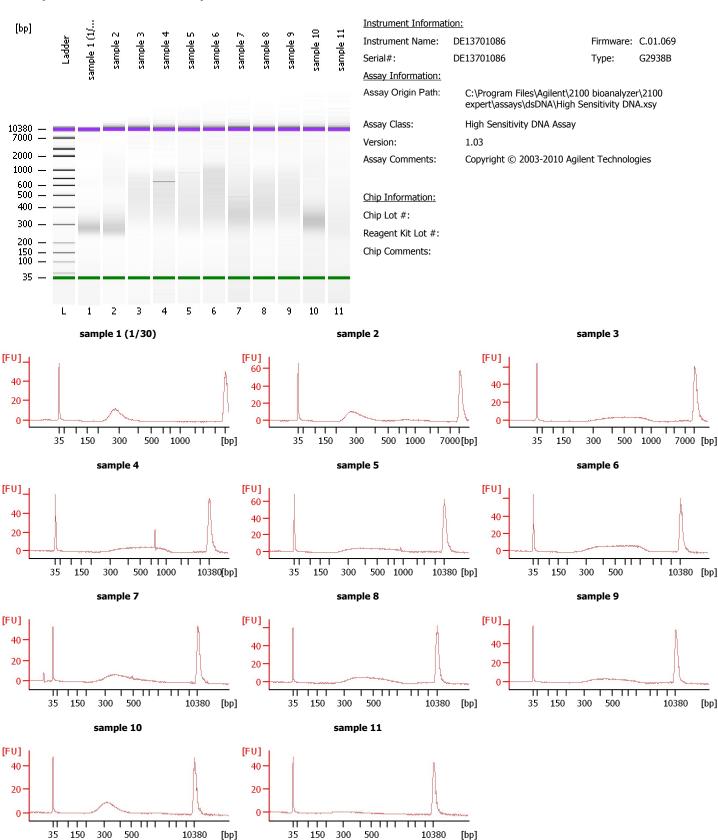
2012-06-08_001.xad Page 1 of 17

Assay Class: High Sensitivity DNA Assay Created: 6/8/2012 9:30:20 AM Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Created: 6/8/2012 10:17:22 AM

Electrophoresis File Run Summary



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High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad 6/8/2012 9:30:20 AM 6/8/2012 10:17:22 AM Assay Class: Created: Data Path: Modified: **Electrophoresis File Run Summary (Chip Summary) Sample Name** Sample Comment Rest. Digest Status Observation **Result Label Result Color** sample 1 (1/30) sample 2 sample 3 sample 4 sample 5 sample 6 sample 7 sample 8 sample 9 sample 10 sample 11 Ladder

Chip Lot # Reagent Kit Lot #

Chip Comments:

Printed:

6/8/2012 10:18:06 AM

2012-06-08_001.xad 3 of 17 Page

Assay Class: High Sensitivity DNA Assay

6/8/2012 9:30:20 AM Created: C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad 6/8/2012 10:17:22 AM Data Path: Modified:

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

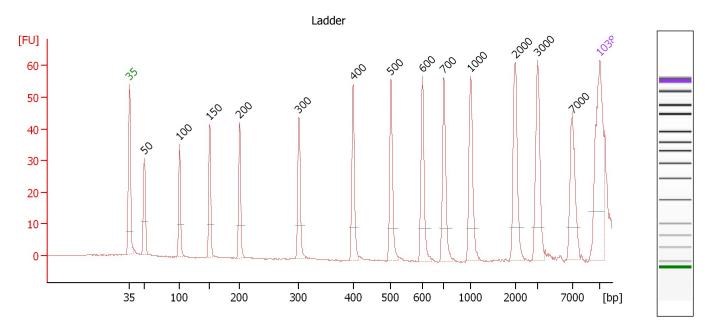
Printed:

6/8/2012 10:18:06 AM

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Created: 6/8/2012 9:30:20 AM Modified: 6/8/2012 10:17:22 AM

Electropherogram Summary



Overall Results for Ladder

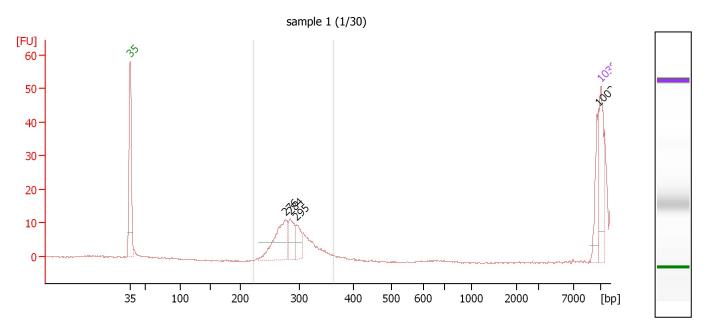
Peal	c ta	ble	for	Lad	der

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	4	35	125.00	5,411.3	Lower Marker
2		50	150.00	4,545.5	Ladder Peak
3		100	150.00	2,272.7	Ladder Peak
4		150	150.00	1,515.2	Ladder Peak
5		200	150.00	1,136.4	Ladder Peak
6		300	150.00	757.6	Ladder Peak
7		400	150.00	568.2	Ladder Peak
8		500	150.00	454.5	Ladder Peak
9		600	150.00	378.8	Ladder Peak
10		700	150.00	324.7	Ladder Peak
11		1,000	150.00	227.3	Ladder Peak
12		2,000	150.00	113.6	Ladder Peak
13		3,000	150.00	75.8	Ladder Peak
14		7,000	150.00	32.5	Ladder Peak
15		10,380	75.00	10.9	Upper Marker

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Created: 6/8/2012 9:30:20 AM Modified: 6/8/2012 10:17:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 1: sample 1 (1/30)

Number of peaks found: 4 Corr. Area 1: 1.2

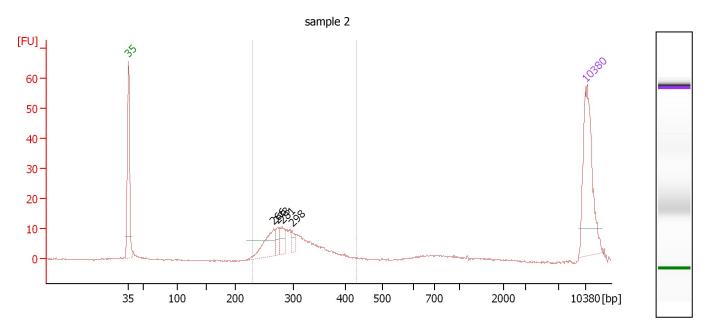
Peak table for sample 1:		for sample 1:	<u>sample 1 (1/30)</u>			
	Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
	1	18	35	125.00	5,411.3	Lower Marker
	2		276	137.90	757.2	
	3		284	55.82	297.8	
	4		295	48.61	249.9	
	5		10,023	44.90	6.8	
	6	PA	10,380	75.00	10.9	Upper Marker

Region	table fo	or sample 1:	sample 1	<u>(1/30)</u>				
From	To [b			Conc.	Corr.	% of	Size distribution in CV [%]	Co
[bp]		[bp]	[pmol/l]	[pg/µl]	Area	Total	CV [%]	lor
222	362	280	21.5	3.98	1.2	13	1.4	

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Created: 6/8/2012 9:30:20 AM Modified: 6/8/2012 10:17:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : <u>sample 2</u>

Number of peaks found: 4 Corr. Area 1: 139.8

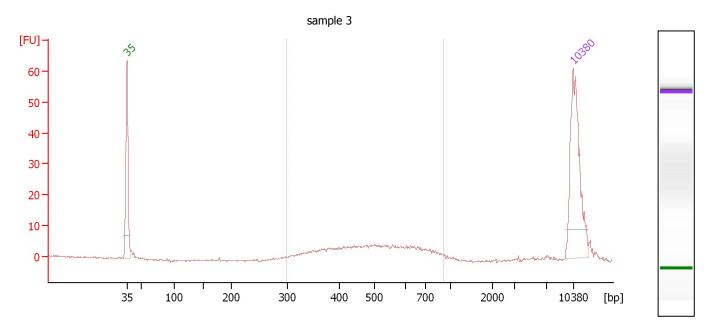
Peak table for sample 2:		for sample 2:	sample 2				
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations		
1	18	35	125.00	5,411.3	Lower Marker		
2		266	40.92	232.8			
3		273	11.13	61.7			
4		281	18.67	100.7			
5		298	9.37	47.6			
6	PA	10,380	75.00	10.9	Upper Marker		

Region	table fo	or sample 2:	sample 2					
From [bp]	To [b	p] Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
[ph]		[pb]	[[[P9/P1]	Aicu	. otai	C. [,0]	<u></u>
229	430	303	1.016.2	198.76	139.8	79	13.8	

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Created: 6/8/2012 9:30:20 AM Modified: 6/8/2012 10:17:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 3: sample 3

Number of peaks found: 0 Corr. Area 1: 101.0

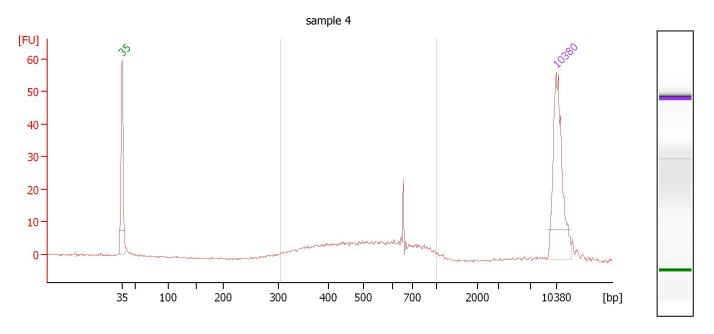
Peak table for sample 3:			<u>sample 3</u>				
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations		
1	18	35	125.00	5,411.3	Lower Marker		
2	PA	10,380	75.00	10.9	Upper Marker		

Region	table fo	or sample 3:	sample 3					
From [bp]	To [b _l	p] Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
298	912	517	349.9	109.56	101.0	87	25.6	

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Created: 6/8/2012 9:30:20 AM Modified: 6/8/2012 10:17:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 4: sample 4

Number of peaks found: 0 Corr. Area 1: 129.2

Noise: 0.2

1,000

539

304

Peak table for sample 4: <u>sample 4</u>						
Peal	•	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	
1	- ∢	35	125.00	5,411.3	Lower Marker	
2		10,380	75.00	10.9	Upper Marker	

472.7

Region	table for sample 4:	sample 4					
From	To [bp] Average Size	Molarity	Conc.	Corr.	% of	Size distribution in CV [%]	Co
[bp]	[bp]	[pmol/l]	[pg/µl]	Area	Total		lor

129.2

86

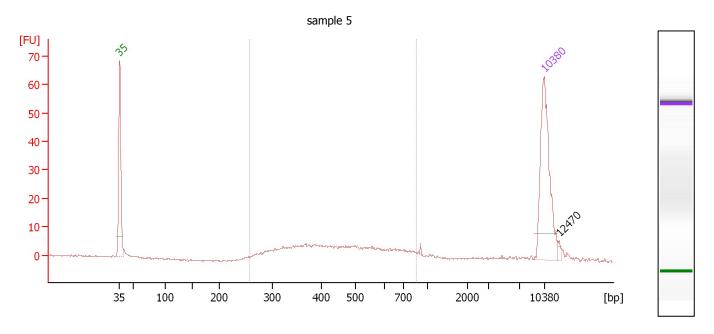
28.7

151.12

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Created: 6/8/2012 9:30:20 AM Modified: 6/8/2012 10:17:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 1 Corr. Area 1: 129.7

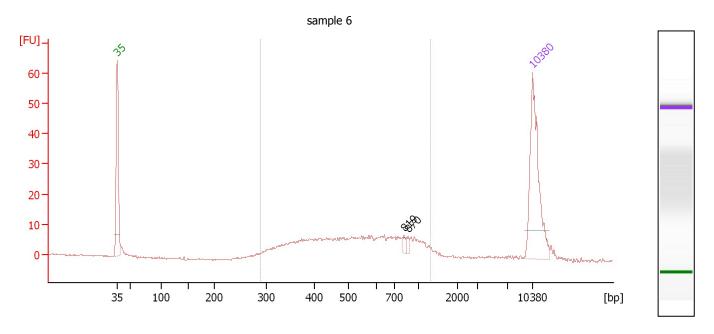
Peak table	for sample 5:	<u>sample 5</u>		
Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	12,470	0.00	0.0	

Region table for sample 5:			<u>sample 5</u>					
From	To [b _l	p] Average Size	Molarity	Conc.	Corr.	% of	Size distribution in	Co
[bp]		[bp]	[pmol/l]	[pg/µl]	Area	Total	CV [%]	lor
256	868	467	499.7	137.61	129.7	79	29.0	

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Created: 6/8/2012 9:30:20 AM Modified: 6/8/2012 10:17:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 2 Corr. Area 1: 198.2

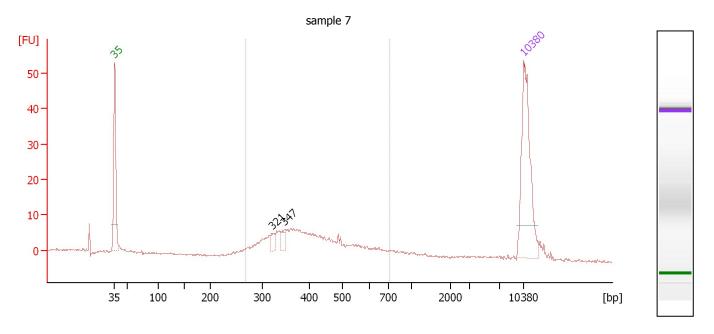
Peak table for sample 6:			<u>sample 6</u>		
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	4	35	125.00	5,411.3	Lower Marker
2		819	3.63	6.7	
3		870	3.50	6.1	
4		10,380	75.00	10.9	Upper Marker

Region	table for sample 6:	<u>sample 6</u>					
From [bp]	To [bp] Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
287	1,318 583	693.5	224.54	198.2	91	38.4	

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Created: 6/8/2012 9:30:20 AM Modified: 6/8/2012 10:17:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 7: sample 7

Number of peaks found: 2 Corr. Area 1: 146.8

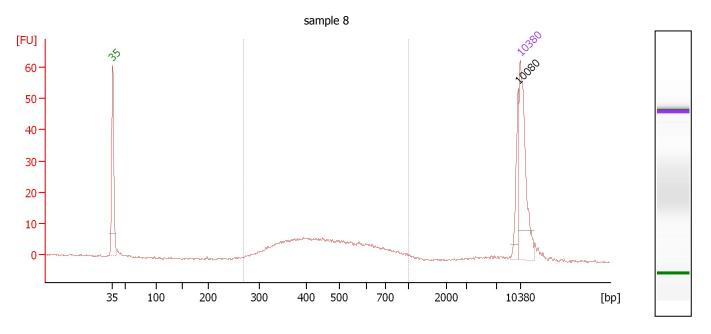
for sample 7:	sample 7		
Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
35	125.00	5,411.3	Lower Marker
321	7.01	33.1	
347	9.08	39.7	
10,380	75.00	10.9	Upper Marker
	35 321 347	Size [bp] Conc. [pg/μ] 35 125.00 321 7.01 347 9.08	Size [bp] Conc. [pg/μl] Molarity [pmol/l] 35 125.00 5,411.3 321 7.01 33.1 347 9.08 39.7

Region	table fo	or sample 7:	sample 7					
From	To [b	p] Average Size		Conc.	Corr.	% of	Size distribution in	Co
[bp]		[bp]	[pmol/l]	[pg/µl]	Area	Total	CV [%]	lor
268	715	418	727.2	186.67	146.8	79	24.0	

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Created: 6/8/2012 9:30:20 AM Modified: 6/8/2012 10:17:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 1 Corr. Area 1: 153.8

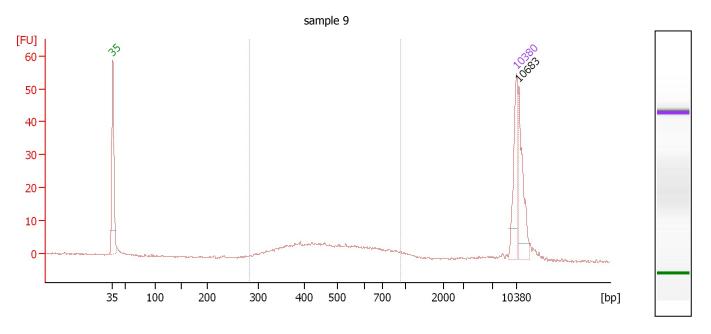
Peak table for sample 8:			<u>sample 8</u>		
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	4	35	125.00	5,411.3	Lower Marker
2		10,080	26.19	3.9	
3		10,380	75.00	10.9	Upper Marker

Region	table for sample 8:	<u>sample 8</u>					
From	To [bp] Average Size	•	Conc.	Corr.	% of		Co
[bp]	[bp]	[pmol/l]	[pg/µl]	Area	Total	CV [%]	lor
268	1.000 487	762.8	221 27	153.8	77	29 3	

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Created: 6/8/2012 9:30:20 AM Modified: 6/8/2012 10:17:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 9: sample 9

Number of peaks found: 1 Corr. Area 1: 94.1

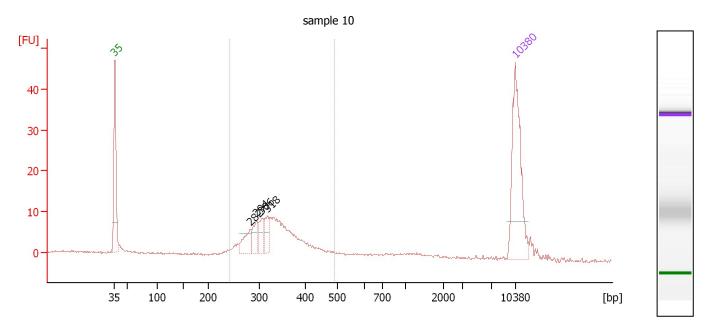
Peak tabl	e for sample 9:	<u>sample 9</u>		
Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2 🔓	10,380	75.00	10.9	Upper Marker
3	10,683	0.00	0.0	

Region table for Sample 9:			Sample 9						
From [bp]	To [b	p] Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor	
283	936	501	794.0	238.69	94.1	59	27.9		

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Created: 6/8/2012 9:30:20 AM Modified: 6/8/2012 10:17:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 4 Corr. Area 1: 127.7

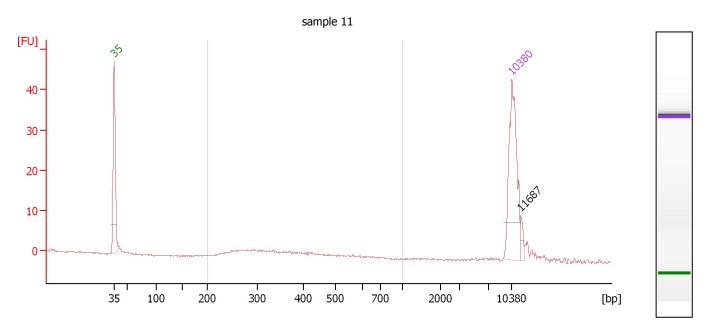
Peak t	table	for sample 1	0: <u>sample 10</u>		
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	•	35	125.00	5,411.3	Lower Marker
2		282	23.54	126.4	
3		294	17.80	91.8	
4		306	18.99	94.0	
5		318	15.96	76.1	
6		10,380	75.00	10.9	Upper Marker

Region	table fo	or sample 10:	sample	<u>10</u>				
From [bp]	To [b	p] Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
242	491	335	928.6	199.87	127.7	79	14.9	

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Assay Class: High Sensitivity DNA Assay Created: 6/8/2012 9:30:20 AM Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Colored: 6/8/2012 10:17:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 11: sample 11

Number of peaks found: 1 Corr. Area 1: 25.2

Noise: 0.2

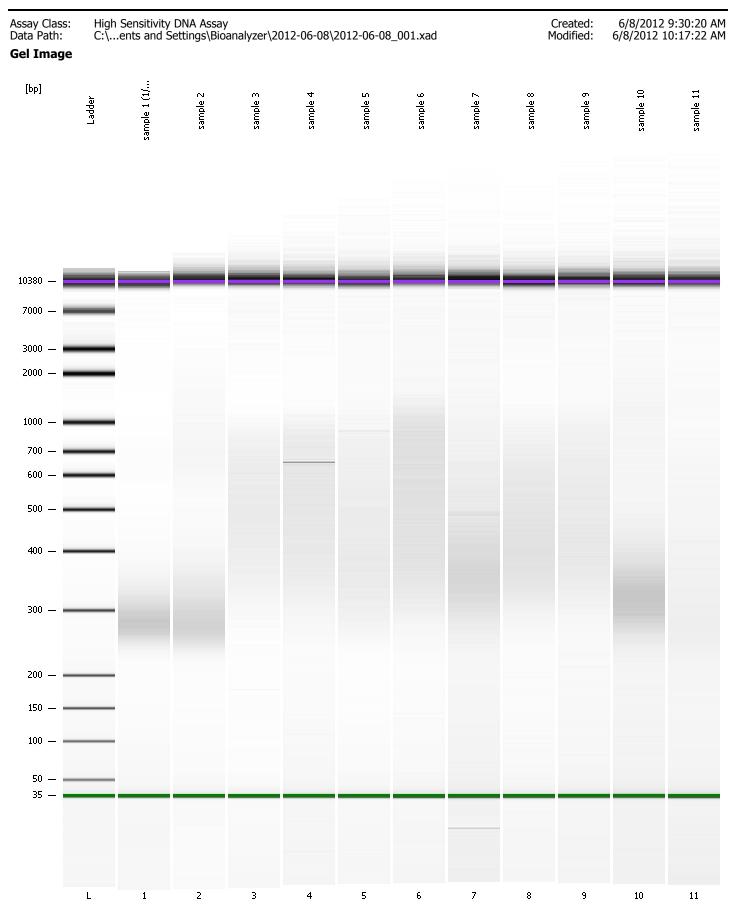
Peak table for sample 11 : <u>sample 11</u>

Peak Size [bp] Molarity [pmol/l] **Observations** Conc. [pg/µl] 125.00 5,411.3 Lower Marker 1 35 2 10,380 75.00 10.9 Upper Marker 11,687 0.00 0.0

Region table for sample 11: sample 11

To [bp] Average Size **Molarity** Conc. Corr. % of Size distribution in Co **From Total** [bp] [bp] [pmol/l] [pg/µl] Area **CV** [%] lor 200 1,000 368 203.0 44.87 25.2 55 28.2

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-06-08\2012-06-08_001.xad Created: 6/8/2012 9:30:20 AM Modified: 6/8/2012 10:17:22 AM

Run Logbook

Description Run ended on port 1 (Number of wells acquired: 12)	Number	Source Instrument	Category Run	Sub Category	Time 6/8/2012 10:11:38 AM	Time Zone (GMT07:00) Pacific Standard Time	User UC Davis	Host D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioana yzer\2012-06-08_00 1.xad)	8	Instrument	Run		6/8/2012 9:30:25 AM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Product Number: G2938B	r	Instrument	Run		6/8/2012 9:30:25 AM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Name :		Instrument	Run		6/8/2012 9:30:25 AM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Vendor : Agilent Technologies	t	Instrument	Run		6/8/2012 9:30:25 AM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/8/2012 9:30:25 AM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/8/2012 9:30:25 AM	(GMT07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/8/2012 9:30:25 AM	(GMT07:00) Pacific Standard Time		D8XSMGH1