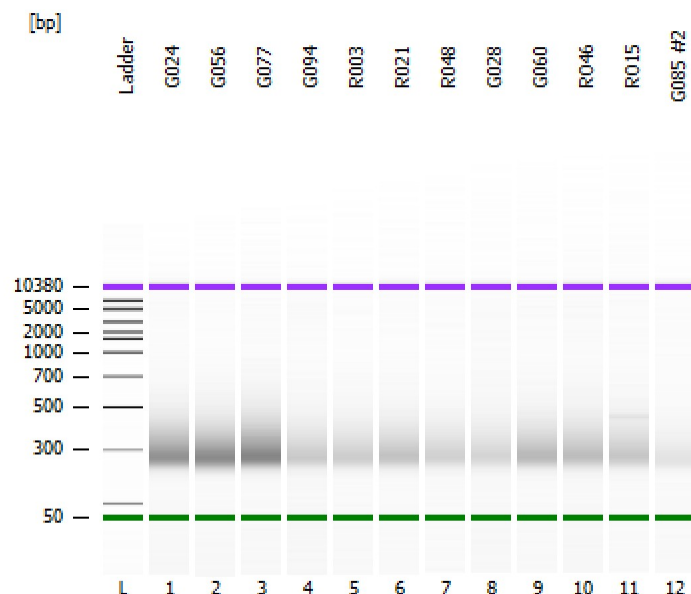


Assay Class: DNA 7500  
Data Path: C:\...-24\2100 expert\_DNA 7500\_DE13804163\_2016-05-24\_11-39-33.xad

Created: 5/24/2016 11:39:33 AM  
Modified: 5/24/2016 12:38:59 PM

**Electrophoresis File Run Summary**Instrument Information:

Instrument Name: DE13804163

Firmware: C.01.069

Serial#: DE13804163

Type: G2939A

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\DNA 7500 Series II.xsy

Assay Class: DNA 7500

Version: 2.3

Assay Comments: DNA Analysis 100 -7500 bp

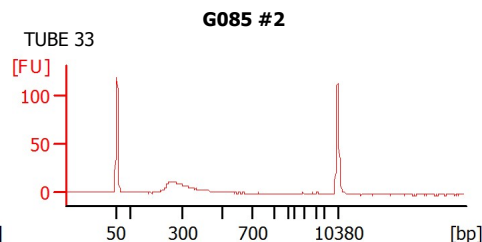
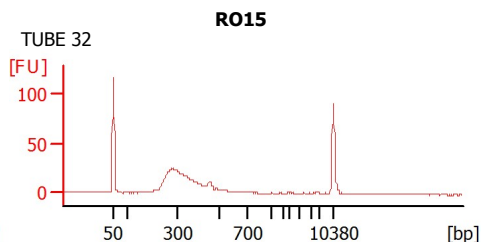
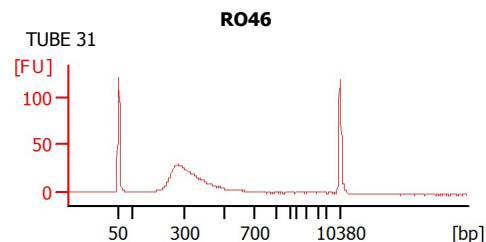
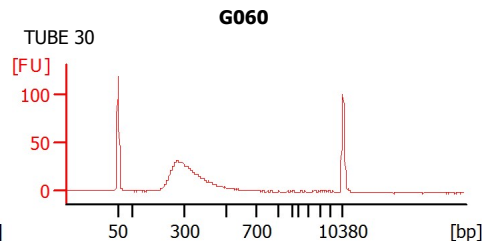
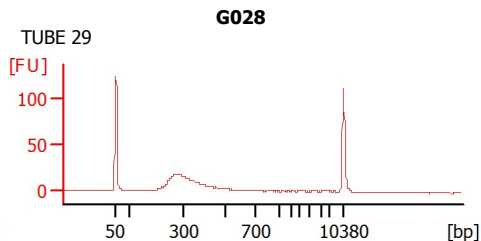
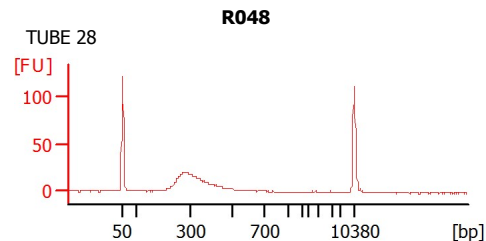
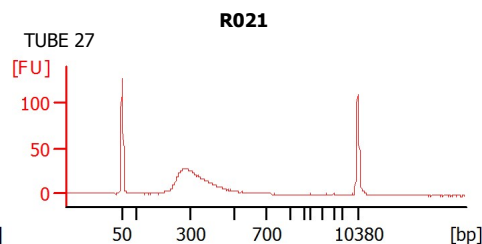
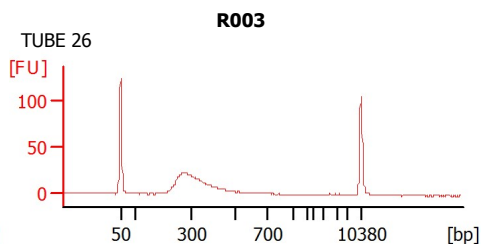
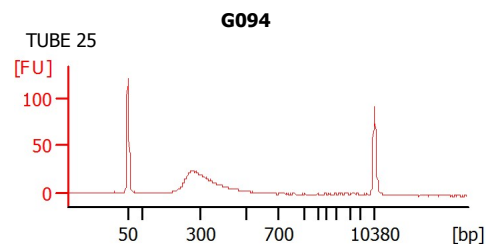
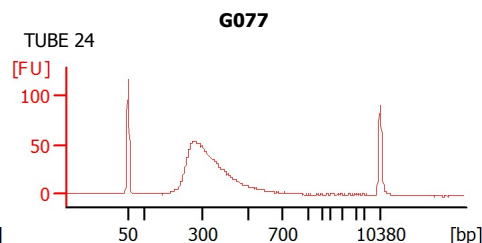
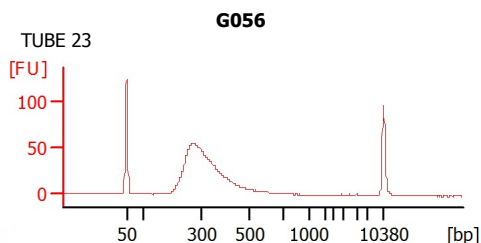
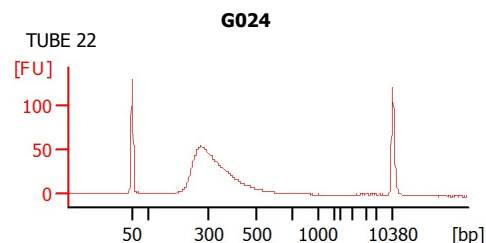
© Copyright 2003-2009 Agilent Technologies, Inc.

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: DNA 7500  
Data Path: C:\...-24\2100 expert\_DNA 7500\_DE13804163\_2016-05-24\_11-39-33.xad

Created: 5/24/2016 11:39:33 AM  
Modified: 5/24/2016 12:38:59 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
G024	TUBE 22	<input type="checkbox"/>	✓			
G056	TUBE 23	<input type="checkbox"/>	✓			
G077	TUBE 24	<input type="checkbox"/>	✓			
G094	TUBE 25	<input type="checkbox"/>	✓			
R003	TUBE 26	<input type="checkbox"/>	✓			
R021	TUBE 27	<input type="checkbox"/>	✓			
R048	TUBE 28	<input type="checkbox"/>	✓			
G028	TUBE 29	<input type="checkbox"/>	✓			
G060	TUBE 30	<input type="checkbox"/>	✓			
RO46	TUBE 31	<input type="checkbox"/>	✓			
RO15	TUBE 32	<input type="checkbox"/>	✓			
G085 #2	TUBE 33	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

Assay Class: DNA 7500  
Data Path: C:\...-24\2100 expert\_DNA 7500\_DE13804163\_2016-05-24\_11-39-33.xad

Created: 5/24/2016 11:39:33 AM  
Modified: 5/24/2016 12:38:59 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] : 94

Start Analysis Time Range [s] : 20

End Analysis Time Range [s] : 93.95

Ladder Concentration [ng/μl] : 40

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

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] : 93.95

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

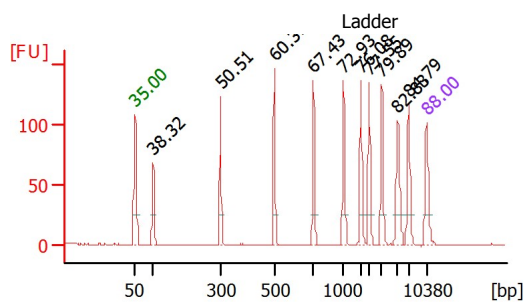
### Ladder

Ladder Peak	Size	Area
1	50	120
2	100	47
3	300	63
4	500	81
5	700	85
6	1000	93
7	1500	101
8	2000	101
9	3000	106
10	5000	108
11	7000	109
12	10380	107

Assay Class: DNA 7500  
 Data Path: C:\...-24\2100 expert\_DNA 7500\_DE13804163\_2016-05-24\_11-39-33.xad

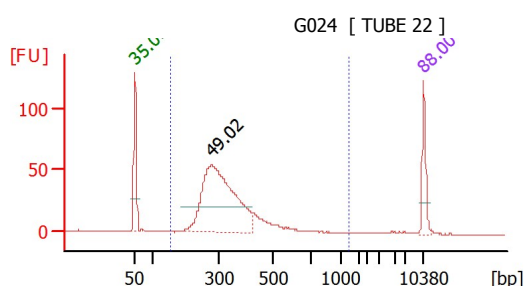
Created: 5/24/2016 11:39:33 AM  
 Modified: 5/24/2016 12:38:59 PM

### 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	4.20	0.6	Upper Marker



#### Peak table for sample 1 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	276	28.78	158.2	
3	10,380	4.20	0.6	Upper Marker

#### Overall Results for sample 1 : G024

Number of peaks found: 1  
 Area 1: 406.8

#### Region table for sample 1 : G024

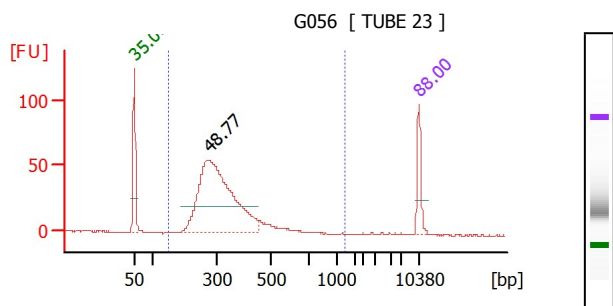
From [bp]	To [bp]	Area Total	% of Average	Size [bp]	Conc. [ng/μl]	Nam e	Molarity [nmol/l]
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150	1,200	406.8	96	341	30.4	31.44	Region 1 150.0
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Assay Class: DNA 7500  
 Data Path: C:\...-24\2100 expert\_DNA 7500\_DE13804163\_2016-05-24\_11-39-33.xad

Created: 5/24/2016 11:39:33 AM  
 Modified: 5/24/2016 12:38:59 PM

### Electropherogram Summary Continued ...



#### Peak table for sample 2 :

Peak	Size [bp]	Conc. [ng/μl]
1	50	8.30
2	271	37.18
3	10,380	4.20

#### G056

Molarity [nmol/l]  
251.5

#### Observations

Lower Marker

Upper Marker

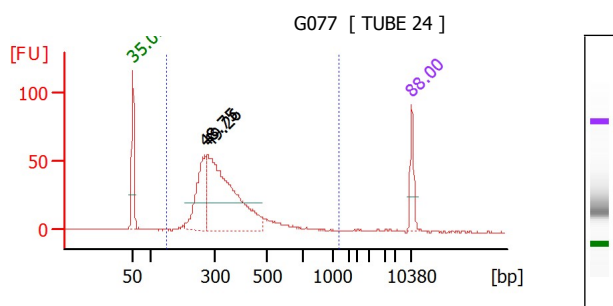
#### Overall Results for sample 2 : G056

Number of peaks found: 1  
 Area 1: 410.9

#### Region table for sample 2 : G056

From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
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150	1,200	410.9	95	335	30.8	39.03	Region 1	190.1
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#### Peak table for sample 3 :

Peak	Size [bp]	Conc. [ng/μl]
1	50	8.30
2	271	11.36
3	279	30.56
4	10,380	4.20

#### G077

Molarity [nmol/l]  
251.5

#### Observations

Lower Marker

Upper Marker

#### Overall Results for sample 3 : G077

Number of peaks found: 2  
 Area 1: 424.4

#### Region table for sample 3 : G077

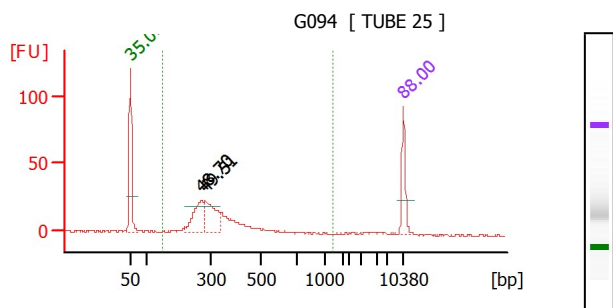
From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
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150	1,200	424.4	96	348	31.2	43.58	Region 1	205.2
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Assay Class: DNA 7500  
 Data Path: C:\...-24\2100 expert\_DNA 7500\_DE13804163\_2016-05-24\_11-39-33.xad

Created: 5/24/2016 11:39:33 AM  
 Modified: 5/24/2016 12:38:59 PM

### Electropherogram Summary Continued ...



#### Peak table for sample 4 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	270	5.19	29.1	
3	284	5.49	29.3	
4	10,380	4.20	0.6	Upper Marker

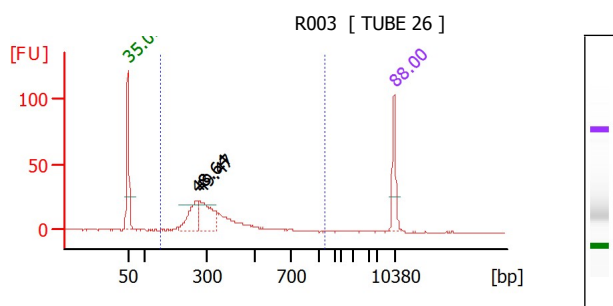
#### Overall Results for sample 4 : G094

Number of peaks found: 2  
 Area 1: 166.9

#### Region table for sample 4 : G094

From [bp]	To [bp]	Area Total	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	166.9	91	343	32.8	16.71	Region 1	80.1

150 1,200 166.9 91 343 32.8 16.71 Region 1 80.1



#### Peak table for sample 5 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	269	4.56	25.6	
3	283	5.57	29.8	
4	10,380	4.20	0.6	Upper Marker

#### Overall Results for sample 5 : R003

Number of peaks found: 2  
 Area 1: 159.4

#### Region table for sample 5 : R003

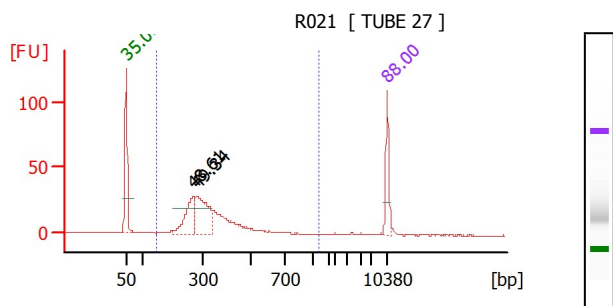
From [bp]	To [bp]	Area Total	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	159.4	95	343	31.0	15.55	Region 1	74.3

150 1,200 159.4 95 343 31.0 15.55 Region 1 74.3

Assay Class: DNA 7500  
 Data Path: C:\...-24\2100 expert\_DNA 7500\_DE13804163\_2016-05-24\_11-39-33.xad

Created: 5/24/2016 11:39:33 AM  
 Modified: 5/24/2016 12:38:59 PM

### Electropherogram Summary Continued ...



#### Peak table for sample 6 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	269	5.33	30.0	
3	281	7.43	40.1	
4	10,380	4.20	0.6	Upper Marker

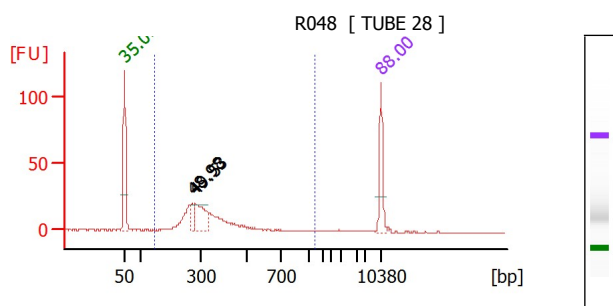
#### Overall Results for sample 6 : R021

Number of peaks found: 2  
 Area 1: 206.0

#### Region table for sample 6 : R021

From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	206.0	88	350	34.5	20.27	Region 1	96.0

150 1,200 206.0 88 350 34.5 20.27 Region 1 96.0



#### Peak table for sample 7 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	275	1.22	6.7	
3	284	4.18	22.3	
4	10,380	4.20	0.6	Upper Marker

#### Overall Results for sample 7 : R048

Number of peaks found: 2  
 Area 1: 140.8

#### Region table for sample 7 : R048

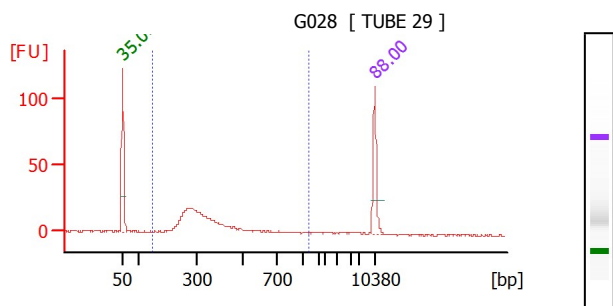
From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	140.8	91	346	32.1	13.20	Region 1	62.7

150 1,200 140.8 91 346 32.1 13.20 Region 1 62.7

Assay Class: DNA 7500  
 Data Path: C:\...-24\2100 expert\_DNA 7500\_DE13804163\_2016-05-24\_11-39-33.xad

Created: 5/24/2016 11:39:33 AM  
 Modified: 5/24/2016 12:38:59 PM

### Electropherogram Summary Continued ...



#### Peak table for sample 8 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	10,380	4.20	0.6	Upper Marker

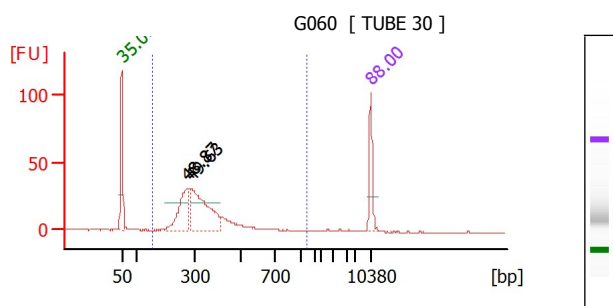
#### Overall Results for sample 8 : G028

Number of peaks found: 0  
 Area 1: 127.5

#### Region table for sample 8 : G028

From [bp]	To [bp]	Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	127.5	91	354	36.8	11.78	Region 1	55.7

150 1,200 127.5 91 354 36.8 11.78 Region 1 55.7



#### Peak table for sample 9 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	273	6.86	38.1	
3	286	11.28	59.8	
4	10,380	4.20	0.6	Upper Marker

#### Overall Results for sample 9 : G060

Number of peaks found: 2  
 Area 1: 211.2

#### Region table for sample 9 : G060

From [bp]	To [bp]	Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	211.2	94	345	31.7	21.32	Region 1	101.2

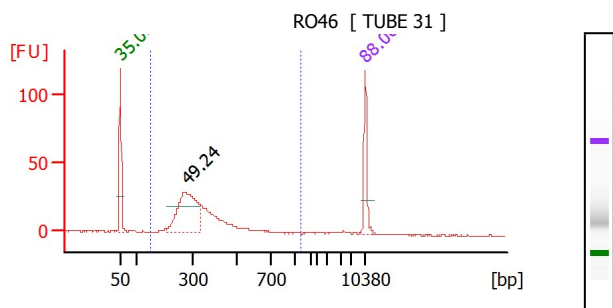
150 1,200 211.2 94 345 31.7 21.32 Region 1 101.2



Assay Class: DNA 7500  
 Data Path: C:\...-24\2100 expert\_DNA 7500\_DE13804163\_2016-05-24\_11-39-33.xad

Created: 5/24/2016 11:39:33 AM  
 Modified: 5/24/2016 12:38:59 PM

### Electropherogram Summary Continued ...



#### Peak table for sample 10 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	279	11.33	61.5	
3	10,380	4.20	0.6	Upper Marker

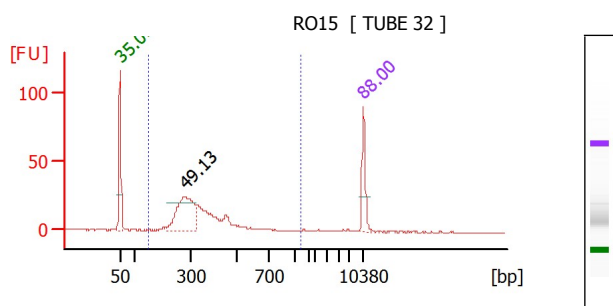
#### Overall Results for sample 10 : RO46

Number of peaks found: 1  
 Area 1: 198.4

#### Region table for sample 10 : RO46

From [bp]	To [bp]	Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	198.4	92	353	33.3	18.25	Region 1	85.5

150 1,200 198.4 92 353 33.3 18.25 Region 1 85.5



#### Peak table for sample 11 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	277	10.27	56.1	
3	10,380	4.20	0.6	Upper Marker

#### Overall Results for sample 11 : RO15

Number of peaks found: 1  
 Area 1: 173.1

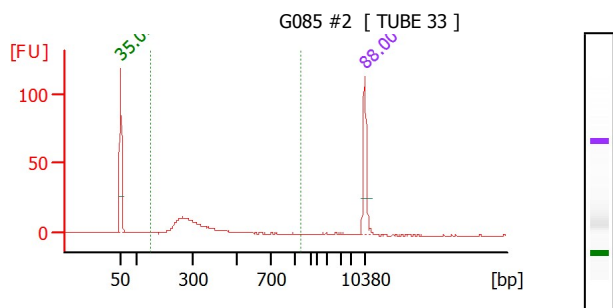
#### Region table for sample 11 : RO15

From [bp]	To [bp]	Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	173.1	91	356	33.7	19.24	Region 1	89.6

150 1,200 173.1 91 356 33.7 19.24 Region 1 89.6

Assay Class: DNA 7500  
Data Path: C:\...-24\2100 expert\_DNA 7500\_DE13804163\_2016-05-24\_11-39-33.xad

Created: 5/24/2016 11:39:33 AM  
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**Electropherogram Summary Continued ...****Peak table for sample 12 :**

Peak	Size [bp]	Conc. [ng/μl]
1	50	8.30
2	10,380	4.20

**G085 #2**

Molarity [nmol/l]	Observations
251.5	Lower Marker
0.6	Upper Marker

**Overall Results for sample 12 : G085 #2**

Number of peaks found: 0  
Area 1: 71.0

**Region table for sample 12 : G085 #2**

From [bp]	To [bp]	Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	71.0	86	334	35.0	6.77	Region 1	33.6

Assay Class: DNA 7500  
Data Path: C:\...-24\2100 expert\_DNA 7500\_DE13804163\_2016-05-24\_11-39-33.xad

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**Gel Image**