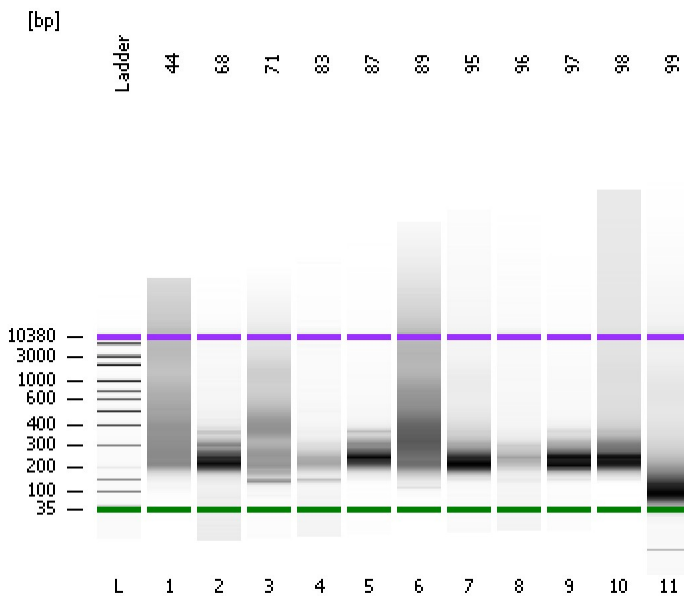


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-07\2019-10-07_002.xad

Created: 10/7/2019 1:52:29 PM
Modified: 10/7/2019 2:40:13 PM

Electrophoresis File Run Summary



Instrument Information:

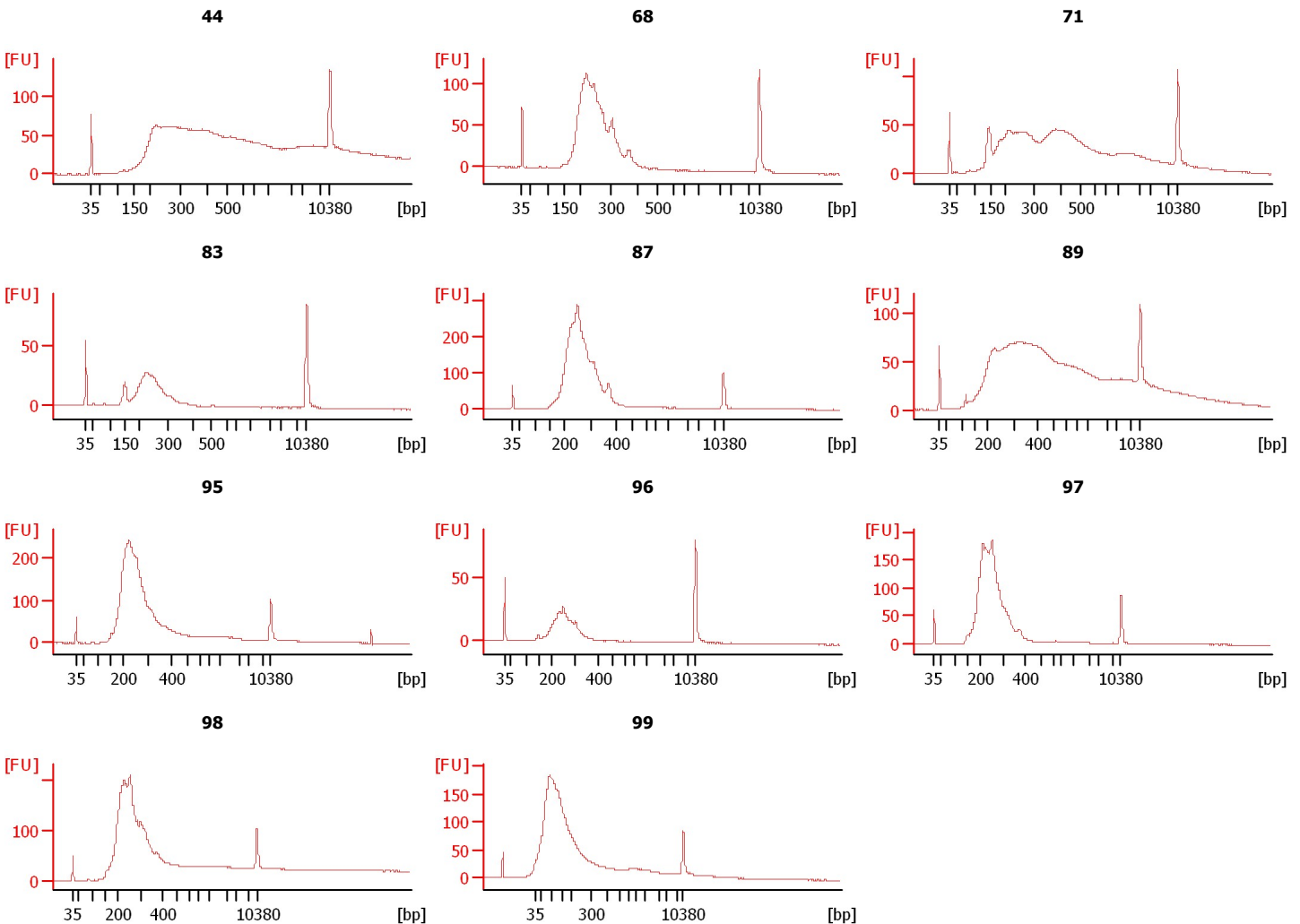
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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\2019-10-07\2019-10-07_002.xad

Created: 10/7/2019 1:52:29 PM
 Modified: 10/7/2019 2:40:13 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
44		<input type="checkbox"/>	✓			
68		<input type="checkbox"/>	✓			
71		<input type="checkbox"/>	✓			
83		<input type="checkbox"/>	✓			
87		<input type="checkbox"/>	✓			
89		<input type="checkbox"/>	✓			
95		<input type="checkbox"/>	✓			
96		<input type="checkbox"/>	✓			
97		<input type="checkbox"/>	✓			
98		<input type="checkbox"/>	✓			
99		<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\2019-10-07\2019-10-07_002.xad

Created: 10/7/2019 1:52:29 PM
Modified: 10/7/2019 2:40:13 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

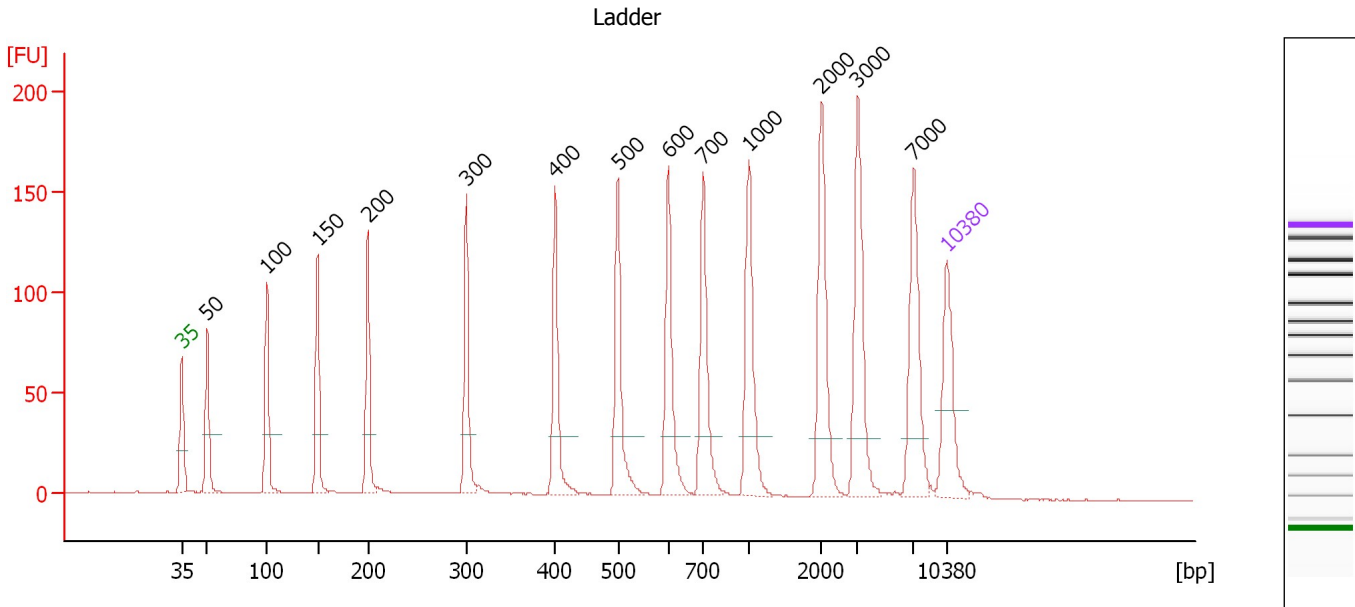
Ladder

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\2019-10-07\2019-10-07_002.xad

Created: 10/7/2019 1:52:29 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

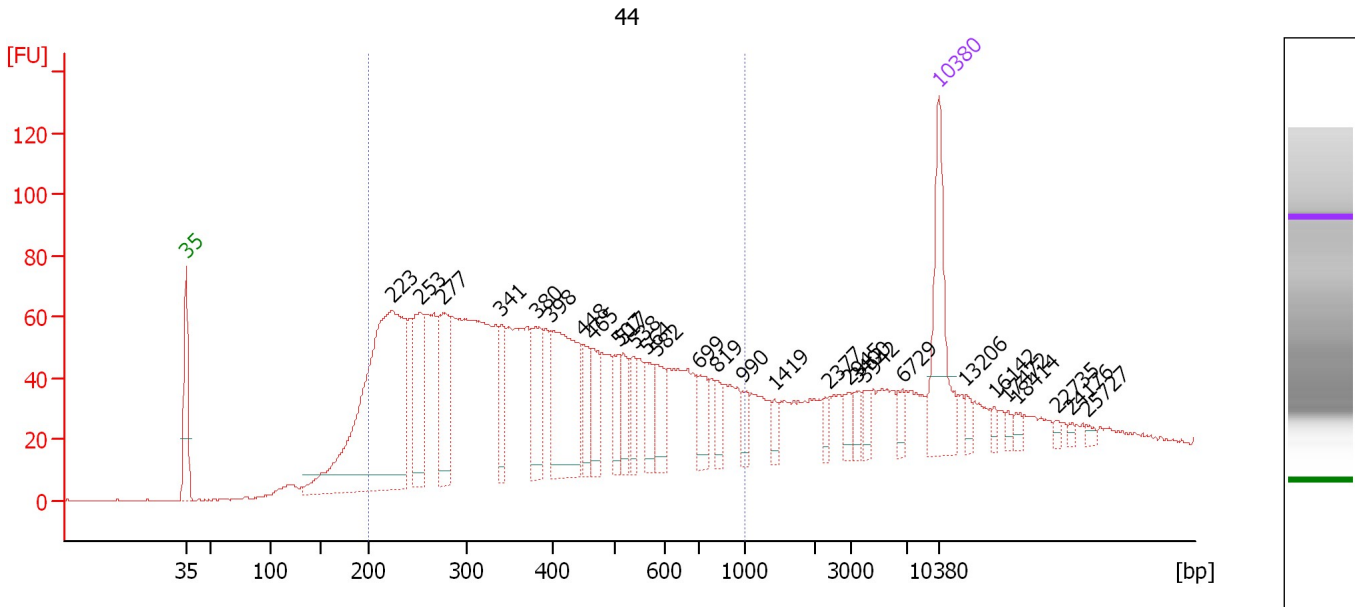
Peak table for Ladder

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	45.34
3	100	150.00	2,272.7	Ladder Peak	50.80
4	150	150.00	1,515.2	Ladder Peak	55.44
5	200	150.00	1,136.4	Ladder Peak	60.02
6	300	150.00	757.6	Ladder Peak	69.05
7	400	150.00	568.2	Ladder Peak	77.15
8	500	150.00	454.5	Ladder Peak	82.90
9	600	150.00	378.8	Ladder Peak	87.54
10	700	150.00	324.7	Ladder Peak	90.71
11	1,000	150.00	227.3	Ladder Peak	94.90
12	2,000	150.00	113.6	Ladder Peak	101.54
13	3,000	150.00	75.8	Ladder Peak	104.85
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\2019-10-07\2019-10-07_002.xad

Created: 10/7/2019 1:52:29 PM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : 44

Number of peaks found: 29 Corr. Area 1: 2,029.1
 Noise: 0.2

Peak table for sample 1 : 44

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	223	446.00	3,024.9		62.14
3	253	89.15	533.8		64.81
4	277	95.02	520.3		66.94
5	341	40.30	179.2		72.35
6	380	63.72	254.1		75.52
7	398	141.22	538.0		76.96
8	448	37.19	125.7		79.93
9	465	35.35	115.2		80.88
10	507	28.73	85.9		83.21
11	517	29.78	87.2		83.70
12	538	23.07	65.0		84.64
13	564	28.96	77.8		85.88
14	582	28.79	74.9		86.73
15	699	28.80	62.4		90.69
16	819	14.77	27.3		92.38
17	990	13.28	20.3		94.76
18	1,419	9.79	10.4		97.68
19	2,377	8.68	5.5		102.79
20	2,945	11.50	5.9		104.67
21	3,400	9.12	4.1		105.37
22	3,942	10.45	4.0		106.06
23	6,729	9.32	2.1		109.63
24	10,380	75.00	10.9	Upper Marker	113.00
25	13,206	0.00	0.0		115.53

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-07\2019-10-07_002.xad

Created: 10/7/2019 1:52:29 PM
 Modified: 10/7/2019 2:40:13 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : 44

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	16,142	0.00	0.0		118.16
27	17,472	0.00	0.0		119.35
28	18,414	0.00	0.0		120.19
29	22,735	0.00	0.0		124.06
30	24,176	0.00	0.0		125.34
31	25,727	0.00	0.0		126.73

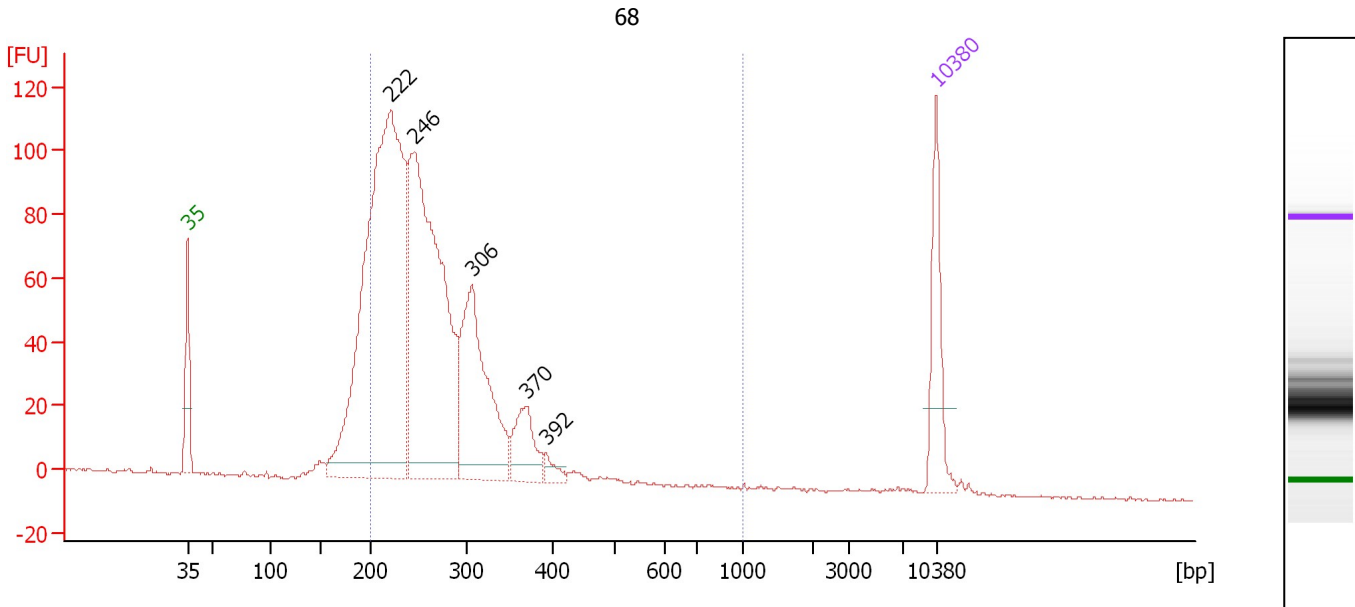
Region table for sample 1 : 44

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	413	1,800.91	2,029.1	8,195.9	77	42.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-07\2019-10-07_002.xad

Created: 10/7/2019 1:52:29 PM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : 68

Number of peaks found: 5 Corr. Area 1: 1,494.9
 Noise: 0.4

Peak table for sample 2 : 68

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	222	969.60	6,622.2		62.00
3	246	675.57	4,158.4		64.19
4	306	274.08	1,355.0		69.57
5	370	71.49	292.8		74.71
6	392	14.02	54.2		76.50
7	10,380	75.00	10.9	Upper Marker	113.00

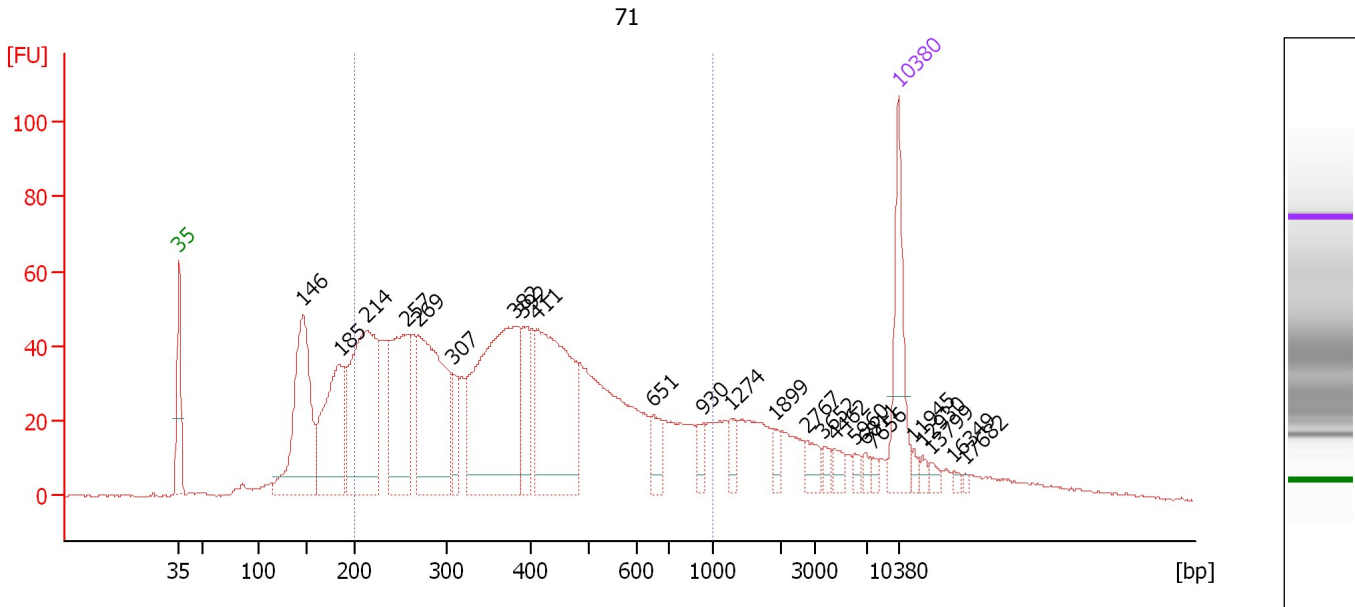
Region table for sample 2 : 68

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	266	1,776.95	1,494.9	10,498.4	87	20.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-07\2019-10-07_002.xad

Created: 10/7/2019 1:52:29 PM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : 71

Number of peaks found: 24 Corr. Area 1: 1,594.4
 Noise: 0.3

Peak table for sample 3 : 71

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	146	260.46	2,710.8		55.03
3	185	196.69	1,609.9		58.66
4	214	298.87	2,120.0		61.25
5	257	179.32	1,056.1		65.19
6	269	249.76	1,408.0		66.23
7	307	41.97	206.8		69.65
8	382	323.40	1,283.6		75.67
9	392	55.40	214.1		76.50
10	411	243.36	896.6		77.79
11	651	25.06	58.3		89.15
12	930	18.11	29.5		93.92
13	1,274	16.51	19.6		96.72
14	1,899	12.04	9.6		100.87
15	2,767	16.15	8.8		104.08
16	3,652	8.18	3.4		105.69
17	4,462	9.89	3.4		106.73
18	5,960	7.24	1.8		108.64
19	6,811	6.32	1.4		109.73
20	7,656	6.02	1.2		110.56
21	10,380	75.00	10.9	Upper Marker	113.00
22	11,945	0.00	0.0		114.40
23	12,930	0.00	0.0		115.28
24	13,799	0.00	0.0		116.06
25	16,349	0.00	0.0		118.34

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-07\2019-10-07_002.xad

Created: 10/7/2019 1:52:29 PM
Modified: 10/7/2019 2:40:13 PM

Electropherogram Summary Continued ...**... Peak table for sample 3 : 71**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	17,682	0.00	0.0		119.53

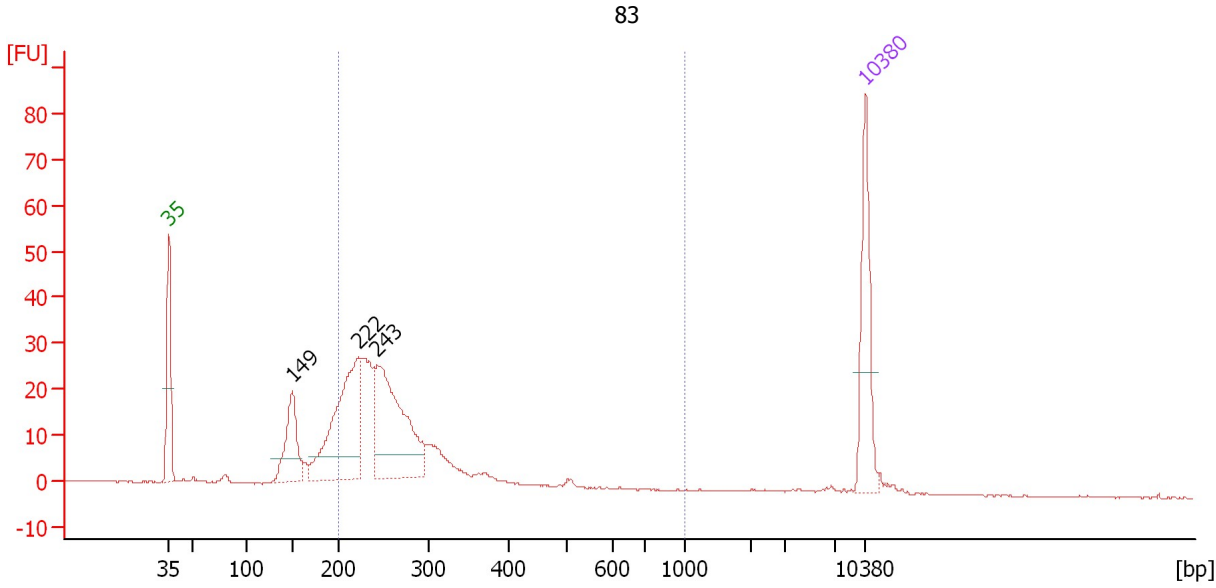
Region table for sample 3 : 71

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	410	1,970.66	1,594.4	8,950.3	 69	41.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-07\2019-10-07_002.xad

Created: 10/7/2019 1:52:29 PM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : 83

Number of peaks found: 3 Corr. Area 1: 330.5
 Noise: 0.2

Peak table for sample 4 : 83

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	90.96	923.2		55.37
3	222	214.94	1,466.8		62.01
4	243	215.32	1,340.3		63.94
5	10,380	75.00	10.9	Upper Marker	113.00

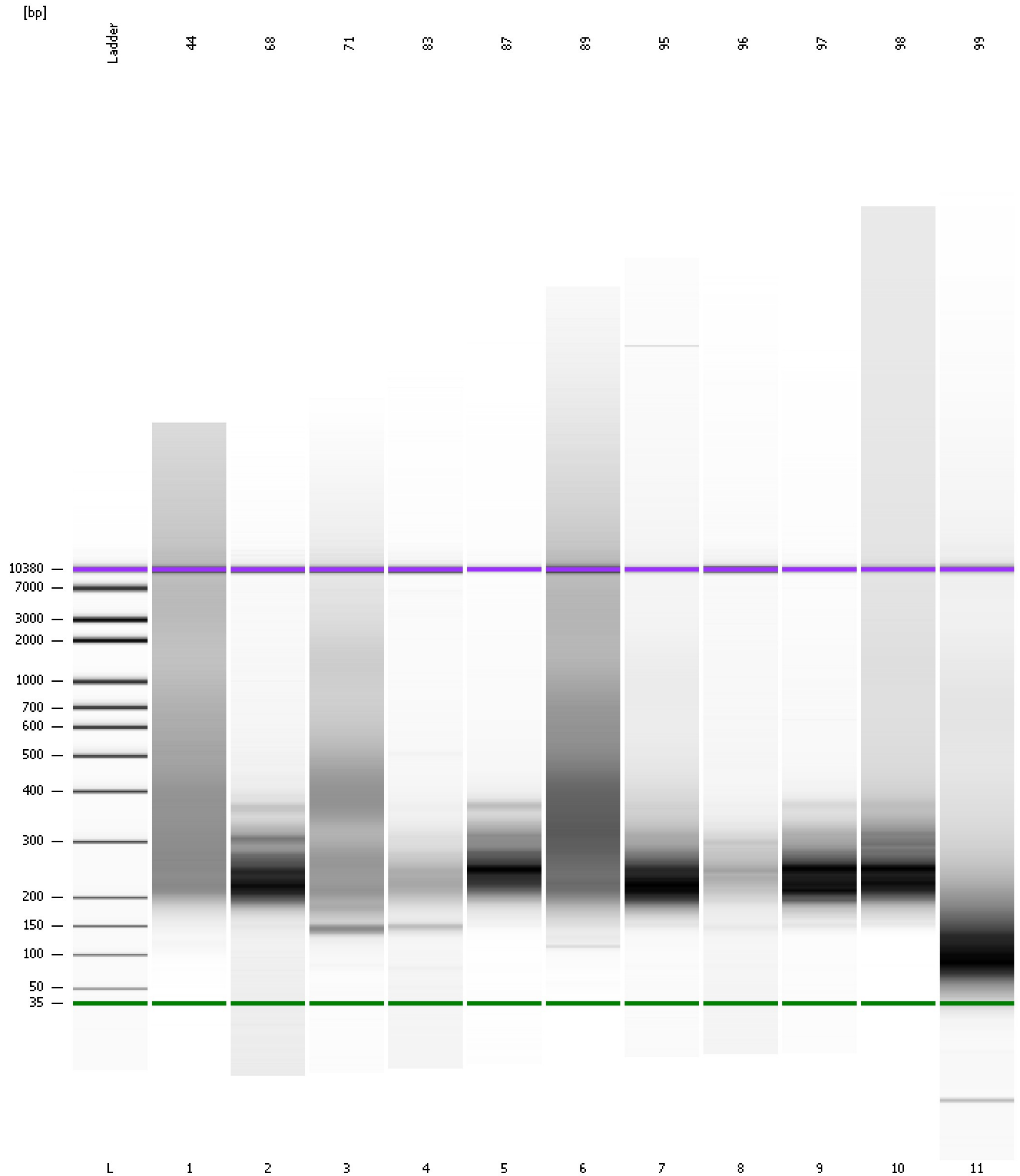
Region table for sample 4 : 83

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	262	567.32	330.5	3,393.8	75	21.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-07\2019-10-07_002.xad

Created: 10/7/2019 1:52:29 PM
Modified: 10/7/2019 2:40:13 PM

Gel Image

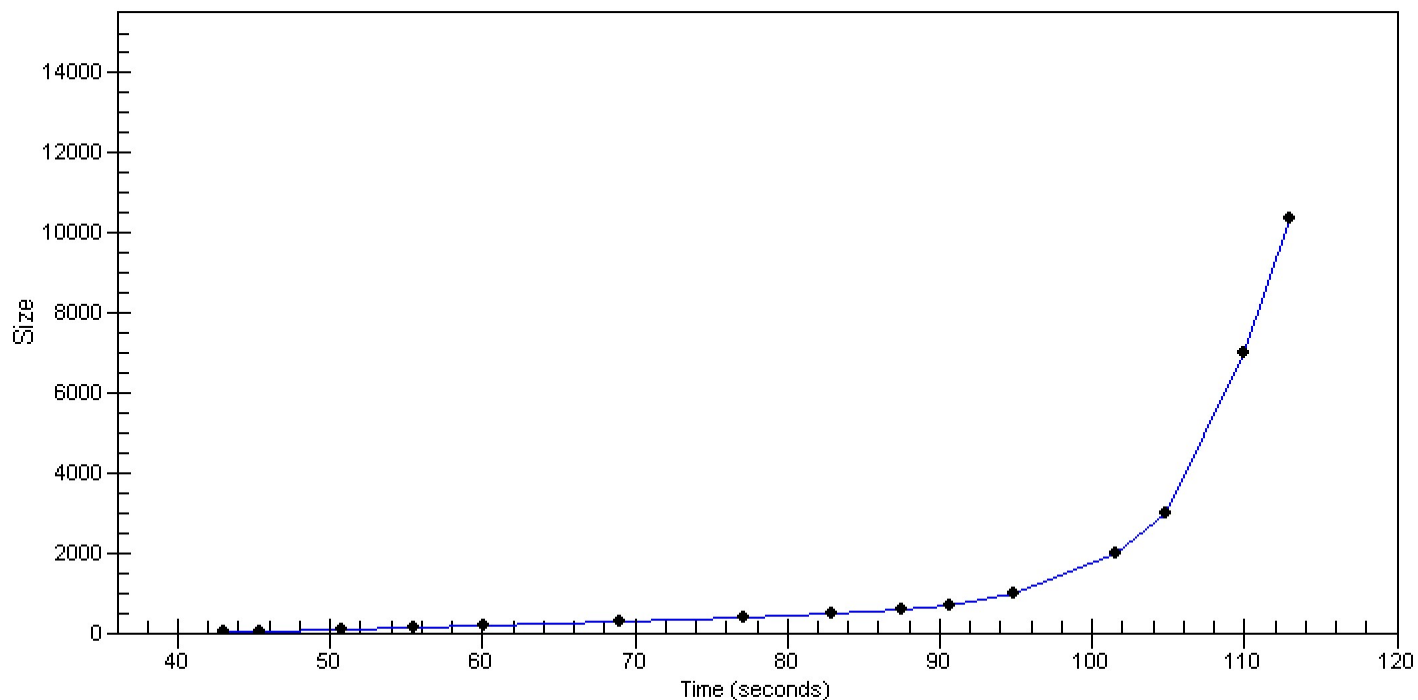


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-07\2019-10-07_002.xad

Created: 10/7/2019 1:52:29 PM
Modified: 10/7/2019 2:40:13 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-07\2019-10-07_002.xad

Created: 10/7/2019 1:52:29 PM
 Modified: 10/7/2019 2:40:13 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		10/7/2019 2:32:50 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\2019-10-07\2019-10-07_002.xad)		Instrument	Run		10/7/2019 1:52:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		10/7/2019 1:52:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/7/2019 1:52:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/7/2019 1:52:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		10/7/2019 1:52:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/7/2019 1:52:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/7/2019 1:52:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1