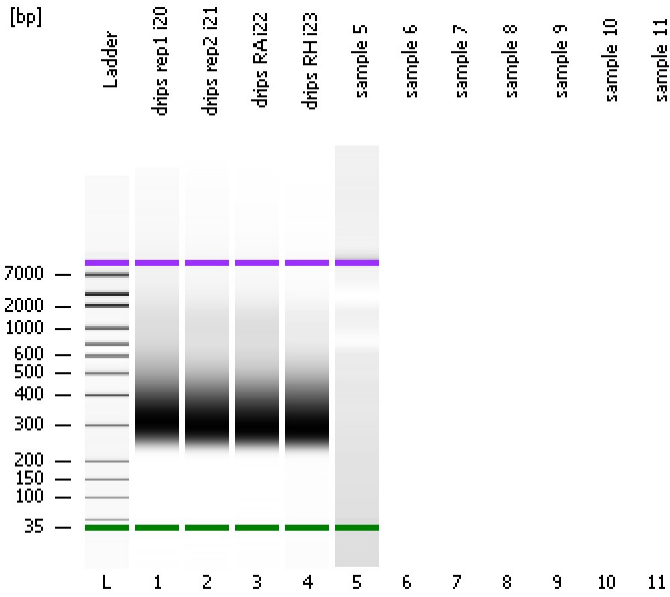


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-06\2016-09-06_001.xad

Created: 9/6/2016 10:28:10 AM
Modified: 9/6/2016 10:52:20 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

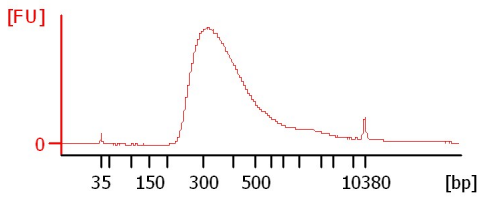
Assay Information:

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

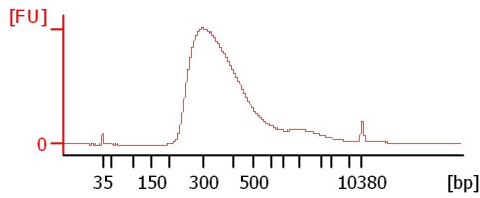
Chip Information:

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

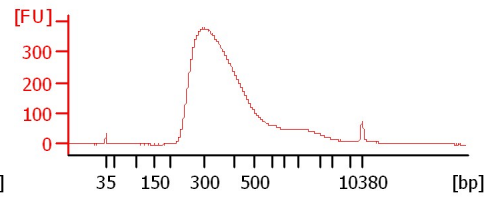
drips rep1 i20



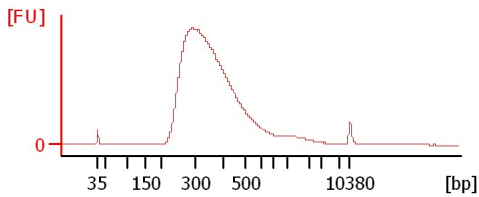
drips rep2 i21



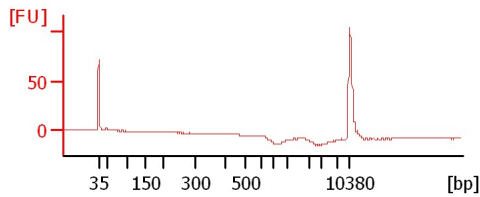
drips RA i22



drips RH i23



sample 5



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-06\2016-09-06_001.xad

Created: 9/6/2016 10:28:10 AM
 Modified: 9/6/2016 10:52:20 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
drips rep1 i20		<input type="checkbox"/>	✓			
drips rep2 i21		<input type="checkbox"/>	✓			
drips RA i22		<input type="checkbox"/>	✓			
drips RH i23		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>				
sample 7		<input type="checkbox"/>				
sample 8		<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\2016-09-06\2016-09-06_001.xad

Created: 9/6/2016 10:28:10 AM
Modified: 9/6/2016 10:52:20 AM

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

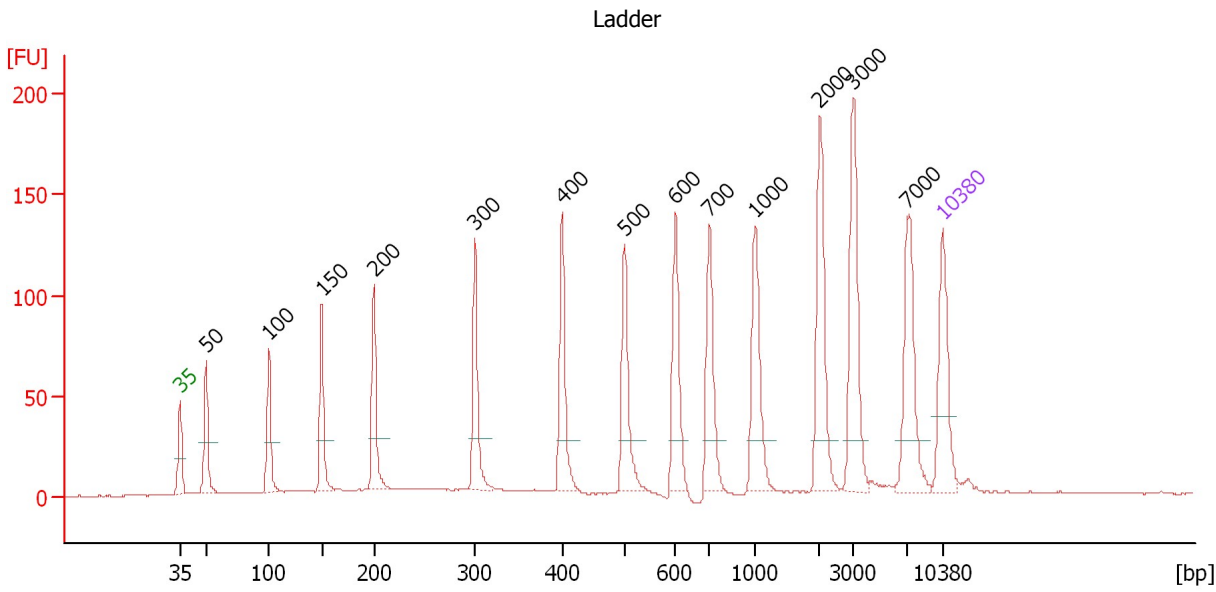
Ladder

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\2016-09-06\2016-09-06_001.xad

Created: 9/6/2016 10:28:10 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

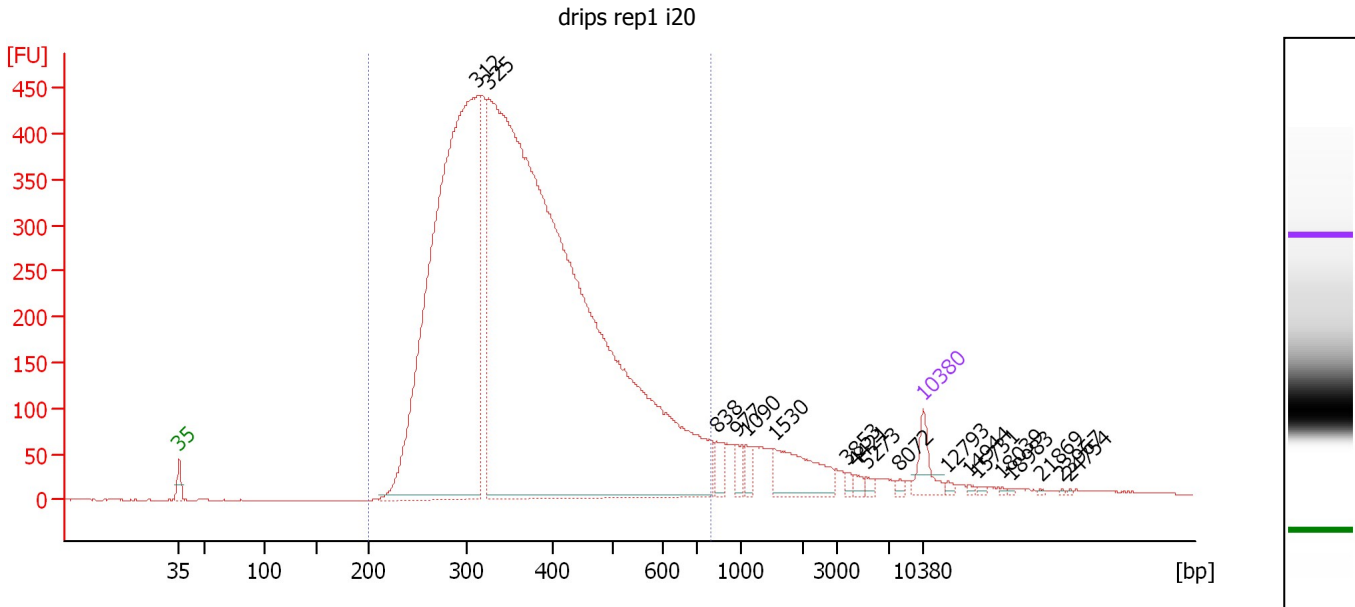
Peak table for Ladder

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	45.40
3	100	150.00	2,272.7	Ladder Peak	51.13
4	150	150.00	1,515.2	Ladder Peak	56.02
5	200	150.00	1,136.4	Ladder Peak	60.77
6	300	150.00	757.6	Ladder Peak	70.07
7	400	150.00	568.2	Ladder Peak	78.05
8	500	150.00	454.5	Ladder Peak	83.83
9	600	150.00	378.8	Ladder Peak	88.48
10	700	150.00	324.7	Ladder Peak	91.61
11	1,000	150.00	227.3	Ladder Peak	95.82
12	2,000	150.00	113.6	Ladder Peak	101.74
13	3,000	150.00	75.8	Ladder Peak	104.83
14	7,000	150.00	32.5	Ladder Peak	109.77
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-06\2016-09-06_001.xad

Created: 9/6/2016 10:28:10 AM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : drips rep1 i20

Number of peaks found: 18 Corr. Area 1: 9,405.4
 Noise: 0.4

Peak table for sample 1 : drips rep1 i20

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	312	3,685.46	17,895.6		71.03
3	325	7,335.74	34,175.0		72.08
4	838	54.31	98.2		93.54
5	977	39.27	60.9		95.50
6	1,090	44.80	62.3		96.35
7	1,530	204.29	202.3		98.96
8	3,853	14.18	5.6		105.88
9	4,421	18.24	6.3		106.58
10	5,273	12.99	3.7		107.63
11	8,072	11.65	2.2		110.79
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,793	0.00	0.0		115.31
14	14,944	0.00	0.0		117.36
15	15,731	0.00	0.0		118.11
16	18,039	0.00	0.0		120.32
17	18,983	0.00	0.0		121.22
18	21,869	0.00	0.0		123.98
19	23,967	0.00	0.0		125.99
20	24,754	0.00	0.0		126.74

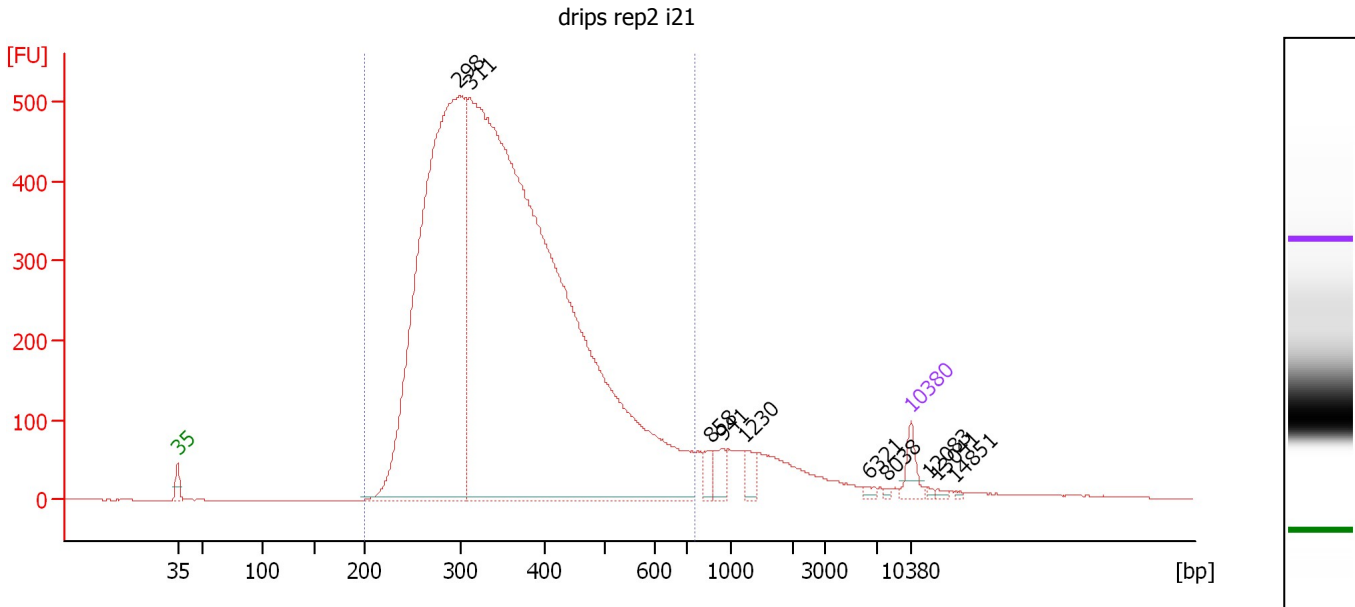
Region table for sample 1 : drips rep1 i20

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	805	380	9,405.4	46,010.3	10,526.31	92	27.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-06\2016-09-06_001.xad

Created: 9/6/2016 10:28:10 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : drips rep2 i21

Number of peaks found: 10 Corr. Area 1: 10,621.2
 Noise: 0.3

Peak table for sample 2 : drips rep2 i21

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	298	4,570.38	23,214.7		69.91
3	311	9,341.35	45,544.4		70.93
4	858	65.32	115.4		93.82
5	941	80.06	128.9		94.99
6	1,230	60.13	74.1		97.18
7	6,321	15.57	3.7		108.93
8	8,038	8.20	1.5		110.76
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,083	0.00	0.0		114.63
11	13,041	0.00	0.0		115.54
12	14,851	0.00	0.0		117.27

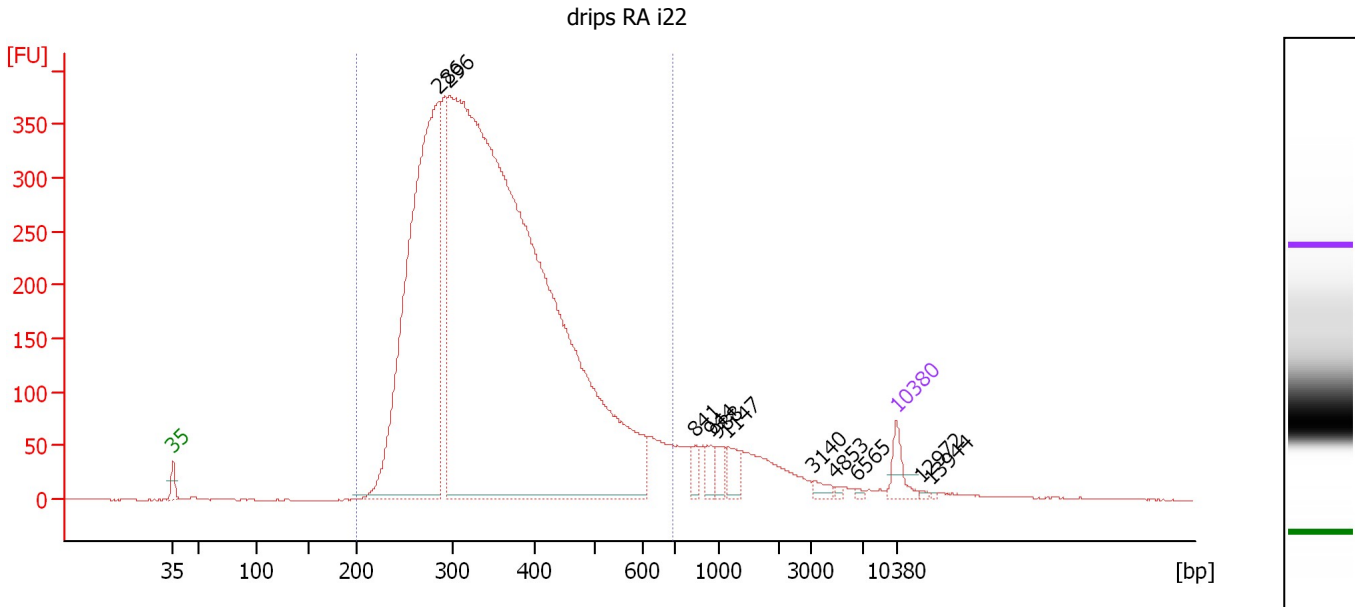
Region table for sample 2 : drips rep2 i21

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	755	365	10,621.2	57,675.7	12,766.79	92	26.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-06\2016-09-06_001.xad

Created: 9/6/2016 10:28:10 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : drips RA i22

Number of peaks found: 11 Corr. Area 1: 7,755.4
 Noise: 0.3

Peak table for sample 3 : drips RA i22

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	286	3,142.47	16,653.1		68.76
3	296	9,162.85	46,830.0		69.74
4	841	51.09	92.0		93.59
5	944	55.07	88.4		95.04
6	988	62.26	95.4		95.65
7	1,147	75.03	99.1		96.69
8	3,140	30.45	14.7		105.00
9	4,853	8.83	2.8		107.12
10	6,565	8.21	1.9		109.23
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,972	0.00	0.0		115.48
13	13,944	0.00	0.0		116.41

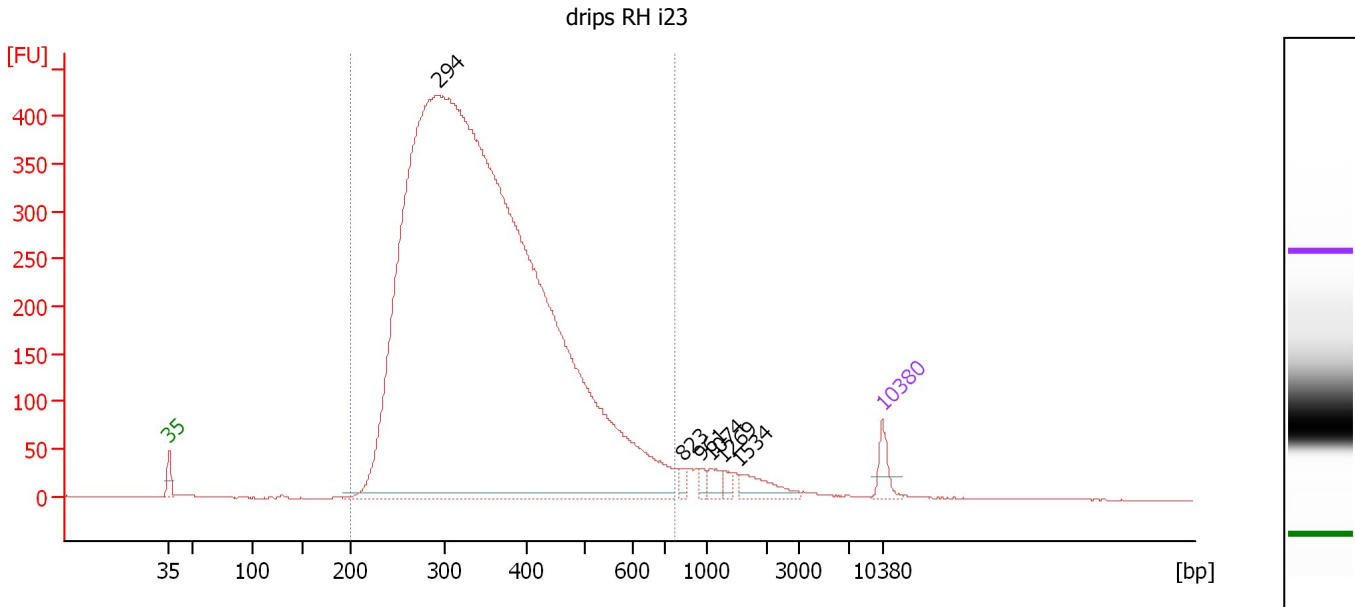
Region table for sample 3 : drips RA i22

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	691	359	7,755.4	53,945.6	11,814.27	91	25.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-06\2016-09-06_001.xad

Created: 9/6/2016 10:28:10 AM
 Modified: 9/6/2016 10:52:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : drips RH i23

Number of peaks found: 6 Corr. Area 1: 8,852.3
 Noise: 0.3

Peak table for sample 4 : drips RH i23

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	294	15,426.52	79,464.5		69.52
3	823	33.98	62.6		93.33
4	961	28.81	45.5		95.26
5	1,074	56.46	79.6		96.26
6	1,269	33.36	39.8		97.41
7	1,534	113.60	112.2		98.98
8	10,380	75.00	10.9	Upper Marker	113.00

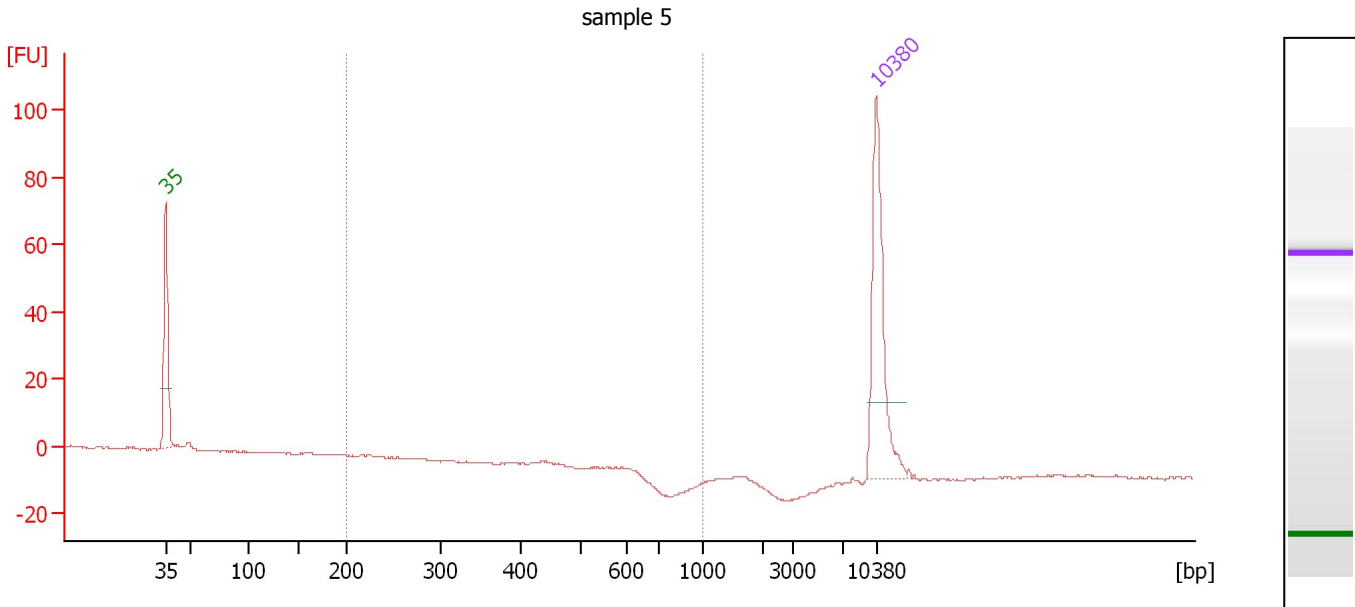
Region table for sample 4 : drips RH i23

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	773	359	8,852.3	63,701.2	13,880.66	96	26.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-06\2016-09-06_001.xad

Created: 9/6/2016 10:28:10 AM
 Modified: 9/6/2016 10:52:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

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

Peak table for sample 5 : sample 5

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	10,380	75.00	10.9	Upper Marker	113.00

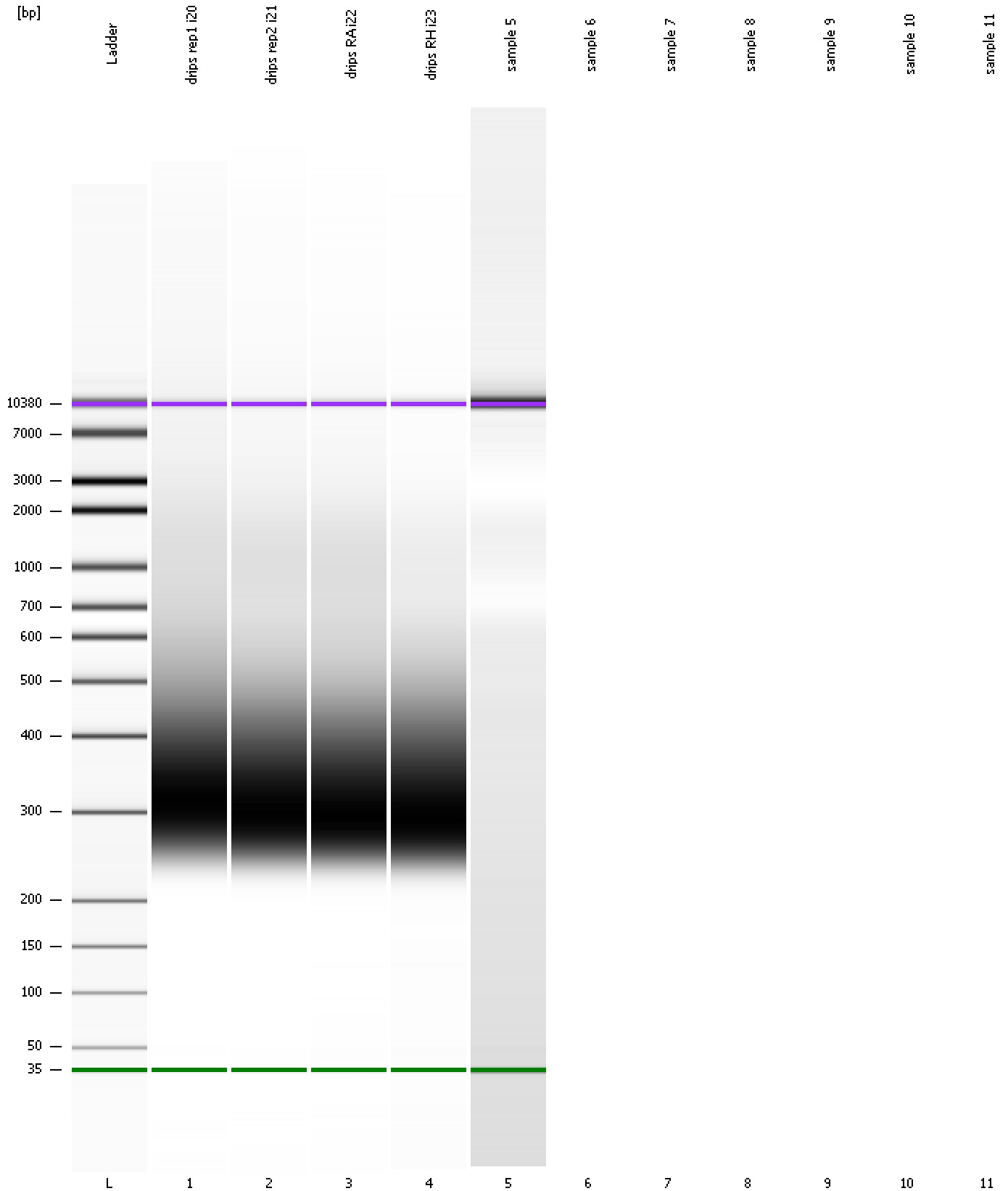
Region table for sample 5 : sample 5

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	0	0.0	0.0	0.00	0	0.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-06\2016-09-06_001.xad

Created: 9/6/2016 10:28:10 AM
Modified: 9/6/2016 10:52:20 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-06\2016-09-06_001.xad

Created: 9/6/2016 10:28:10 AM
Modified: 9/6/2016 10:52:20 AM

Invalid Samples

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay Created: 9/6/2016 10:28:10 AM
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-06\2016-09-06_001.xad Modified: 9/6/2016 10:52:20 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 6)		Instrument	Run		9/6/2016 10:52:19 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\2016-09-06\2016-09-06_001.xad)		Instrument	Run		9/6/2016 10:28:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/6/2016 10:28:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/6/2016 10:28:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/6/2016 10:28:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/6/2016 10:28:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/6/2016 10:28:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/6/2016 10:28:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1