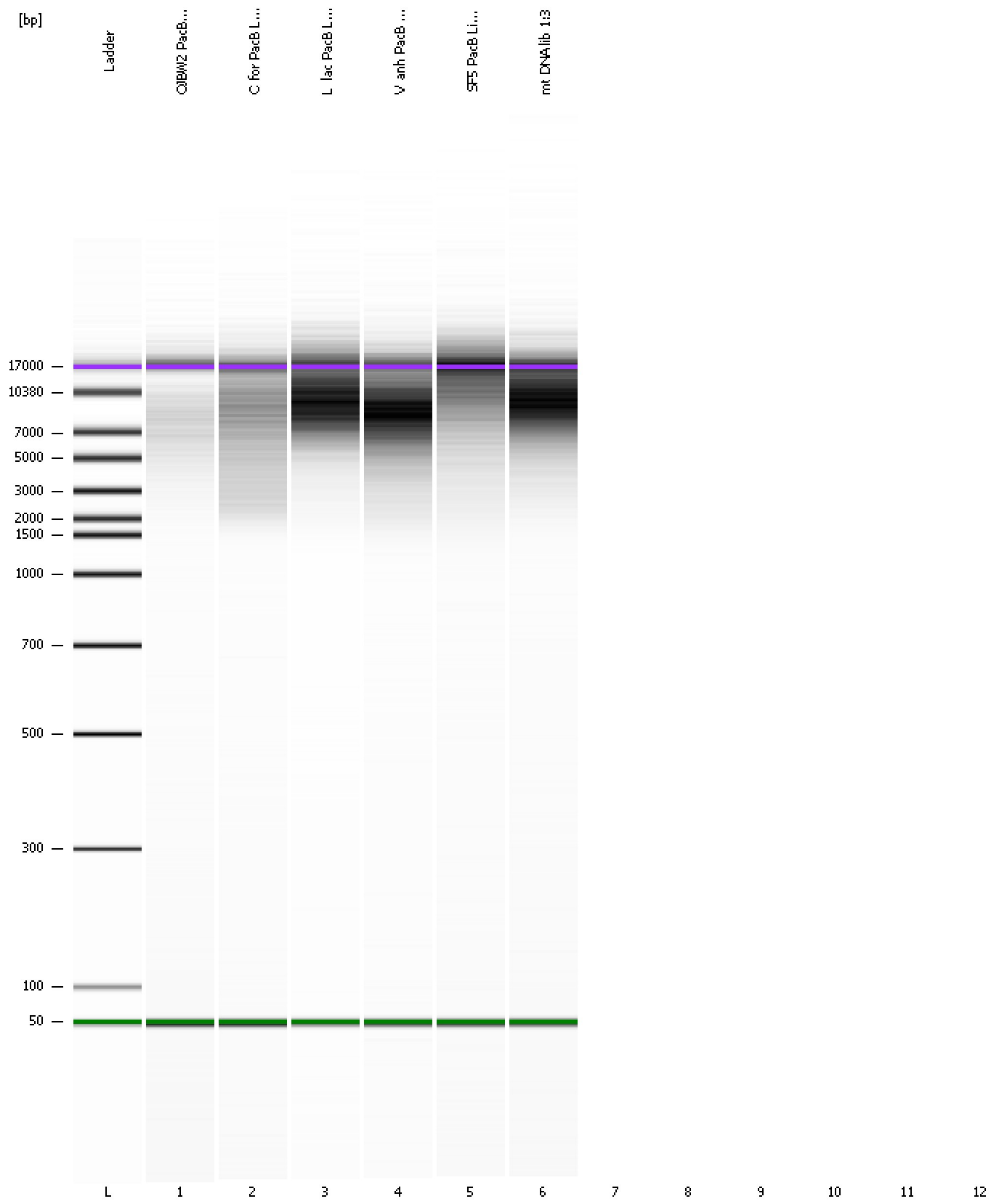
Region table for sample 6 : mt DNA lib 1:3

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
7,181	15,145	10,080	12.50	392.1	74	20.2	Blue

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-23\2013-01-23_004.xad

Created: 1/23/2013 4:24:42 PM
Modified: 1/23/2013 4:49:21 PM

Gel Image



Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-23\2013-01-23_004.xad

Created: 1/23/2013 4:24:42 PM
Modified: 1/23/2013 4:49:21 PM

Invalid Samples

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-23\2013-01-23_004.xad

Created: 1/23/2013 4:24:42 PM
 Modified: 1/23/2013 4:49:21 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		1/23/2013 4:46:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-01-23\2013-01-23_004.xad)		Instrument	Run		1/23/2013 4:24:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/23/2013 4:24:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/23/2013 4:24:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/23/2013 4:24:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/23/2013 4:24:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/23/2013 4:24:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/23/2013 4:24:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1