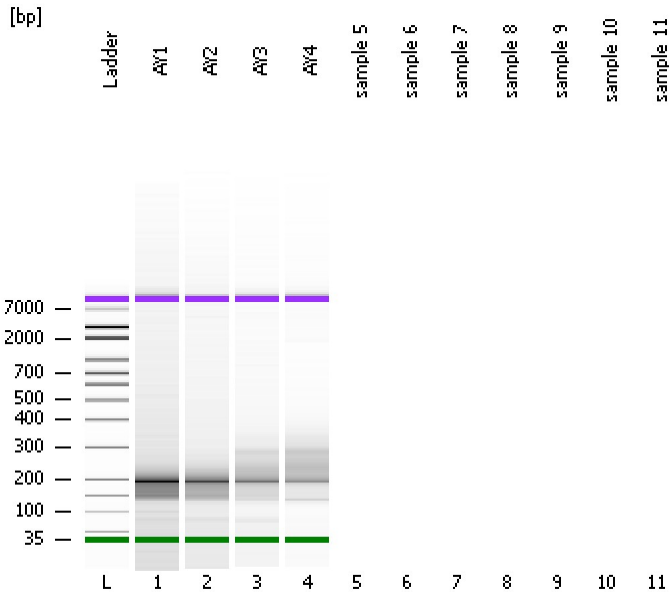


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-23\2019-09-23_001.xad

Created: 9/23/2019 12:17:39 PM
Modified: 9/23/2019 12:38:57 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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

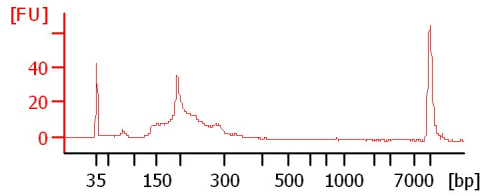
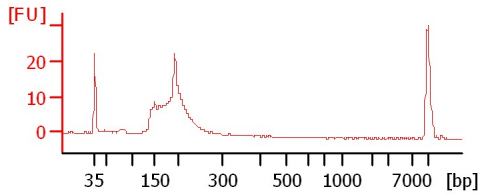
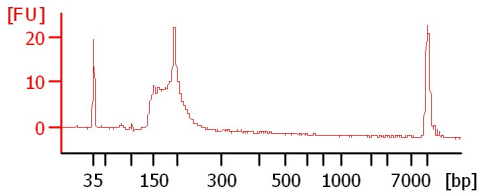
Chip Information:

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

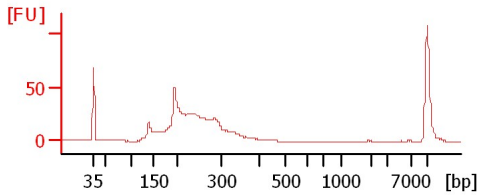
AY1

AY2

AY3



AY4



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-23\2019-09-23_001.xad

Created: 9/23/2019 12:17:39 PM
Modified: 9/23/2019 12:38:57 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
AY1		<input type="checkbox"/>	✓			
AY2		<input type="checkbox"/>	✓			
AY3		<input type="checkbox"/>	✓			
AY4		<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\2019-09-23\2019-09-23_001.xad

Created: 9/23/2019 12:17:39 PM
Modified: 9/23/2019 12:38:57 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

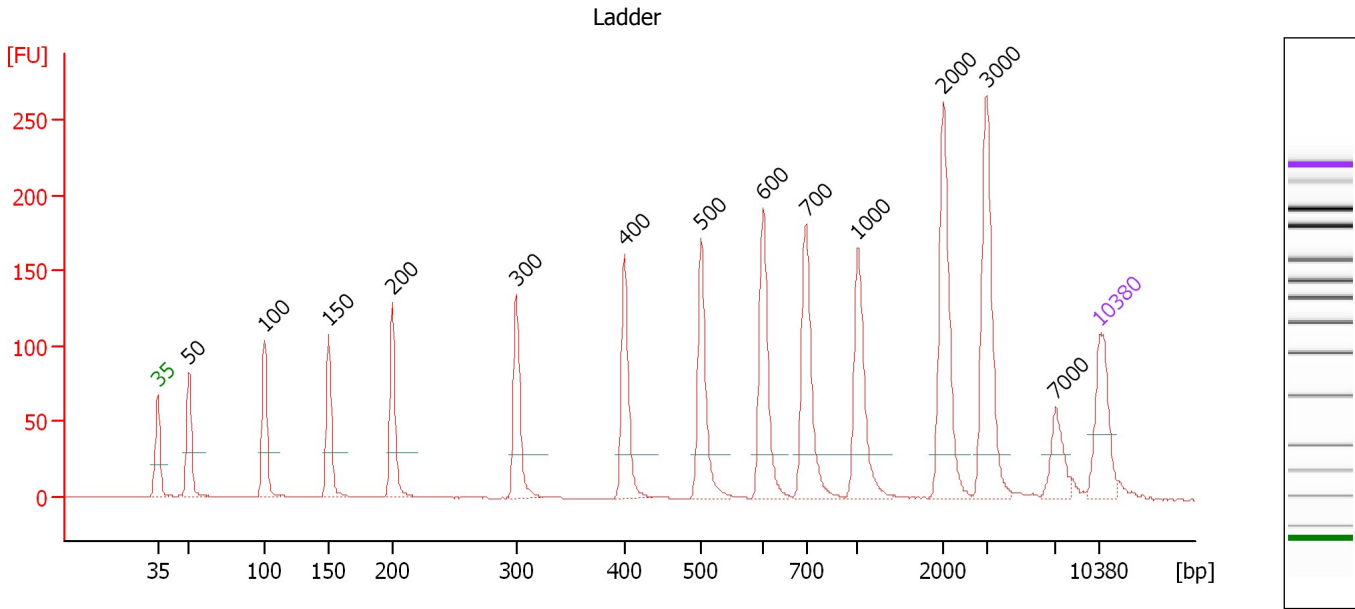
Ladder

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\2019-09-23\2019-09-23_001.xad

Created: 9/23/2019 12:17:39 PM
 Modified: 9/23/2019 12:38:57 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

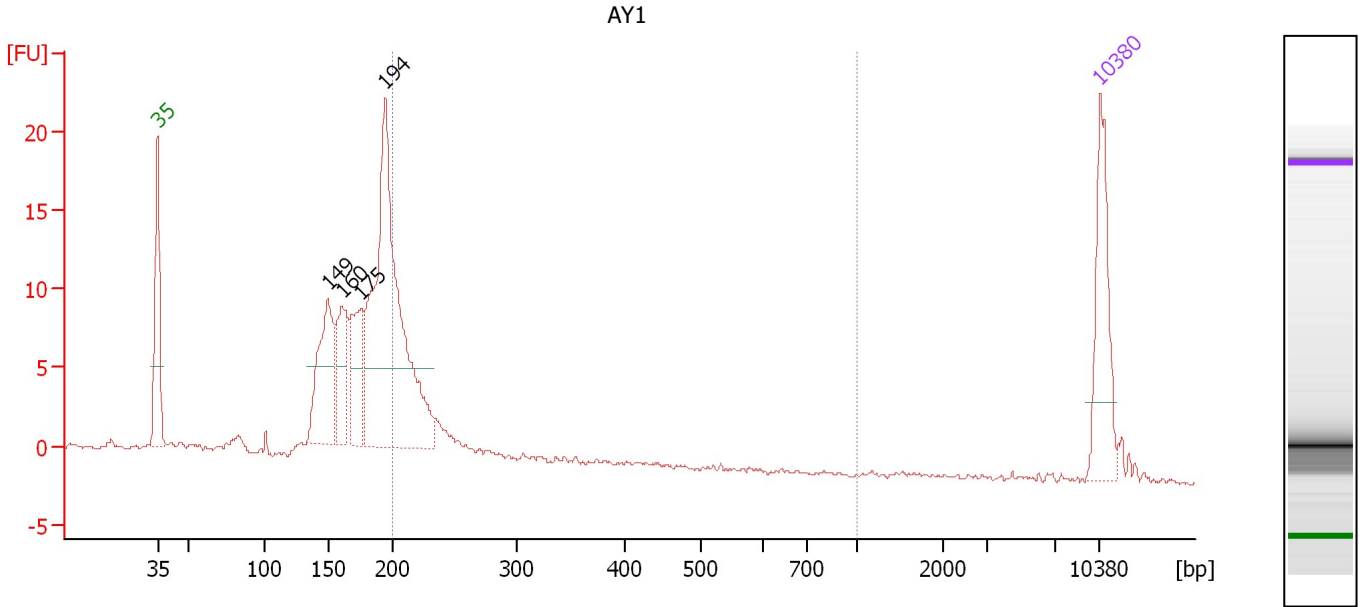
Peak table for Ladder

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	45.32
3	100	150.00	2,272.7	Ladder Peak	50.91
4	150	150.00	1,515.2	Ladder Peak	55.71
5	200	150.00	1,136.4	Ladder Peak	60.46
6	300	150.00	757.6	Ladder Peak	69.64
7	400	150.00	568.2	Ladder Peak	77.71
8	500	150.00	454.5	Ladder Peak	83.35
9	600	150.00	378.8	Ladder Peak	88.00
10	700	150.00	324.7	Ladder Peak	91.16
11	1,000	150.00	227.3	Ladder Peak	95.01
12	2,000	150.00	113.6	Ladder Peak	101.39
13	3,000	150.00	75.8	Ladder Peak	104.56
14	7,000	150.00	32.5	Ladder Peak	109.73
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-23\2019-09-23_001.xad

Created: 9/23/2019 12:17:39 PM
 Modified: 9/23/2019 12:38:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : AY1

Number of peaks found: 4 Corr. Area 1: 48.2
 Noise: 0.1

Peak table for sample 1 : AY1

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	149	131.67	1,335.0		55.66
3	160	79.44	751.4		56.68
4	175	80.92	698.9		58.13
5	194	449.82	3,512.0		59.90
6	10,380	75.00	10.9	Upper Marker	113.00

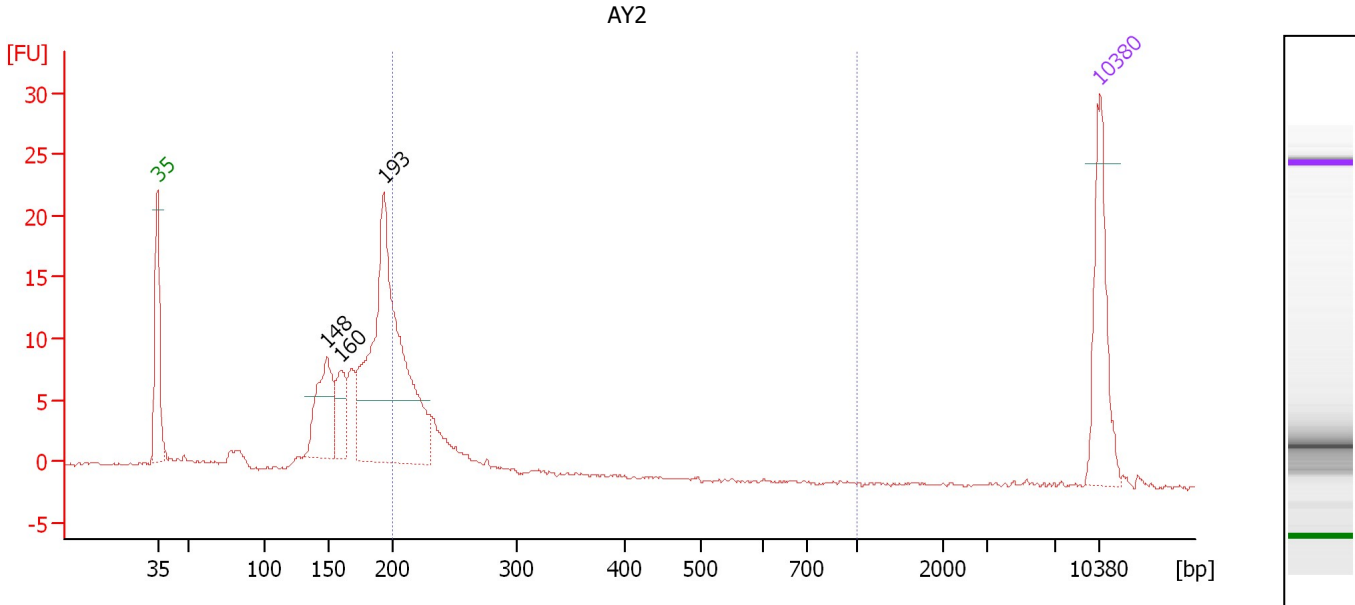
Region table for sample 1 : AY1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	251	267.74	48.2	1,743.5	26	33.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-23\2019-09-23_001.xad

Created: 9/23/2019 12:17:39 PM
 Modified: 9/23/2019 12:38:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AY2

Number of peaks found: 3 Corr. Area 1: 53.1
 Noise: 0.1

Peak table for sample 2 : AY2

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	148	102.34	1,045.2		55.55
3	160	48.40	459.0		56.64
4	193	403.23	3,166.0		59.79
5	10,380	75.00	10.9	Upper Marker	113.00

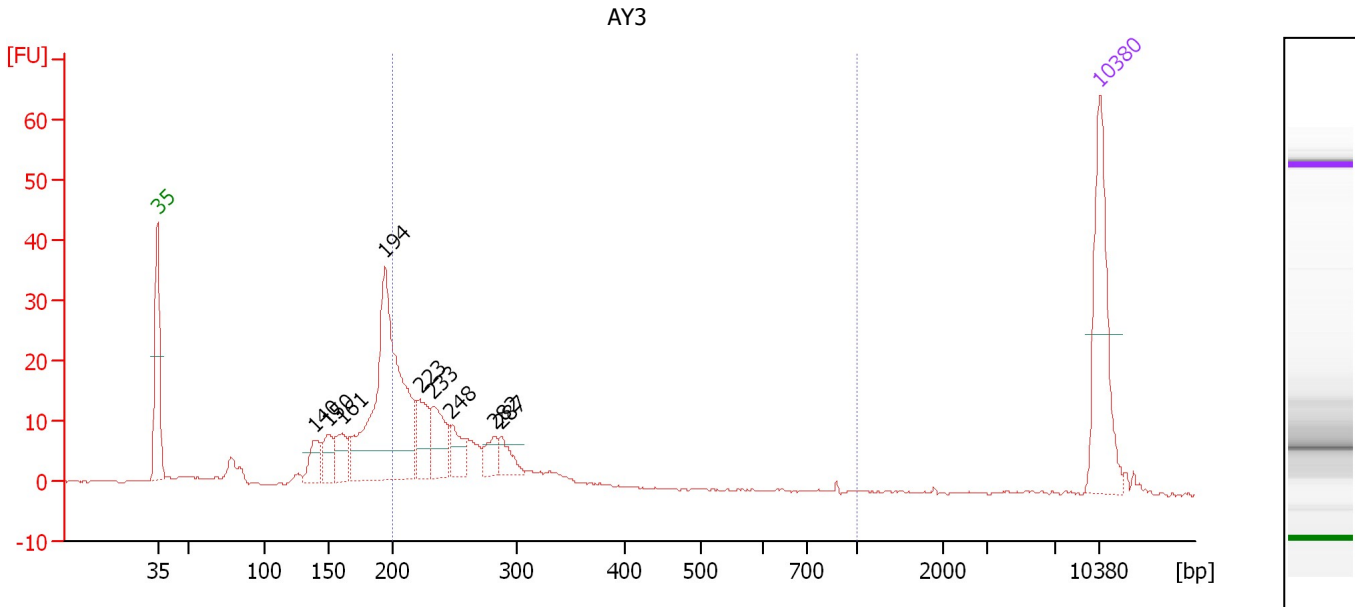
Region table for sample 2 : AY2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	226	235.34	53.1	1,589.9	31	12.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-23\2019-09-23_001.xad

Created: 9/23/2019 12:17:39 PM
 Modified: 9/23/2019 12:38:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : AY3

Number of peaks found: 9 Corr. Area 1: 171.8
 Noise: 0.1

Peak table for sample 3 : AY3

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	140	26.43	286.7		54.72
3	150	25.98	262.1		55.73
4	161	27.21	256.5		56.73
5	194	259.08	2,020.9		59.91
6	223	38.71	263.5		62.54
7	233	43.79	284.8		63.49
8	248	24.07	147.3		64.83
9	282	16.87	90.6		68.01
10	287	16.60	87.6		68.45
11	10,380	75.00	10.9	Upper Marker	113.00

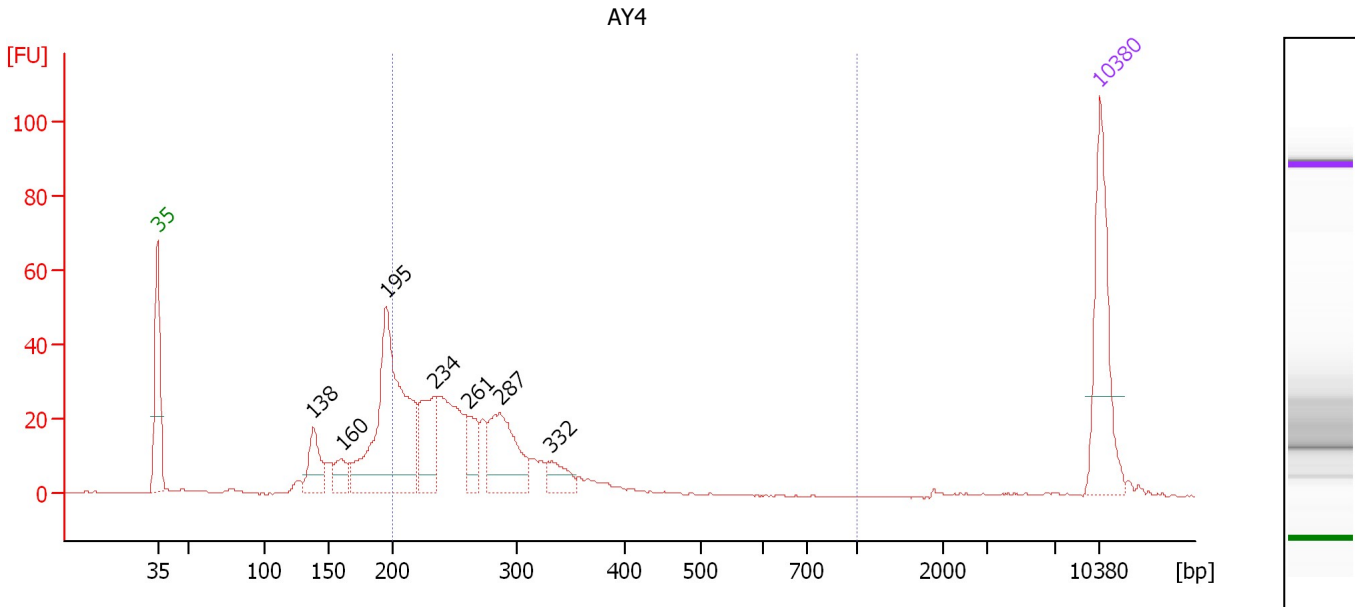
Region table for sample 3 : AY3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	252	326.15	171.8	2,011.3	53	22.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-23\2019-09-23_001.xad

Created: 9/23/2019 12:17:39 PM
 Modified: 9/23/2019 12:38:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : AY4

Number of peaks found: 7 Corr. Area 1: 408.5
 Noise: 0.2

Peak table for sample 4 : AY4

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	138	43.57	478.0		54.57
3	160	22.06	208.4		56.70
4	195	242.10	1,881.5		59.98
5	234	65.30	422.3		63.61
6	261	30.61	177.5		66.08
7	287	86.32	455.7		68.44
8	332	22.06	100.8		72.19
9	10,380	75.00	10.9	Upper Marker	113.00

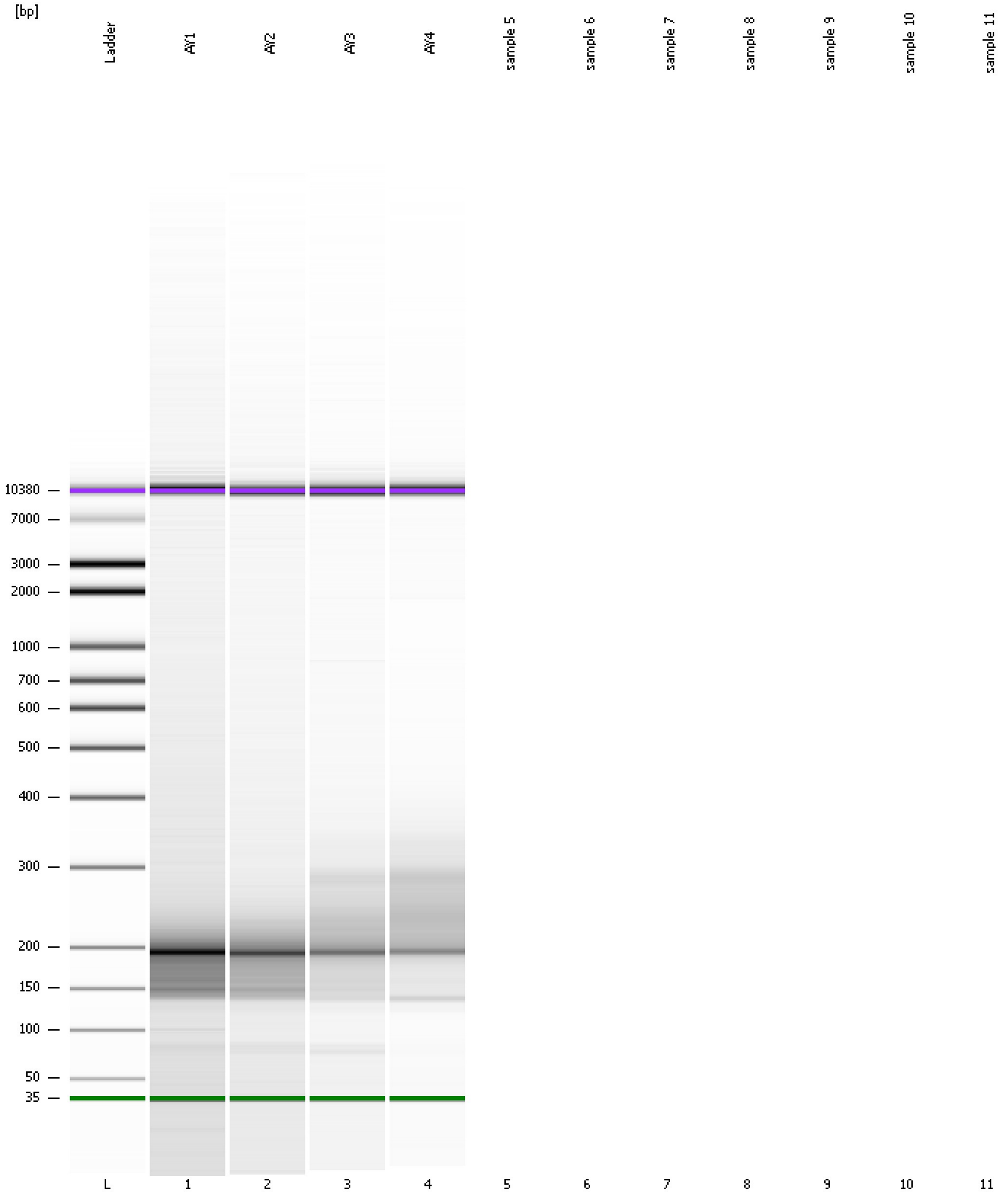
Region table for sample 4 : AY4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	268	483.53	408.5	2,834.6	67	21.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-23\2019-09-23_001.xad

Created: 9/23/2019 12:17:39 PM
Modified: 9/23/2019 12:38:57 PM

Gel Image

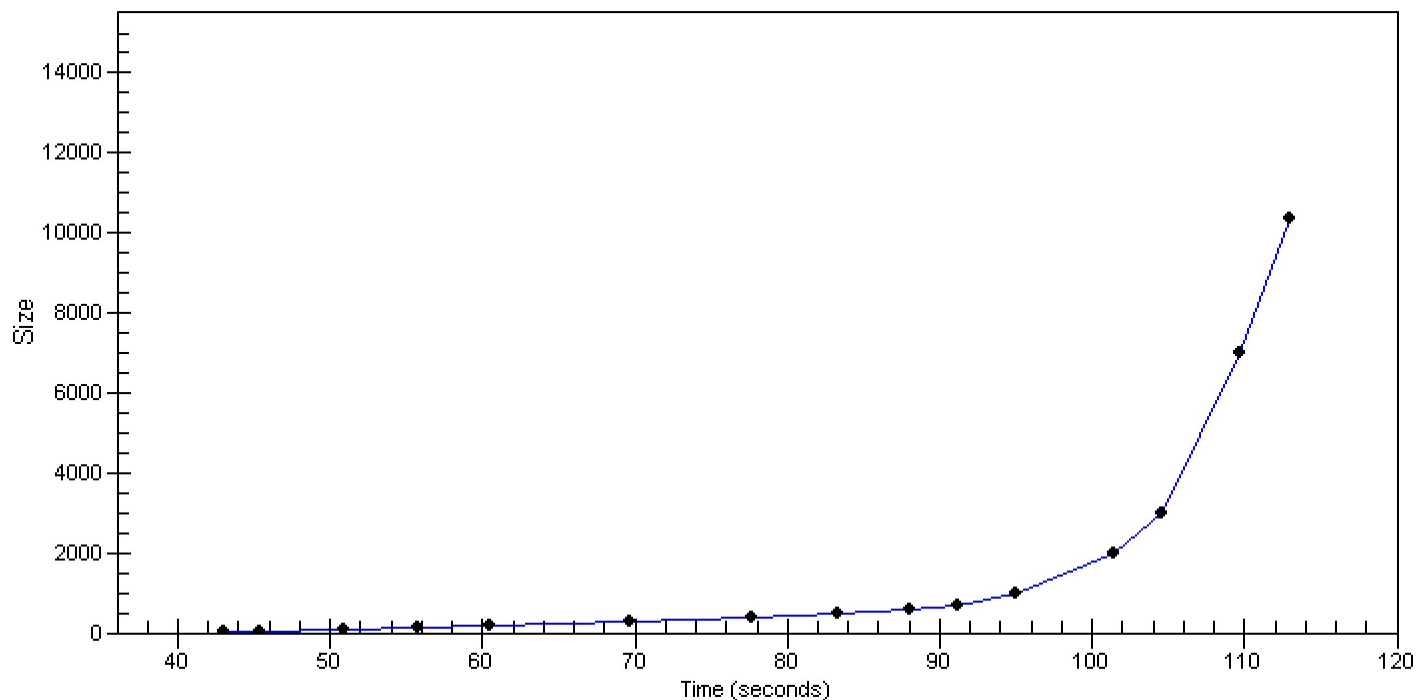


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-23\2019-09-23_001.xad

Created: 9/23/2019 12:17:39 PM
Modified: 9/23/2019 12:38:57 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-23\2019-09-23_001.xad

Created: 9/23/2019 12:17:39 PM
 Modified: 9/23/2019 12:38:57 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 5)		Instrument	Run		9/23/2019 12:38:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-09-23\2019-09-23_001.xad)		Instrument	Run		9/23/2019 12:17:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/23/2019 12:17:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/23/2019 12:17:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/23/2019 12:17:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/23/2019 12:17:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/23/2019 12:17:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/23/2019 12:17:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1