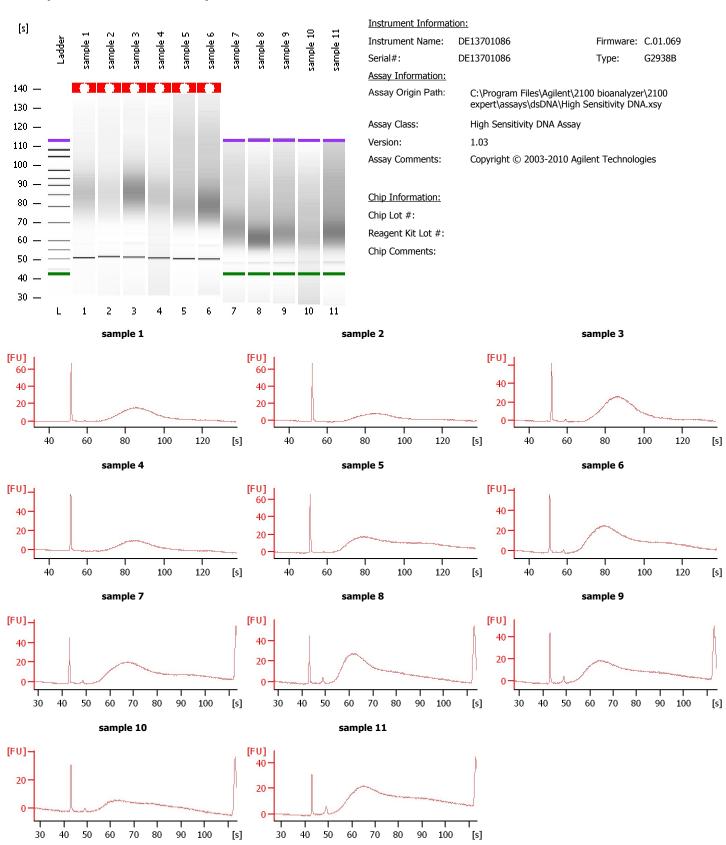
**2014-04-14\_004.xad** Page 1 of 17

Assay Class: High Sensitivity DNA Assay Created: 4/14/2014 2:52:28 PM Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad Modified: 4/14/2014 3:54:22 PM

### **Electrophoresis File Run Summary**



**2014-04-14\_004.xad** Page 2 of 17

High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad 4/14/2014 2:52:28 PM 4/14/2014 3:54:22 PM 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 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:

4/14/2014 3:54:36 PM

2014-04-14\_004.xad 3 of 17 Page

Assay Class: High Sensitivity DNA Assay

4/14/2014 2:52:28 PM Created: C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad 4/14/2014 3:54:22 PM 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

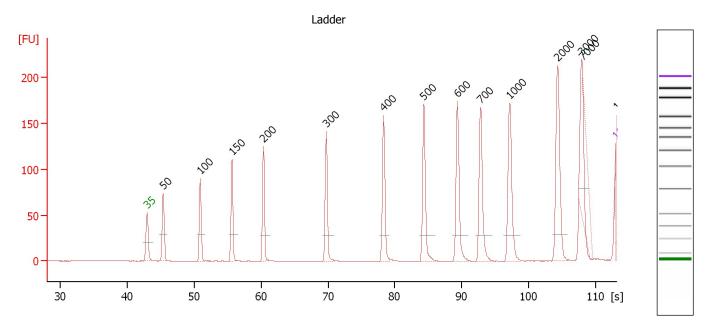
Printed:

4/14/2014 3:54:36 PM

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad

# **Electropherogram Summary**



#### **Overall Results for Ladder**

Noise: 0.2

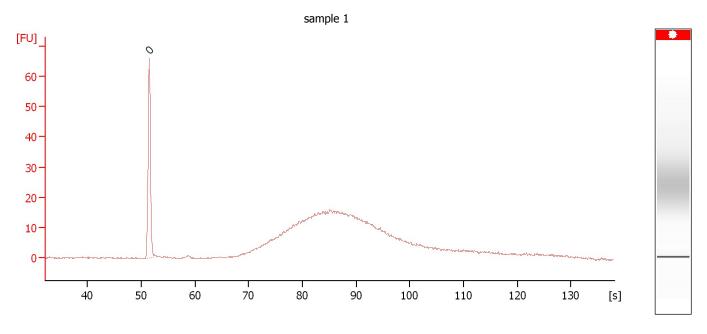
## **Peak table for Ladder**

Pea k		Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	18	43.00	35	125.00	5,411.3	Lower Marker
2		45.41	50	150.00	4,545.5	Ladder Peak
3		50.94	100	150.00	2,272.7	Ladder Peak
4		55.67	150	150.00	1,515.2	Ladder Peak
5	L	60.36	200	150.00	1,136.4	Ladder Peak
6		69.74	300	150.00	757.6	Ladder Peak
7		78.32	400	150.00	568.2	Ladder Peak
8	L	84.33	500	150.00	454.5	Ladder Peak
9		89.35	600	150.00	378.8	Ladder Peak
10		92.83	700	150.00	324.7	Ladder Peak
11	L	97.16	1,000	150.00	227.3	Ladder Peak
12		104.30	2,000	150.00	113.6	Ladder Peak
13		107.95	3,000	150.00	75.8	Ladder Peak
14	L	107.99	7,000	150.00	32.5	Ladder Peak
15	10	113.00	10,380	75.00	10.9	Upper Marker
16		113.12	10,461	0.00	0.0	

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad

### **Electropherogram Summary Continued ...**



Overall Results for sample 1 : sample 1

Number of peaks found: 0 Noise: 0.2

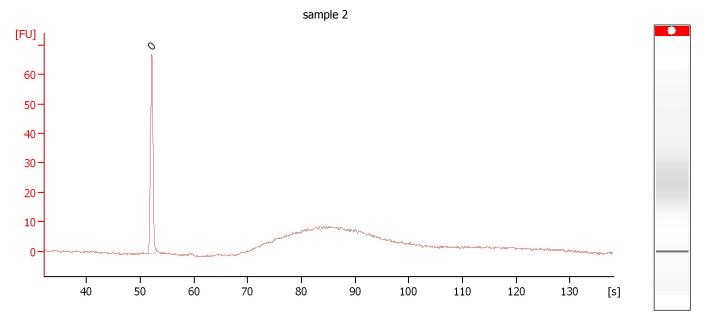
Peak table for sample 1 : <u>sample 1</u>

Pea	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	51.45	0	0.00	0.0	

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad

### **Electropherogram Summary Continued ...**



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

Number of peaks found: 0 Noise: 0.3

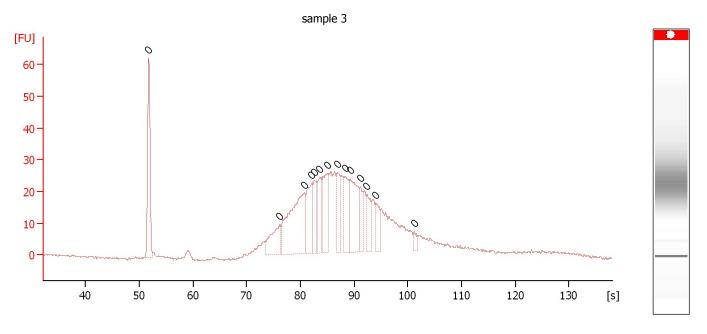
Peak table for sample 2: <u>sample 2</u>

Pea	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	52.10	0	0.00	0.0	

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad

### **Electropherogram Summary Continued ...**



Overall Results for sample 3: sample 3

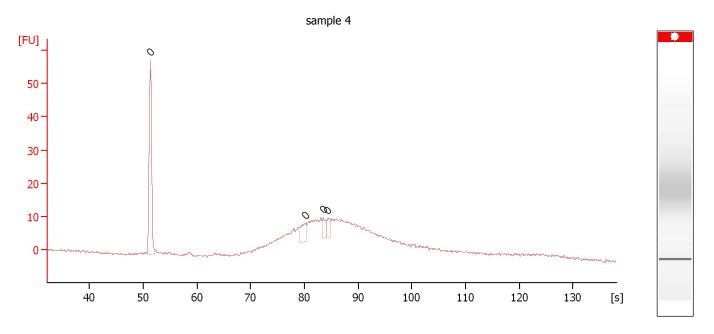
Number of peaks found: 0 Noise: 0.2

Peak table for sample 3 : sample 3									
Pea k	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations				
1	51.75	0	0.00	0.0					
2	76.15	0	0.00	0.0					
3	80.65	0	0.00	0.0					
4	82.10	0	0.00	0.0					
5	82.55	0	0.00	0.0					
6	83.50	0	0.00	0.0					
7	84.95	0	0.00	0.0					
8	86.90	0	0.00	0.0					
9	88.30	0	0.00	0.0					
10	89.35	0	0.00	0.0					
11	91.20	0	0.00	0.0					
12	92.35	0	0.00	0.0					
13	94.05	0	0.00	0.0					
14	101.15	0	0.00	0.0					

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad

### **Electropherogram Summary Continued ...**



Overall Results for sample 4: sample 4

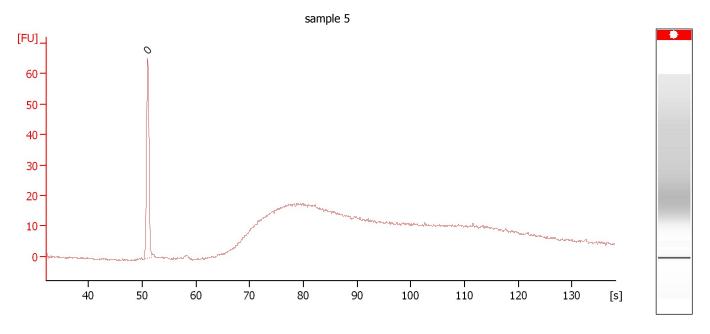
Number of peaks found: 0 Noise: 0.3

Peak t	Peak table for sample 4: <u>sample 4</u>								
Pea k	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations				
1	51.30	0	0.00	0.0					
2	80.25	0	0.00	0.0					
3	83.45	0	0.00	0.0					
4	84.35	0	0.00	0.0					

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad

### **Electropherogram Summary Continued ...**



Overall Results for sample 5 : sample 5

Number of peaks found: 0 Noise: 0.3

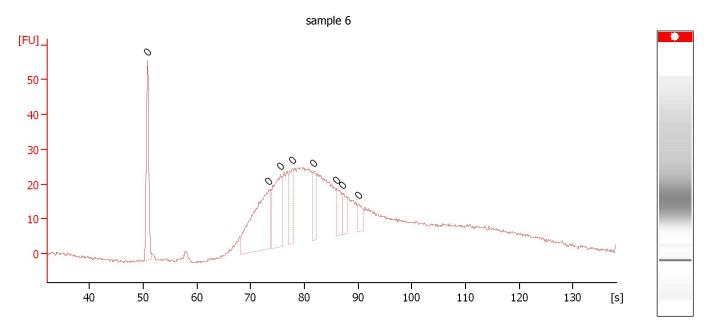
Peak table for sample 5 : <u>sample 5</u>

Pea	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	51.00	0	0.00	0.0	

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad

### **Electropherogram Summary Continued ...**



Overall Results for sample 6 : sample 6

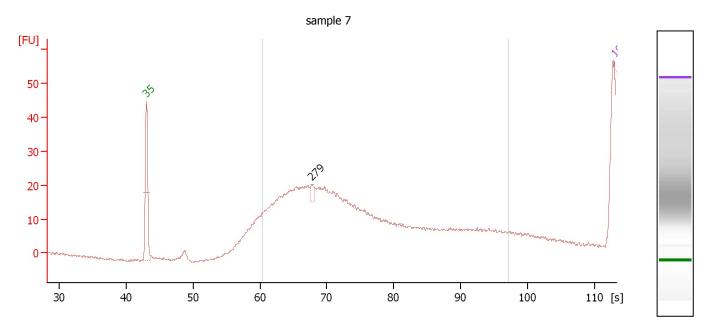
Number of peaks found: 0 Noise: 0.3

Peak table for sample 6 : <u>sample 6</u>										
Pea	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations					
k										
1	50.75	0	0.00	0.0						
2	73.35	0	0.00	0.0						
3	75.50	0	0.00	0.0						
4	77.75	0	0.00	0.0						
5	81.70	0	0.00	0.0						
6	86.00	0	0.00	0.0						
7	87.15	0	0.00	0.0						
8	90.05	0	0.00	0.0						

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad

### **Electropherogram Summary Continued ...**



Overall Results for sample 7: sample 7

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

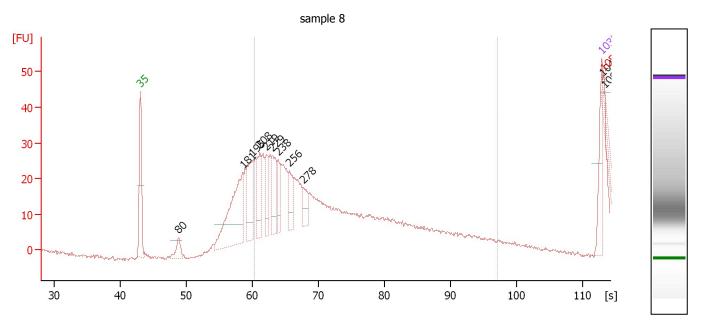
Noise: 0.4

Peak table for sample 7: <u>sample 7</u>										
Pea		Aligned Migration Tim	e [s] Siz	e [bp]	Conc. [pg/	/μl] Molarity	[pmol/I] Observations			
k	4									
1	8	43.00	35		125.00	5,411.3	Lower Marker			
2		67.74	279		10,974.51	59,671.8				
3	B	113.00	10,3	380	75.00	10.9	Upper Marker			
Regio	on t	able for sample 7:	<u>sample</u>	<u>7</u>						
From [bp]		To [bp] Average Size [bp]	Molarity [pmol/l]	Cond [pg/		Corr. % of Area Total	Size distribution in CV [%]			
200		1,000 0	0.0	0.00		0.0	0.0			

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad

### **Electropherogram Summary Continued ...**



# Overall Results for sample 8 : sample 8

Number of peaks found: 11 Corr. Area 1: 172.7

Noise: 0.3

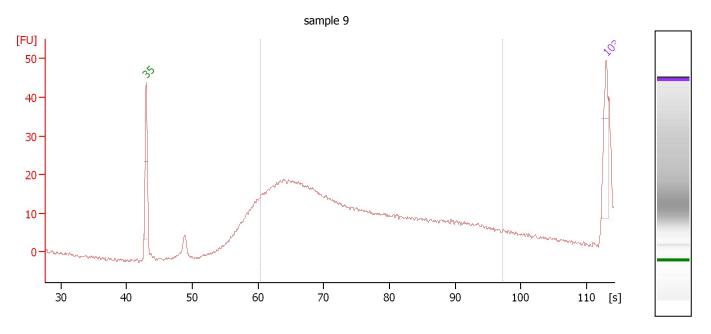
Peak to	Peak table for sample 8 : <u>sample 8</u>									
Pea k	Aligned Migration Tim	e [s] Size [b	p] Conc. [pg	/µl] Molarity [p	mol/l] Observations					
1	§ 43.00	35	125.00	5,411.3	Lower Marker					
2	48.78	80	61.12	1,150.6						
3	58.55	181	427.74	3,587.1						
4	59.93	195	221.68	1,718.7						
5	61.11	208	137.80	1,003.8						
6	62.13	219	108.04	748.0						
7	63.06	229	127.82	846.3						
8	63.88	238	90.43	576.9						
9	65.59	256	91.64	543.0						
10	67.66	278	59.21	322.9						
11	§ 113.00	10,380	75.00	10.9	Upper Marker					
12	113.12	10,462	0.00	0.0						
13 📝	<b>7</b> 113.28	10,572	0.00	0.0	excluded peak					
14	113.41	10,654	0.00	0.0						
Region	table for sample 8:	sample 8								
From	To [bp] Average Size	Molarity	Conc. Co	Corr. % of	Size distribution in					

From [bp]	10 Lpb	] Average Size [bp]	molarity [pmol/l]	Conc. [pg/µl]	lor Area	70 or Total	CV [%]
200	1,000	238	5,432.4	853.06	172.7	66	10.9

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad

### **Electropherogram Summary Continued ...**



# Overall Results for sample 9: sample 9

Number of peaks found: 0 Corr. Area 1: 65.4

Noise: 0.4

Peak table for sample 9 : <u>sample 9</u>

Pea k		Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	18	43.00	35	125.00	5,411.3	Lower Marker
2	PA	113.00	10,380	75.00	10.9	Upper Marker

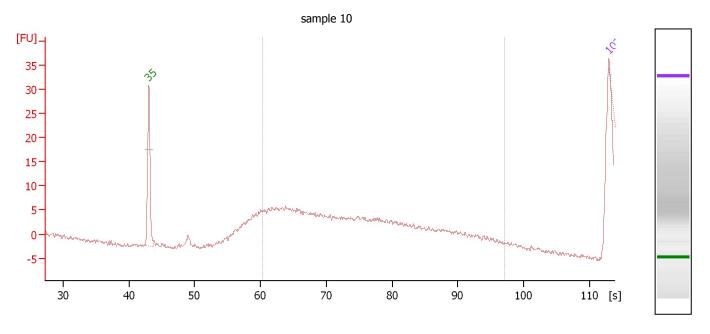
Region table for sample 9: sample 9

From	From To [bp] Average Size		Molarity Conc.		Co Corr.	% of	Size distribution in	
[bp]		[bp]	[pmol/l]	[pg/µl]	<u>lor</u> Area	Total	CV [%]	
200	1,000	243	2.012.7	323.24	65.4	89	10.1	

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad

### **Electropherogram Summary Continued ...**



Overall Results for sample 10 : sample 10

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

Noise: 0.5

Peak table for sample 10 : sample 10

rea k		Aligned Migration Time [S]	Size [bp]	Conc. [pg/µi]	Molarity [pmol/1]	Observations
1	18	43.00	35	125.00	5,411.3	Lower Marker
2	8	113.00	10,380	75.00	10.9	Upper Marker

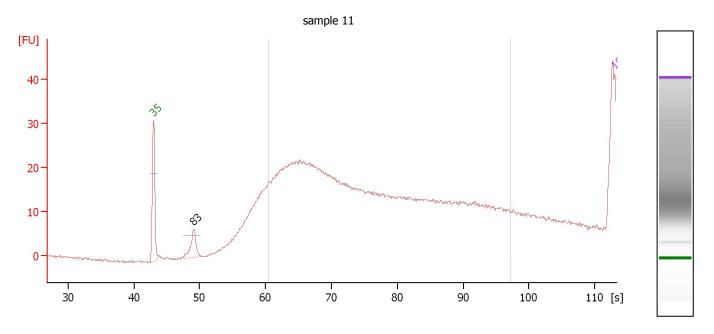
Region table for sample 10 : <u>sample 10</u>

		] Average Size	Molarity Conc.		Co Corr.	% of	Size distribution in	
[bp]		[bp]	[pmol/l]	[pg/µl]	<u>lor</u> Area	Total	CV [%]	
200	1,000	0	0.0	0.00	0.0	0	0.0	

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad

### **Electropherogram Summary Continued ...**



Overall Results for sample 11 : sample 11

Number of peaks found: 1 Corr. Area 1: 16.1

Noise: 0.2

Peak table for sample 11 : sample 11									
Pea	Aligned Migration Tim	ne [s] Size [bp]	Conc. [pg/µl]	Molarity [pmol/	I] Observations				
k	45								
1	<b>16</b> 43.00	35	125.00	5,411.3	Lower Marker				
2	49.07	83	22,508.19	410,101.3					
3	113.00	10,380	75.00	10.9	Upper Marker				
Region table for sample 11: sample 11									
From	1 To [bp] Average Size	Molarity Co	onc. Co Corr.	% of Siz	e distribution in				
[bp]	[bp]	[pmol/l] [p	g/µl] lor Area	Total CV	[%]				
200	1.000 240		791.51	100 6.5					

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4/14/2014 2:52:28 PM 4/14/2014 3:54:22 PM Assay Class: High Sensitivity DNA Assay Created: C:\\'...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad Data Path: Modified: **Gel Image** [5] sample 10 sample 11 sample 8 sample 3 sample 4 sample 5 Ladder sample 1 138 — 136 — 134 — 132 — 130 — 128 — 126 — 124 — 122 -120 — 118 — 116 — 114 — 112 — 110 — 108 — 106 — 104 — 102 — 100 — 98 — 96 — 94 — 92 — 90 — 88 — 86 — 84 — 82 — 80 — 78 — 76 **—** 74 — 72 — 70 — 68 — 66 — 64 — 62 — 60 — 58 — 56 **—** 54 — 52 **—** 50 — 48 — 46 — 44 — 42 — 40 — 38 — 36 **—** 34 **—** 32 **—** 30 **—** 28 — L 1 2 3 4 5 6 7 8 9 10 11

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Assay Class: High Sensitivity DNA Assay C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad C:\...ents and Settings\Bioanalyzer\2014-04-14\2014-04-14\_004.xad

#### **Run Logbook**

<b>Description</b> Run ended on port 1 (Number of wells acquired: 12)	Number	<b>Source</b> Instrument	<b>Category</b> Run	Sub Category	<b>Time</b> 4/14/2014 3:33:46 PM	<b>Time Zone</b> (GMT07:00) Pacific Standard Time	<b>User</b> UC Davis	<b>Host</b> D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioana yzer\2014-04-14\2014-04-14_004.xad)	4	Instrument	Run		4/14/2014 2:52:34 PM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Product Number: G2938B	r	Instrument	Run		4/14/2014 2:52:34 PM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Name :		Instrument	Run		4/14/2014 2:52:34 PM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Vendor : Agilent Technologies	t	Instrument	Run		4/14/2014 2:52:34 PM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/14/2014 2:52:34 PM	(GMT07:00) Pacific Standard Time		D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/14/2014 2:52:34 PM	(GMT07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/14/2014 2:52:34 PM	(GMT07:00) Pacific Standard Time		D8XSMGH1