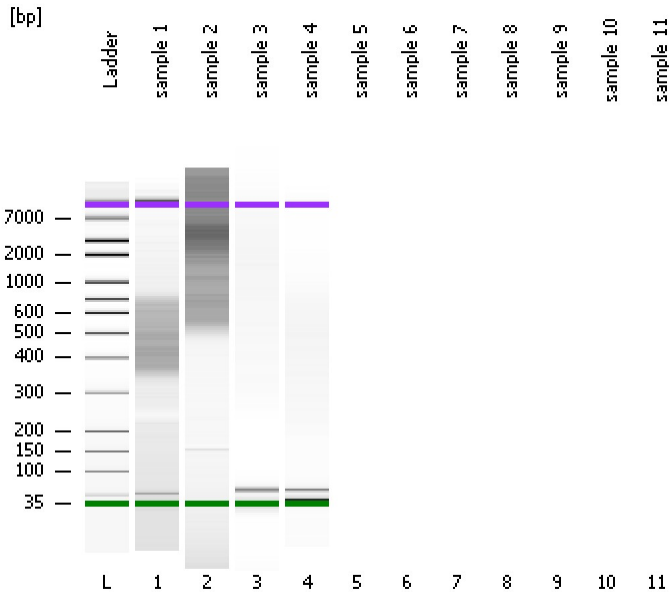


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_001.xad

Created: 4/22/2013 10:43:10 AM
Modified: 4/22/2013 11:14:12 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

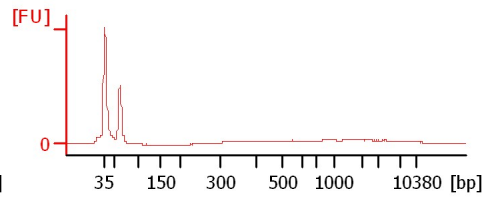
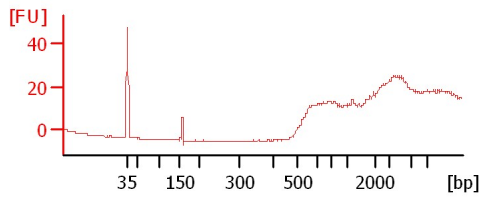
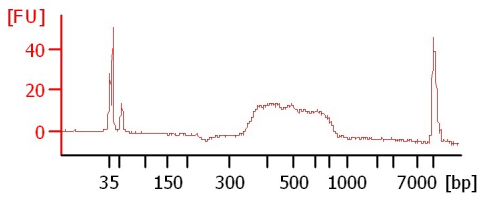
Chip Information:

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

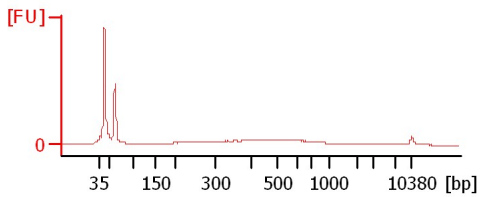
sample 1

sample 2

sample 3



sample 4



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_001.xad

Created: 4/22/2013 10:43:10 AM
Modified: 4/22/2013 11:14:12 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<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:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_001.xad

Created: 4/22/2013 10:43:10 AM
Modified: 4/22/2013 11:14:12 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

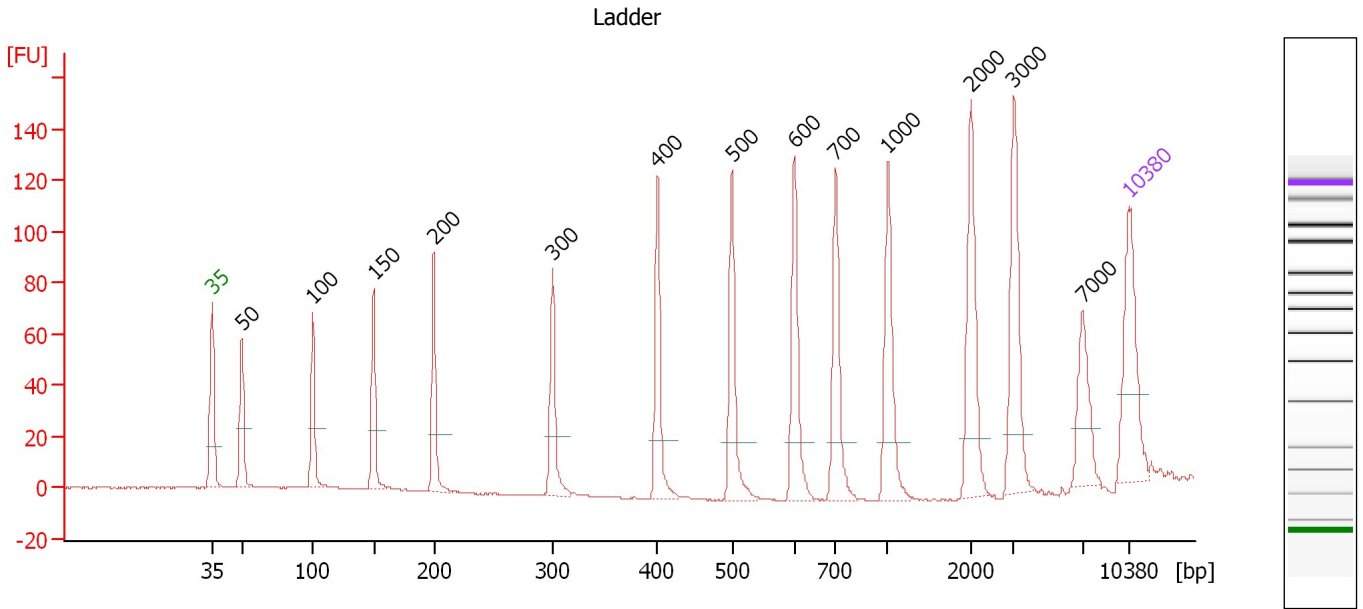
Ladder

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\2013-04-22\2013-04-22_001.xad

Created: 4/22/2013 10:43:10 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

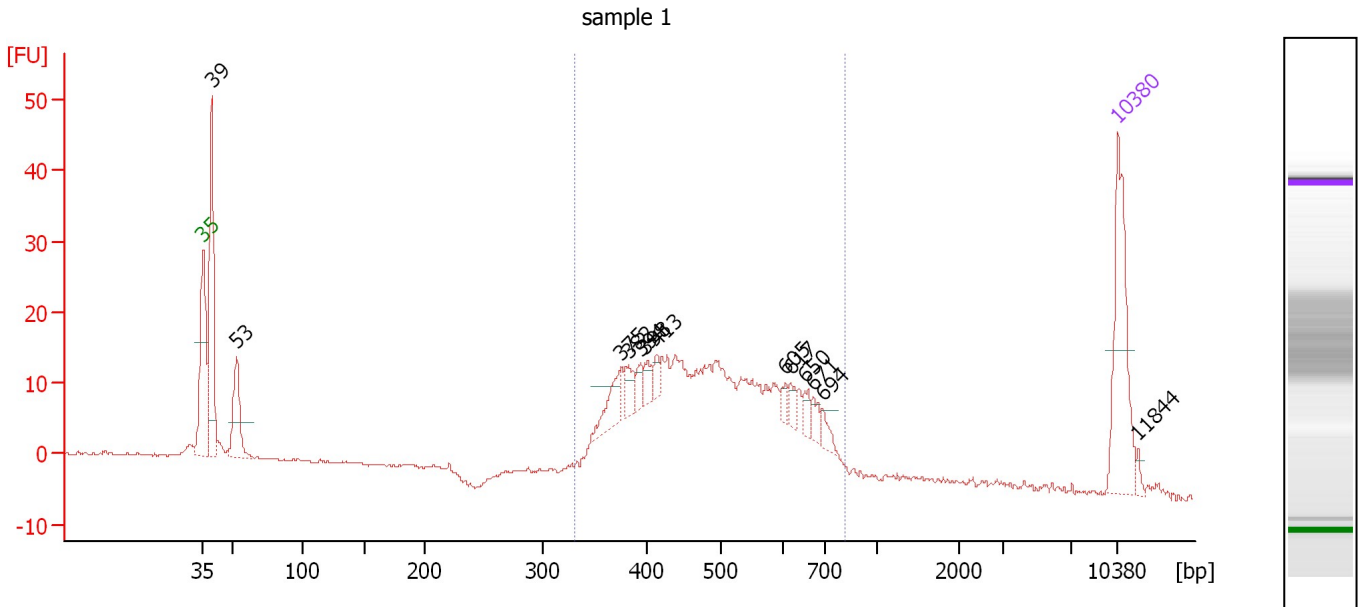
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_001.xad

Created: 4/22/2013 10:43:10 AM
 Modified: 4/22/2013 11:14:12 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 13 Corr. Area 1: 343.2
 Noise: 0.2

Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	158.36	6,105.4	
3	53	65.40	1,880.2	
4	375	29.59	119.5	
5	382	14.83	58.8	
6	394	10.16	39.1	
7	398	10.95	41.7	
8	413	8.91	32.7	
9	605	6.24	15.6	
10	617	8.24	20.2	
11	650	9.67	22.5	
12	671	9.53	21.5	
13	694	8.52	18.6	
14	10,380	75.00	10.9	Upper Marker
15	11,844	0.00	0.0	

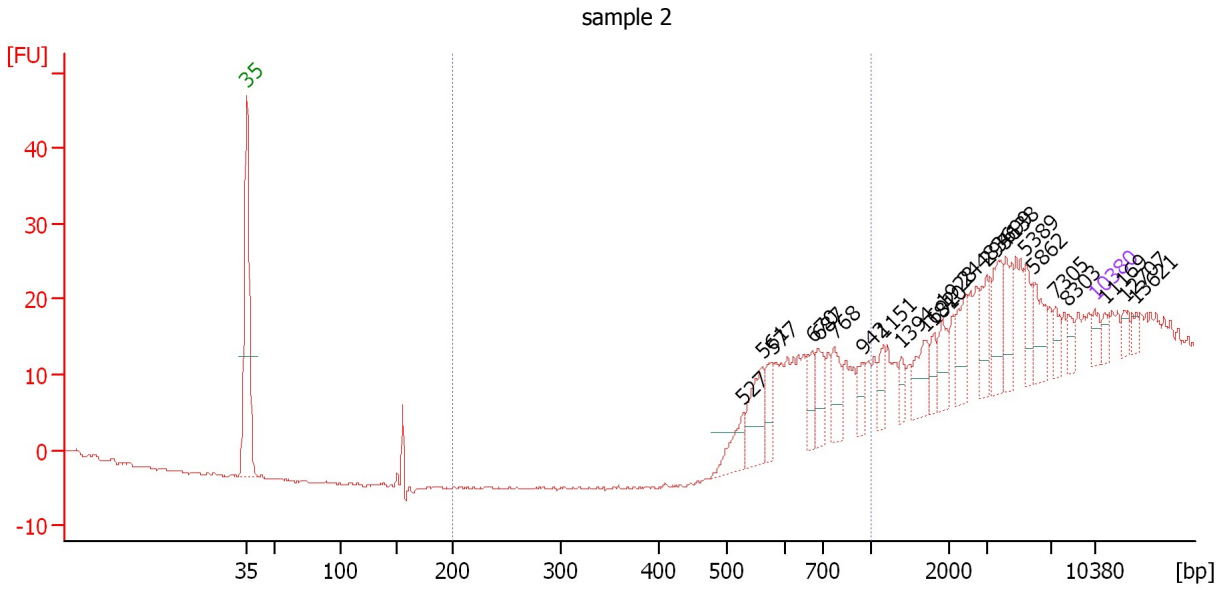
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
331	816	498	2,271.7	704.12	343.2	73	20.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_001.xad

Created: 4/22/2013 10:43:10 AM
 Modified: 4/22/2013 11:14:12 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 23 Corr. Area 1: 18.0
 Noise: 0.2

Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	527	241.68	694.2	
3	561	395.63	1,069.0	
4	577	183.80	482.3	
5	670	199.82	451.8	
6	687	246.54	543.9	
7	768	226.52	446.7	
8	942	110.31	177.4	
9	1,151	107.27	141.2	
10	1,394	80.25	87.2	
11	1,692	204.40	183.1	
12	1,810	106.23	88.9	
13	1,928	158.80	124.8	
14	2,448	200.20	123.9	
15	2,956	195.19	100.1	
16	3,699	271.74	111.3	
17	4,138	203.74	74.6	
18	5,389	147.79	41.6	
19	5,862	207.74	53.7	
20	7,305	89.55	18.6	
21	8,303	65.72	12.0	
22	10,380	75.00	10.9	Upper Marker
23	11,169	0.00	0.0	
24	12,707	0.00	0.0	
25	13,621	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_001.xad

Created: 4/22/2013 10:43:10 AM
Modified: 4/22/2013 11:14:12 AM

Electropherogram Summary Continued ...

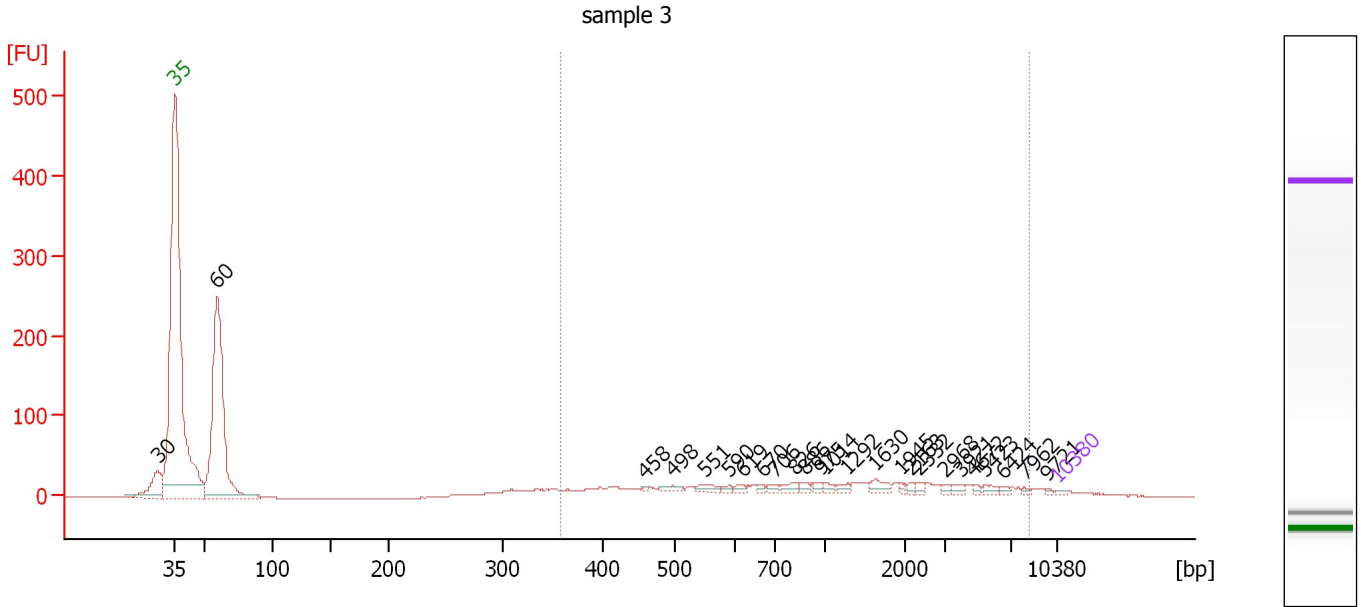
... Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	676	814.5	357.19	18.0	14	13.9	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 25 Corr. Area 1: 559.3
 Noise: 0.2

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	60	15,711.13	397,254.8	
4	458	74.16	245.2	
5	498	309.30	941.9	
6	551	354.70	975.6	
7	590	154.14	395.8	
8	619	169.66	415.5	
9	670	126.57	286.2	
10	706	209.65	450.1	
11	826	324.19	594.6	
12	886	193.14	330.2	
13	975	199.46	310.1	
14	1,014	177.65	265.6	
15	1,292	190.96	223.9	
16	1,630	399.28	371.2	
17	1,945	115.50	90.0	
18	2,163	114.73	80.4	
19	2,332	173.57	112.8	
20	2,968	137.23	70.1	
21	3,921	185.81	71.8	
22	4,672	122.44	39.7	
23	5,423	200.61	56.1	
24	6,424	124.45	29.4	
25	7,962	82.04	15.6	
26	9,721	58.74	9.2	


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_001.xad

Created: 4/22/2013 10:43:10 AM
Modified: 4/22/2013 11:14:12 AM

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

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
27	10,380	75.00	10.9	Upper Marker

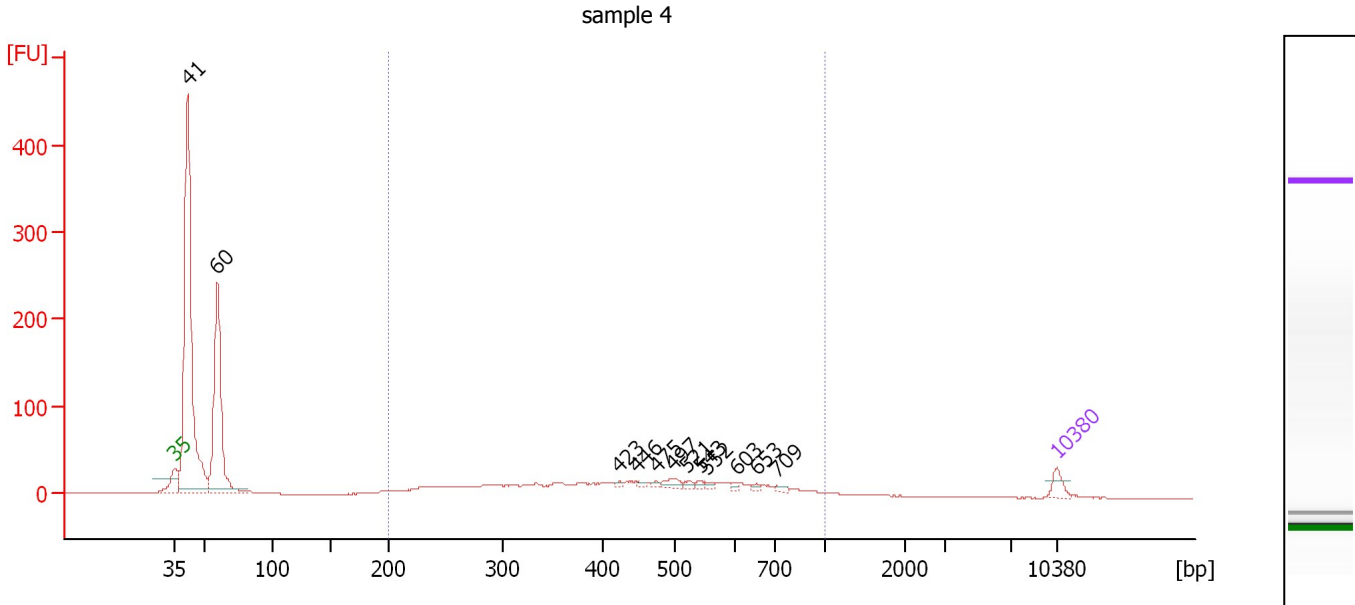
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
358	8,346	1,845	19,351.3	9,827.30	559.3	45	100.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_001.xad

Created: 4/22/2013 10:43:10 AM
 Modified: 4/22/2013 11:14:12 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 12 Corr. Area 1: 603.4
 Noise: 0.2

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	4,291.80	156,808.7	
3	60	2,088.48	52,970.1	
4	423	14.98	53.6	
5	446	21.12	71.7	
6	475	23.15	73.9	
7	497	69.33	211.2	
8	521	32.67	95.0	
9	543	30.04	83.9	
10	552	25.98	71.3	
11	603	21.20	53.3	
12	653	23.09	53.6	
13	709	28.05	59.9	
14	10,380	75.00	10.9	Upper Marker

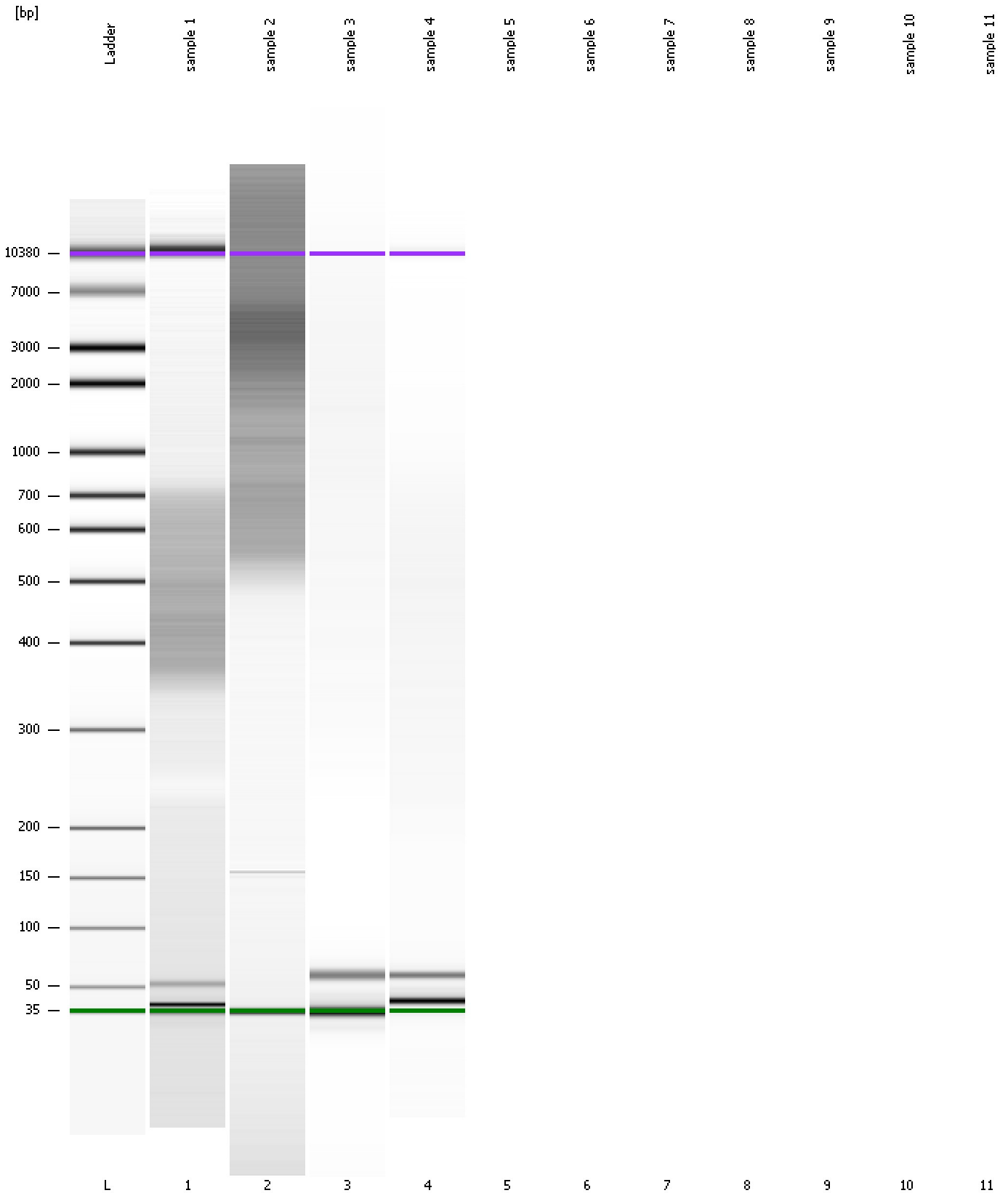
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	459	8,708.7	2,181.77	603.4	32	35.9	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_001.xad

Created: 4/22/2013 10:43:10 AM
Modified: 4/22/2013 11:14:12 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_001.xad

Created: 4/22/2013 10:43:10 AM
Modified: 4/22/2013 11:14:12 AM

Invalid Samples

Sample 5 has not been run, no results available.

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
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_001.xad

Created: 4/22/2013 10:43:10 AM
 Modified: 4/22/2013 11:14:12 AM

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		4/22/2013 11:04:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-22\2013-04-22_001.xad)		Instrument	Run		4/22/2013 10:43:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/22/2013 10:43:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/22/2013 10:43:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/22/2013 10:43:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/22/2013 10:43:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/22/2013 10:43:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/22/2013 10:43:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1