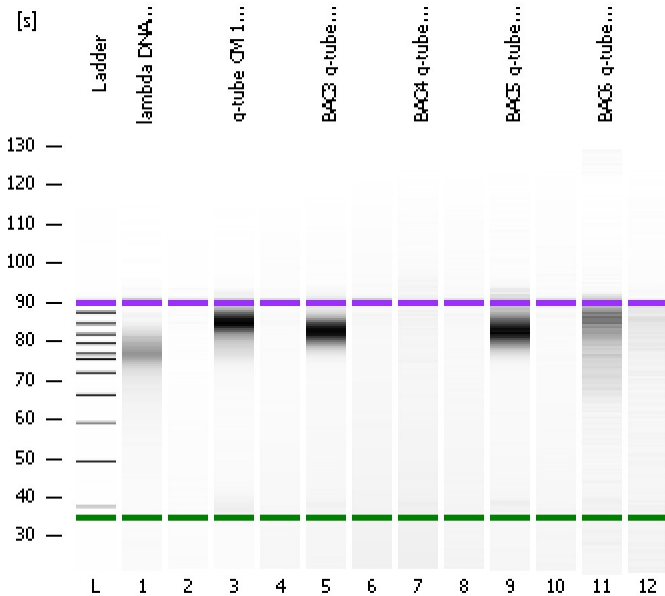


Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
Modified: 6/20/2012 12:50:47 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

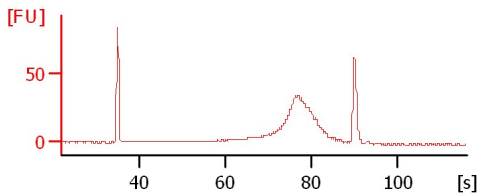
Assay Class: DNA 12000
Version: 2.4
Assay Comments: DNA Analysis 100 -12000 bp

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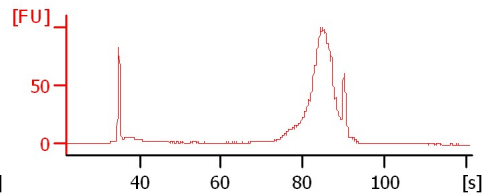
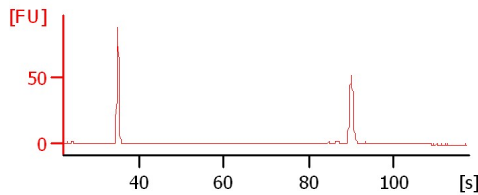
Chip Information:

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

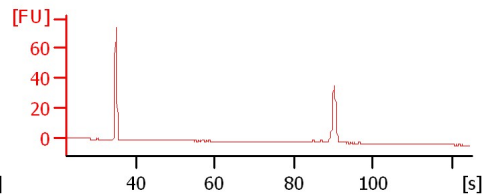
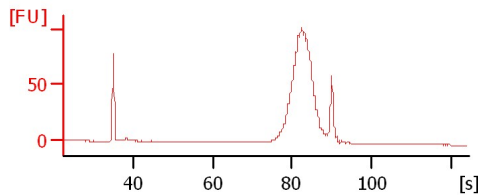
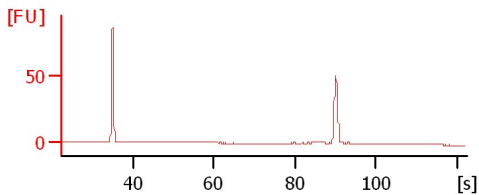
lambda DNA 2-3kb (6/19/12)



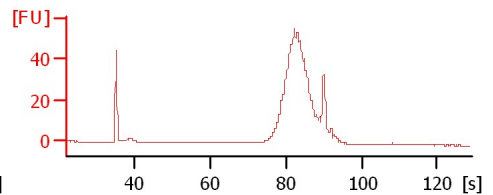
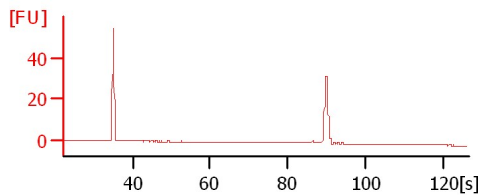
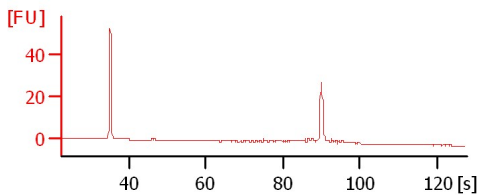
g-tube CM 1334 (6/19/12)



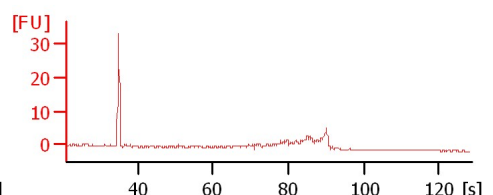
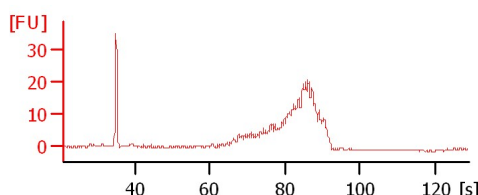
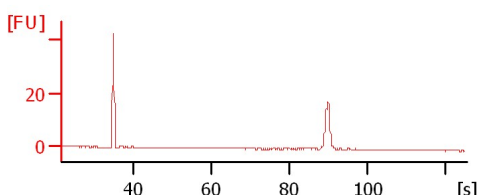
BAC3 g-tube (6/19/12)



BAC4 g-tube (6/19/12)



BAC5 g-tube (6/19/12)



BAC6 g-tube (6/19/12)

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
Modified: 6/20/2012 12:50:47 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
lambda DNA 2-3kb (6/19/12)		<input type="checkbox"/>	✓			
g-tube CM 1334 (6/19/12)		<input type="checkbox"/>	✓			
BAC3 g-tube (6/19/12)		<input type="checkbox"/>	✓			
BAC4 g-tube (6/19/12)		<input type="checkbox"/>	✓			
BAC5 g-tube (6/19/12)		<input type="checkbox"/>	✓			
BAC6 g-tube (6/19/12)		<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\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
Modified: 6/20/2012 12:50:47 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

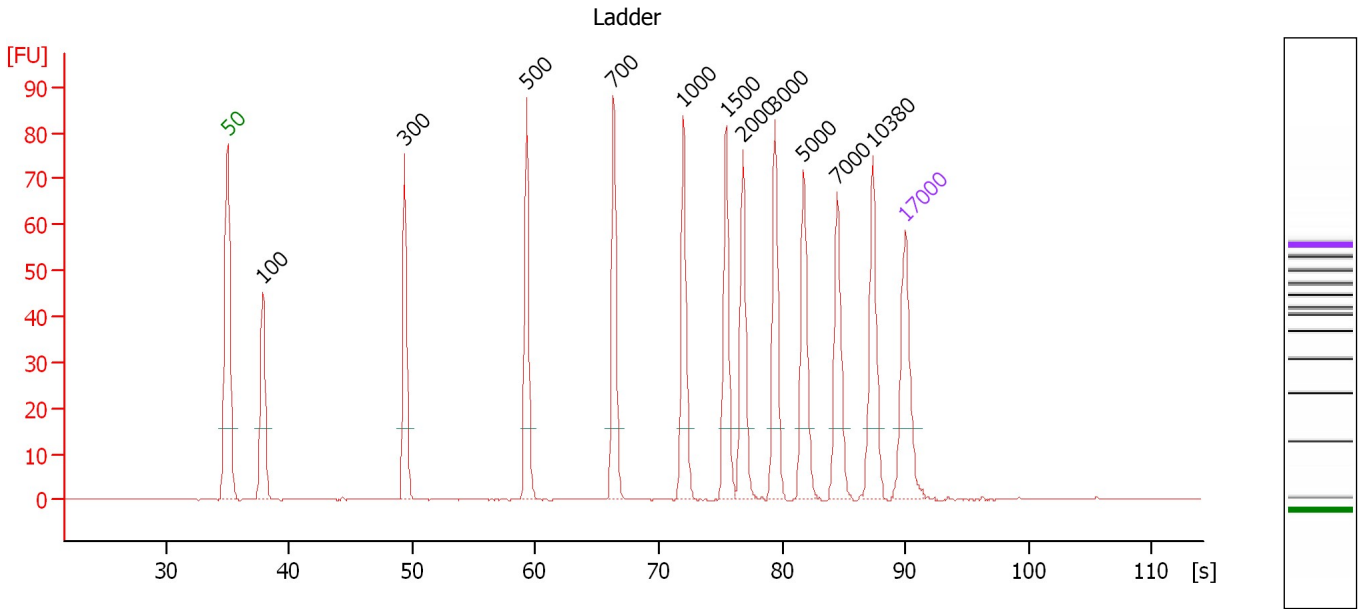
Ladder

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\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
 Modified: 6/20/2012 12:50:47 PM

Electropherogram Summary



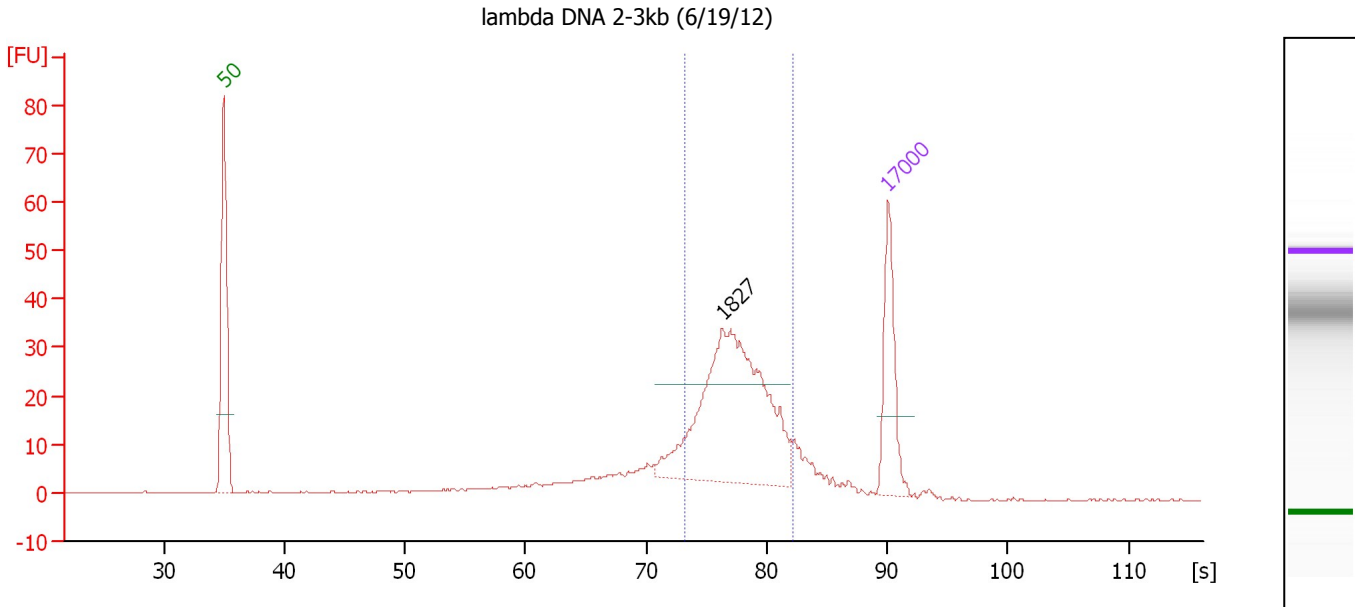
Peak table for Ladder

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\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
 Modified: 6/20/2012 12:50:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : lambda DNA 2-3kb (6/19/12)

Number of peaks found: 1 Area 1: 177.9

Peak table for sample 1 : lambda DNA 2-3kb (6/19/12)

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	1,827	15.50	12.9	
3	17,000	4.20	0.4	Upper Marker

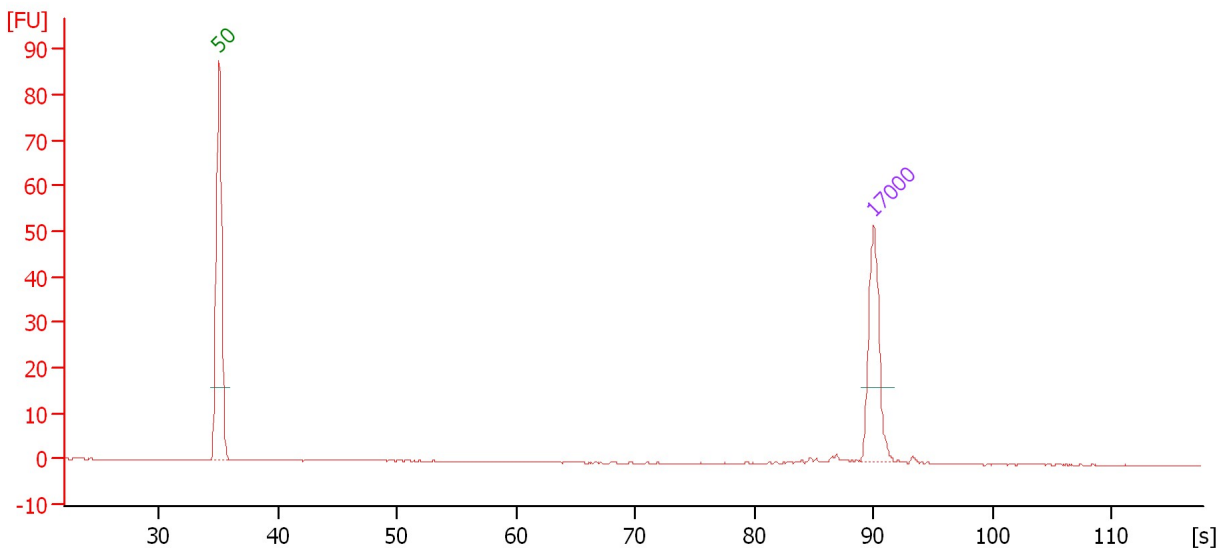
Region table for sample 1 : lambda DNA 2-3kb (6/19/12)

From [s]	To [s]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
73.13	82.18	2,458	16.40	177.9	65	41.4	Blue

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
Modified: 6/20/2012 12:50:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 :

Number of peaks found: 0

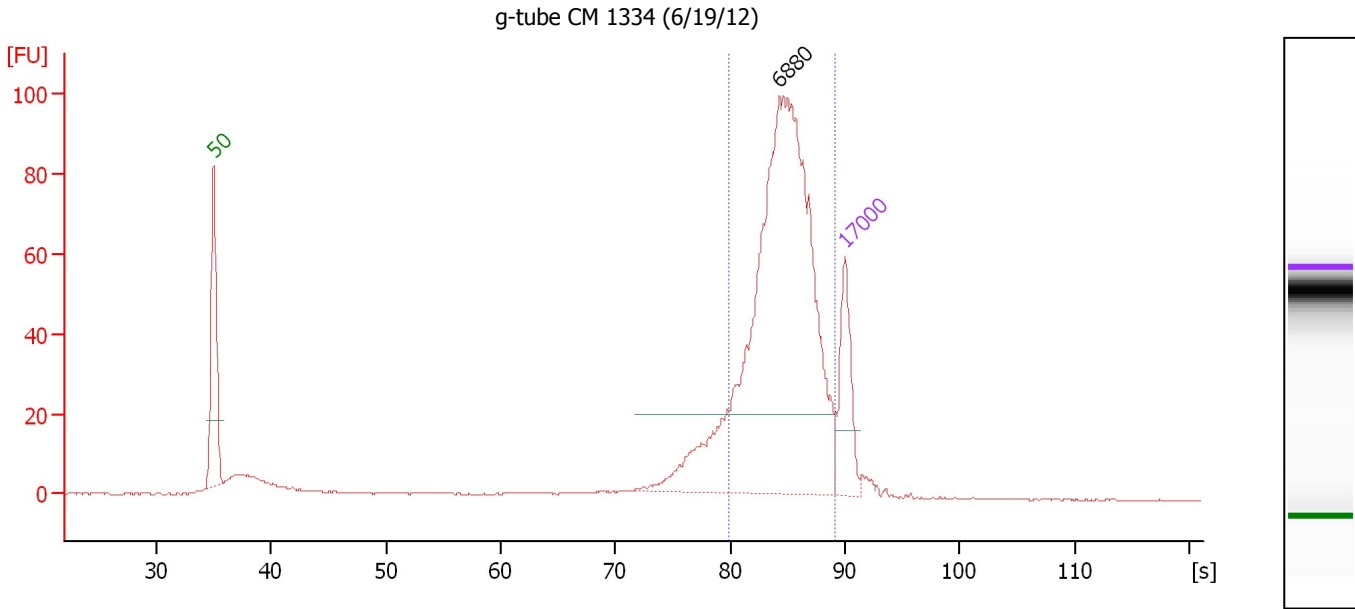
Peak table for sample 2 :

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\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
 Modified: 6/20/2012 12:50:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : g-tube CM 1334 (6/19/12)

Number of peaks found: 1 Area 1: 448.4

Peak table for sample 3 : g-tube CM 1334 (6/19/12)

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	6,880	39.89	8.8	
3	17,000	4.20	0.4	Upper Marker

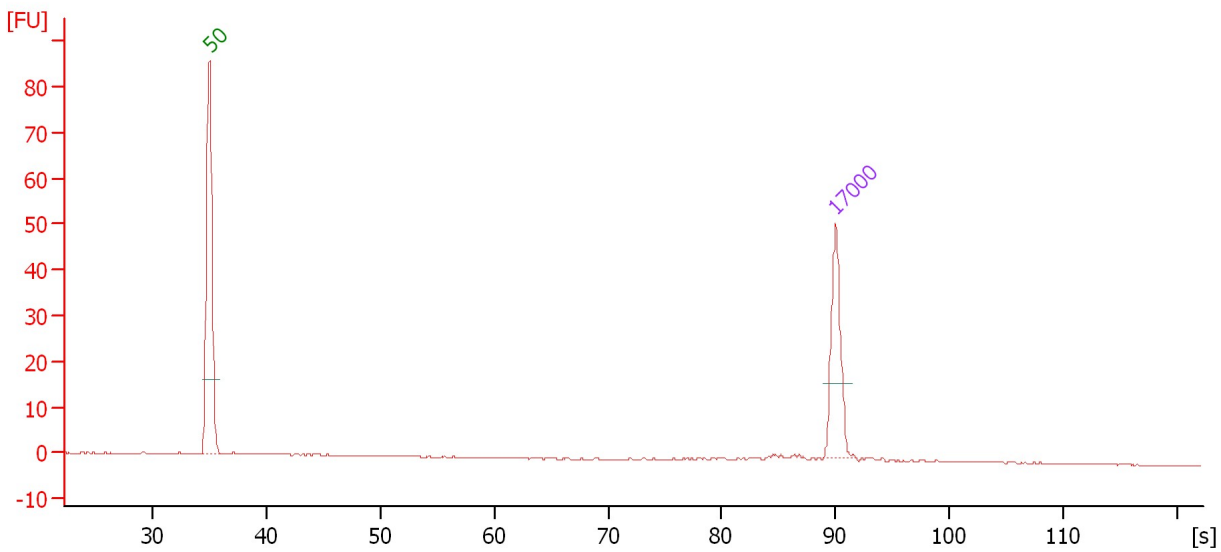
Region table for sample 3 : g-tube CM 1334 (6/19/12)

From [s]	To [s]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
79.83	89.14	7,633	36.07	448.4	80	29.9	Blue

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
Modified: 6/20/2012 12:50:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 :

Number of peaks found: 0

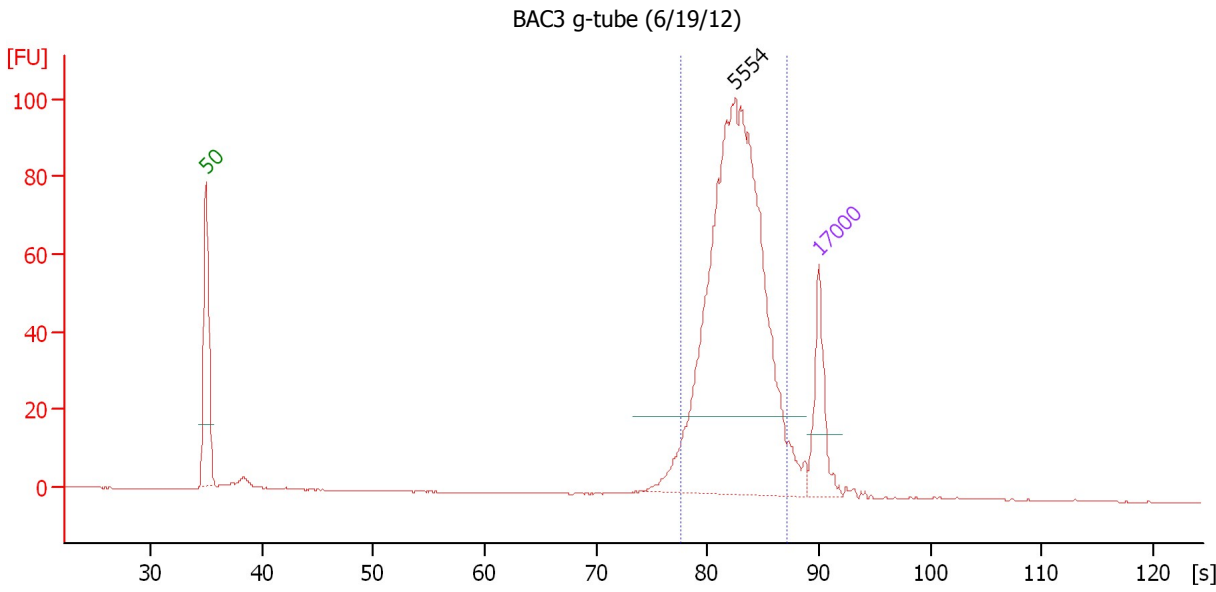
Peak table for sample 4 :

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\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
 Modified: 6/20/2012 12:50:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : BAC3 g-tube (6/19/12)

Number of peaks found: 1 Area 1: 443.9

Peak table for sample 5 : BAC3 g-tube (6/19/12)

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	5,554	43.60	11.9	
3	17,000	4.20	0.4	Upper Marker

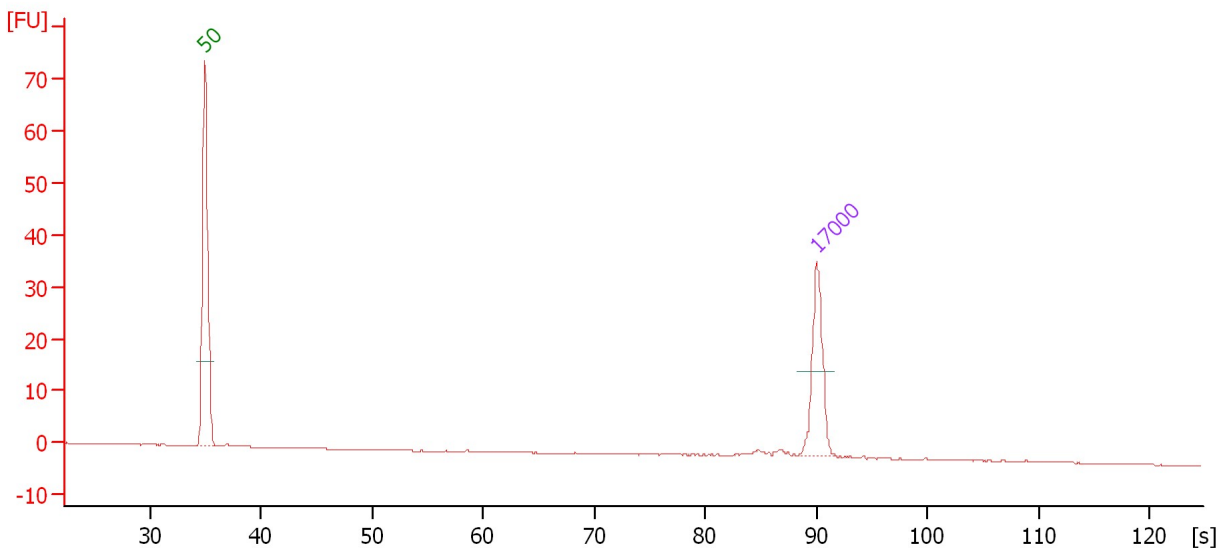
Region table for sample 5 : BAC3 g-tube (6/19/12)

From [s]	To [s]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
77.58	87.06	5,594	41.98	443.9	91	30.8	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
 Modified: 6/20/2012 12:50:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 :

Number of peaks found: 0

Peak table for sample 6 :

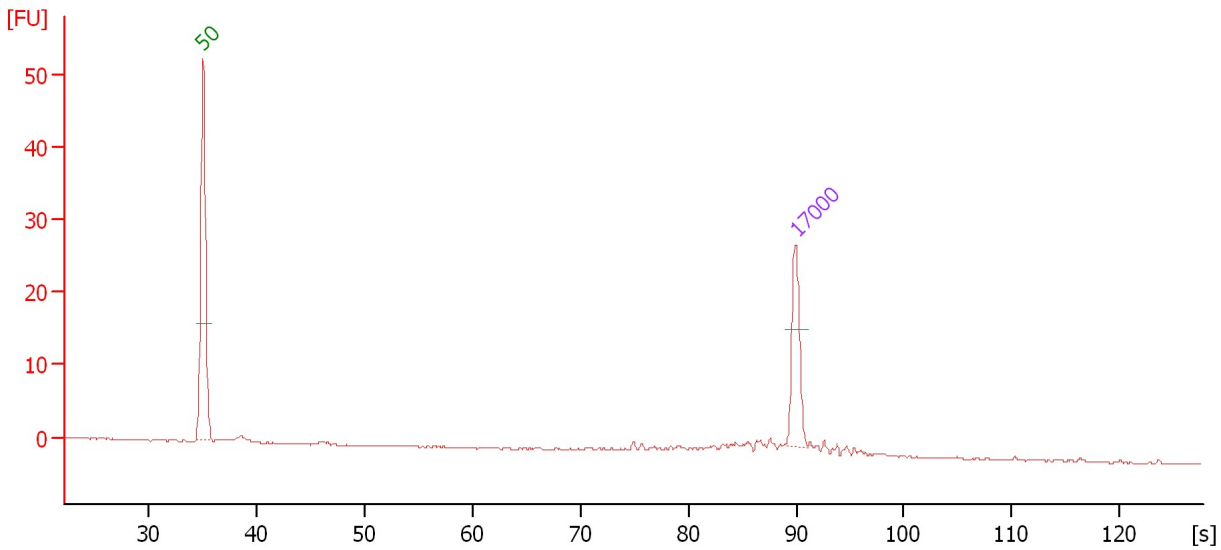
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
Modified: 6/20/2012 12:50:47 PM

Electropherogram Summary Continued ...

BAC4 g-tube (6/19/12)



Overall Results for sample 7 : BAC4 g-tube (6/19/12)

Number of peaks found: 0

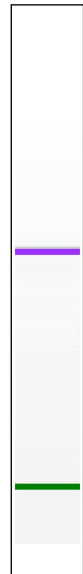
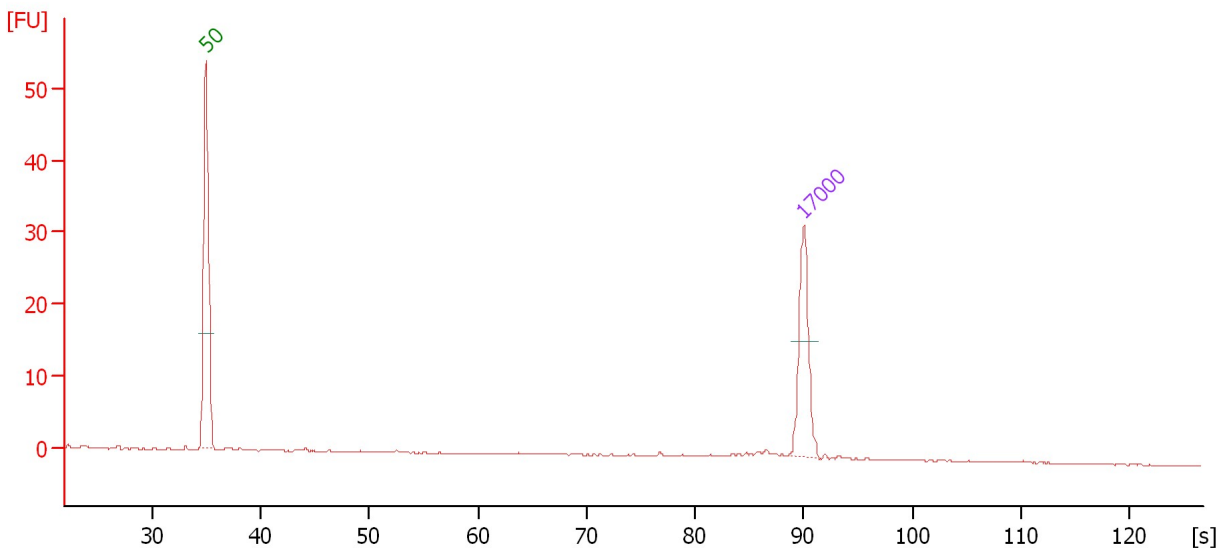
Peak table for sample 7 : BAC4 g-tube (6/19/12)

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\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
Modified: 6/20/2012 12:50:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 :

Number of peaks found: 0

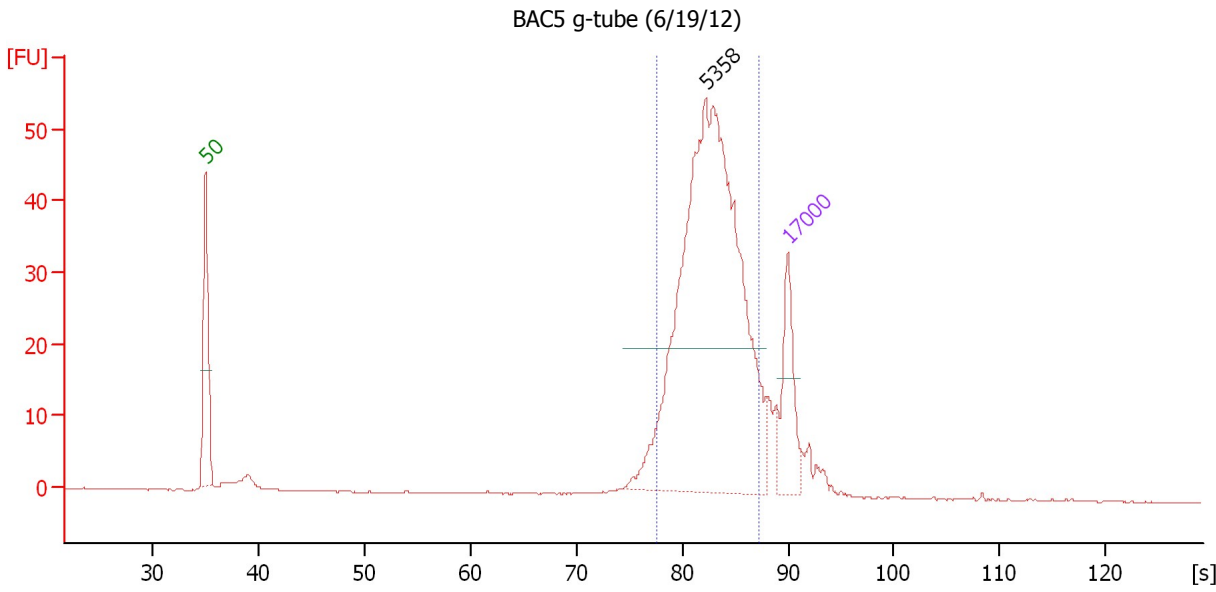
Peak table for sample 8 :

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\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
 Modified: 6/20/2012 12:50:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : BAC5 g-tube (6/19/12)

Number of peaks found: 1 Area 1: 251.7

Peak table for sample 9 : BAC5 g-tube (6/19/12)

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	5,358	38.88	11.0	
3	17,000	4.20	0.4	Upper Marker

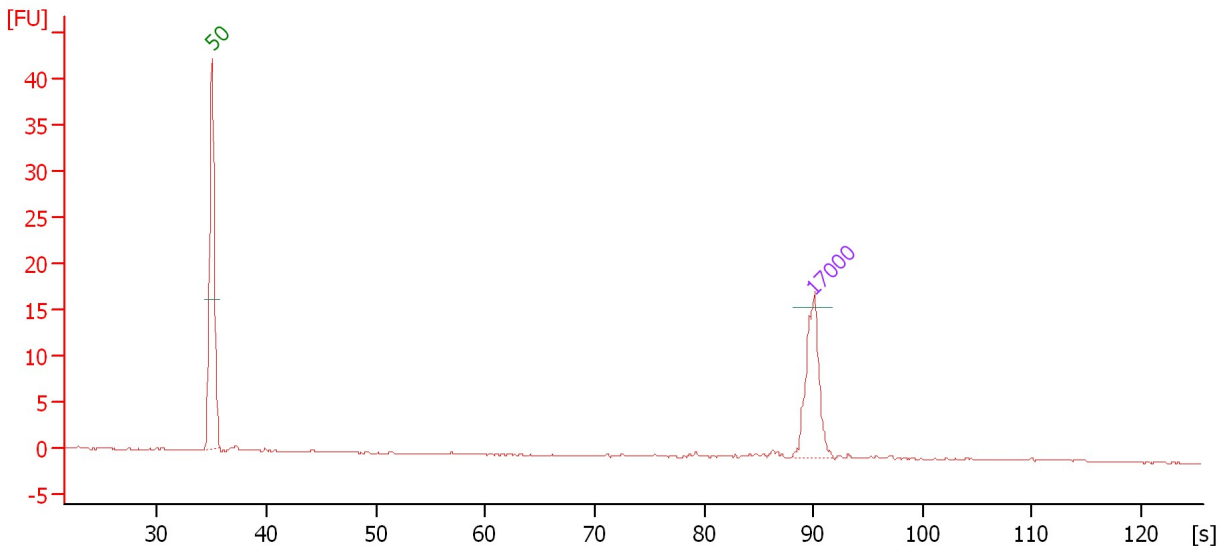
Region table for sample 9 : BAC5 g-tube (6/19/12)

From [s]	To [s]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
77.59	87.25	5,737	37.36	251.7	85	33.5	Blue

Assay Class: DNA 12000
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
Modified: 6/20/2012 12:50:47 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 :

Height Threshold [FU] : 2

Overall Results for sample 10 :

Number of peaks found: 0

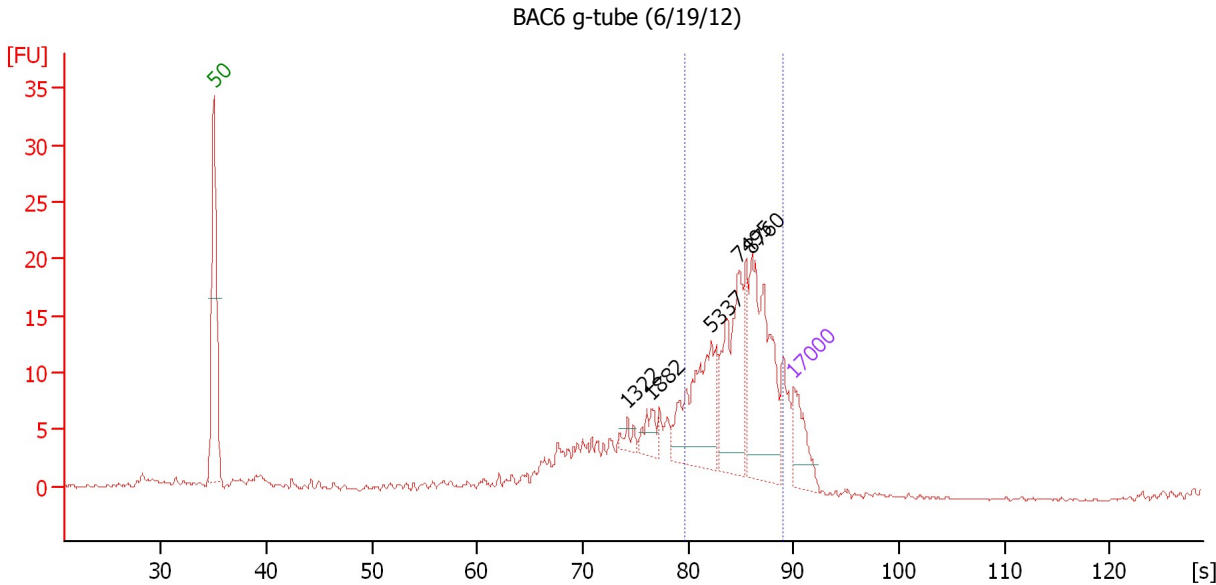
Peak table for sample 10 :

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\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
 Modified: 6/20/2012 12:50:47 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 11 : BAC6 g-tube (6/19/12)

Height Threshold [FU] : 2

Overall Results for sample 11 : BAC6 g-tube (6/19/12)

Number of peaks found: 5 Area 1: 92.8

Peak table for sample 11 : BAC6 g-tube (6/19/12)

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	1,322	1.13	1.3	
3	1,882	2.16	1.7	
4	5,337	12.01	3.4	
5	7,495	12.88	2.6	
6	8,760	17.34	3.0	
7	17,000	4.20	0.4	Upper Marker

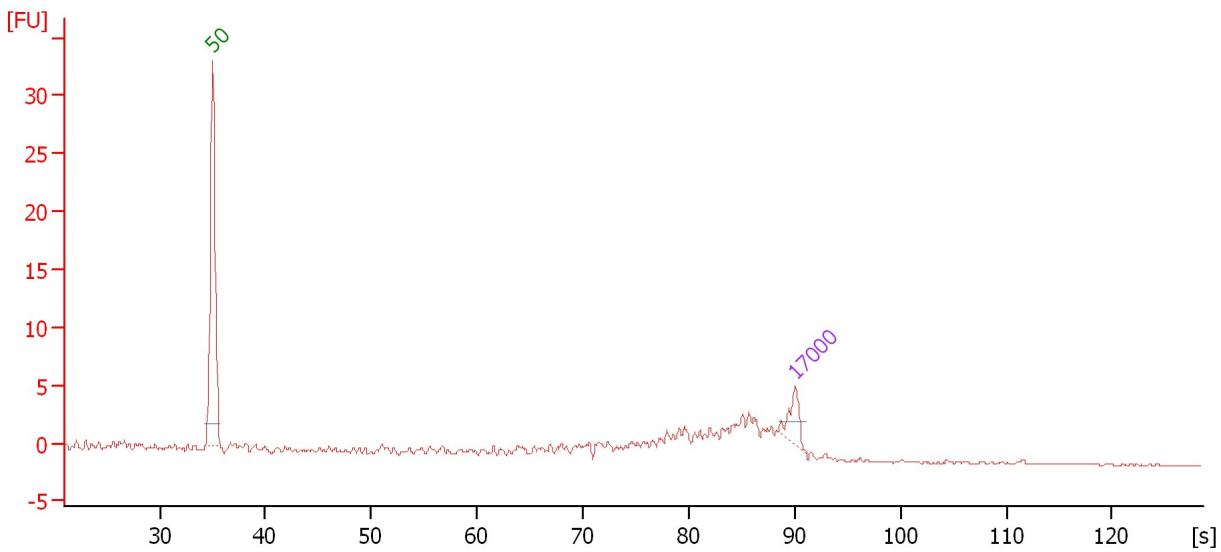
Region table for sample 11 : BAC6 g-tube (6/19/12)

From [s]	To [s]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
79.58	88.96	7,691	46.50	92.8	61	34.2	Blue

Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
 Modified: 6/20/2012 12:50:47 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 12 :

Height Threshold [FU] : 2

Overall Results for sample 12 :

Number of peaks found: 0

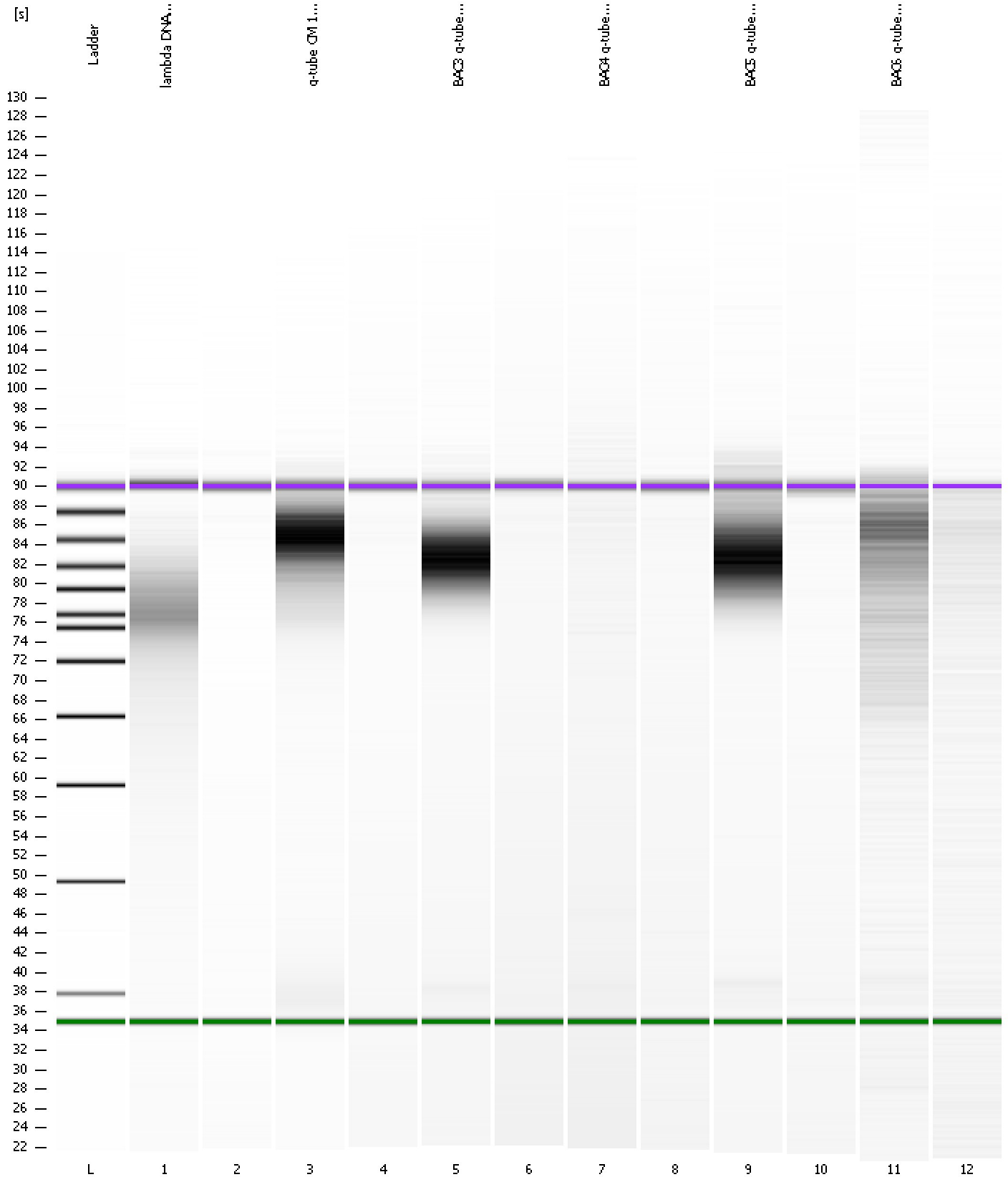
Peak table for sample 12 :

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\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
Modified: 6/20/2012 12:50:47 PM

Gel Image



Assay Class: DNA 12000
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-20\2012-06-20_001.xad

Created: 6/20/2012 9:21:08 AM
 Modified: 6/20/2012 12:50:47 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		6/20/2012 9:56:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-06-20\2012-06-20_001.xad)		Instrument	Run		6/20/2012 9:21:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/20/2012 9:21:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/20/2012 9:21:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/20/2012 9:21:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/20/2012 9:21:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/20/2012 9:21:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/20/2012 9:21:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1