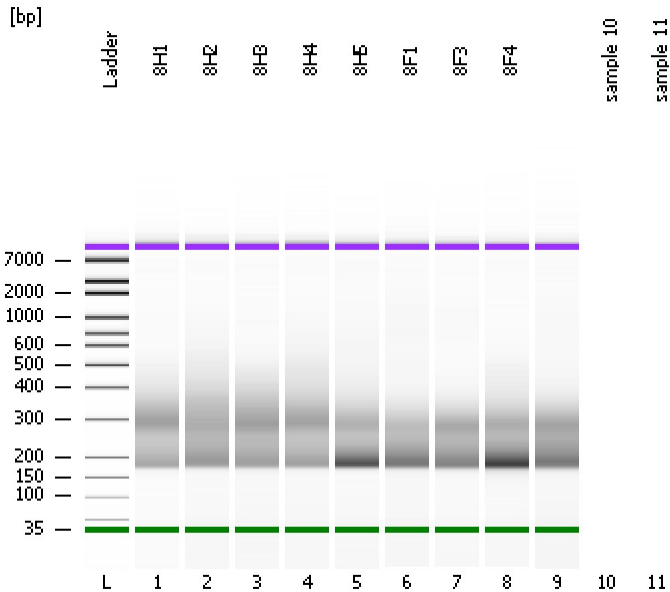


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
Modified: 6/6/2019 4:09:13 PM

Electrophoresis File Run Summary



Instrument Information:

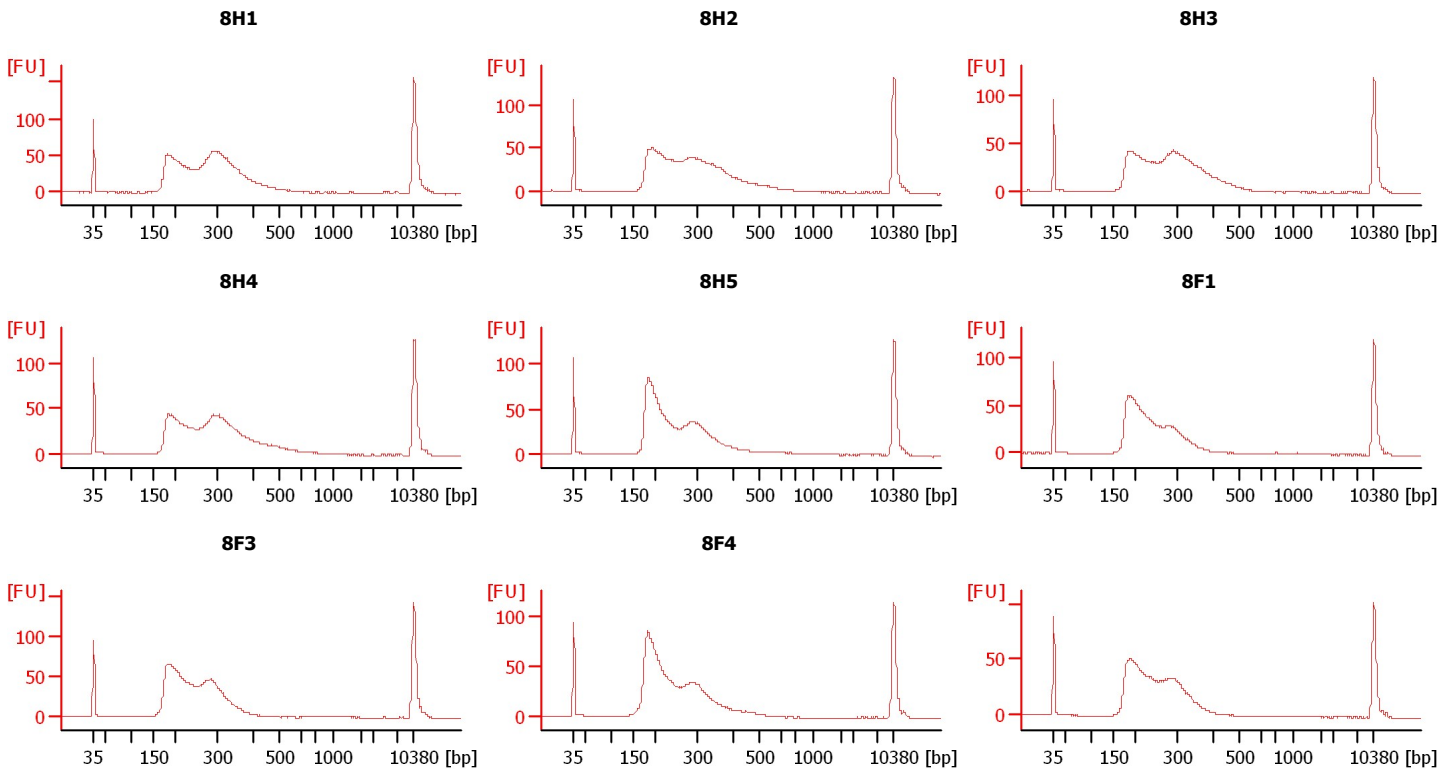
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
 Modified: 6/6/2019 4:09:13 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
8H1		<input type="checkbox"/>	✓			
8H2		<input type="checkbox"/>	✓			
8H3		<input type="checkbox"/>	✓			
8H4		<input type="checkbox"/>	✓			
8H5		<input type="checkbox"/>	✓			
8F1		<input type="checkbox"/>	✓			
8F3		<input type="checkbox"/>	✓			
8F4		<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\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
Modified: 6/6/2019 4:09:13 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

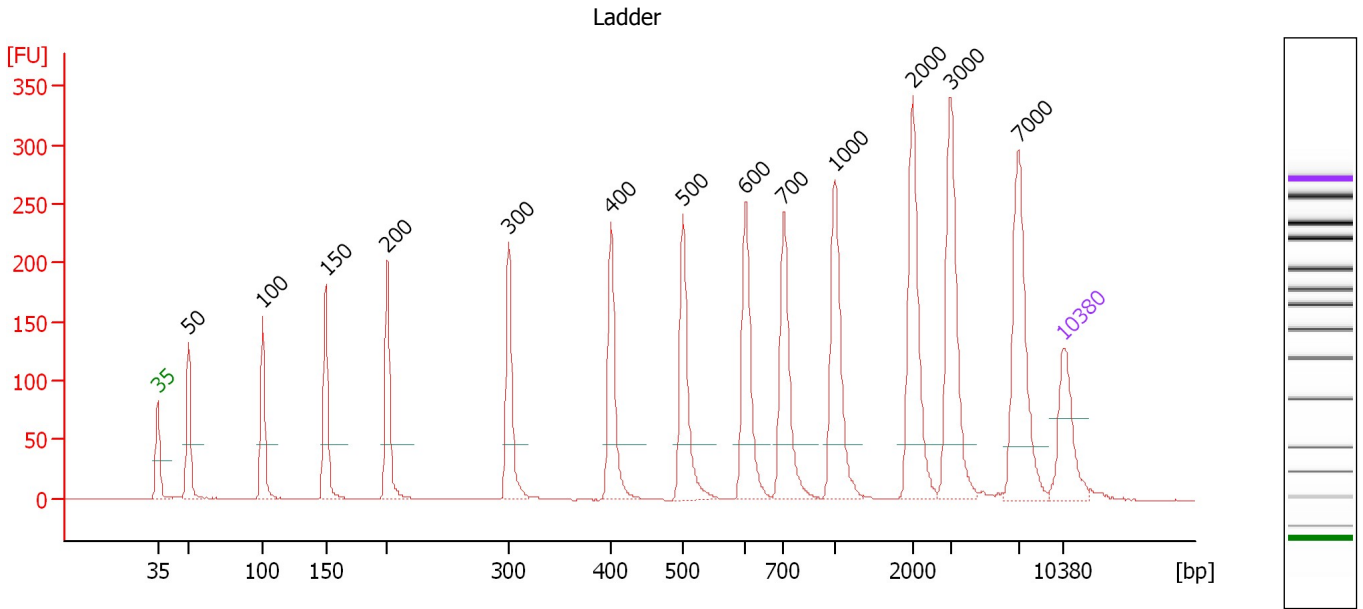
Ladder

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\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
 Modified: 6/6/2019 4:09:13 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

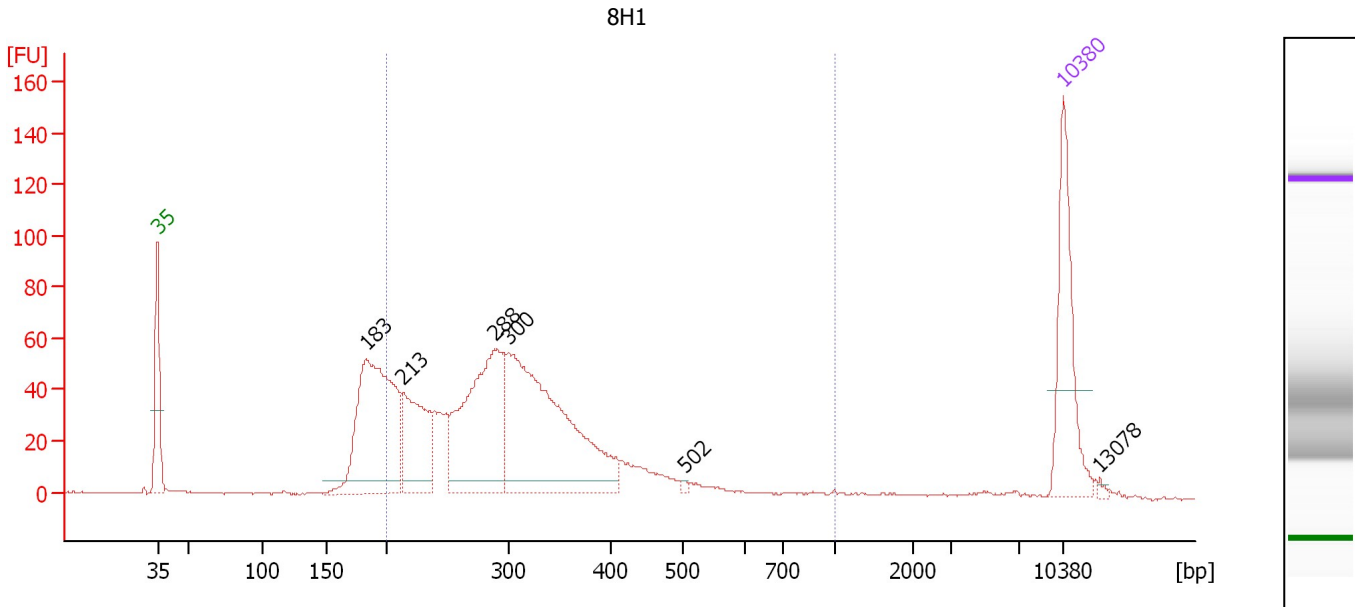
Peak table for Ladder

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	45.38
3	100	150.00	2,272.7	Ladder Peak	51.13
4	150	150.00	1,515.2	Ladder Peak	55.98
5	200	150.00	1,136.4	Ladder Peak	60.75
6	300	150.00	757.6	Ladder Peak	70.14
7	400	150.00	568.2	Ladder Peak	78.04
8	500	150.00	454.5	Ladder Peak	83.62
9	600	150.00	378.8	Ladder Peak	88.42
10	700	150.00	324.7	Ladder Peak	91.39
11	1,000	150.00	227.3	Ladder Peak	95.34
12	2,000	150.00	113.6	Ladder Peak	101.36
13	3,000	150.00	75.8	Ladder Peak	104.28
14	7,000	150.00	32.5	Ladder Peak	109.54
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
 Modified: 6/6/2019 4:09:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 8H1

Number of peaks found: 6 Corr. Area 1: 1,123.0
 Noise: 0.3

Peak table for sample 1 : 8H1

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	183	253.57	2,101.8		59.11
3	213	105.44	748.5		62.01
4	288	203.09	1,067.0		69.05
5	300	301.10	1,522.3		70.11
6	502	2.14	6.5		83.73
7	10,380	75.00	10.9	Upper Marker	113.00
8	13,078	0.00	0.0		115.76

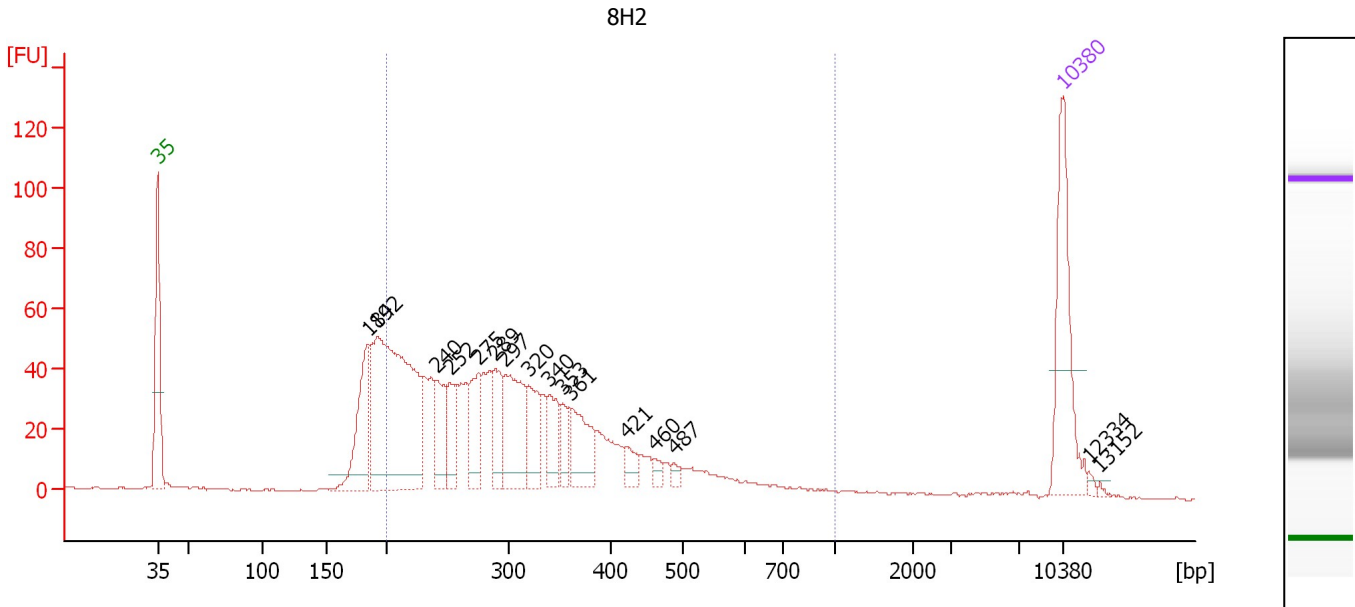
Region table for sample 1 : 8H1

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	314	778.15	1,123.0	4,074.7	79	29.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
 Modified: 6/6/2019 4:09:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 8H2

Number of peaks found: 16 Corr. Area 1: 1,078.3
 Noise: 0.2

Peak table for sample 2 : 8H2

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	184	88.76	730.5		59.23
3	192	301.79	2,382.6		59.98
4	240	46.85	295.3		64.53
5	252	42.46	255.5		65.60
6	275	49.82	274.5		67.79
7	289	43.24	226.8		69.09
8	297	82.98	422.9		69.88
9	320	41.31	195.8		71.70
10	340	35.59	158.7		73.28
11	353	21.63	92.9		74.30
12	361	50.72	212.9		74.95
13	421	11.75	42.3		79.23
14	460	6.23	20.5		81.37
15	487	5.17	16.1		82.91
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,334	0.00	0.0		115.00
18	13,152	0.00	0.0		115.84

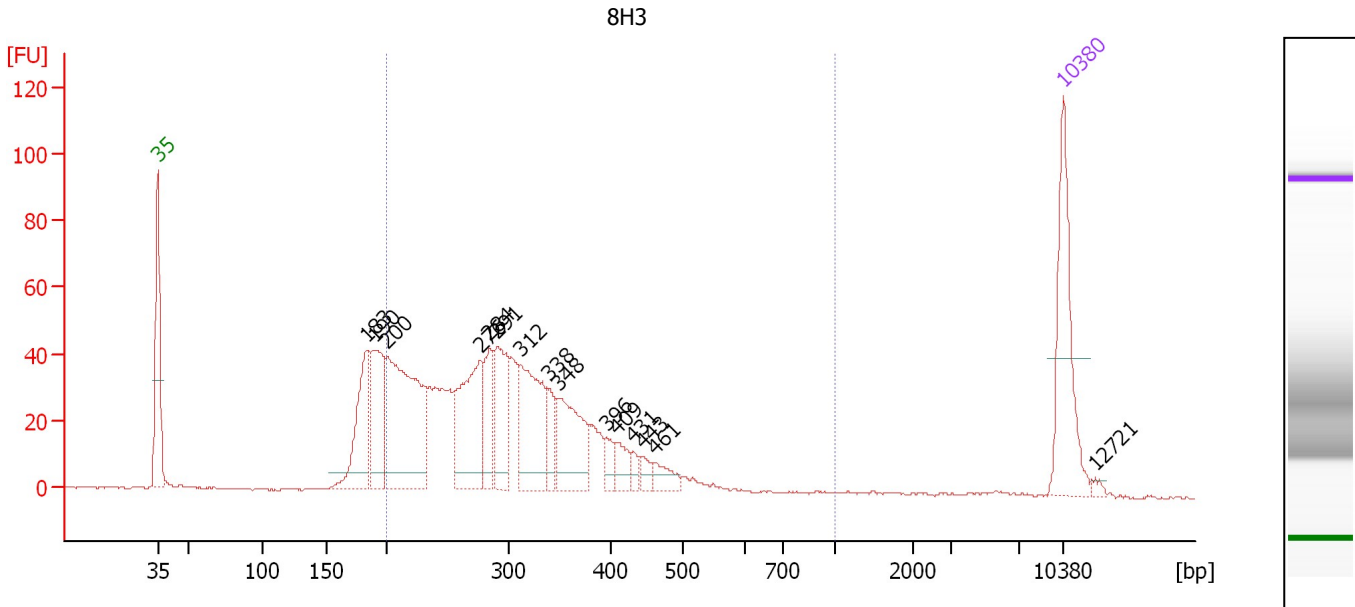
Region table for sample 2 : 8H2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	323	923.58	1,078.3	4,845.6	81	33.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
 Modified: 6/6/2019 4:09:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 8H3

Number of peaks found: 15 Corr. Area 1: 948.7
 Noise: 0.3

Peak table for sample 3 : 8H3

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	183	90.04	744.1		59.16
3	190	82.75	660.7		59.77
4	200	209.02	1,582.5		60.76
5	276	114.66	629.1		67.90
6	284	48.86	260.5		68.65
7	291	75.23	392.1		69.26
8	312	101.70	494.7		71.05
9	338	25.43	113.9		73.16
10	348	77.32	336.3		73.96
11	396	14.16	54.2		77.72
12	409	18.21	67.4		78.56
13	431	7.54	26.5		79.79
14	443	9.86	33.7		80.44
15	461	15.39	50.6		81.43
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,721	0.00	0.0		115.40

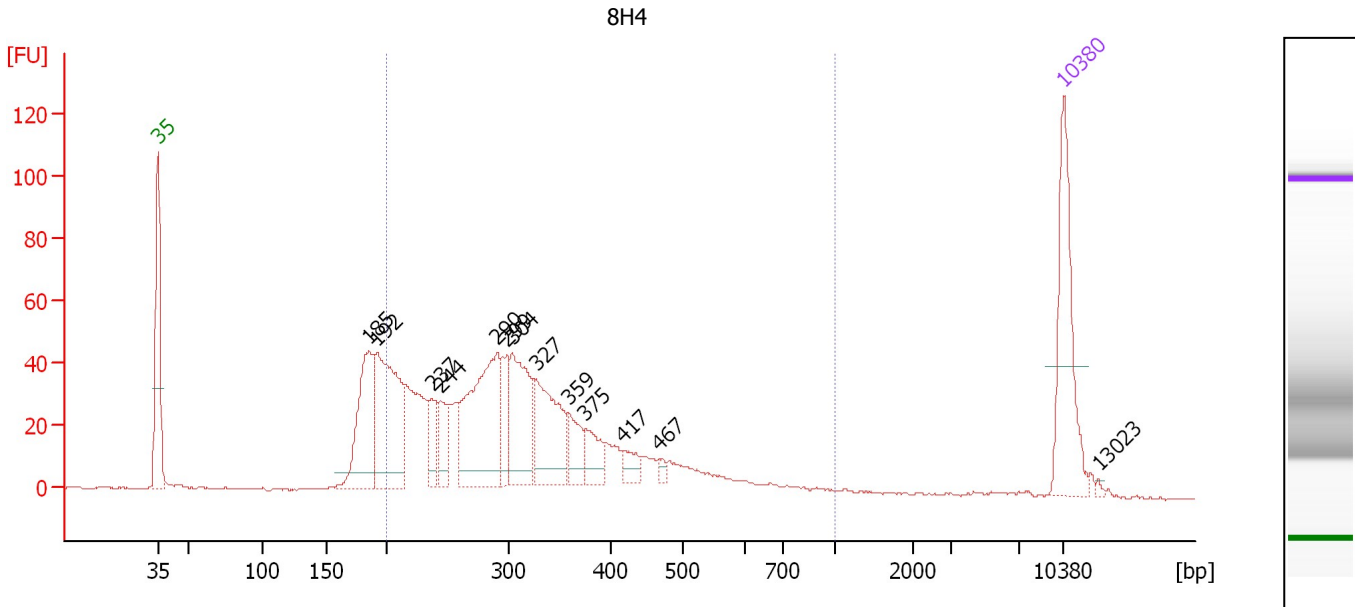
Region table for sample 3 : 8H3

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	311	919.93	948.7	4,856.0	81	28.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
 Modified: 6/6/2019 4:09:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 8H4

Number of peaks found: 13 Corr. Area 1: 975.1
 Noise: 0.1

Peak table for sample 4 : 8H4

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	185	108.81	893.2		59.28
3	192	153.09	1,210.9		59.94
4	237	30.29	193.7		64.21
5	244	34.51	214.3		64.88
6	290	151.98	794.1		69.20
7	299	33.36	169.3		70.00
8	304	91.40	456.0		70.43
9	327	85.28	395.0		72.28
10	359	29.03	122.5		74.80
11	375	24.75	100.0		76.08
12	417	14.09	51.2		78.97
13	467	4.73	15.3		81.77
14	10,380	75.00	10.9	Upper Marker	113.00
15	13,023	0.00	0.0		115.71

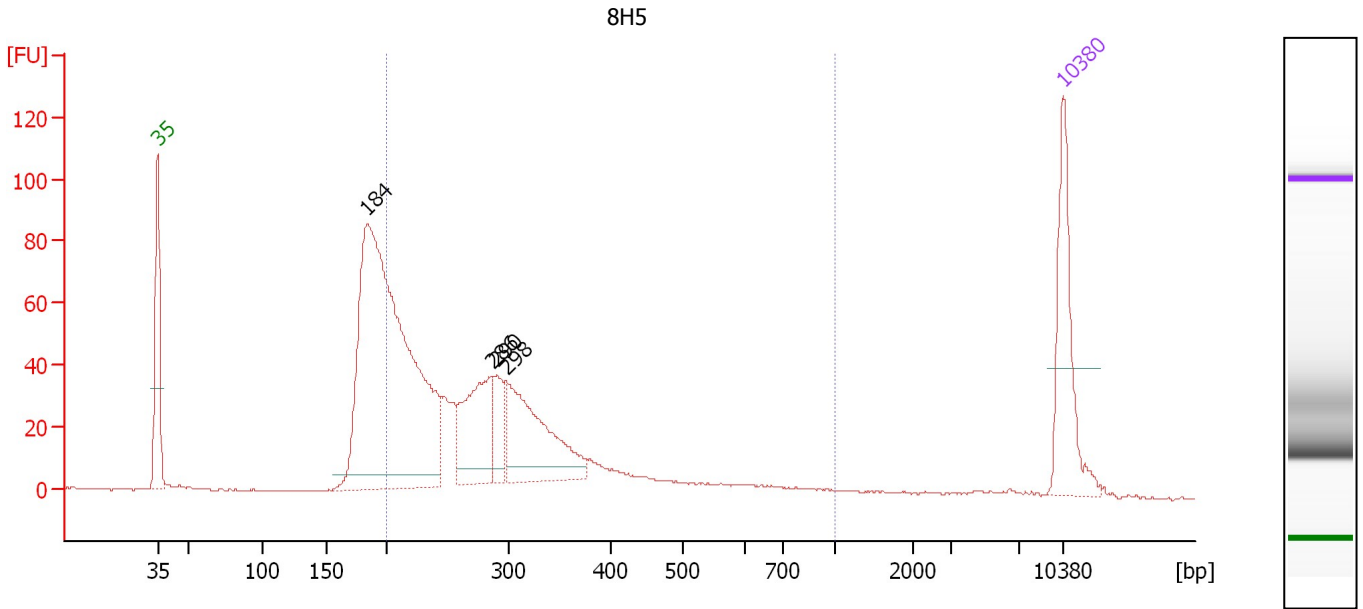
Region table for sample 4 : 8H4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	328	845.05	975.1	4,358.0	81	33.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
 Modified: 6/6/2019 4:09:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 8H5

Number of peaks found: 4 Corr. Area 1: 870.5
 Noise: 0.3

Peak table for sample 5 : 8H5

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	184	657.60	5,413.6		59.23
3	286	109.83	581.7		68.83
4	290	38.32	200.1		69.21
5	298	145.66	739.8		69.98
6	10,380	75.00	10.9	Upper Marker	113.00

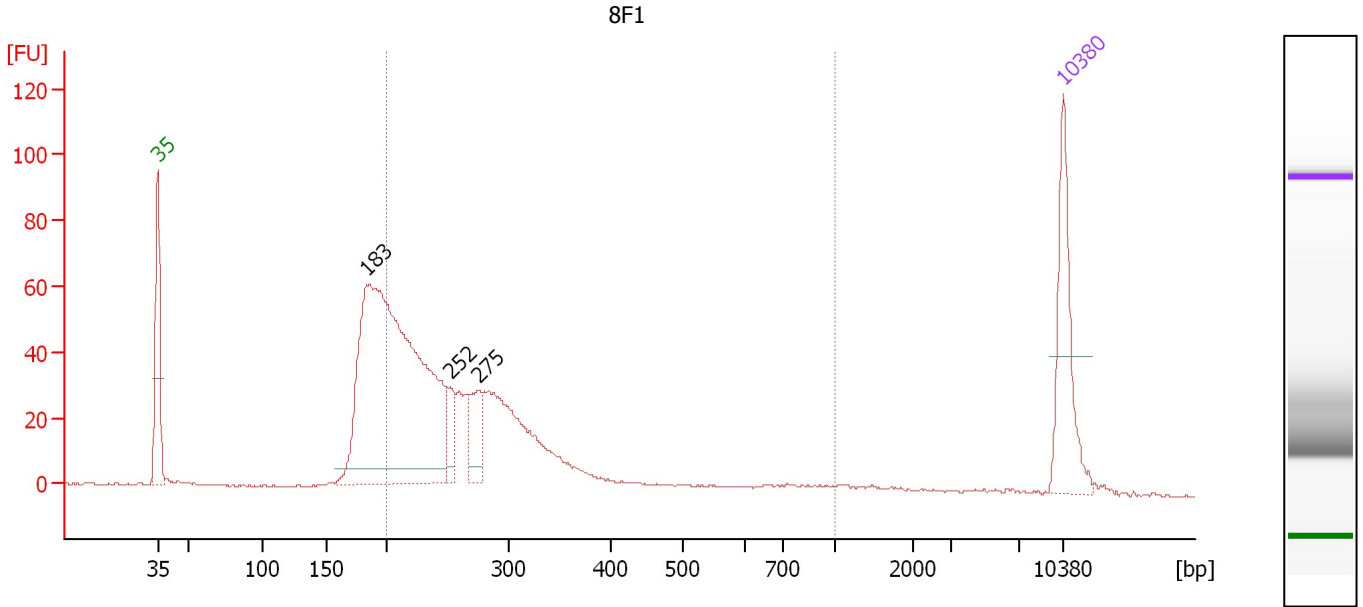
Region table for sample 5 : 8H5

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	302	758.97	870.5	4,219.8	69	36.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
 Modified: 6/6/2019 4:09:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 8F1

Number of peaks found: 3 Corr. Area 1: 699.9
 Noise: 0.3

Peak table for sample 6 : 8F1

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	183	674.31	5,583.0		59.13
3	252	29.89	180.0		65.59
4	275	45.80	252.0		67.82
5	10,380	75.00	10.9	Upper Marker	113.00

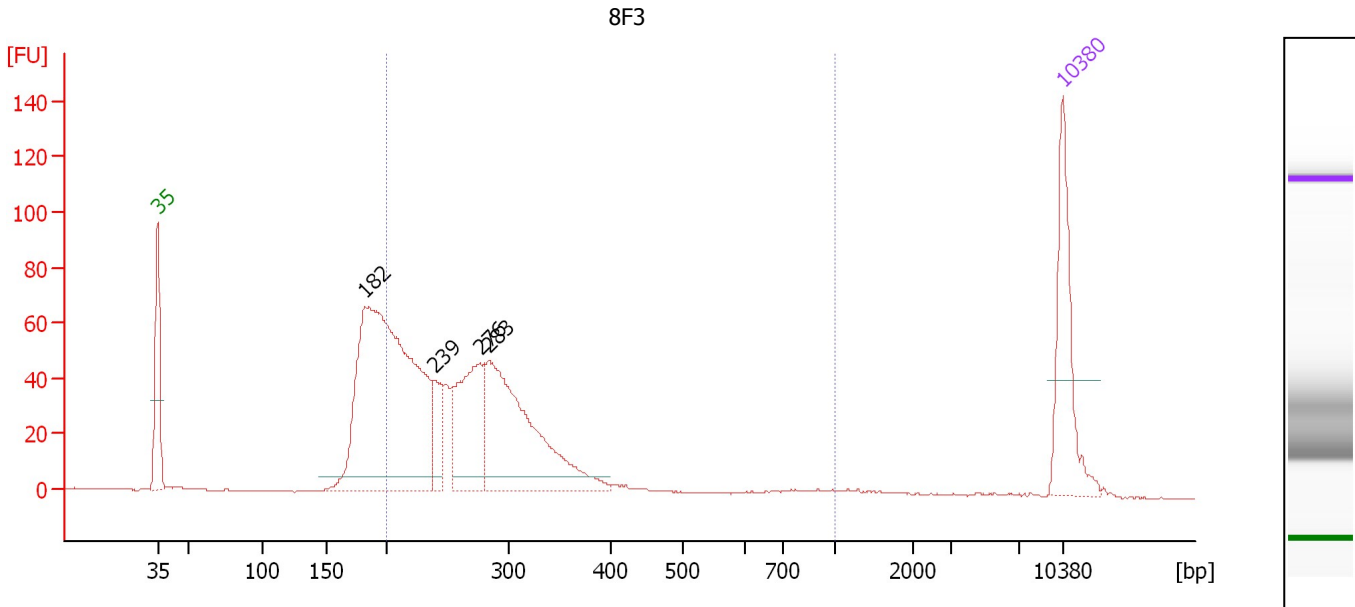
Region table for sample 6 : 8F1

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	287	717.54	699.9	4,153.1	69	38.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
 Modified: 6/6/2019 4:09:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 8F3

Number of peaks found: 4 Corr. Area 1: 876.5
 Noise: 0.3

Peak table for sample 7 : 8F3

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	182	543.20	4,515.0		59.06
3	239	36.07	228.4		64.43
4	276	127.85	701.5		67.90
5	283	242.70	1,297.5		68.58
6	10,380	75.00	10.9	Upper Marker	113.00

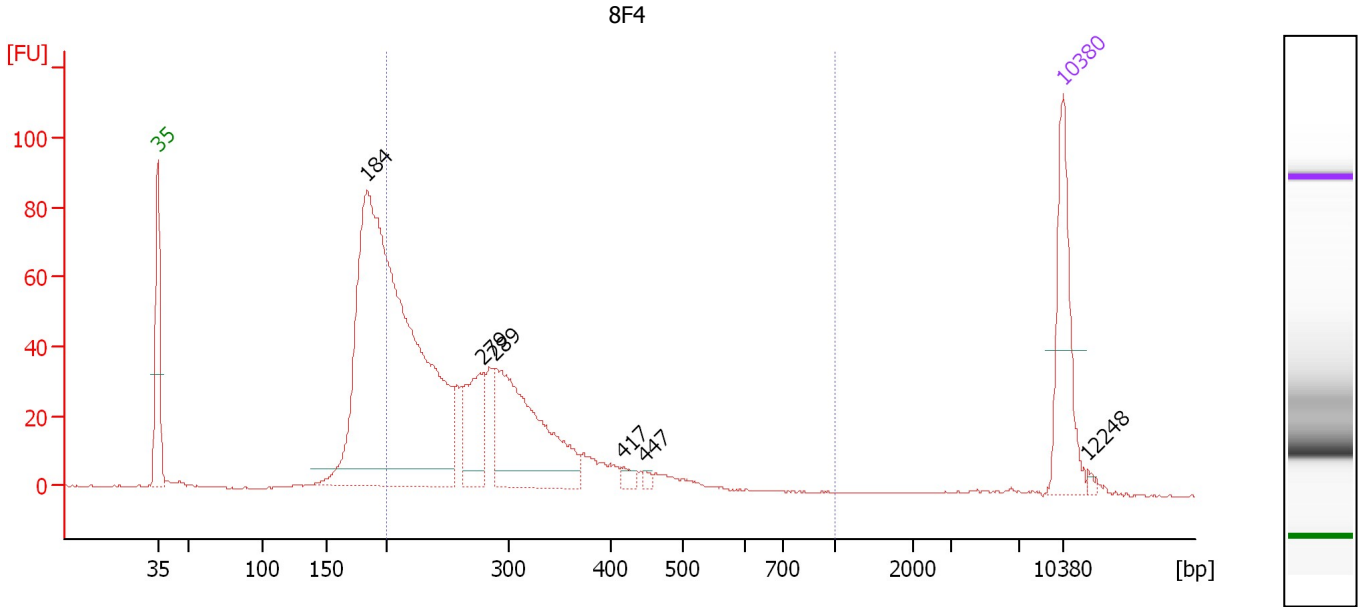
Region table for sample 7 : 8F3

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	280	702.69	876.5	4,031.8	73	31.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
 Modified: 6/6/2019 4:09:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 8F4

Number of peaks found: 6 Corr. Area 1: 816.3
 Noise: 0.2

Peak table for sample 8 : 8F4

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	184	855.23	7,061.2		59.18
3	279	86.61	470.7		68.15
4	289	214.94	1,125.9		69.13
5	417	8.12	29.5		78.98
6	447	4.47	15.1		80.65
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,248	0.00	0.0		114.91

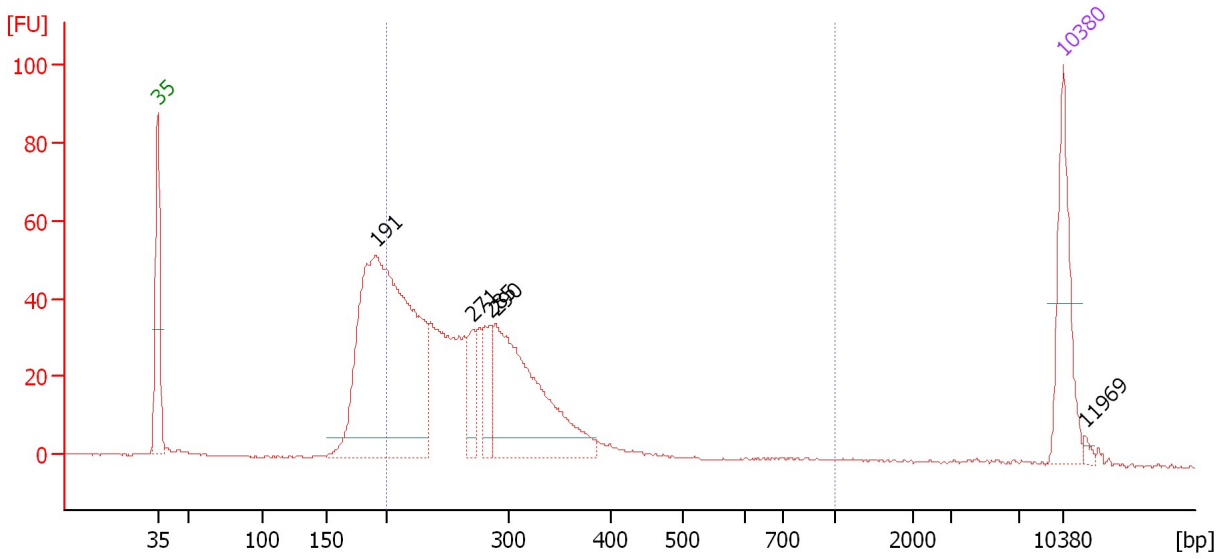
Region table for sample 8 : 8F4

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	286	832.10	816.3	4,727.1	67	28.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
 Modified: 6/6/2019 4:09:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 :

Number of peaks found: 5 Corr. Area 1: 711.9
 Noise: 0.2

Peak table for sample 9 :

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	191	613.88	4,877.9		59.86
3	271	42.61	238.4		67.40
4	285	43.07	229.4		68.68
5	290	258.44	1,351.4		69.18
6	10,380	75.00	10.9	Upper Marker	113.00
7	11,969	0.00	0.0		114.63

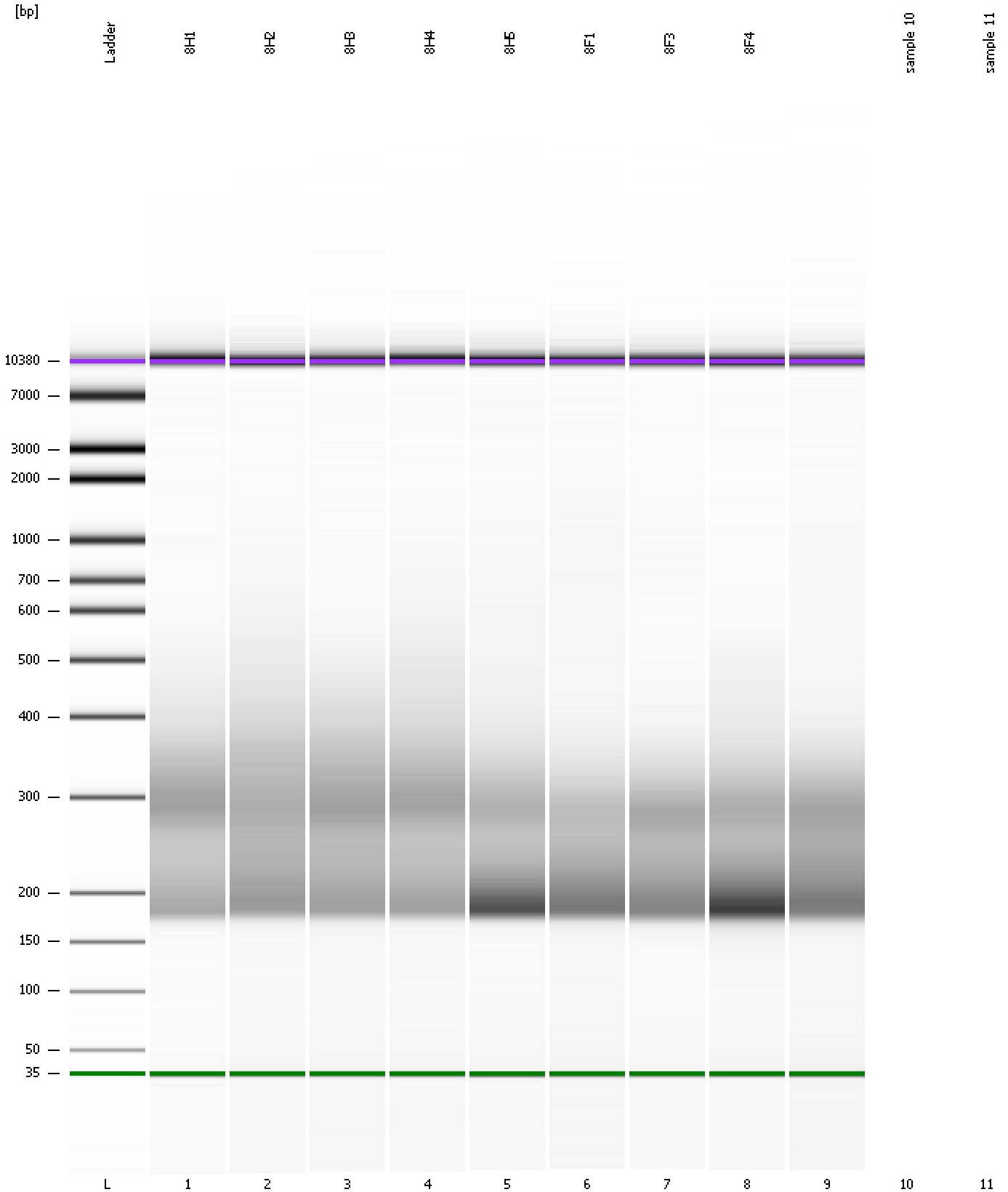
Region table for sample 9 :

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	281	891.21	711.9	5,094.7	73	29.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
Modified: 6/6/2019 4:09:13 PM

Gel Image

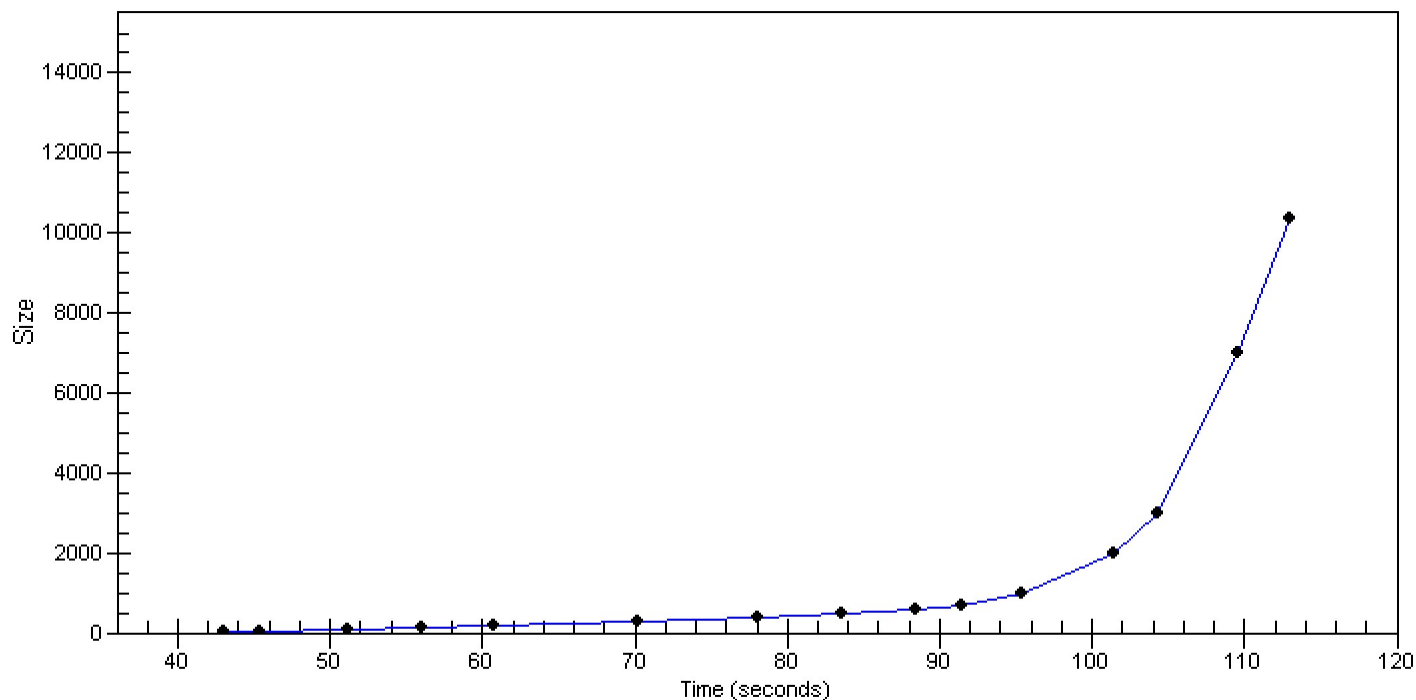


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
Modified: 6/6/2019 4:09:13 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
Modified: 6/6/2019 4:09:13 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-06-06\2019-06-06_003.xad

Created: 6/6/2019 3:34:22 PM
 Modified: 6/6/2019 4:09:13 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		6/6/2019 4:09:12 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\2019-06-06\2019-06-06_003.xad)		Instrument	Run		6/6/2019 3:34:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		6/6/2019 3:34:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/6/2019 3:34:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/6/2019 3:34:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		6/6/2019 3:34:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/6/2019 3:34:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/6/2019 3:34:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1