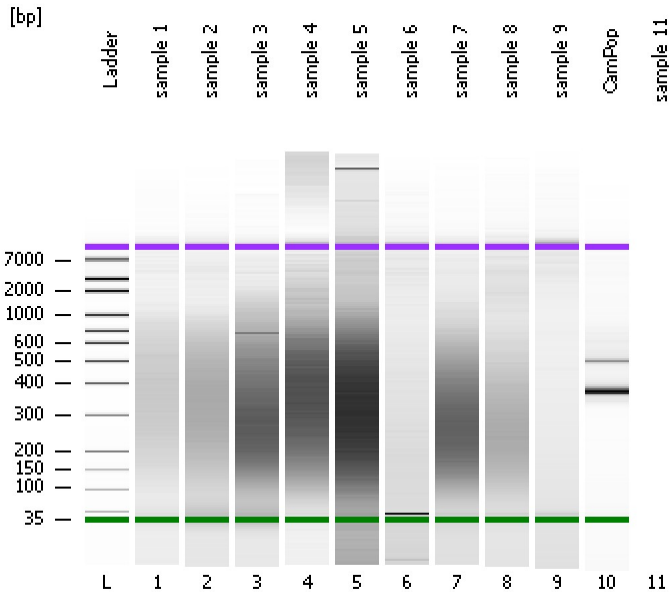


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
Modified: 11/9/2015 10:36:53 AM

Electrophoresis File Run Summary



Instrument Information:

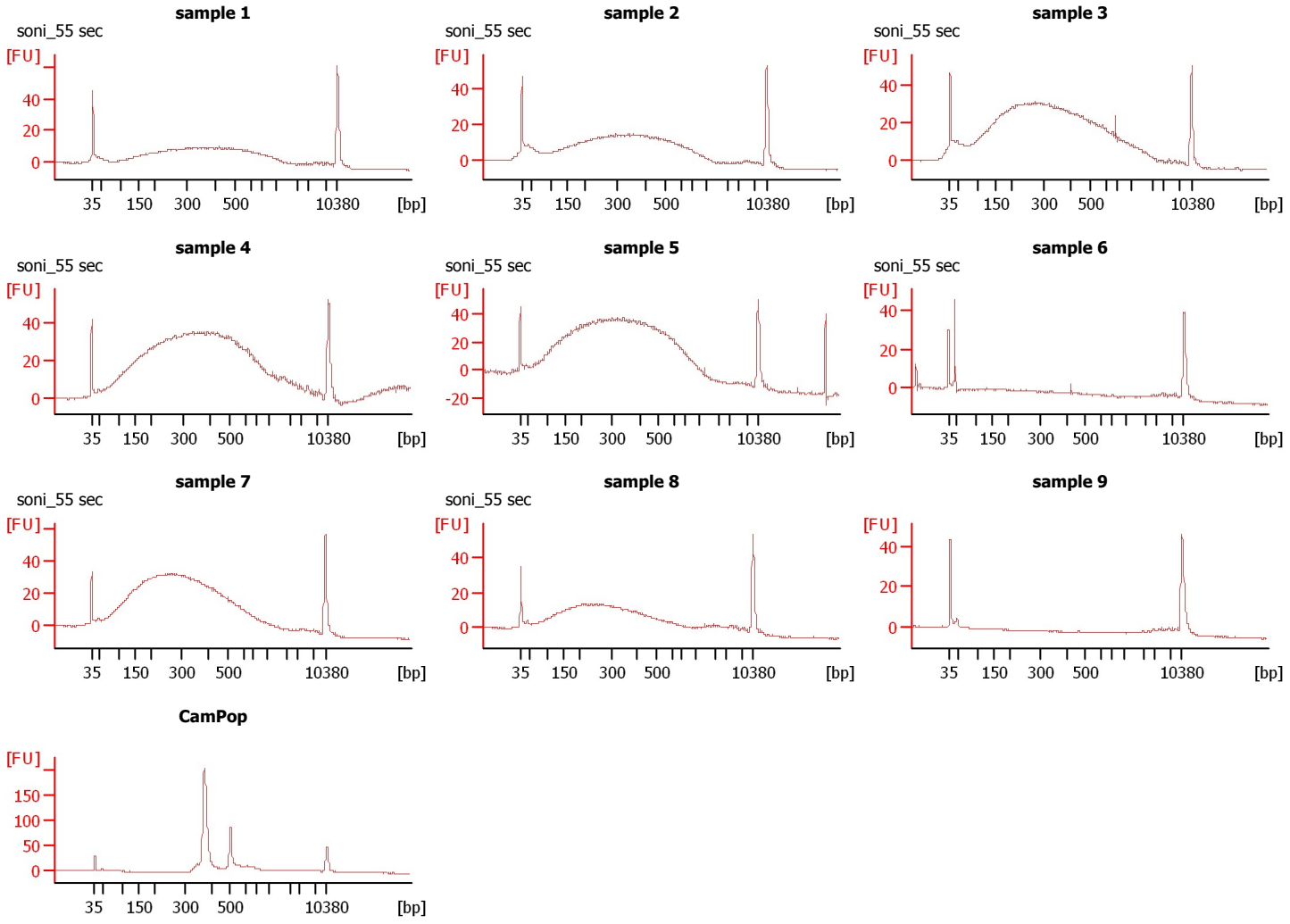
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
Modified: 11/9/2015 10:36:53 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1	soni_55 sec	<input type="checkbox"/>	✓			
sample 2	soni_55 sec	<input type="checkbox"/>	✓			
sample 3	soni_55 sec	<input type="checkbox"/>	✓			
sample 4	soni_55 sec	<input type="checkbox"/>	✓			
sample 5	soni_55 sec	<input type="checkbox"/>	✓			
sample 6	soni_55 sec	<input type="checkbox"/>	✓			
sample 7	soni_55 sec	<input type="checkbox"/>	✓			
sample 8	soni_55 sec	<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>	✓			
CamPop		<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:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
Modified: 11/9/2015 10:36:53 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

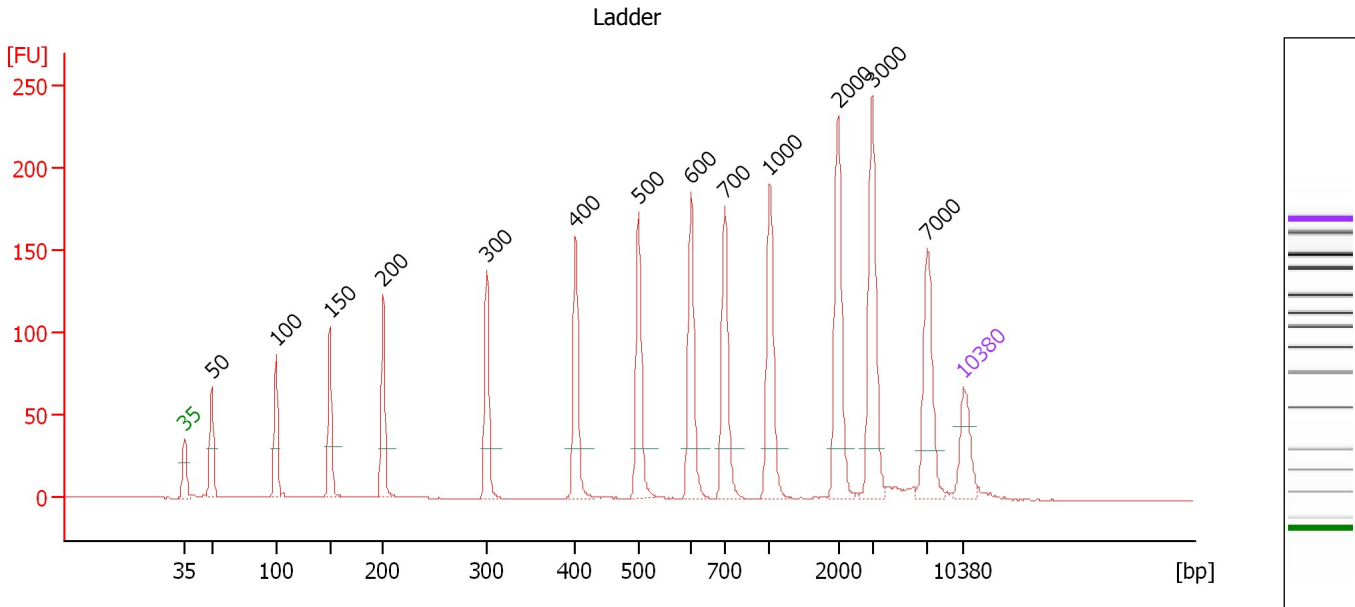
Ladder

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:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

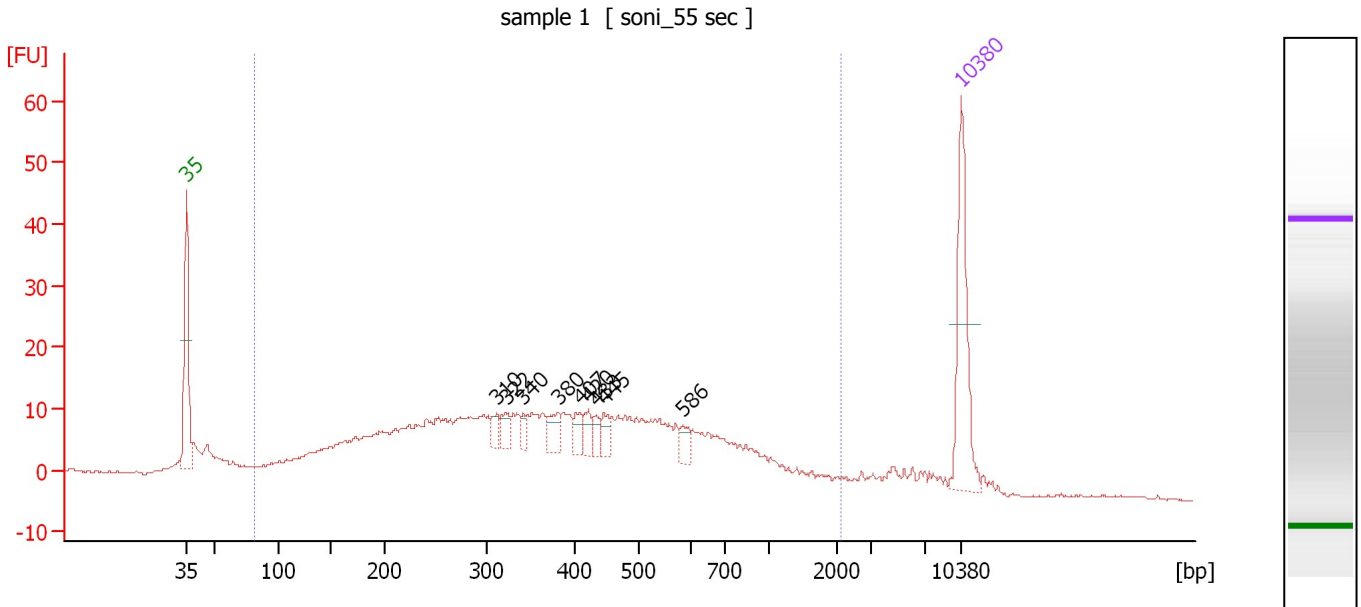
Peak table for Ladder

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	45.44
3	100	150.00	2,272.7	Ladder Peak	51.24
4	150	150.00	1,515.2	Ladder Peak	56.08
5	200	150.00	1,136.4	Ladder Peak	60.87
6	300	150.00	757.6	Ladder Peak	70.17
7	400	150.00	568.2	Ladder Peak	78.17
8	500	150.00	454.5	Ladder Peak	83.82
9	600	150.00	378.8	Ladder Peak	88.52
10	700	150.00	324.7	Ladder Peak	91.58
11	1,000	150.00	227.3	Ladder Peak	95.61
12	2,000	150.00	113.6	Ladder Peak	101.74
13	3,000	150.00	75.8	Ladder Peak	104.81
14	7,000	150.00	32.5	Ladder Peak	109.69
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 9 Corr. Area 1: 554.7
 Noise: 0.2

Peak table for sample 1 : sample 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	310	10.56	51.5		70.99
3	322	13.48	63.5		71.91
4	340	10.12	45.0		73.40
5	380	18.97	75.6		76.58
6	407	14.67	54.6		78.55
7	420	13.41	48.4		79.28
8	433	10.45	36.5		80.05
9	445	13.81	47.0		80.72
10	586	11.91	30.8		87.85
11	10,380	75.00	10.9	Upper Marker	113.00

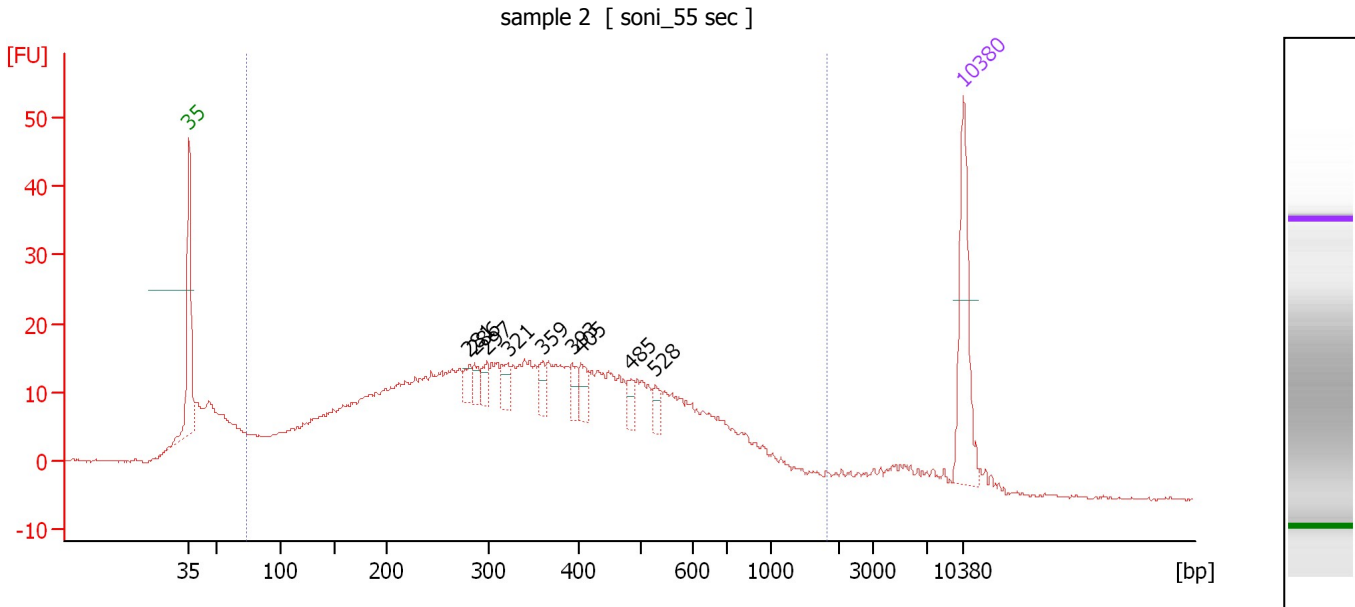
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
82	2,116	448	554.7	6,329.8	1,160.70	89	66.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

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 Modified: 11/9/2015 10:36:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 9 Corr. Area 1: 809.7
 Noise: 0.2

Peak table for sample 2 : sample 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	281	14.37	77.6		68.36
3	286	14.28	75.7		68.84
4	297	14.76	75.3		69.90
5	321	18.71	88.2		71.88
6	359	15.40	64.9		74.91
7	393	16.26	62.7		77.61
8	405	19.25	72.1		78.43
9	485	11.96	37.4		82.97
10	528	13.61	39.0		85.13
11	10,380	75.00	10.9	Upper Marker	113.00

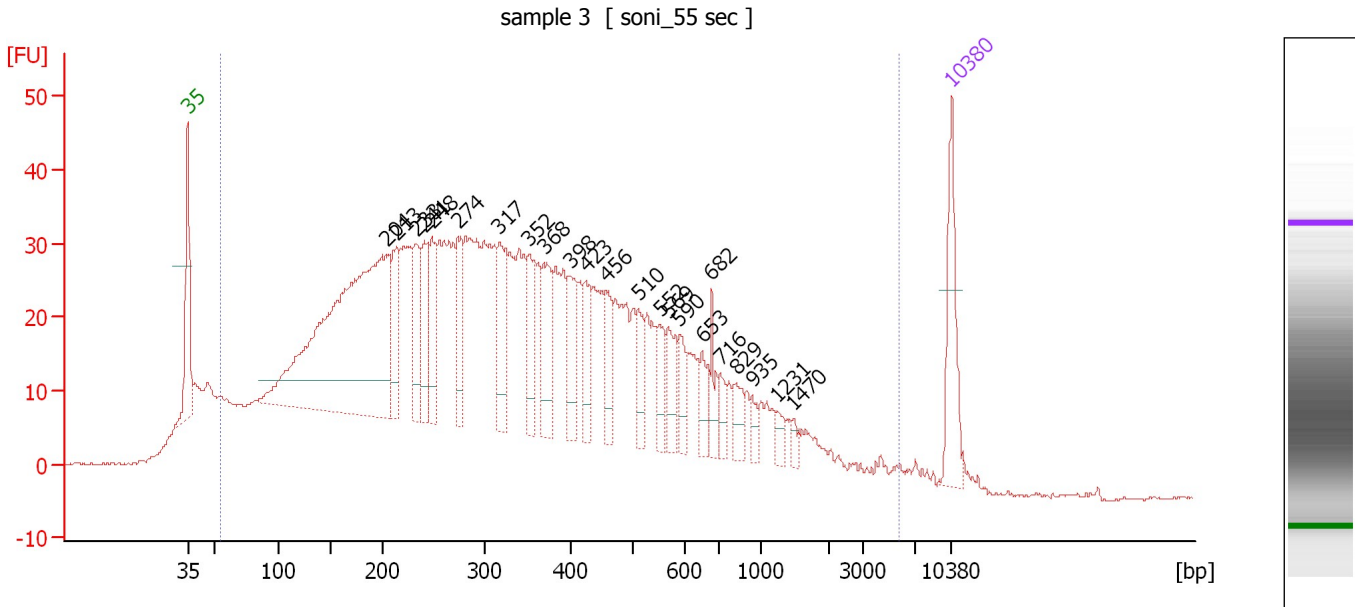
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
73	1,829	390	809.7	12,265.9	1,968.95	88	59.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 23 Corr. Area 1: 1,714.7
 Noise: 0.2

Peak table for sample 3 : sample 3

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	204	779.85	5,799.0		61.22
3	213	81.88	581.8		62.10
4	233	87.15	566.3		63.96
5	241	81.10	509.7		64.69
6	248	75.05	457.8		65.37
7	274	78.13	431.8		67.77
8	317	94.73	452.8		71.53
9	352	66.22	285.2		74.31
10	368	86.02	353.9		75.63
11	398	69.33	263.8		78.02
12	423	55.54	198.8		79.49
13	456	41.69	138.4		81.35
14	510	43.98	130.7		84.28
15	552	38.10	104.5		86.28
16	569	48.83	130.0		87.06
17	590	36.45	93.6		88.04
18	653	30.94	71.8		90.14
19	682	32.87	73.1		91.02
20	716	20.11	42.5		91.80
21	829	27.18	49.7		93.31
22	935	14.61	23.7		94.73
23	1,231	13.67	16.8		97.03
24	1,470	8.41	8.7		98.49
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
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Electropherogram Summary Continued ...

... Region table for sample 3 :

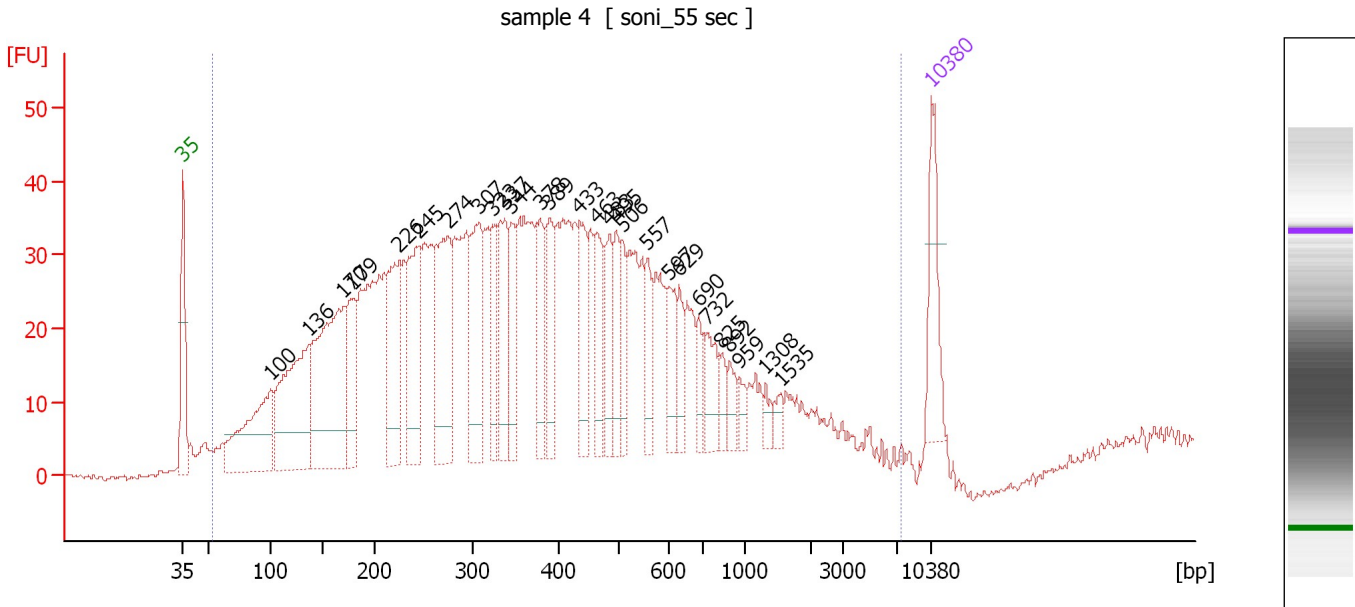
sample 3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
55	5,745	439	1,714.7	36,020.7	5,140.74	95	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 28 Corr. Area 1: 1,725.6
 Noise: 0.4

Peak table for sample 4 : sample 4

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	100	250.11	3,794.3		51.23
3	136	320.38	3,571.6		54.72
4	170	386.90	3,446.1		58.01
5	179	126.09	1,064.4		58.90
6	226	186.99	1,256.3		63.24
7	245	189.06	1,167.5		65.09
8	274	231.79	1,280.3		67.78
9	307	172.17	849.9		70.72
10	323	83.72	393.3		71.97
11	337	125.80	565.9		73.11
12	344	91.74	403.7		73.71
13	378	91.17	365.5		76.40
14	389	83.03	323.2		77.30
15	433	98.09	343.1		80.04
16	463	76.64	250.7		81.74
17	483	78.84	247.1		82.89
18	495	60.56	185.4		83.53
19	506	57.72	173.0		84.08
20	557	51.15	139.2		86.48
21	597	51.32	130.3		88.37
22	629	40.17	96.7		89.42
23	690	32.82	72.1		91.26
24	732	49.29	102.1		92.01
25	825	20.61	37.9		93.26

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
 Modified: 11/9/2015 10:36:53 AM

Electropherogram Summary Continued ...

... Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	892	25.28	43.0		94.15
27	959	16.20	25.6		95.05
28	1,308	13.48	15.6		97.49
29	1,535	13.33	13.2		98.89
30	10,380	75.00	10.9	Upper Marker	113.00

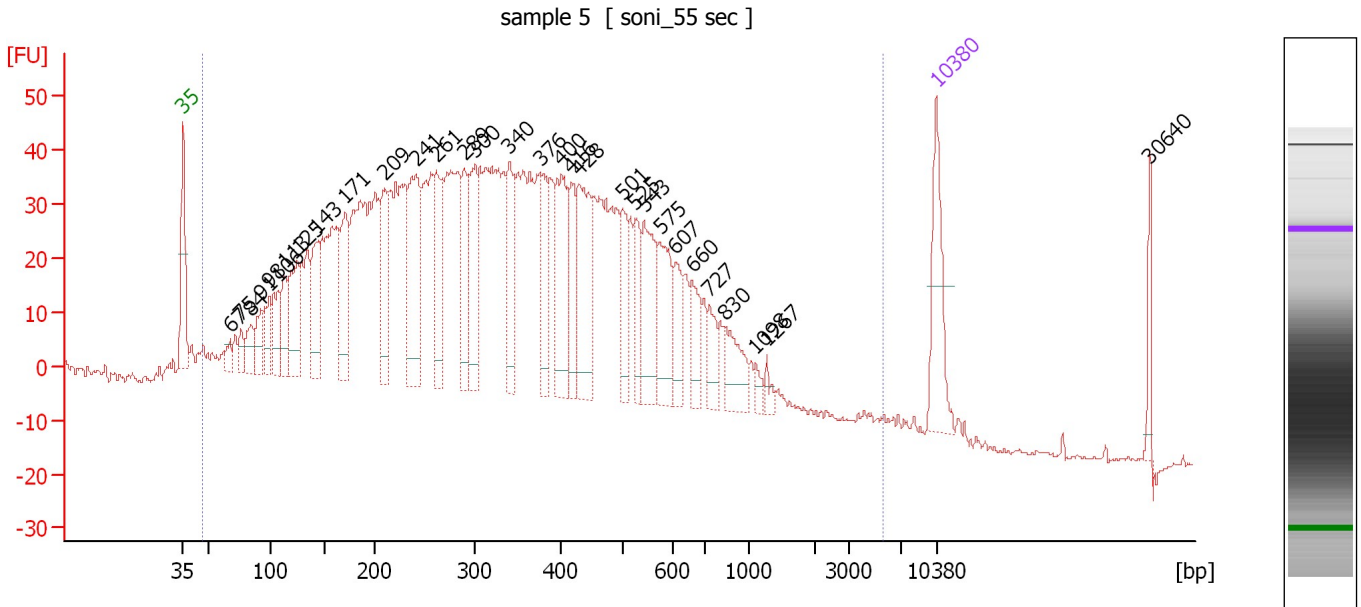
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
54	7,488	457	1,725.6	32,464.9	5,122.05	98	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 31 Corr. Area 1: 2,337.1
 Noise: 0.5

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	67	20.18	459.6		47.36
3	75	24.46	490.8		48.40
4	84	37.49	679.3		49.34
5	91	46.19	766.6		50.23
6	98	49.19	759.3		51.03
7	106	61.84	884.3		51.82
8	113	62.35	838.8		52.46
9	125	111.81	1,350.7		53.70
10	143	96.84	1,023.7		55.43
11	171	118.37	1,047.7		58.11
12	209	86.57	627.0		61.73
13	241	170.71	1,074.8		64.65
14	261	115.44	669.1		66.58
15	289	80.03	419.4		69.16
16	300	109.75	554.6		70.15
17	340	95.40	425.1		73.37
18	376	76.54	308.5		76.24
19	400	118.98	450.6		78.17
20	416	69.03	251.5		79.07
21	428	134.61	476.4		79.76
22	501	54.03	163.4		83.87
23	525	46.24	133.4		85.01
24	543	95.16	265.4		85.85
25	575	80.14	211.2		87.34

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

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Electropherogram Summary Continued ...

... Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	607	44.35	110.7		88.73
27	660	46.44	106.6		90.36
28	727	33.12	69.0		91.95
29	830	51.55	94.1		93.33
30	1,098	10.10	13.9		96.21
31	1,267	9.31	11.1		97.25
32	10,380	75.00	10.9	Upper Marker	113.00
33	30,640	0.00	0.0		132.82

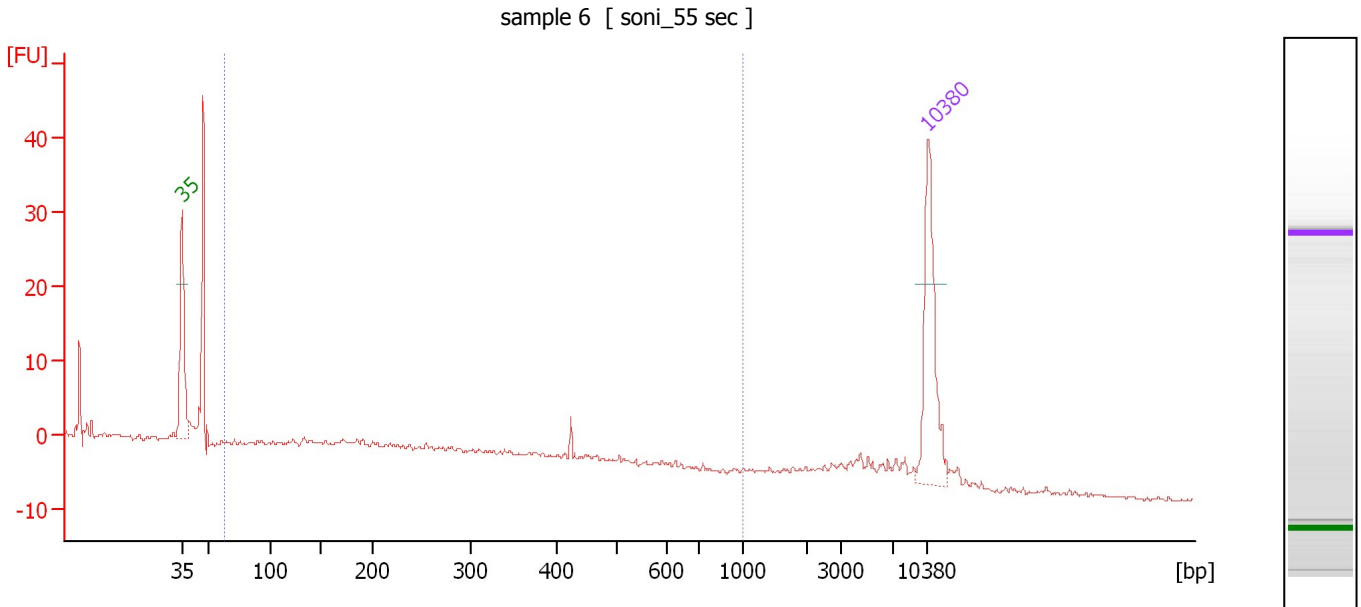
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
47	5,619	421	2,337.1	33,652.9	4,975.76	97	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 0 Corr. Area 1: 69.5
 Noise: 0.2

Peak table for sample 6 : sample 6

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

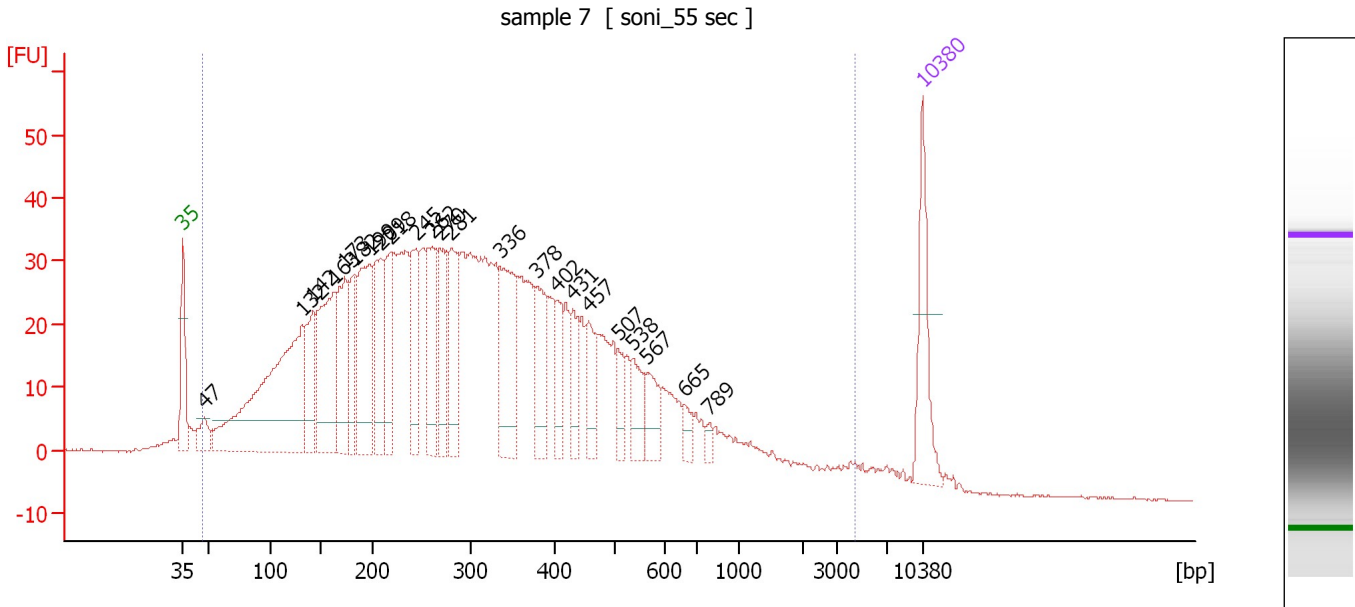
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
63	1,000	335	69.5	1,354.4	186.91	46	53.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
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Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 23 Corr. Area 1: 1,682.7
 Noise: 0.2

Peak table for sample 7 : sample 7

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	47	37.74	1,206.7		45.02
3	132	483.06	5,562.7		54.30
4	142	99.60	1,062.8		55.31
5	163	221.44	2,058.8		57.32
6	173	138.05	1,205.6		58.33
7	182	82.62	686.2		59.19
8	199	184.30	1,404.9		60.75
9	209	122.45	887.6		61.71
10	218	90.38	627.5		62.57
11	245	105.24	651.3		65.04
12	262	114.19	659.9		66.65
13	270	87.83	493.2		67.36
14	281	102.16	550.5		68.42
15	336	153.89	695.0		73.01
16	378	88.86	356.4		76.39
17	402	46.08	173.5		78.30
18	431	47.49	167.0		79.92
19	457	50.75	168.3		81.38
20	507	31.21	93.2		84.15
21	538	43.25	121.7		85.62
22	567	42.25	112.9		86.98
23	665	16.96	38.7		90.51
24	789	7.79	15.0		92.78
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
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Electropherogram Summary Continued ...

... Region table for sample 7 :

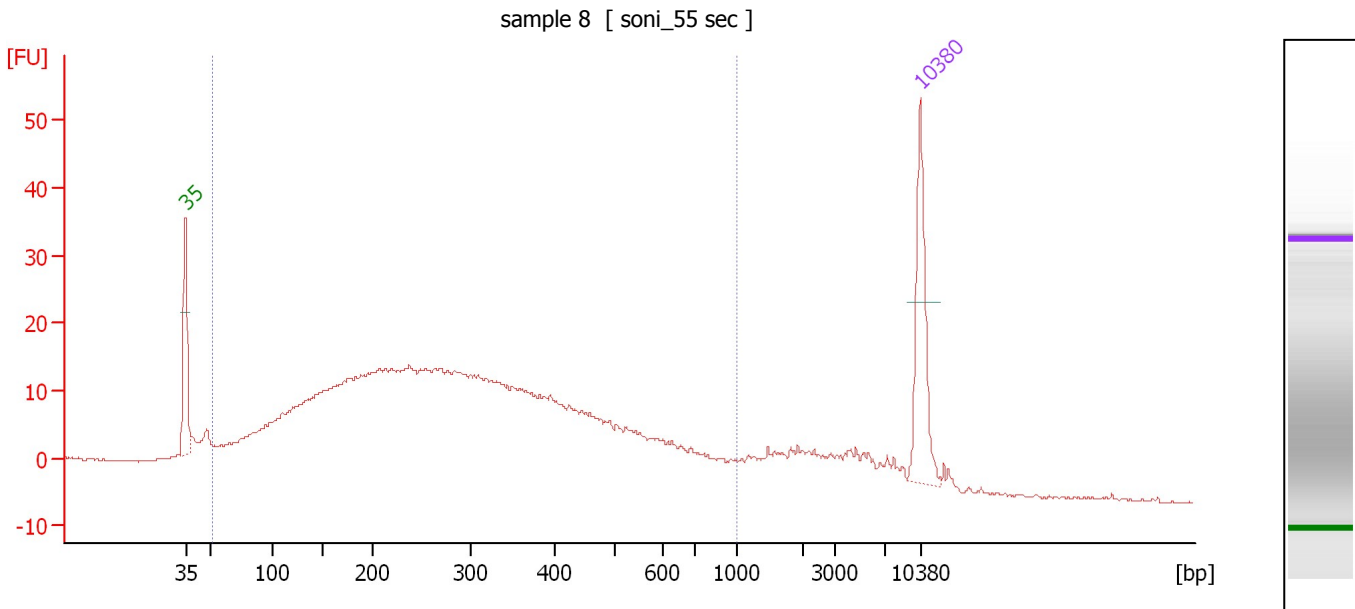
sample 7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
47	4,415	375	1,682.7	29,582.9	4,065.04	97	99.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
 Modified: 11/9/2015 10:36:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 0 Corr. Area 1: 717.9
 Noise: 0.1

Peak table for sample 8 : sample 8

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

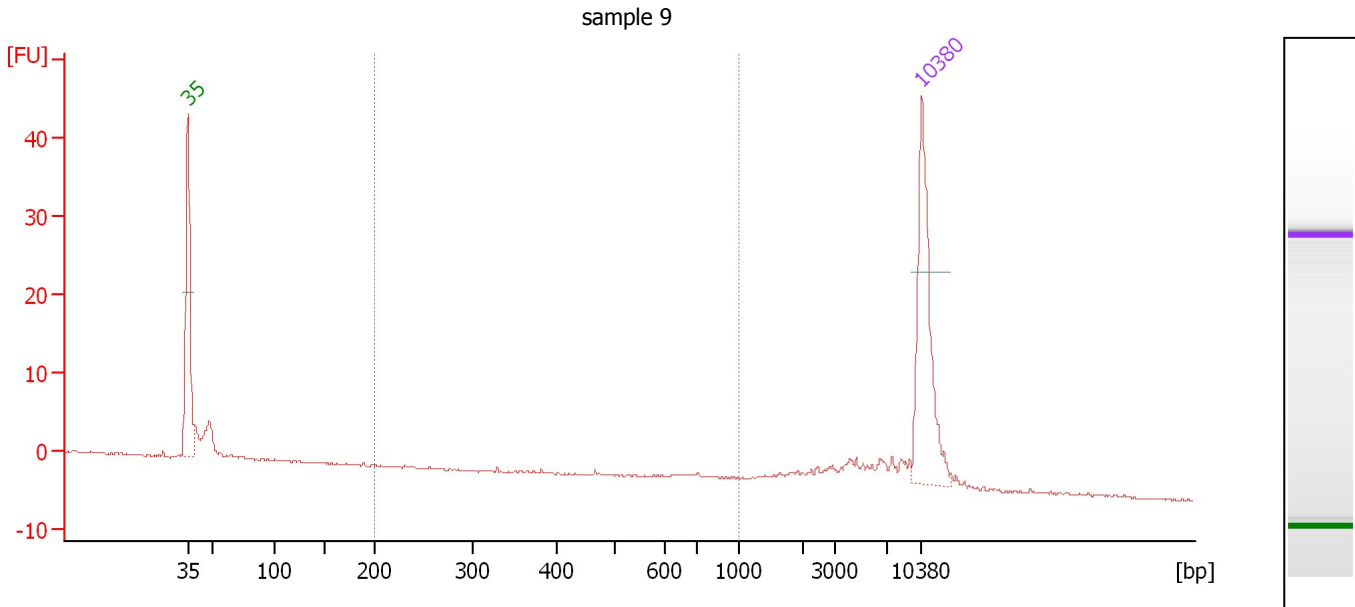
Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
52	1,000	316	717.9	13,483.6	1,800.27	88	53.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
 Modified: 11/9/2015 10:36:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 0 Corr. Area 1: 2.2
 Noise: 0.1

Peak table for sample 9 : 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	10,380	75.00	10.9	Upper Marker	113.00

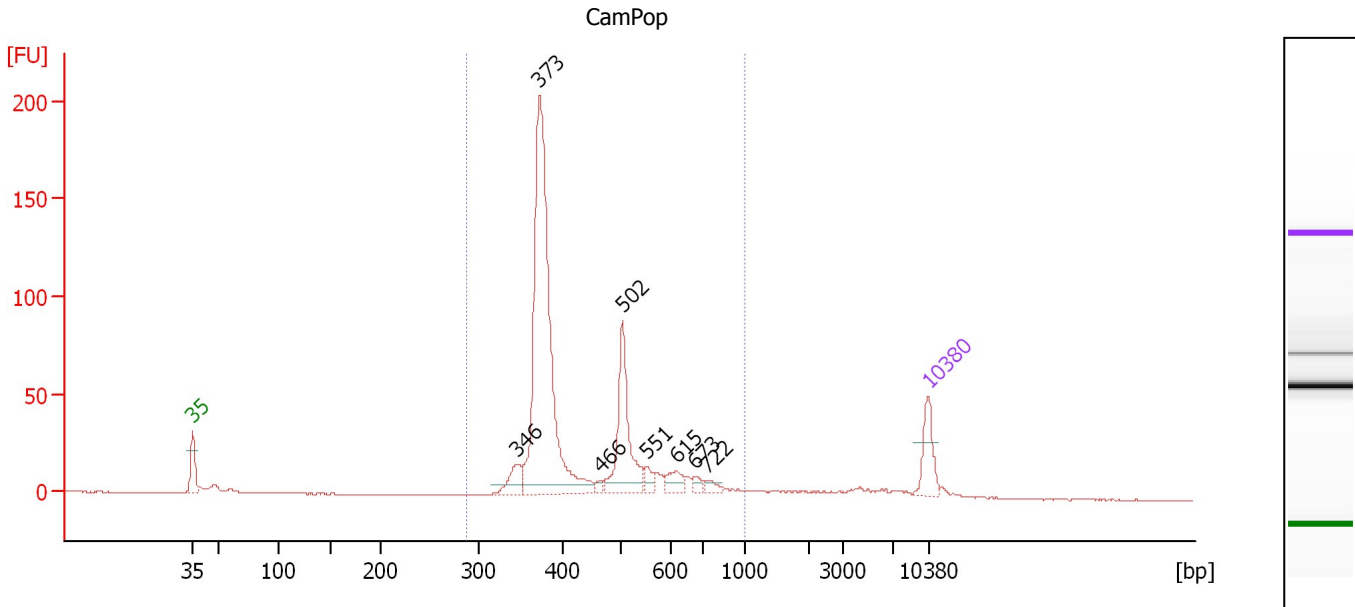
Region table for sample 9 : sample 9

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	720	2.2	8.3	3.72	5	20.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
 Modified: 11/9/2015 10:36:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CamPop

Number of peaks found: 8 Corr. Area 1: 725.5
 Noise: 0.1

Peak table for sample 10 : CamPop

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	346	68.66	301.0		73.81
3	373	1,059.98	4,307.5		75.99
4	466	12.88	41.9		81.88
5	502	271.12	818.3		83.91
6	551	31.85	87.6		86.20
7	615	43.04	106.0		88.99
8	673	17.65	39.7		90.77
9	722	15.99	33.5		91.88
10	10,380	75.00	10.9	Upper Marker	113.00

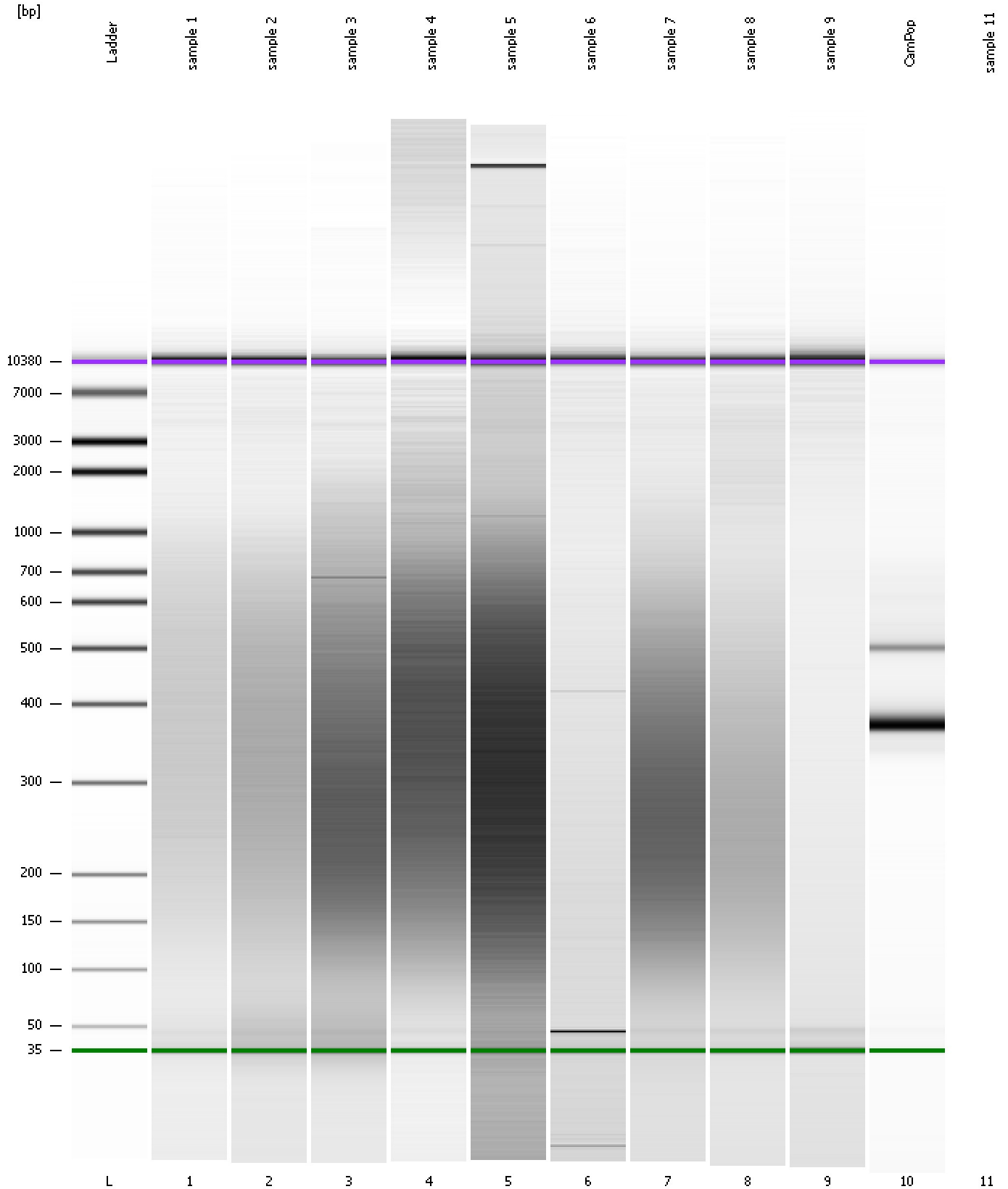
Region table for sample 10 : CamPop

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
287	1,000	444	725.5	5,942.1	1,637.97	90	25.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
Modified: 11/9/2015 10:36:53 AM

Gel Image

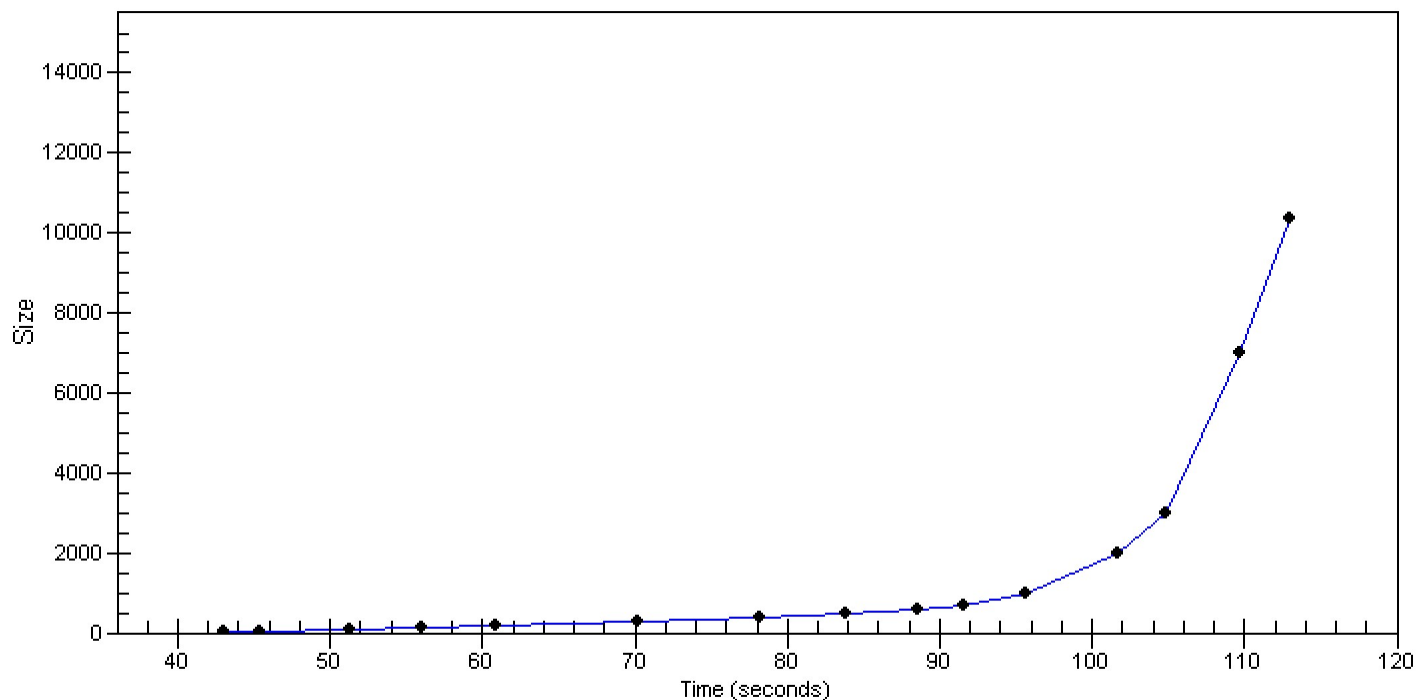


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
Modified: 11/9/2015 10:36:53 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
Modified: 11/9/2015 10:36:53 AM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad

Created: 11/9/2015 9:56:48 AM
 Modified: 11/9/2015 10:36:53 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		11/9/2015 10:35:13 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-09\2015-11-09_001.xad)		Instrument	Run		11/9/2015 9:56:53 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/9/2015 9:56:53 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/9/2015 9:56:53 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/9/2015 9:56:53 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/9/2015 9:56:53 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/9/2015 9:56:53 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/9/2015 9:56:53 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1