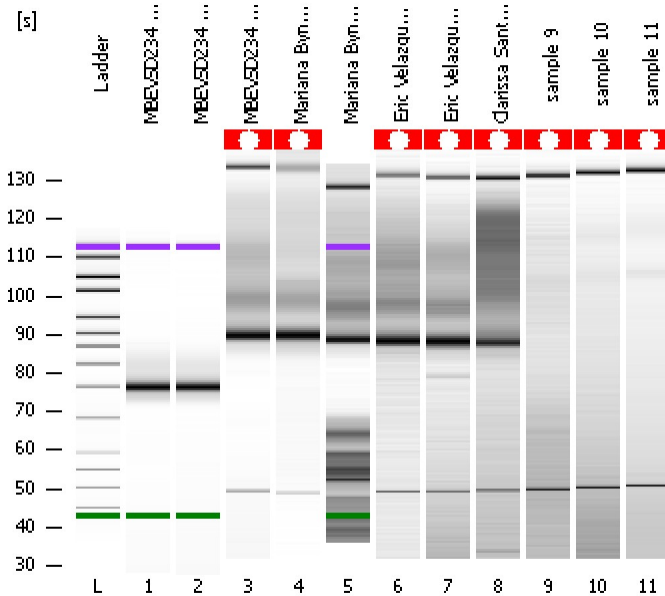


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
Modified: 4/22/2016 12:07:31 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\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

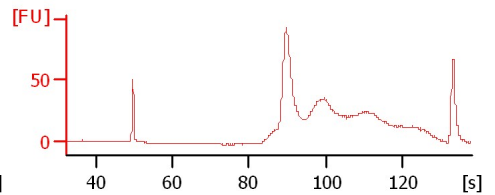
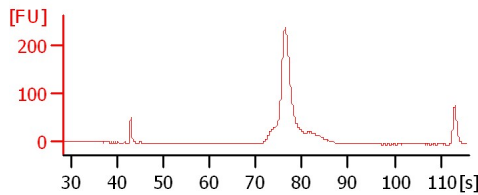
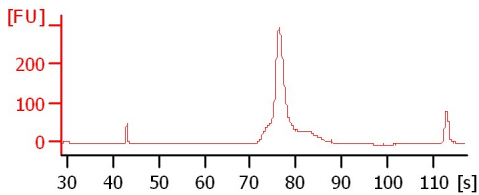
Chip Information:

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

MBEVSD234 Pippin 1

MBEVSD234 Pippin 2

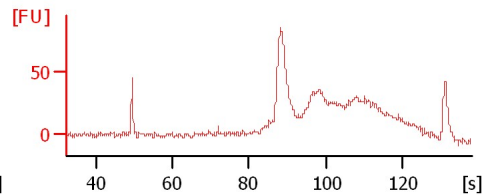
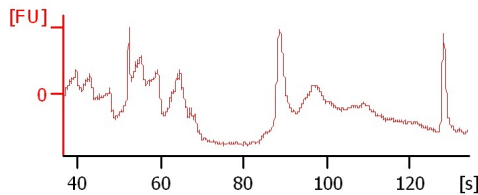
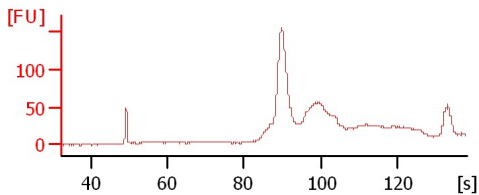
MBEVSD234 No Pippin



Eric Velazquez 89-116 ***

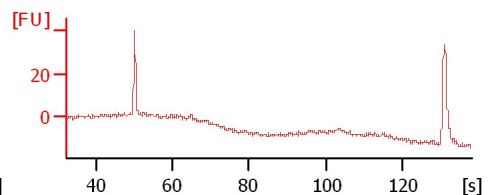
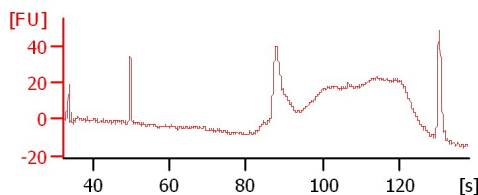
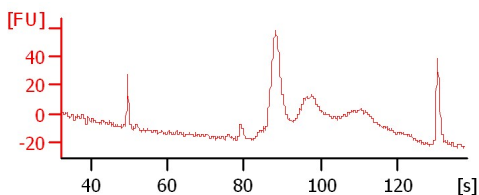
Clarissa Santos Rocha 1-24

sample 9



sample 10

sample 11



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
 Modified: 4/22/2016 12:07:31 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MBEVSD234 Pippin 1		<input type="checkbox"/>	✓			
MBEVSD234 Pippin 2		<input type="checkbox"/>	✓			
MBEVSD234 No Pippin		<input type="checkbox"/>	✓			
Mariana Byndloss 1-24		<input type="checkbox"/>	✓			
Mariana Byndloss 25-94		<input type="checkbox"/>	✓			
Eric Velazquez 1-88**		<input type="checkbox"/>	✓			
Eric Velazquez 89-116 ***		<input type="checkbox"/>	✓			
Clarissa Santos Rocha 1-24		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
Modified: 4/22/2016 12:07:31 PM

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

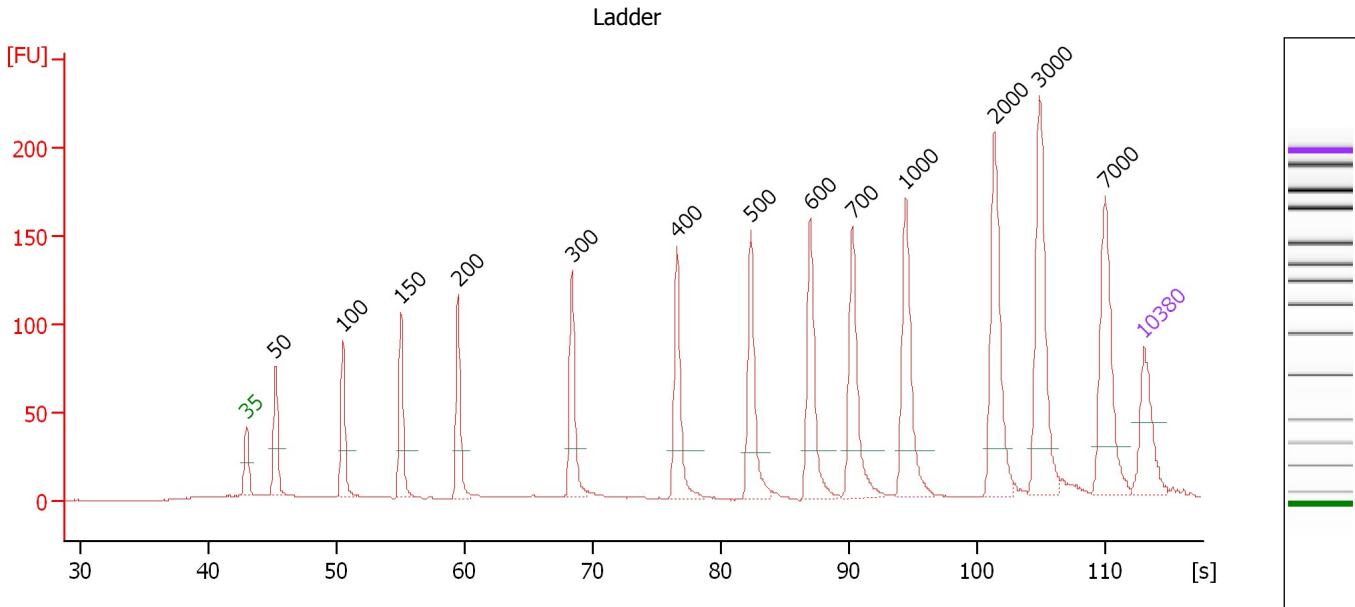
Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
 Modified: 4/22/2016 12:07:31 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

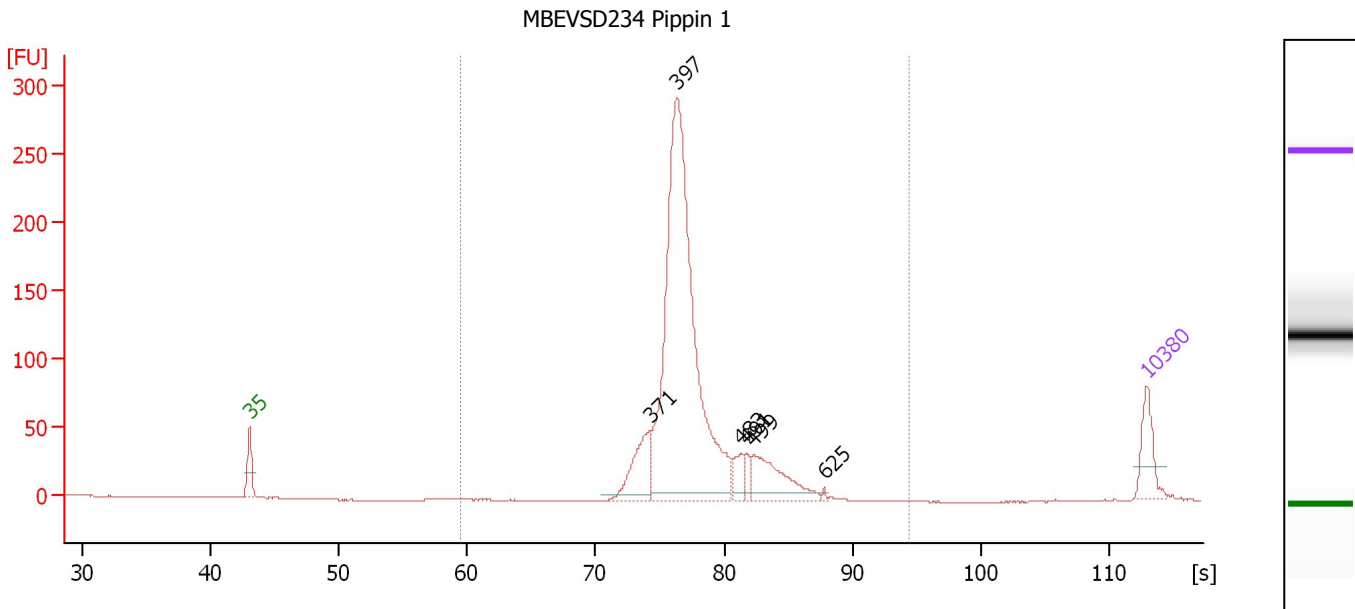
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.26
3	100	150.00	2,272.7	Ladder Peak	50.54
4	150	150.00	1,515.2	Ladder Peak	55.06
5	200	150.00	1,136.4	Ladder Peak	59.51
6	300	150.00	757.6	Ladder Peak	68.39
7	400	150.00	568.2	Ladder Peak	76.60
8	500	150.00	454.5	Ladder Peak	82.34
9	600	150.00	378.8	Ladder Peak	86.99
10	700	150.00	324.7	Ladder Peak	90.30
11	1,000	150.00	227.3	Ladder Peak	94.44
12	2,000	150.00	113.6	Ladder Peak	101.35
13	3,000	150.00	75.8	Ladder Peak	104.87
14	7,000	150.00	32.5	Ladder Peak	109.98
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
 Modified: 4/22/2016 12:07:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : MBEVSD234 Pippin 1

Number of peaks found: 6 Corr. Area 1: 1,274.4
 Noise: 0.3

Peak table for sample 1 : MBEVSD234 Pippin 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	371	162.22	661.7		74.25
3	397	1,412.00	5,389.7		76.35
4	483	47.69	149.5		81.37
5	491	31.55	97.4		81.79
6	499	170.02	516.0		82.29
7	625	4.06	9.8		87.82
8	10,380	75.00	10.9	Upper Marker	113.00

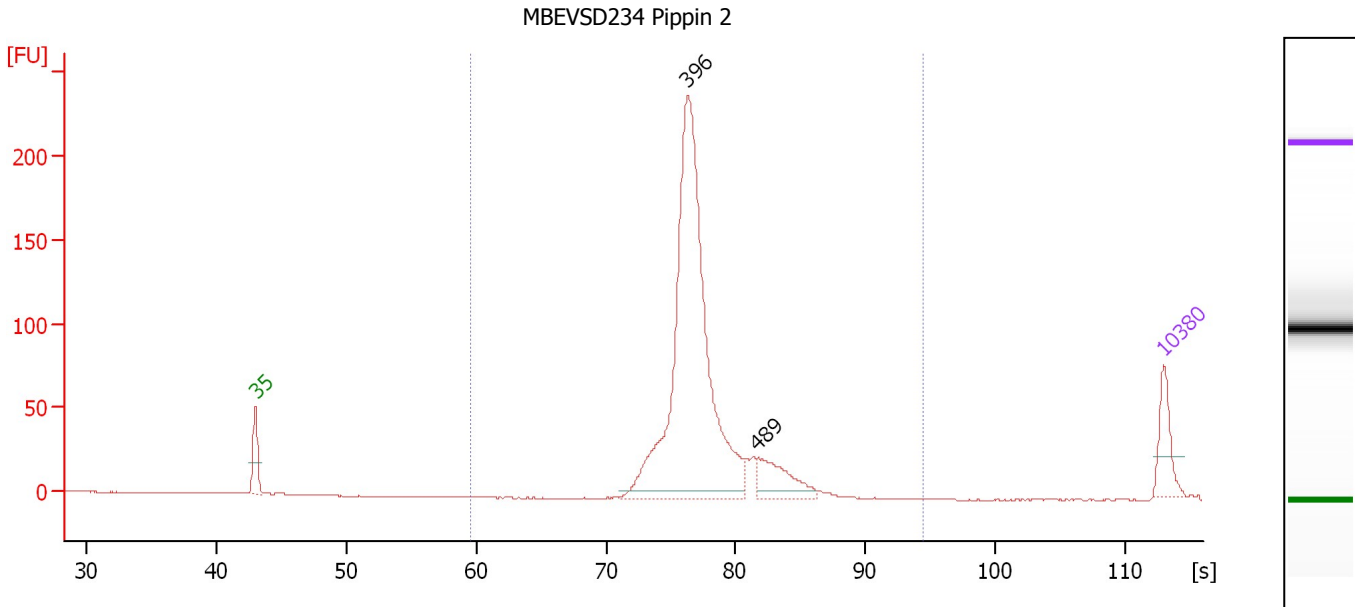
Region table for sample 1 : MBEVSD234 Pippin 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	419	1,274.4	6,492.7	1,771.88	100	11.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
 Modified: 4/22/2016 12:07:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : MBEVSD234 Pippin 2

Number of peaks found: 2 Corr. Area 1: 962.0
 Noise: 0.3

Peak table for sample 2 : MBEVSD234 Pippin 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	396	1,346.80	5,150.8		76.28
3	489	133.83	414.6		81.70
4	10,380	75.00	10.9	Upper Marker	113.00

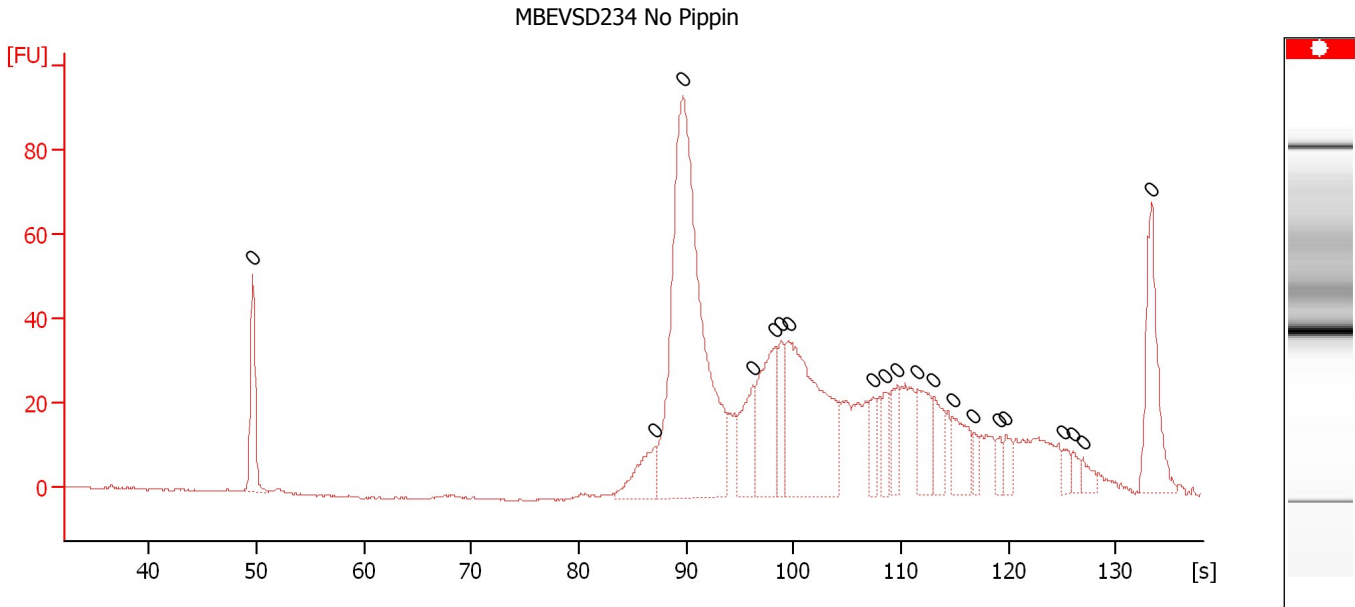
Region table for sample 2 : MBEVSD234 Pippin 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	416	962.0	5,386.1	1,462.66	100	10.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
 Modified: 4/22/2016 12:07:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : MBEVSD234 No Pippin

Number of peaks found: 0 Noise: 0.2

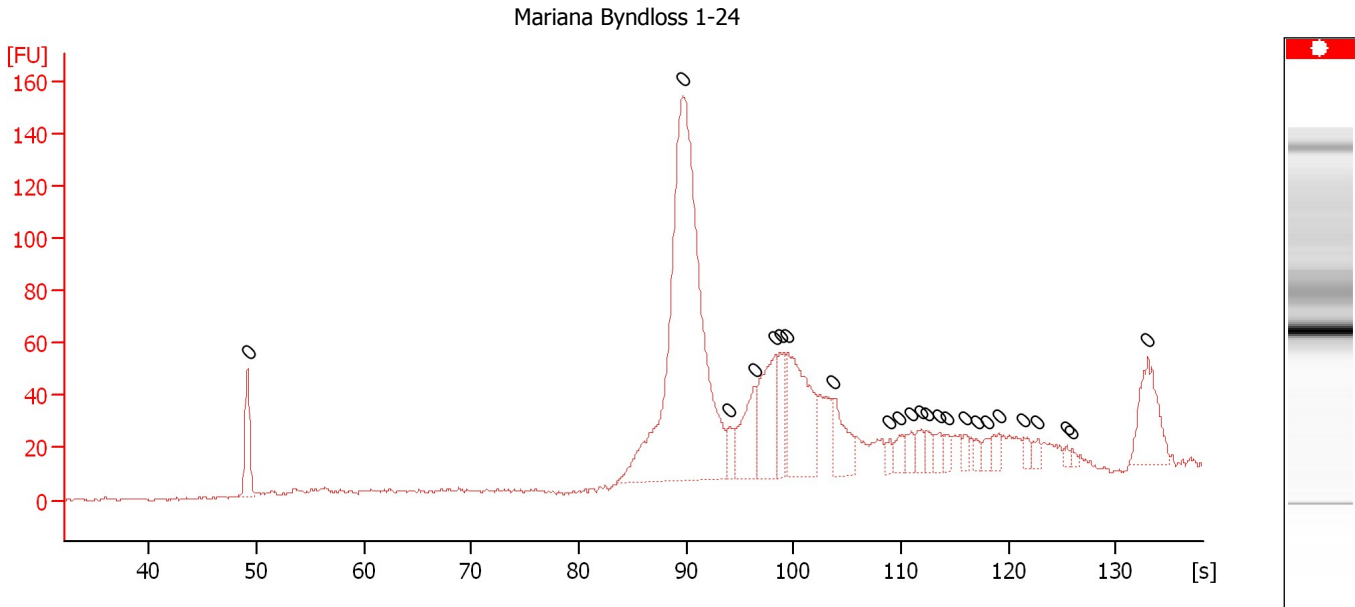
Peak table for sample 3 : MBEVSD234 No Pippin

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.65
2	0	0.00	0.0		87.05
3	0	0.00	0.0		89.65
4	0	0.00	0.0		96.20
5	0	0.00	0.0		98.35
6	0	0.00	0.0		98.80
7	0	0.00	0.0		99.50
8	0	0.00	0.0		107.45
9	0	0.00	0.0		108.45
10	0	0.00	0.0		109.65
11	0	0.00	0.0		111.55
12	0	0.00	0.0		113.05
13	0	0.00	0.0		114.85
14	0	0.00	0.0		116.75
15	0	0.00	0.0		119.10
16	0	0.00	0.0		119.75
17	0	0.00	0.0		125.10
18	0	0.00	0.0		126.00
19	0	0.00	0.0		126.90
20	0	0.00	0.0		133.30

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
 Modified: 4/22/2016 12:07:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Mariana Byndloss 1-24

Number of peaks found: 0 Noise: 0.6

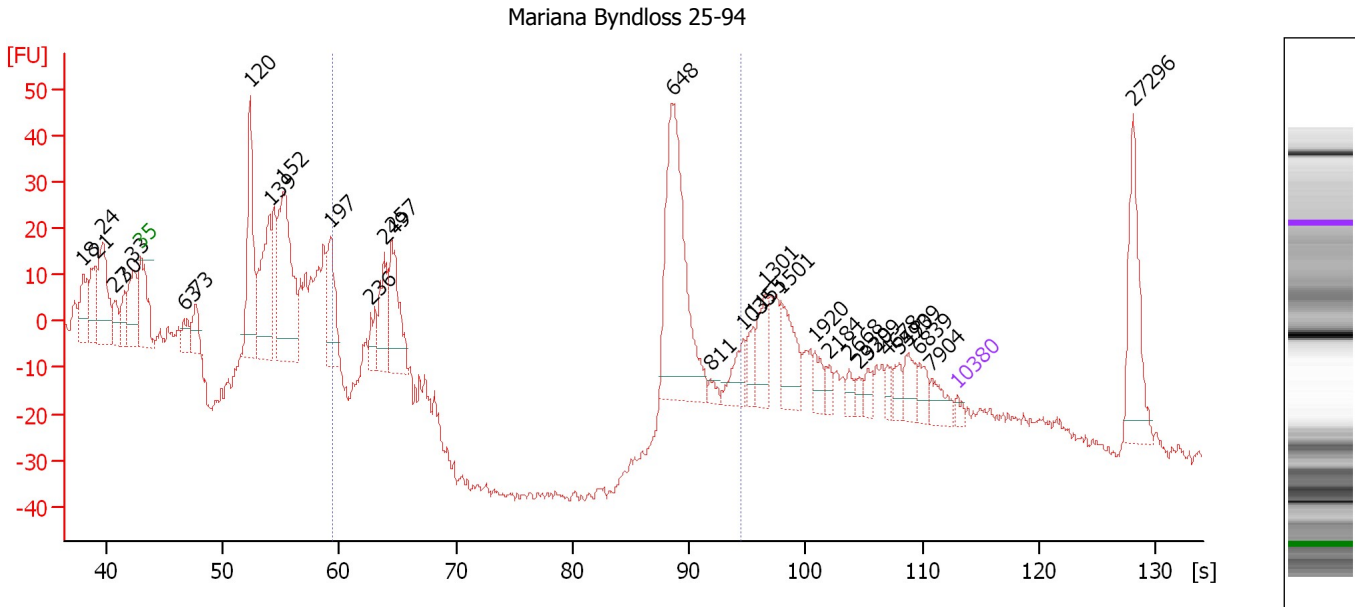
Peak table for sample 4 : Mariana Byndloss 1-24

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.15
2	0	0.00	0.0		89.65
3	0	0.00	0.0		94.05
4	0	0.00	0.0		96.35
5	0	0.00	0.0		98.25
6	0	0.00	0.0		98.75
7	0	0.00	0.0		99.45
8	0	0.00	0.0		103.70
9	0	0.00	0.0		108.90
10	0	0.00	0.0		109.90
11	0	0.00	0.0		110.95
12	0	0.00	0.0		111.85
13	0	0.00	0.0		112.35
14	0	0.00	0.0		113.50
15	0	0.00	0.0		114.25
16	0	0.00	0.0		115.90
17	0	0.00	0.0		117.00
18	0	0.00	0.0		117.95
19	0	0.00	0.0		119.05
20	0	0.00	0.0		121.45
21	0	0.00	0.0		122.75
22	0	0.00	0.0		125.45
23	0	0.00	0.0		125.90
24	0	0.00	0.0		132.95

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
 Modified: 4/22/2016 12:07:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Mariana Byndloss 25-94

Number of peaks found: 32 Corr. Area 1: 216.4
 Noise: 1.2

Peak table for sample 5 : Mariana Byndloss 25-94

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	18	0.00	0.0		38.08
2	21	0.00	0.0		39.13
3	24	0.00	0.0		39.73
4	27	0.00	0.0		40.74
5	30	0.00	0.0		41.57
6	33	0.00	0.0		42.36
7	35	125.00	5,411.3	Lower Marker	43.00
8	63	424.63	10,140.1		46.68
9	73	528.12	10,890.4		47.74
10	120	2,393.15	30,109.8		52.39
11	139	2,172.90	23,730.6		54.05
12	152	3,265.27	32,549.3		55.24
13	197	1,152.84	8,862.9		59.25
14	236	398.92	2,556.1		62.74
15	249	848.70	5,155.6		63.89
16	257	1,368.48	8,078.1		64.54
17	648	3,277.42	7,667.5		88.56
18	811	101.80	190.2		91.83
19	1,035	396.57	580.6		94.68
20	1,155	256.89	337.1		95.51
21	1,301	516.41	601.3		96.52
22	1,501	647.13	653.3		97.90
23	1,920	208.75	164.7		100.80
24	2,184	146.42	101.6		102.00
25	2,668	127.85	72.6		103.70

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
 Modified: 4/22/2016 12:07:31 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : Mariana Byndloss 25-94

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,929	94.24	48.7		104.62
27	3,309	135.72	62.1		105.27
28	4,678	118.48	38.4		107.02
29	5,470	160.19	44.4		108.03
30	5,939	277.61	70.8		108.63
31	6,839	213.33	47.3		109.78
32	7,904	255.35	48.9		110.79
33	10,380	75.00	10.9	Upper Marker	113.00
34	27,296	0.00	0.0		128.10

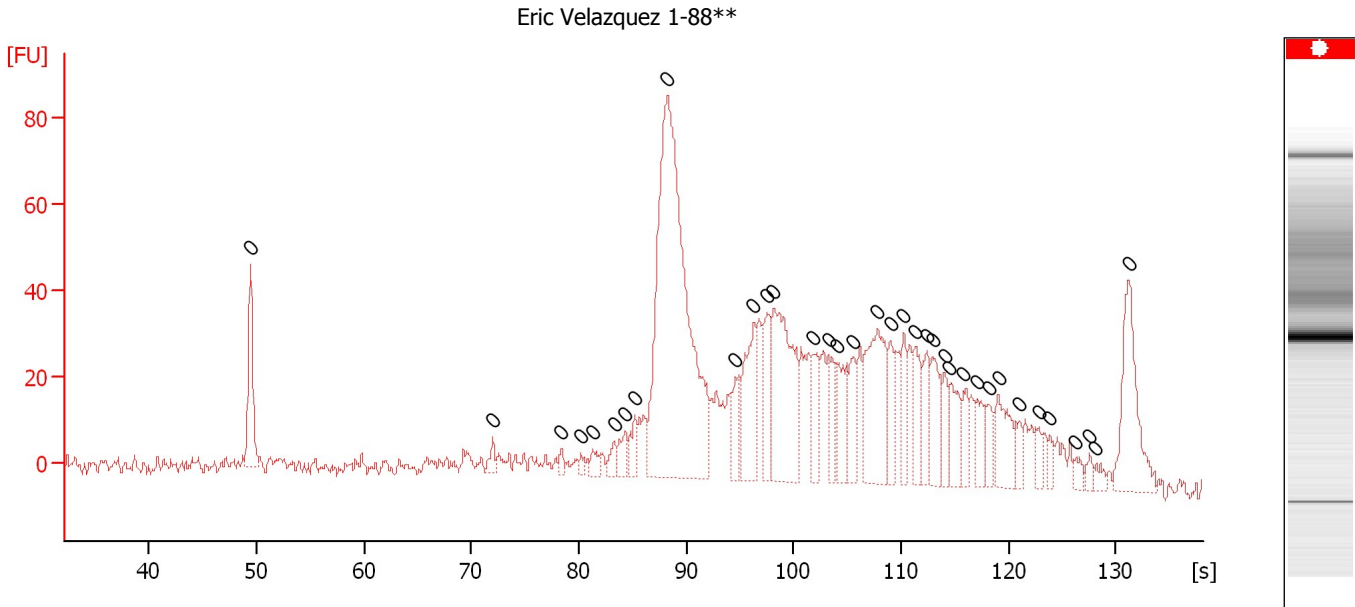
Region table for sample 5 : Mariana Byndloss 25-94

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	572	216.4	19,148.3	5,117.03	24	35.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
 Modified: 4/22/2016 12:07:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Eric Velazquez 1-88**

Number of peaks found: 0 Noise: 1.6

Peak table for sample 6 : Eric Velazquez 1-88**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.45
2	0	0.00	0.0		72.00
3	0	0.00	0.0		78.40
4	0	0.00	0.0		80.20
5	0	0.00	0.0		81.30
6	0	0.00	0.0		83.30
7	0	0.00	0.0		84.30
8	0	0.00	0.0		85.20
9	0	0.00	0.0		88.25
10	0	0.00	0.0		94.60
11	0	0.00	0.0		96.30
12	0	0.00	0.0		97.55
13	0	0.00	0.0		98.15
14	0	0.00	0.0		101.85
15	0	0.00	0.0		103.25
16	0	0.00	0.0		104.05
17	0	0.00	0.0		105.50
18	0	0.00	0.0		107.85
19	0	0.00	0.0		109.00
20	0	0.00	0.0		110.25
21	0	0.00	0.0		111.30
22	0	0.00	0.0		112.35
23	0	0.00	0.0		112.90
24	0	0.00	0.0		114.05
25	0	0.00	0.0		114.55
26	0	0.00	0.0		115.85
27	0	0.00	0.0		117.05

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
Modified: 4/22/2016 12:07:31 PM

Electropherogram Summary Continued ...

... Peak table for sample 6 : Eric Velazquez 1-88**

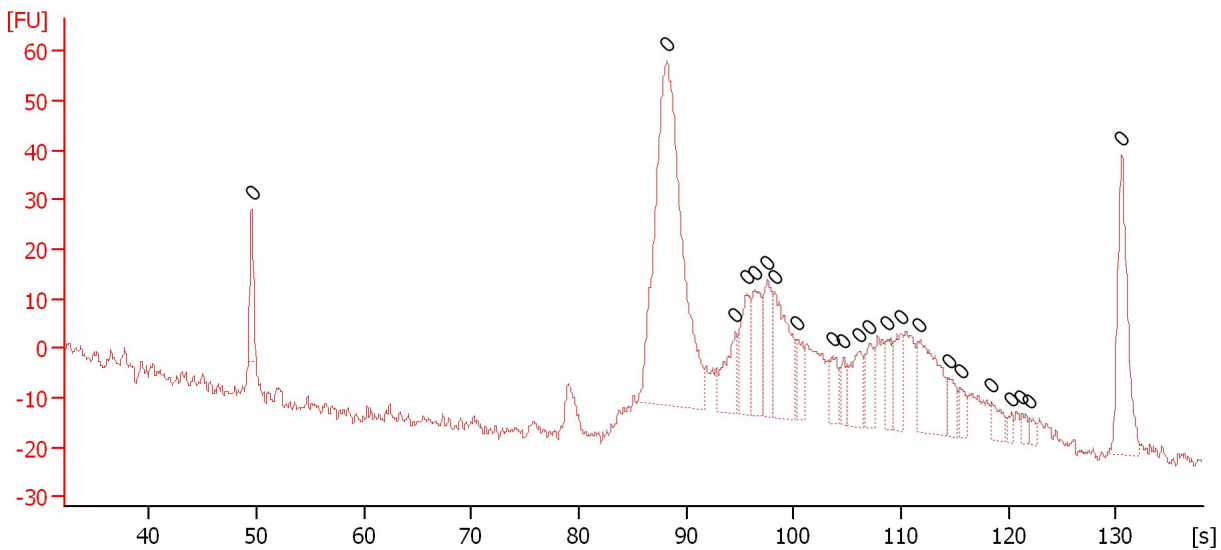
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		118.20
29	0	0.00	0.0		119.05
30	0	0.00	0.0		121.00
31	0	0.00	0.0		122.80
32	0	0.00	0.0		123.85
33	0	0.00	0.0		126.25
34	0	0.00	0.0		127.55
35	0	0.00	0.0		128.15
36	0	0.00	0.0		131.20

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
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Electropherogram Summary Continued ...

Eric Velazquez 89-116 ***



Overall Results for sample 7 : Eric Velazquez 89-116 ***

Number of peaks found: 0 Noise: 1.2

Peak table for sample 7 : Eric Velazquez 89-116 ***

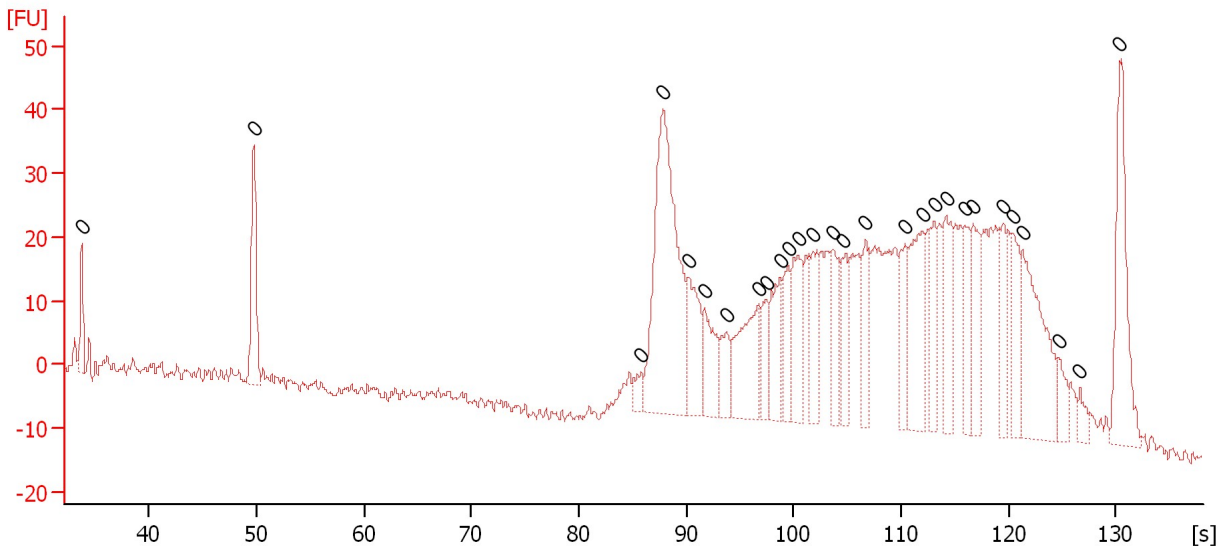
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.55
2	0	0.00	0.0		88.20
3	0	0.00	0.0		94.55
4	0	0.00	0.0		95.65
5	0	0.00	0.0		96.40
6	0	0.00	0.0		97.60
7	0	0.00	0.0		98.20
8	0	0.00	0.0		100.30
9	0	0.00	0.0		103.65
10	0	0.00	0.0		104.65
11	0	0.00	0.0		106.05
12	0	0.00	0.0		107.10
13	0	0.00	0.0		108.75
14	0	0.00	0.0		110.00
15	0	0.00	0.0		111.65
16	0	0.00	0.0		114.50
17	0	0.00	0.0		115.50
18	0	0.00	0.0		118.45
19	0	0.00	0.0		120.20
20	0	0.00	0.0		121.25
21	0	0.00	0.0		122.00
22	0	0.00	0.0		130.55

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

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Electropherogram Summary Continued ...

Clarissa Santos Rocha 1-24



Overall Results for sample 8 : Clarissa Santos Rocha 1-24

Number of peaks found: 0 Noise: 0.5

Peak table for sample 8 : Clarissa Santos Rocha 1-24

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		33.70
2	0	0.00	0.0		49.75
3	0	0.00	0.0		85.80
4	0	0.00	0.0		87.85
5	0	0.00	0.0		90.20
6	0	0.00	0.0		91.65
7	0	0.00	0.0		93.80
8	0	0.00	0.0		96.70
9	0	0.00	0.0		97.45
10	0	0.00	0.0		98.75
11	0	0.00	0.0		99.50
12	0	0.00	0.0		100.45
13	0	0.00	0.0		101.80
14	0	0.00	0.0		103.65
15	0	0.00	0.0		104.55
16	0	0.00	0.0		106.70
17	0	0.00	0.0		110.35
18	0	0.00	0.0		112.00
19	0	0.00	0.0		113.10
20	0	0.00	0.0		114.20
21	0	0.00	0.0		115.90
22	0	0.00	0.0		116.75
23	0	0.00	0.0		119.50
24	0	0.00	0.0		120.40
25	0	0.00	0.0		121.30
26	0	0.00	0.0		124.65
27	0	0.00	0.0		126.60

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
Modified: 4/22/2016 12:07:31 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : Clarissa Santos Rocha 1-24

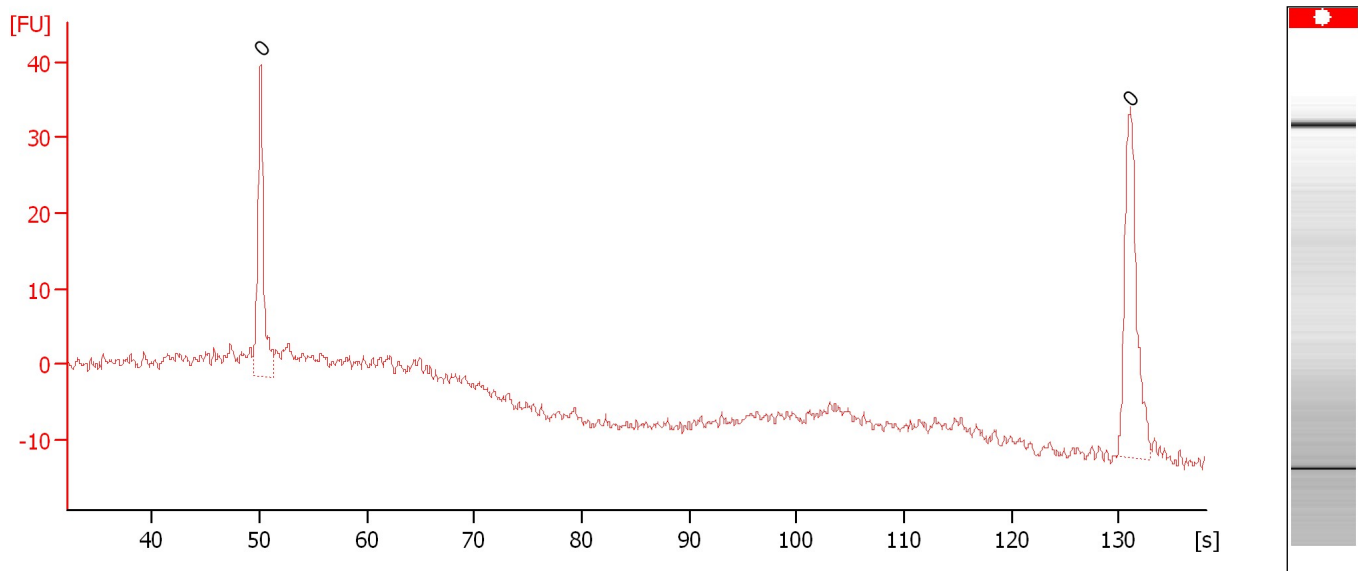
Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		130.40

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
 Modified: 4/22/2016 12:07:31 PM

Electropherogram Summary Continued ...

sample 9



Overall Results for sample 9 : sample 9

Number of peaks found: 0 Noise: 1.0

Peak table for sample 9 : sample 9

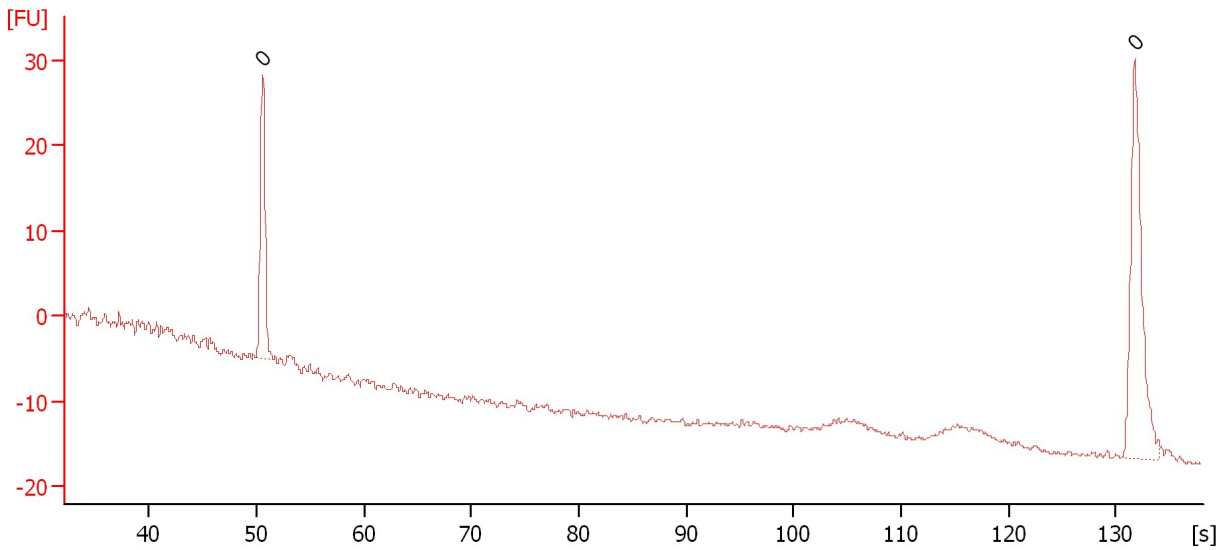
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.10
2	0	0.00	0.0		131.05

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
Modified: 4/22/2016 12:07:31 PM

Electropherogram Summary Continued ...

sample 10



Overall Results for sample 10 : sample 10

Number of peaks found: 0 Noise: 0.4

Peak table for sample 10 : sample 10

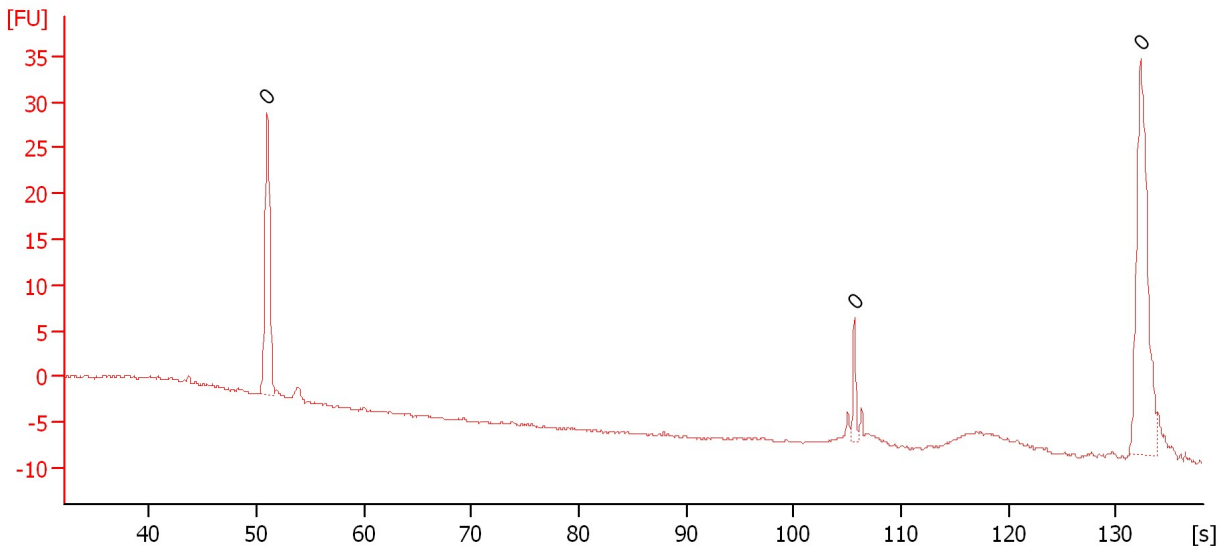
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.60
2	0	0.00	0.0		131.75

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
Modified: 4/22/2016 12:07:31 PM

Electropherogram Summary Continued ...

sample 11



Overall Results for sample 11 : sample 11

Number of peaks found: 0 Noise: 0.2

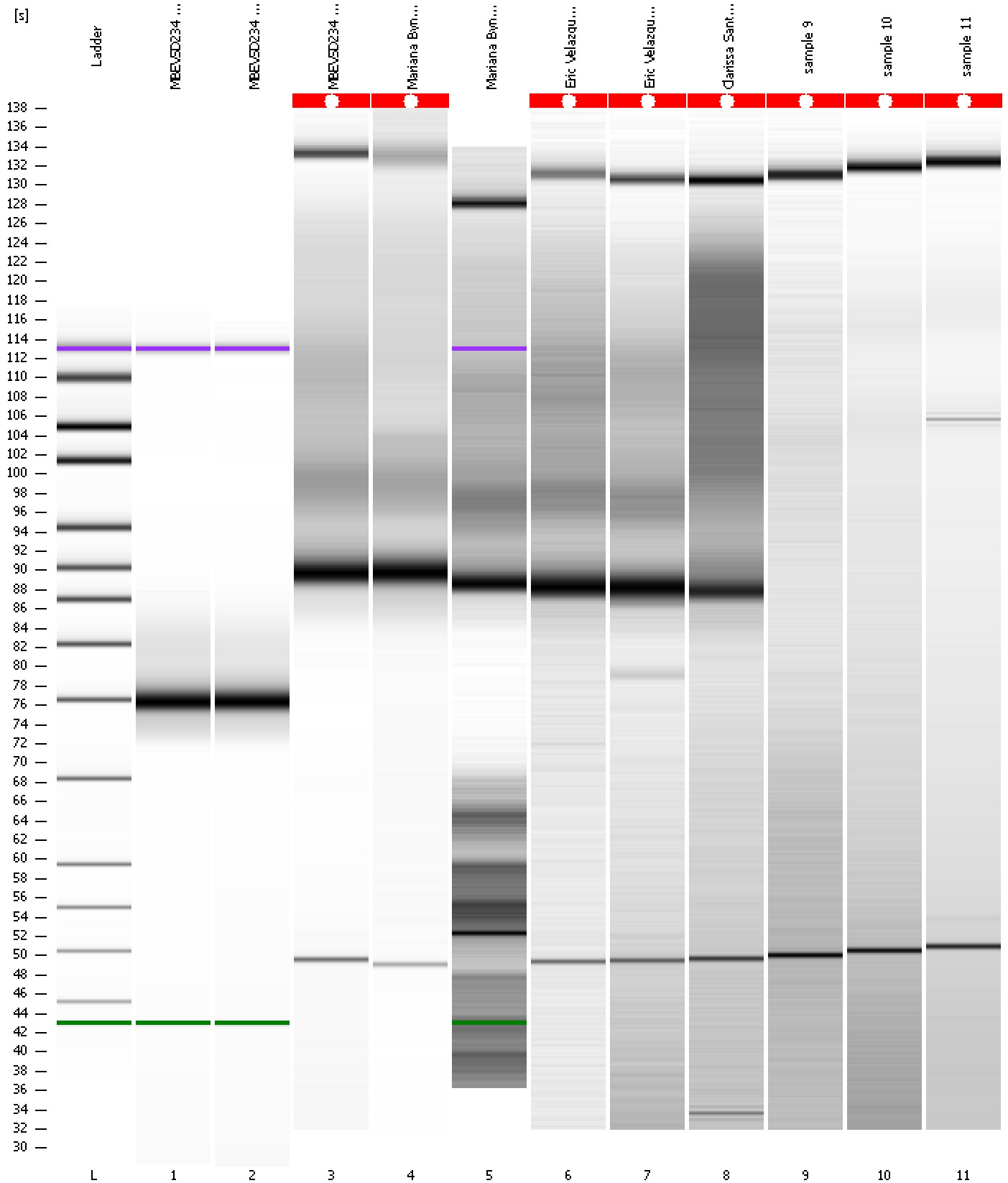
Peak table for sample 11 : sample 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		51.00
2	0	0.00	0.0		105.65
3	0	0.00	0.0		132.30

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
Modified: 4/22/2016 12:07:31 PM

Gel Image

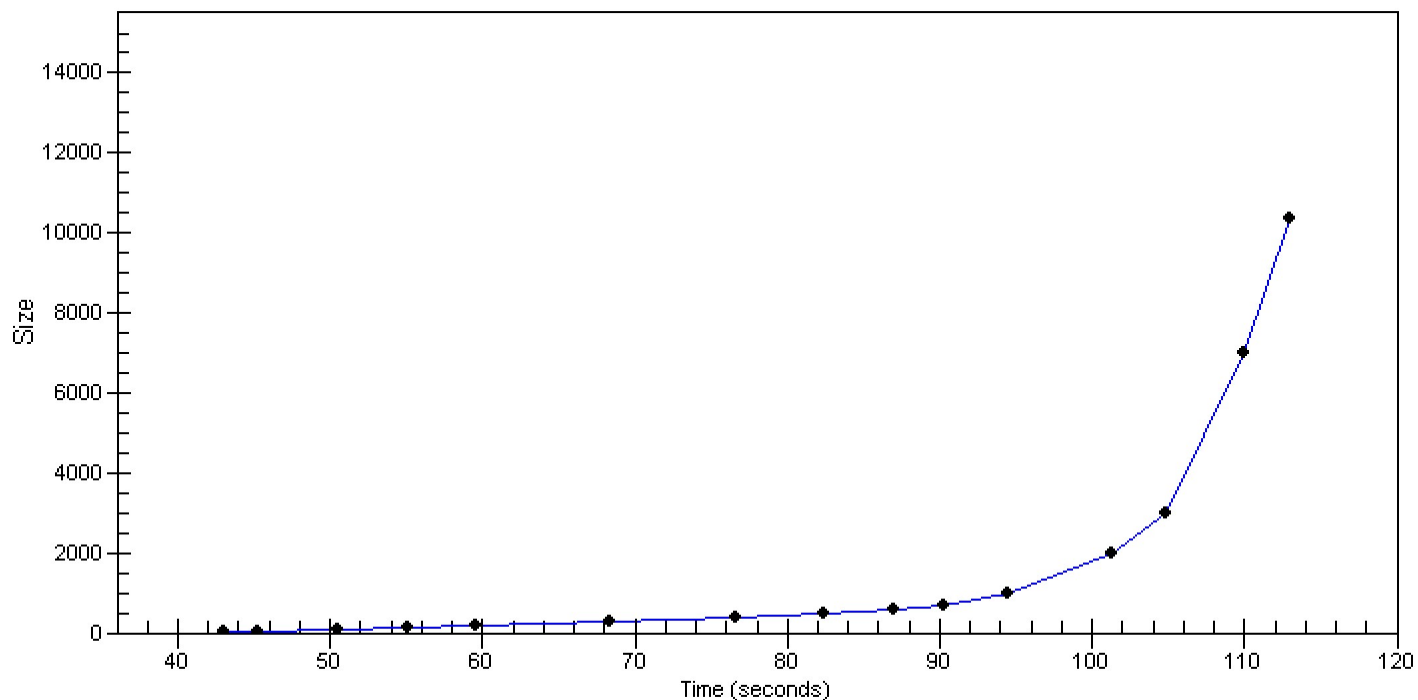


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
Modified: 4/22/2016 12:07:31 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad

Created: 4/20/2016 9:06:35 AM
 Modified: 4/22/2016 12:07:31 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		4/20/2016 9:47:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_002.xad)		Instrument	Run		4/20/2016 9:06:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/20/2016 9:06:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/20/2016 9:06:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/20/2016 9:06:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/20/2016 9:06:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/20/2016 9:06:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/20/2016 9:06:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1