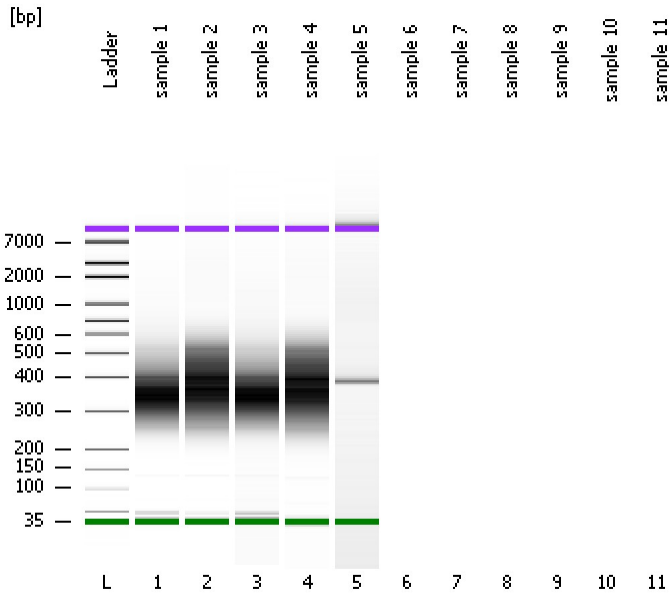


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_001.xad

Created: 4/7/2014 3:31:07 PM
Modified: 4/7/2014 3:57:35 PM

Electrophoresis File Run Summary



Instrument Information:

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

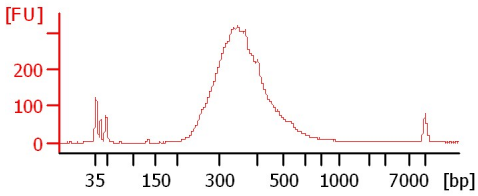
Assay Information:

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

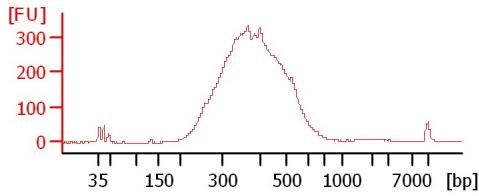
Chip Information:

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

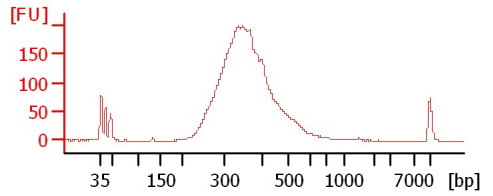
sample 1



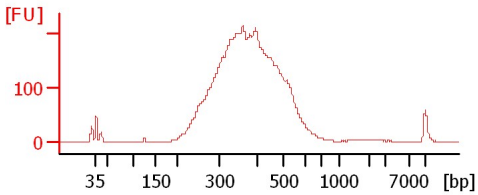
sample 2



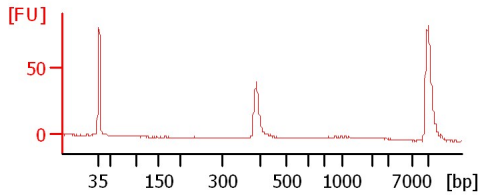
sample 3



sample 4



sample 5



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_001.xad

Created: 4/7/2014 3:31:07 PM
 Modified: 4/7/2014 3:57:35 PM

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\2014-04-07\2014-04-07_001.xad

Created: 4/7/2014 3:31:07 PM
Modified: 4/7/2014 3:57:35 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

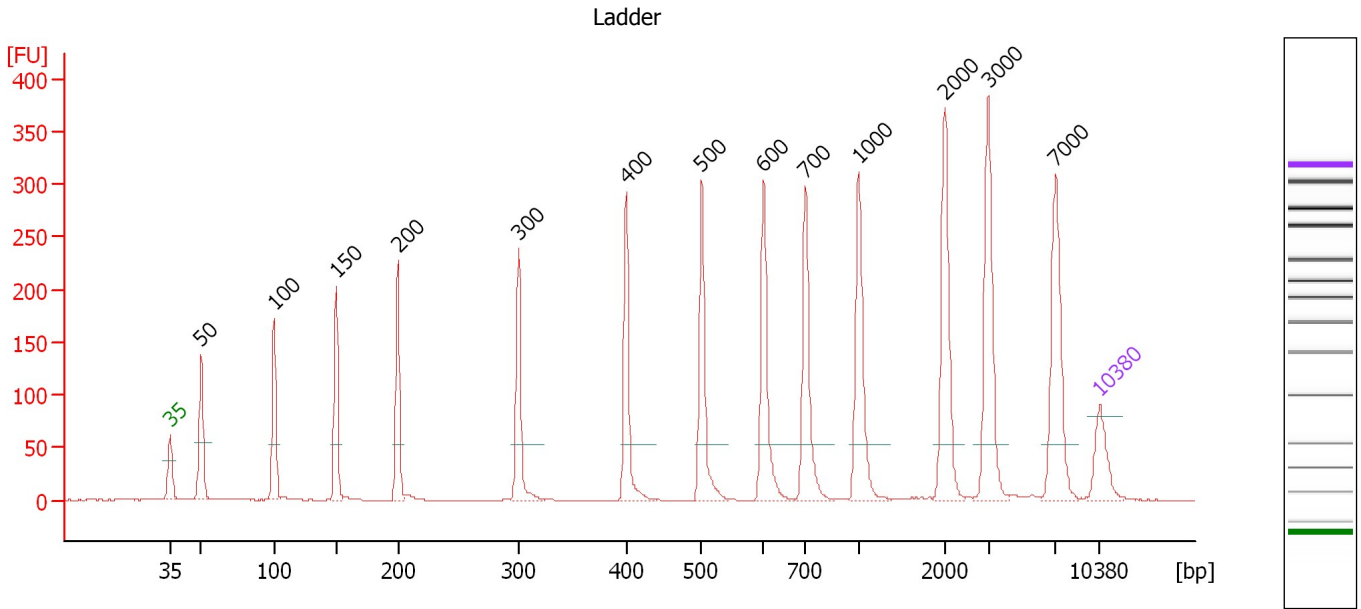
Ladder

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:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_001.xad

Created: 4/7/2014 3:31:07 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

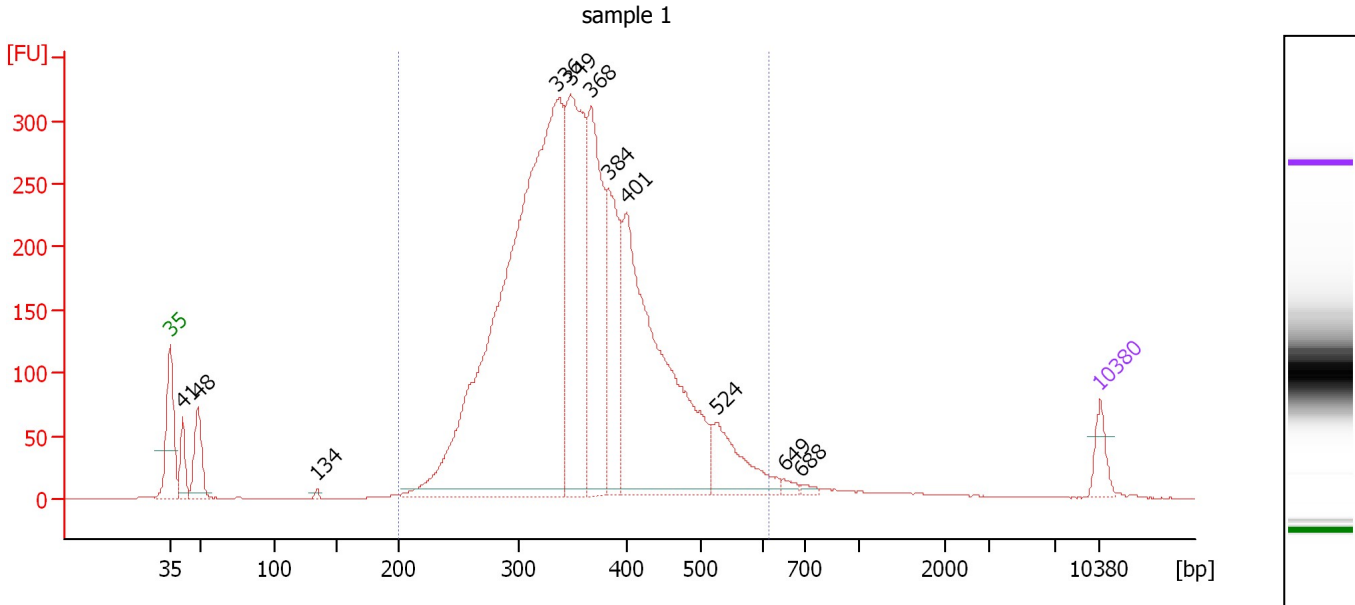
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.35	50	150.00	4,545.5	Ladder Peak
3	50.82	100	150.00	2,272.7	Ladder Peak
4	55.53	150	150.00	1,515.2	Ladder Peak
5	60.14	200	150.00	1,136.4	Ladder Peak
6	69.23	300	150.00	757.6	Ladder Peak
7	77.32	400	150.00	568.2	Ladder Peak
8	83.02	500	150.00	454.5	Ladder Peak
9	87.68	600	150.00	378.8	Ladder Peak
10	90.84	700	150.00	324.7	Ladder Peak
11	94.82	1,000	150.00	227.3	Ladder Peak
12	101.33	2,000	150.00	113.6	Ladder Peak
13	104.59	3,000	150.00	75.8	Ladder Peak
14	109.65	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 11 Corr. Area 1: 5,485.9
 Noise: 0.2

Peak table for sample 1 : sample 1

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	43.94	41	166.27	6,141.0	
3	45.11	48	273.04	8,533.6	
4	54.06	134	13.53	152.5	
5	72.13	336	4,146.96	18,706.0	
6	73.17	349	1,308.62	5,686.6	
7	74.70	368	944.12	3,891.9	
8	76.00	384	619.65	2,447.1	
9	77.39	401	1,740.99	6,574.1	
10	84.14	524	314.02	908.0	
11	89.22	649	24.86	58.1	
12	90.48	688	18.06	39.8	
13	113.00	10,380	75.00	10.9	Upper Marker

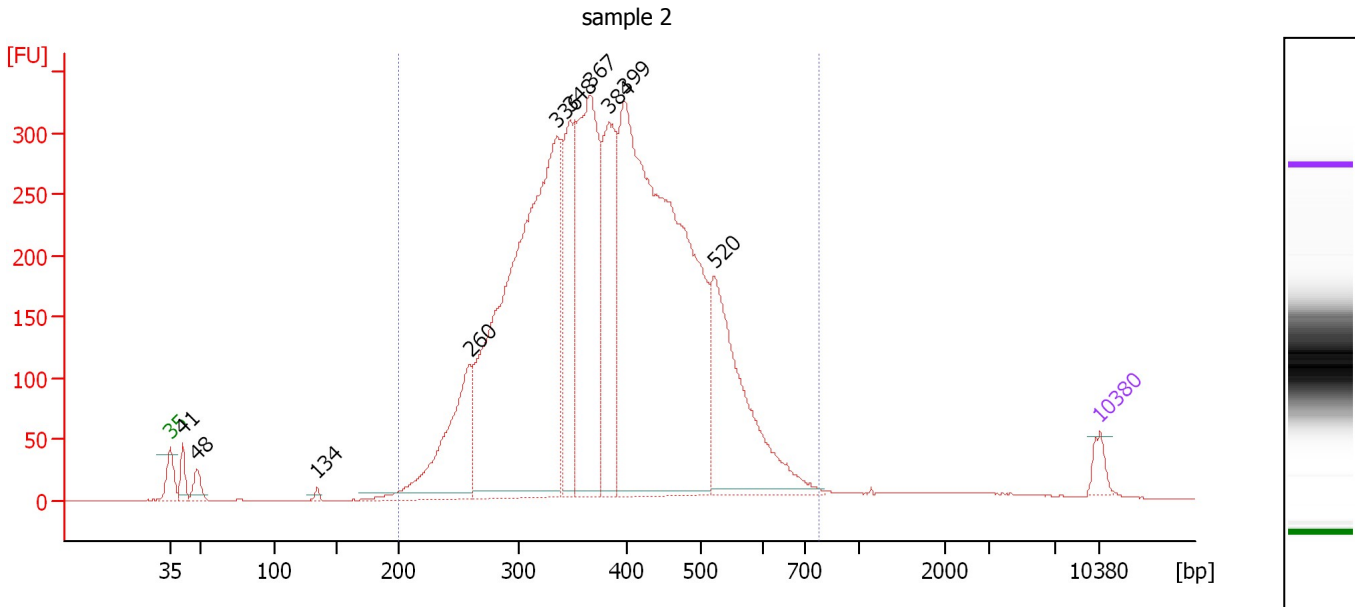
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	615	363	41,597.6	9,469.27	5,485.9	94	19.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_001.xad

Created: 4/7/2014 3:31:07 PM
 Modified: 4/7/2014 3:57:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 10 Corr. Area 1: 7,214.9
 Noise: 0.3

Peak table for sample 2 : sample 2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	43.95	41	153.12	5,652.8	
3	45.03	48	130.94	4,137.6	
4	54.05	134	26.98	304.4	
5	65.55	260	1,075.31	6,277.0	
6	72.14	336	4,663.42	21,032.8	
7	73.13	348	961.98	4,185.9	
8	74.62	367	2,037.14	8,419.7	
9	76.06	384	1,130.24	4,454.7	
10	77.23	399	5,056.48	19,205.8	
11	83.95	520	1,424.33	4,149.7	
12	113.00	10,380	75.00	10.9	Upper Marker

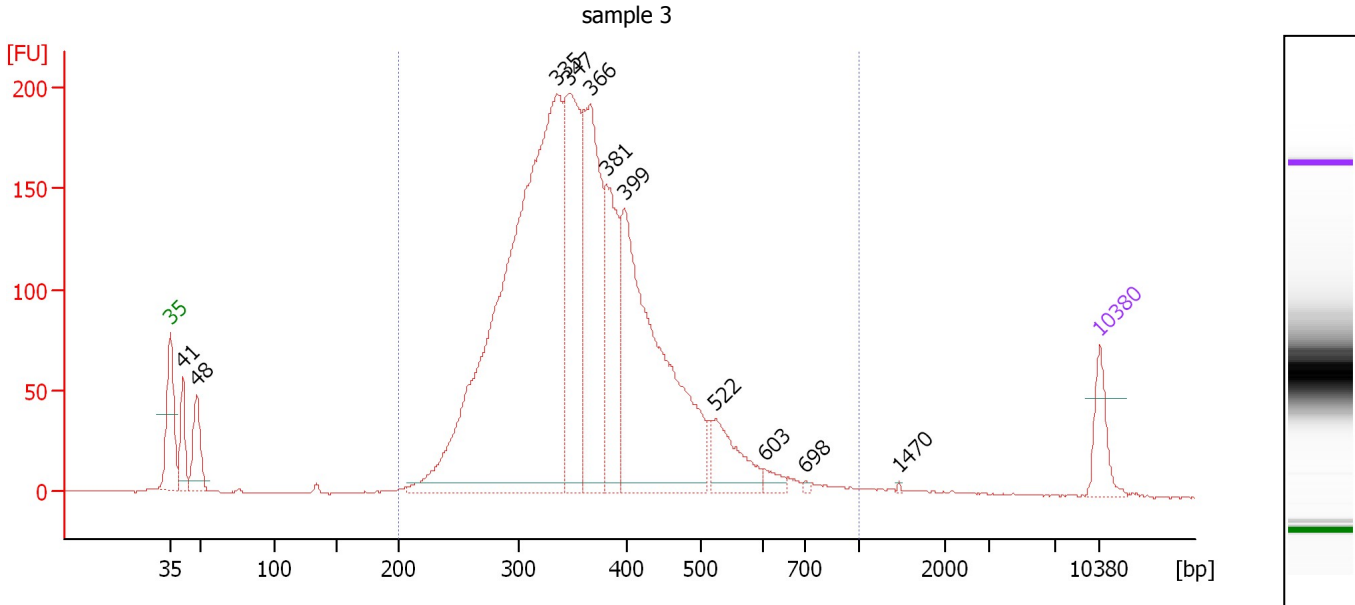
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
200	770	392	69,690.2	16,713.35	7,214.9	97	23.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 11 Corr. Area 1: 3,416.4
 Noise: 0.4

Peak table for sample 3 : sample 3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	43.96	41	134.42	4,951.1	
3	45.02	48	165.34	5,234.4	
4	72.09	335	2,401.11	10,847.9	
5	73.05	347	637.69	2,782.4	
6	74.61	366	642.70	2,657.0	
7	75.80	381	355.83	1,414.3	
8	77.22	399	1,010.91	3,841.1	
9	84.05	522	158.30	459.4	
10	87.76	603	27.47	69.1	
11	90.78	698	5.55	12.0	
12	97.88	1,470	1.74	1.8	
13	113.00	10,380	75.00	10.9	Upper Marker

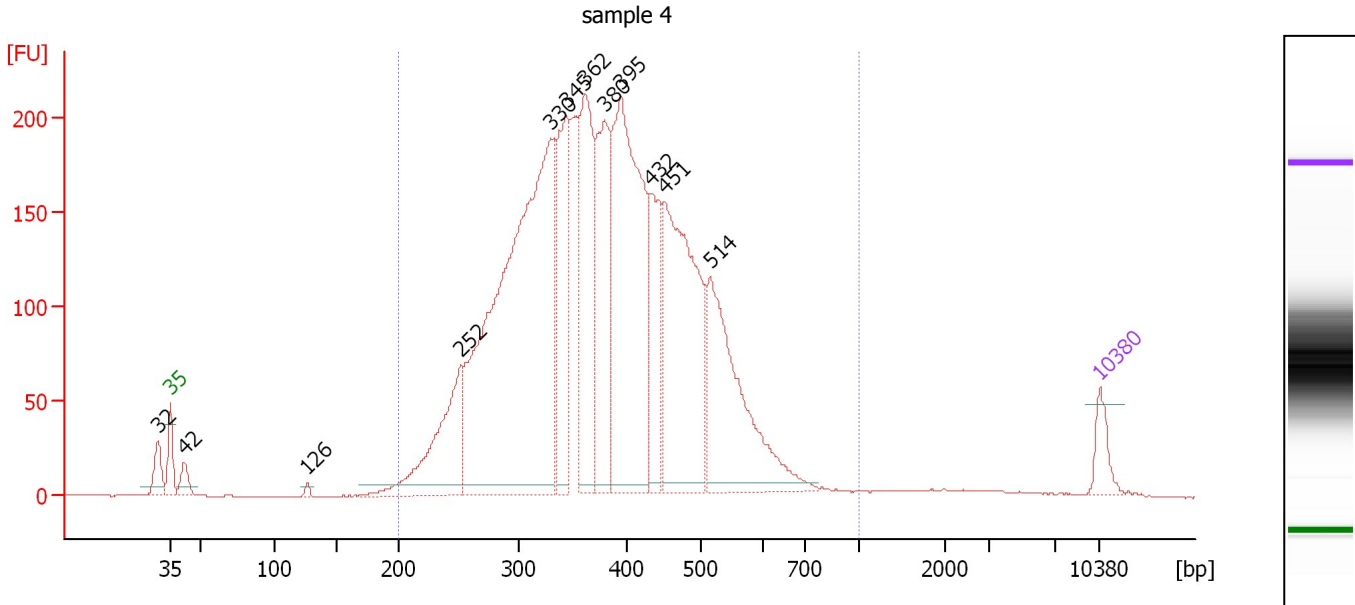
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	369	24,105.9	5,522.35	3,416.4	95	23.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 12 Corr. Area 1: 4,586.1
 Noise: 0.2

Peak table for sample 4 : sample 4

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	42.05	32	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	44.04	42	86.00	3,129.5	
4	53.31	126	15.65	187.6	
5	64.90	252	576.70	3,462.2	
6	71.66	330	2,702.15	12,403.5	
7	72.84	345	605.77	2,662.8	
8	74.22	362	768.15	3,218.3	
9	75.73	380	604.38	2,407.7	
10	76.91	395	1,415.09	5,428.8	
11	79.14	432	361.46	1,268.3	
12	80.22	451	1,101.73	3,702.0	
13	83.68	514	820.91	2,419.4	
14	113.00	10,380	75.00	10.9	Upper Marker

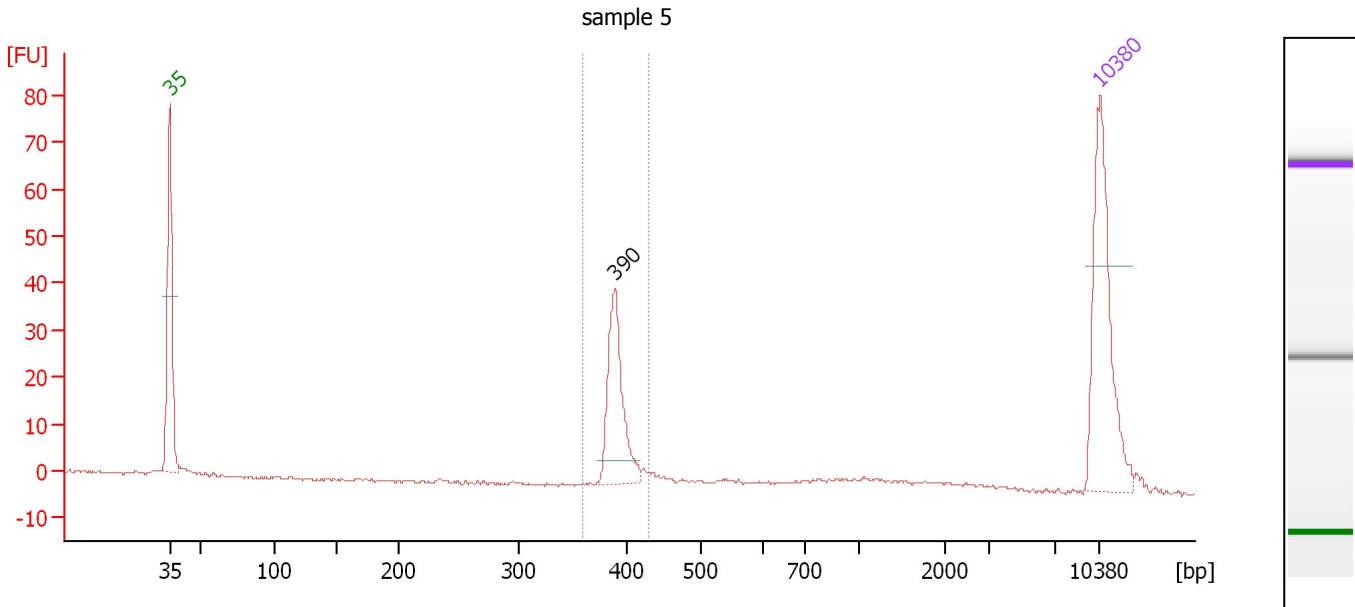
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	388	40,920.2	9,682.50	4,586.1	97	24.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_001.xad

Created: 4/7/2014 3:31:07 PM
 Modified: 4/7/2014 3:57:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 1 Corr. Area 1: 72.5
 Noise: 0.3

Peak table for sample 5 : sample 5

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	76.52	390	69.03	268.1	
3	113.00	10,380	75.00	10.9	Upper Marker

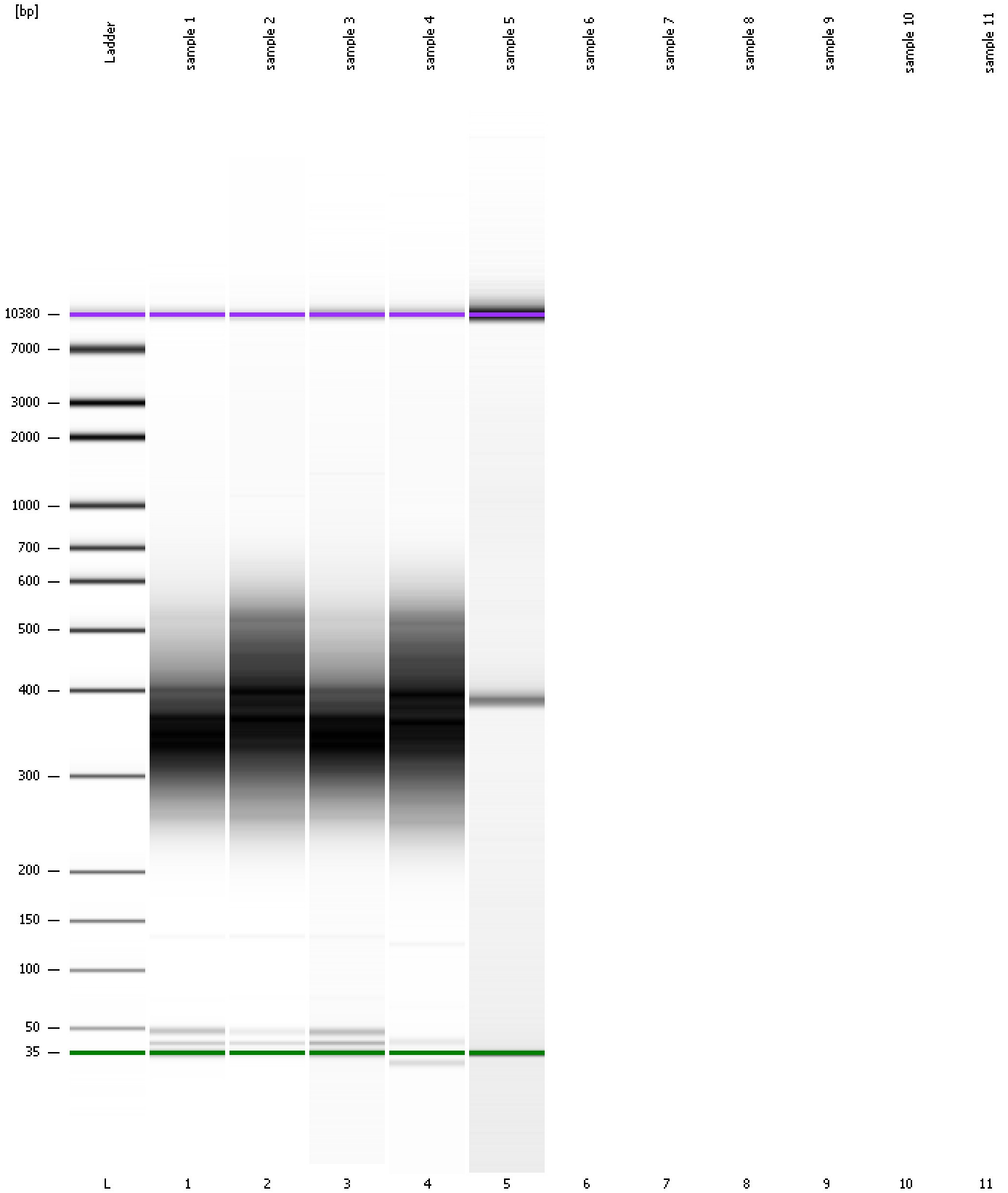
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
360	431	393	274.3	71.02	72.5	55	2.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_001.xad

Created: 4/7/2014 3:31:07 PM
Modified: 4/7/2014 3:57:35 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_001.xad

Created: 4/7/2014 3:31:07 PM
Modified: 4/7/2014 3:57:35 PM

Invalid Samples

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 Created: 4/7/2014 3:31:07 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-07\2014-04-07_001.xad Modified: 4/7/2014 3:57:35 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 6)		Instrument	Run		4/7/2014 3:55:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-07\2014-04-07_001.xad)		Instrument	Run		4/7/2014 3:31:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/7/2014 3:31:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/7/2014 3:31:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/7/2014 3:31:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/7/2014 3:31:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/7/2014 3:31:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/7/2014 3:31:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1