

2012-11-21_	_004.xad					F	Page 2 of 17
Assay Class: Data Path:	High Sensitivity DNA Assay C:\ents and Settings\Bioanalyzer\	2012-11-21\20:	12-11-21	_004.xad	Created: Modified:		2012 1:34:05 PM 2012 2:52:30 PM
Electrophore	esis File Run Summary (Chip Su	mmary)					
Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result La	bel	Result Color
sample 1			× .				
sample 2 sample 3			× .				
sample 4		Image: Description of the second seco	÷.				
sample 5			×				
sample 6 sample 7		H	× .				
sample 8		H	<i>.</i>				
sample 9		Ō	\checkmark				
sample 10			\checkmark				
sample 11 Ladder			<i>*</i>				

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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] : 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

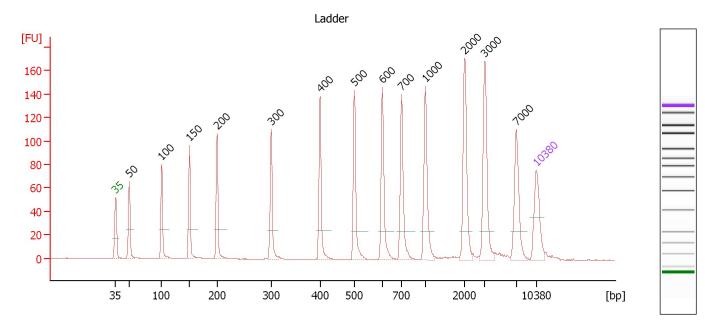
Created: 11/21/2012 1:34:05 PM Modified: 11/21/2012 2:52:30 PM

High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2012-11-21\2012-11-21_004.xad Assay Class: Data Path:

11/21/2012 1:34:05 PM 11/21/2012 2:52:30 PM Created:

Modified:

Electropherogram Summary



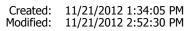
Overall Results for Ladder

Noise:

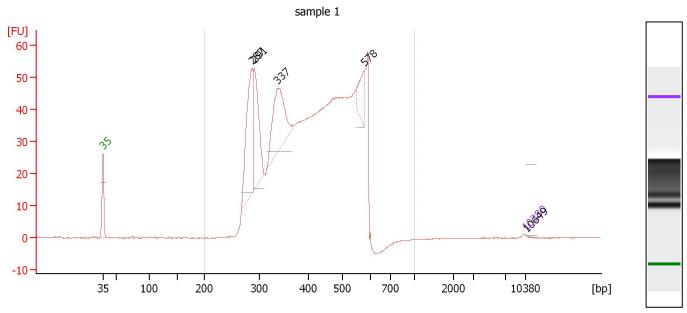
0.2

Peak table for Ladder

Peak	Size	e [bp]	Conc. [pg/µl]	Molarity	[pmol/l]	Observations
1	4 35		125.00	5,411.3		Lower Marker
2	5 0		150.00	4,545.5		Ladder Peak
3	L 100		150.00	2,272.7		Ladder Peak
4	L 150		150.00	1,515.2		Ladder Peak
5	L 200		150.00	1,136.4		Ladder Peak
6	3 00		150.00	757.6		Ladder Peak
7	400		150.00	568.2		Ladder Peak
8	5 00		150.00	454.5		Ladder Peak
9	600		150.00	378.8		Ladder Peak
10	- 700		150.00	324.7		Ladder Peak
11	1,00	00	150.00	227.3		Ladder Peak
12	2,00	00	150.00	113.6		Ladder Peak
13	3,00	00	150.00	75.8		Ladder Peak
14	L 7,00	00	150.00	32.5		Ladder Peak
15	10,3	380	75.00	10.9		Upper Marker



Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : <u>sample 1</u>

Height Threshold [FU]: 0.2

Overall Results for sample 1 : <u>sample 1</u>

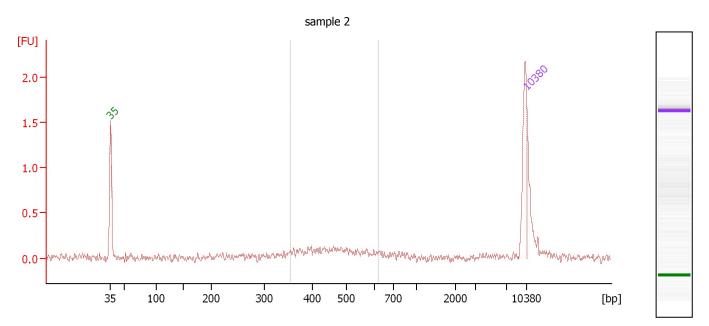
Numbe Noise:	er of p	peaks found: 5 Corr 0.1		Corr. Area 1:	1,161.9
Peak Peak	table	for sample 1 : Size [bp]	<u>sample 1</u> Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		35	125.00	5,411.3	Lower Marker
2		287	2,714,280.25	14,328,271.0	
3		291	2,060,815.13	10,732,734.0	
4		337	2,275,798,75	10,225,392.0	

7		221	2,2/3,/90./3	10,223,5	J92.0				
5		578	587,064.13	1,539,51	11.4				
6	6	10,380	75.00	10.9			Upper Marker		
7		10,649	0.00	0.0					
Regior	Region table for sample 1 : <u>sample 1</u>								
From	То	[bp] Average Si	ze Molarity	Conc.	Corr.	% of	Size distribution in		
[bp]		[bp]	[pmol/l]	[pg/µl]	Area	Total	CV [%]		
200	1,0	000 417	149,692,416.0	37,995,564.00	1,161.9	100	22.8		

Co lor

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Electropherogram Summary Continued ...



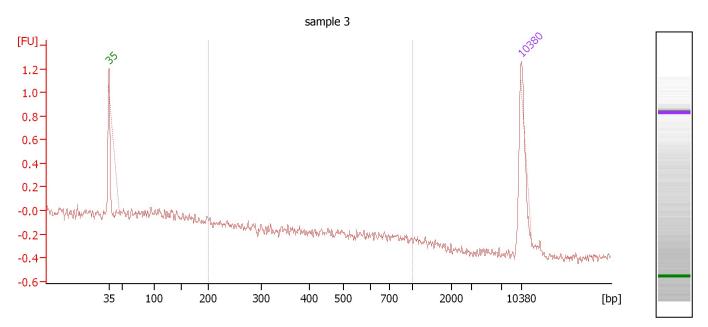
Overall Results for sample 2 : <u>sample 2</u>

Numbe	er of pe	eaks found:	0		Corr.	Area 1:		1.6	
Noise:			0.0	0					
Peak	table	for sample 2	:	sample 2					
Peak		Size [bp]	Co	onc. [pg/µl]	Mola	rity [pmol	/I]	Observations	
1	10	35	12	5.00	5,411	.3		Lower Marker	
2	6	10,380	75	.00	10.9			Upper Marker	
Regio	n tab	le for sample	2:	sample 2					
From	Т	o [bp] Average	e Size	Molarity	Conc.	Corr.	% of	Size distribution in	Со
[bp]		[bp]		[pmol/l]	[pg/µl]	Area	Total	CV [%]	lor
353	62	462		2,644.9	782.30	1.6	22	15.4	

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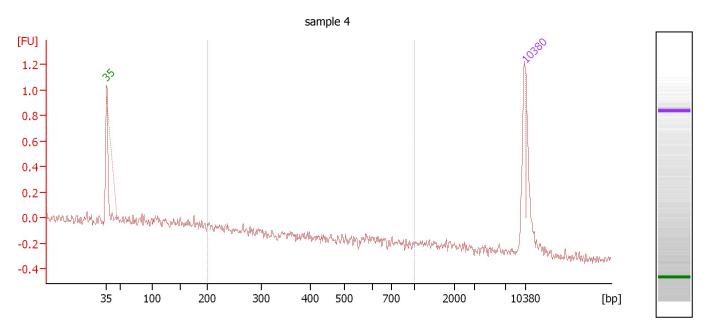
Electropherogram Summary Continued ...



Overall Results for samp	le 3 : <u>sample 3</u>	<u>3</u>				
Number of peaks found:	0	Corr. Ar	ea 1:	0.4		
Noise:	0.0					
Peak table for sample 3	: <u>sample 3</u>					
Peak Size [bp]	Conc. [pg/µl]	Molarit	y [pmol/l]	Observations		
1 🏠 35	125.00	5,411.3		Lower Marker		
2 b 10,380	75.00	10.9		Upper Marker		
Region table for sample	3 : <u>sample 3</u>					
From To [bp] Average [bp] [bp]	Size Molarity [pmol/l]		Corr. % of Area Total	Size distribution in CV [%]	Co lor	
200 1,000 502	2,132.3	525.97	0.4 15	41.3		

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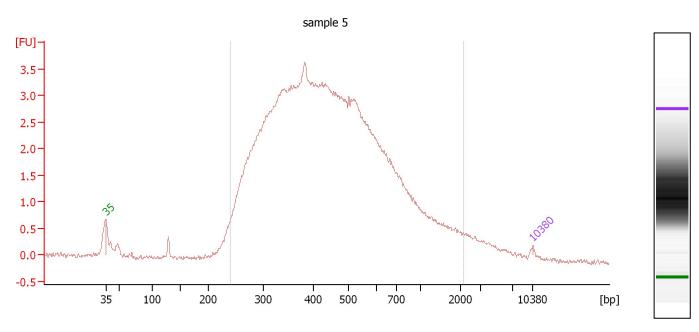
Electropherogram Summary Continued ...



Overall	Results for sampl	e4: <u>sample4</u>	<u>4</u>				
Number	of peaks found:	0	Corr.	Area 1:		0.5	
Noise:		0.0					
Peak ta	ble for sample 4	sample 4					
Peak	Size [bp]	Conc. [pg/µl]	Mola	rity [pmol	/I]	Observations	
1	1 8 35	125.00	5,411	.3		Lower Marker	
2	6 10,380	75.00	10.9			Upper Marker	
Region	table for sample 4	: <u>sample 4</u>					
From [bp]	To [bp] Average [bp]	[pmol/ĺ]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
200	1,000 448	1,811.4	393.90	0.5	13	45.1	

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Electropherogram Summary Continued ...



From [bp]	То	o [bp] Average S [bp]	ize Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
Regior	1 tab	le for sample 5	: <u>sample 5</u>					
2	۱ <mark>۵</mark>	10,380	75.00	10.9	5		Upper Marker	
1	48	35	125.00	5,411.			Lower Marker	
Peak t Peak	able	for sample 5 : Size [bp]	<u>sample 5</u> Conc. [pg/µl]	Molar	ity [pmol	/11	Observations	
Noise:			0.0					
Number	r of pe	eaks found:	0	Corr. /	Area 1:		109.8	
Overal	l Res	sults for sample	e 5 : <u>sample 5</u>	<u>5</u>				

581,906.75 109.8

94

57.5

2,176,205.3

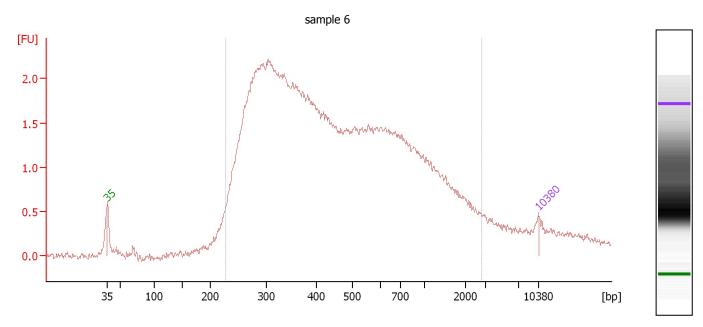
240

2,189

514

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Electropherogram Summary Continued ...



From [bp]	To [bp] Average [bp]	Size Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
Regio	n table for sample	6 : <u>sample 6</u>					
2	🎦 10,380	75.00	10.9			Upper Marker	
1	16 35	125.00	5,411.	3		Lower Marker	
Peak	Size [bp]	Conc. [pg/µl]	Molar	ity [pmol	/I]	Observations	
Peak	table for sample 6	: <u>sample 6</u>					
Noise:		0.0					
Numbe	er of peaks found:	0	Corr.	Area 1:		74.1	
Overa	II Results for samp	le 6 : <u>sample</u>	<u>6</u>				

148,498.95 74.1

94

74.5

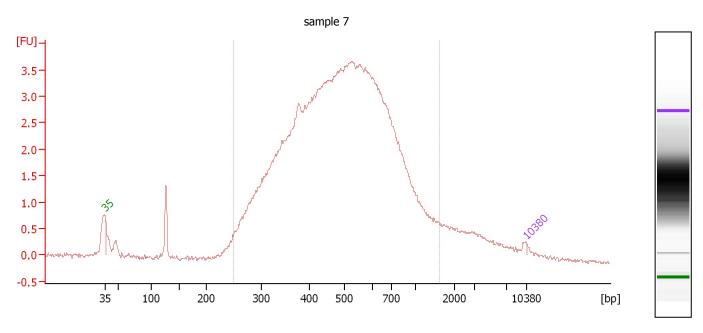
576,732.3

226

2,776 576

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Electropherogram Summary Continued ...



Overa	all Re	sults for sam	ple 7 : <u>sampl</u>	<u>e 7</u>	
Numb	er of pe	eaks found:	0	Corr. Area 1:	103.6
Noise	:		0.0		
	table	for sample 7			
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	10	35	125.00	5,411.3	Lower Marker
2	6	10,380	75.00	10.9	Upper Marker
Regio	on tab	le for sample	e7: <u>sample</u>	<u>7</u>	

[pg/µl]

415,889.19

[pmol/l]

1,395,481.6

[bp]

539

1,614

[bp]

250

Total

90

Area

103.6

CV [%]

41.6

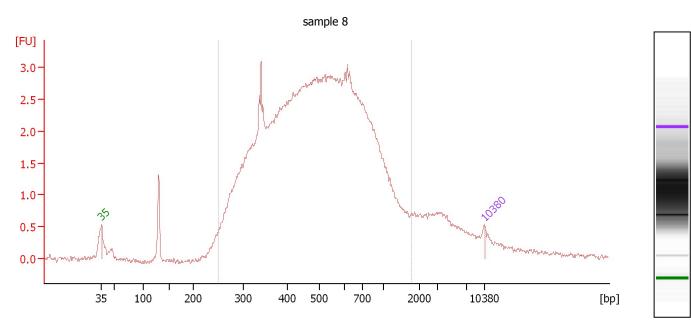
Со

lor

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Electropherogram Summary Continued ...



From [bp]	To [bp] Average [bp]	e Size Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
Regior	n table for sample	8 : <u>sample 8</u>					
2	8 10,380	75.00	10.9			Upper Marker	
1	18 35	125.00	5,411	.3		Lower Marker	
Peak	Size [bp]	Conc. [pg/µl]	Mola	rity [pmol	/I]	Observations	
Peak t	able for sample 8	: <u>sample 8</u>					
Noise:		0.0					
Number	r of peaks found:	0	Corr.	Area 1:		88.7	
Overal	ll Results for samp	ole 8 : <u>sample</u>	<u>8</u>				

139,695.05 88.7

88

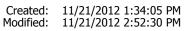
47.6

470,101.4

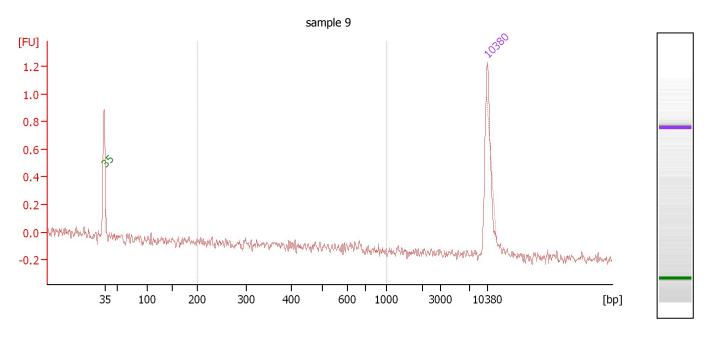
249

1,766

561



Electropherogram Summary Continued ...



Overa	ll Res	sults for samp	le 9 : <u>sam</u> j	ole 9			
Numbe	r of pe	eaks found:	0	Corr.	Area 1:		0.0
Noise:			0.0				
Peak t	able	for sample 9	: <u>sample 9</u>	<u>)</u>			
Peak		Size [bp]	Conc. [pg/µ	l] Mola	rity [pmol	/I]	Observations
1	10	35	125.00	5,411	.3		Lower Marker
2	0	10,380	75.00	10.9			Upper Marker
Regio	n tab	le for sample	9 : <u>sampl</u>	<u>e 9</u>			
From [bp]	То	o [bp] Average [bp]	Size Molarity [pmol/l]		Corr. Area	% of Total	Size distribution in CV [%]

10.01

0.0

1

25.7

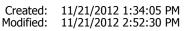
200

1,000

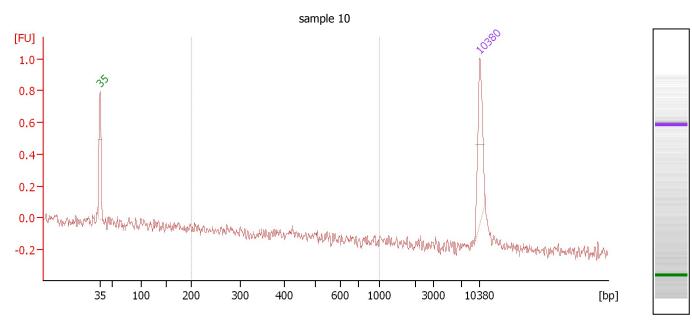
606

Co lor

22.2



Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : <u>sample 10</u>

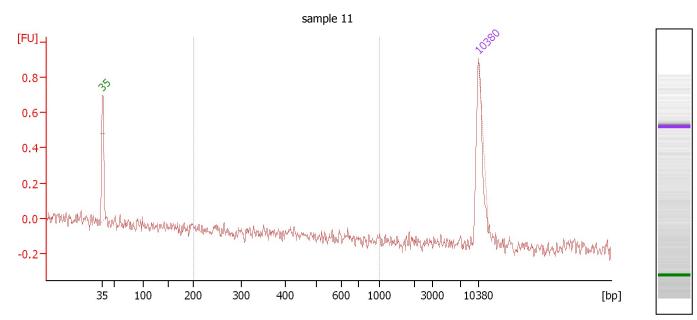
Height Threshold [FU]: 0.5

Overall Results for sample 10 : <u>sample 10</u>

Number of peaks found:	0	Corr. Area 1:	0.2
Noise:	0.0		

Peak table for sample 10 : <u>sample 10</u>									
Peak		Size [bp]	Conc. [pg/µl]	Molai	rity [pmol,	/I]	Observations		
1		35	125.00	5,411.	.3		Lower Marker		
2		10,380	75.00	10.9			Upper Marker		
Region table for sample 10 : <u>sample 10</u>									
From [bp] 200		o [bp] Average Si [bp] ,000 422	ize Molarity [pmol/l] 112.2	Conc. [pg/μl] 25.33	Corr. Area 0.2	% of Total 17	Size distribution in CV [%] 40.6	Co lor	

Electropherogram Summary Continued ...



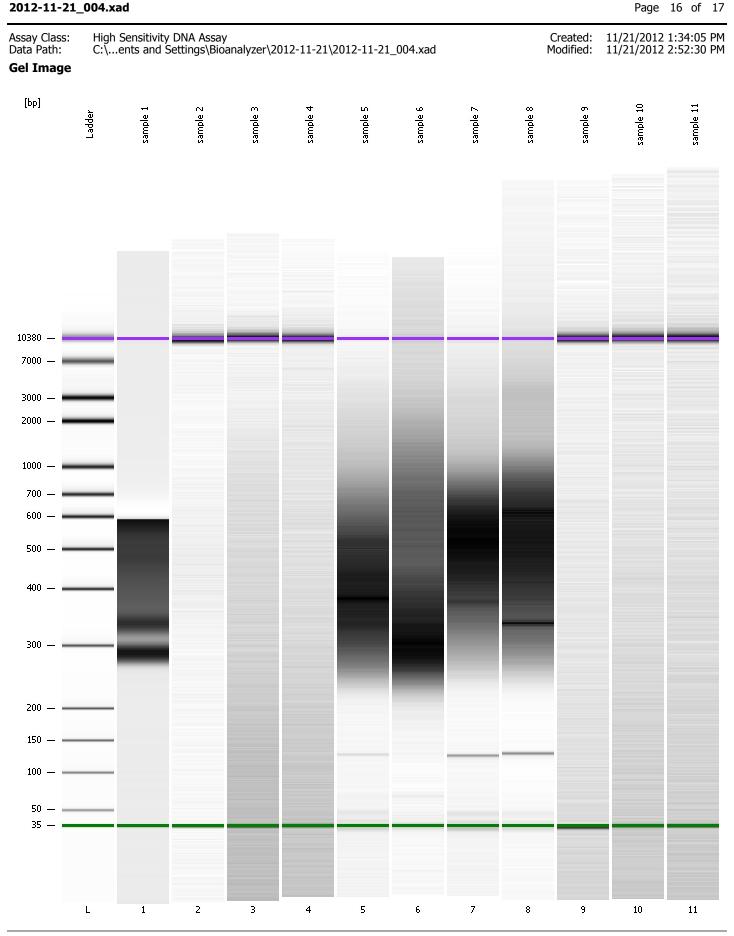
Setpoint Deviations for sample 11 : <u>sample 11</u>

Height Threshold [FU]: 0.5

Overall Results for sample 11 : <u>sample 11</u>

Number of peaks found:	0	Corr. Area 1:	0.0
Noise:	0.0		

Peak table for sample 11 : <u>sample 11</u>									
Peak	Size [bp]	Conc. [pg/µl]	Mola	rity [pmol,	/I]	Observations			
1	4 35	125.00	5,411	.3		Lower Marker			
2	8 10,380	75.00	10.9			Upper Marker			
Region table for sample 11 : <u>sample 11</u>									
From [bp]	To [bp] Average S [bp]	[pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor		
200	1,000 419	167.2	39.44	0.0	1	31.2			



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Assay Class:High Sensitivity DNA AssayData Path:C:\...ents and Settings\Bioanalyzer\2012-11-21\2012-11-21_004.xad

Created: 11/21/2012 1:34:05 PM Modified: 11/21/2012 2:52:30 PM

Run Logbook

Description Num Run ended on port 1 (Number of wells	iber Source Instrument	Category Run	Sub Category	Time 11/21/2012 2:15:23 PM	Time Zone (GMT08:00) Pacific Standard Time	User UC Davis	Host D8XSMGH1
acquired: 12) Run started on port 1 (File: C:\Documents and	Instrument	Run		11/21/2012 1:34:10 PM	(GMT08:00) Pacific Standard Time		D8XSMGH1
Settings\Bioanal yzer\2012-11-21 \2012-11-21_00 4.xad)							
Product Number : G2938B	Instrument	Run		11/21/2012 1:34:10 PM	(GMT08:00) Pacific Standard Time		D8XSMGH1
Name :	Instrument	Run		11/21/2012 1:34:10 PM	(GMT08:00) Pacific Standard Time		D8XSMGH1
Vendor : Agilent Technologies	Instrument	Run		11/21/2012 1:34:10 PM	(GMT08:00) Pacific Standard Time		D8XSMGH1
Serial# : DE13701086	Instrument	Run		11/21/2012 1:34:10 PM	(GMT08:00) Pacific Standard Time		D8XSMGH1
Firmware : C.01.069	Instrument	Run		11/21/2012 1:34:10 PM	(GMT08:00) Pacific Standard Time		D8XSMGH1
Cartridge : Electrode	Instrument	Run		11/21/2012 1:34:10 PM	(GMT08:00) Pacific Standard Time		D8XSMGH1