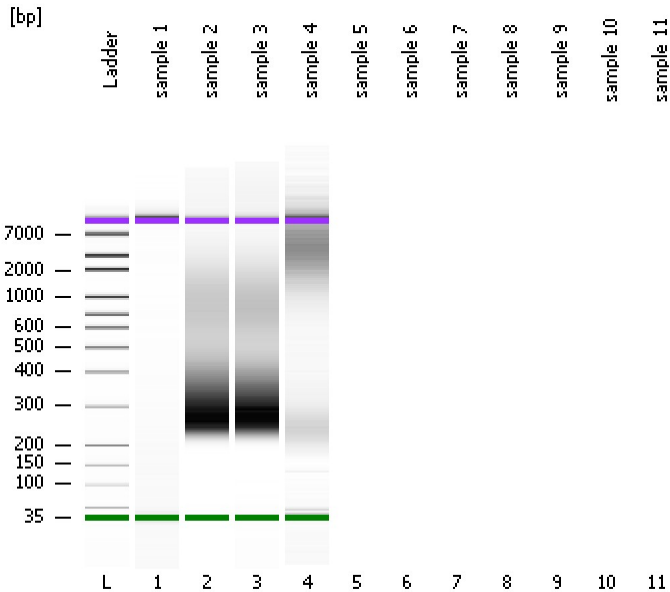


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
Modified: 8/12/2014 12:28:00 PM

Electrophoresis File Run Summary



Instrument Information:

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

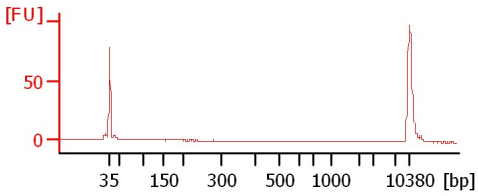
Assay Information:

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

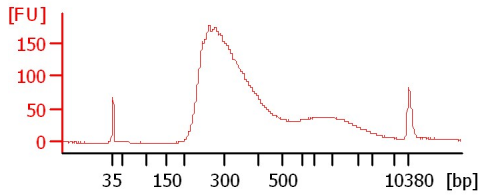
Chip Information:

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

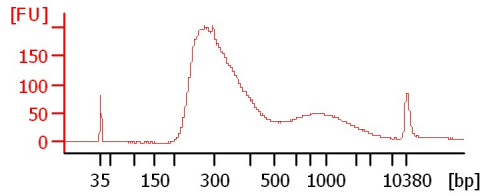
sample 1



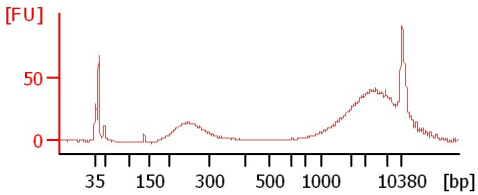
sample 2



sample 3



sample 4



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
 Modified: 8/12/2014 12:28:00 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:\... bioanalyzer\2100 expert\Data\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
Modified: 8/12/2014 12:28:00 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

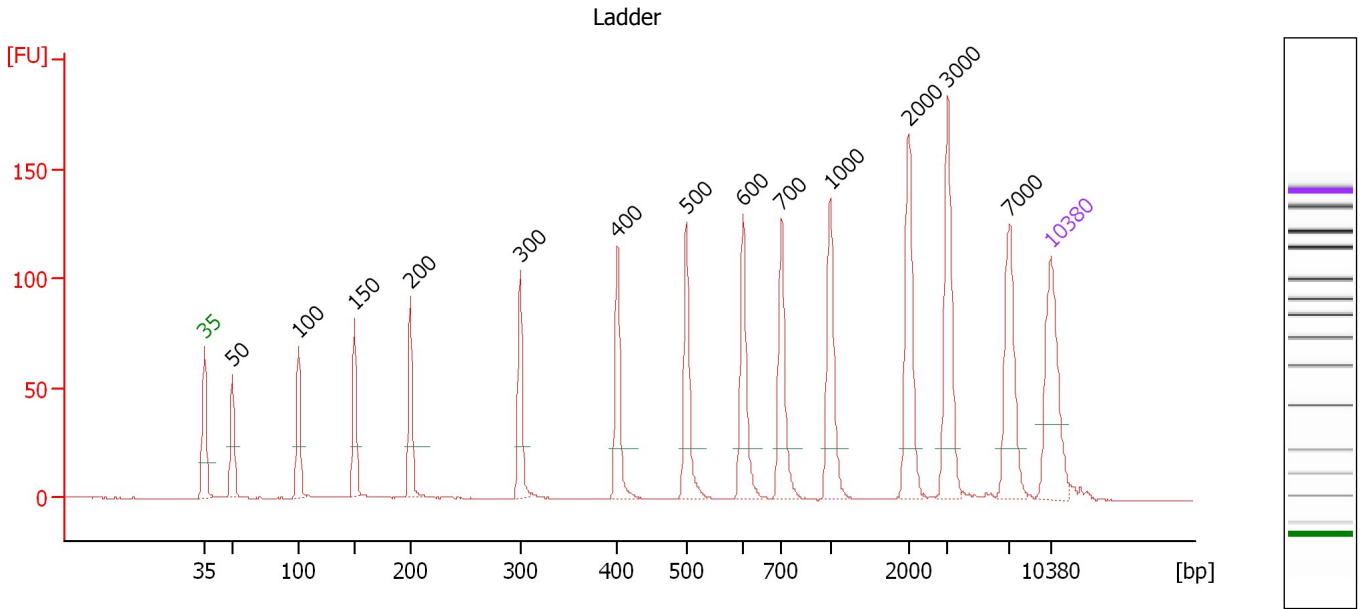
Ladder

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\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
 Modified: 8/12/2014 12:28:00 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

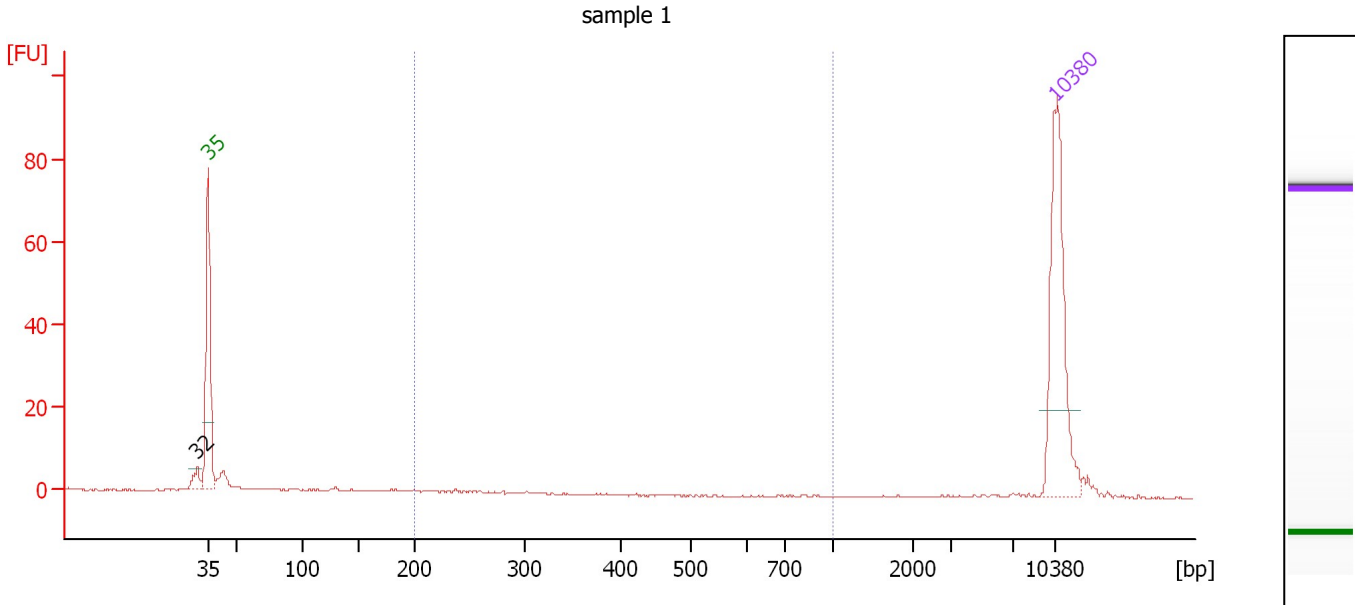
Peak table for Ladder

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:\... bioanalyzer\2100 expert\Data\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
 Modified: 8/12/2014 12:28:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 1 Corr. Area 1: 3.4
 Noise: 0.1

Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	10,380	75.00	10.9	Upper Marker

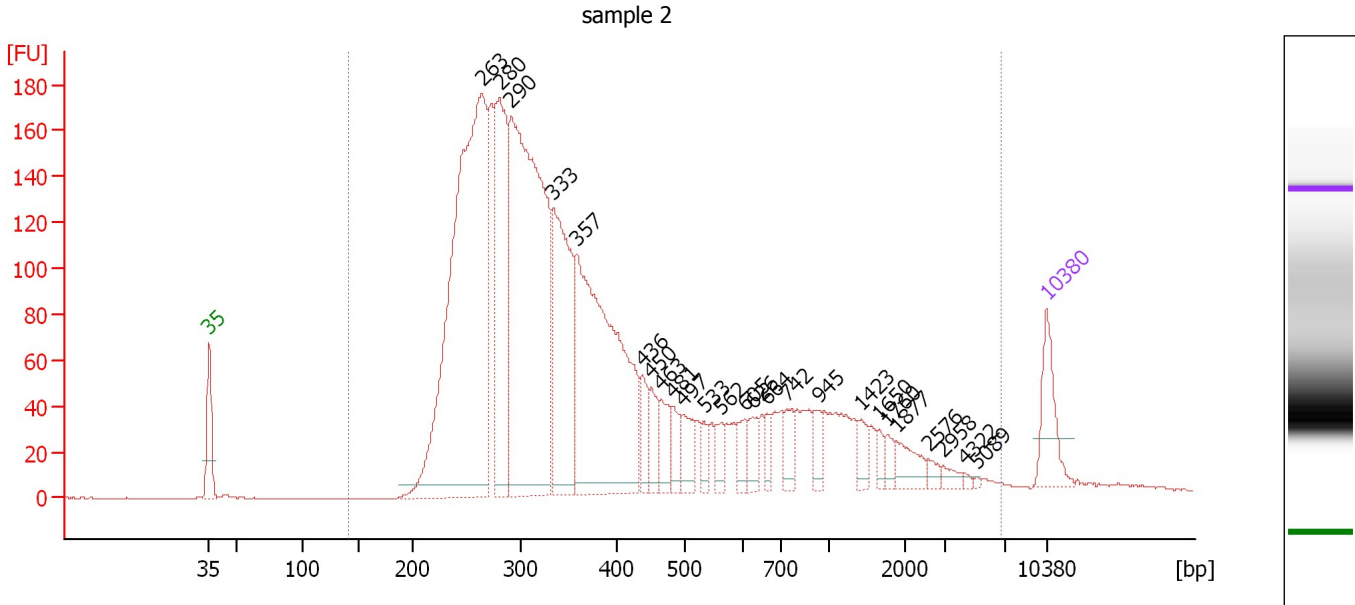
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	268	23.3	3.78	3.4	8	44.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
 Modified: 8/12/2014 12:28:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 25 Corr. Area 1: 3,993.0
 Noise: 0.1

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	263	1,378.94	7,933.1	
3	280	452.75	2,449.5	
4	290	1,134.89	5,922.2	
5	333	419.81	1,910.4	
6	357	768.42	3,257.6	
7	436	60.28	209.3	
8	450	56.18	189.3	
9	463	58.48	191.4	
10	481	47.51	149.7	
11	497	56.69	173.0	
12	533	25.87	73.6	
13	562	31.76	85.6	
14	605	36.79	92.1	
15	626	40.20	97.2	
16	664	26.10	59.5	
17	742	41.19	84.1	
18	945	32.58	52.2	
19	1,423	27.34	29.1	
20	1,650	15.63	14.4	
21	1,760	16.81	14.5	
22	1,877	41.90	33.8	
23	2,576	13.23	7.8	
24	2,958	13.01	6.7	
25	4,322	4.32	1.5	
26	5,089	2.23	0.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
Modified: 8/12/2014 12:28:00 PM

Electropherogram Summary Continued ...**... Peak table for sample 2 : sample 2**

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

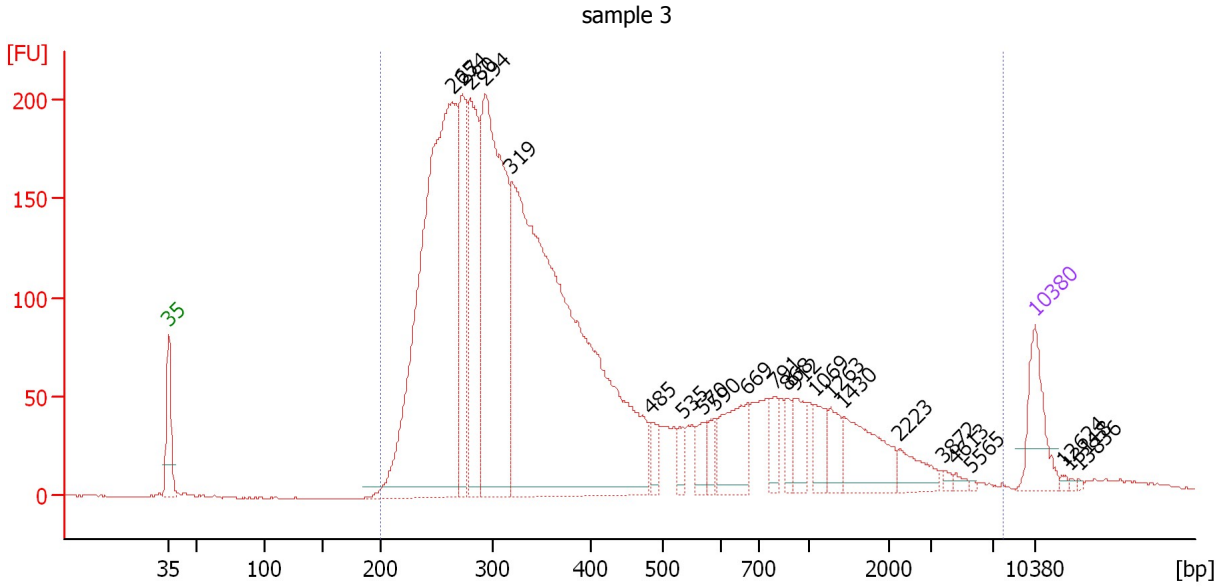
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
142	6,710	529	24,359.5	5,351.83	3,993.0	99	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
 Modified: 8/12/2014 12:28:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 23 Corr. Area 1: 4,558.4
 Noise: 0.3

Peak table for sample 3 : sample 3


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	1,230.93	7,043.6	
3	274	256.56	1,420.2	
4	280	339.39	1,835.4	
5	294	740.23	3,820.3	
6	319	1,580.43	7,503.4	
7	485	33.83	105.7	
8	535	24.64	69.7	
9	570	37.04	98.5	
10	590	26.95	69.2	
11	669	112.45	254.8	
12	791	34.93	66.9	
13	868	26.75	46.7	
14	912	49.27	81.9	
15	1,069	44.66	63.3	
16	1,263	40.00	48.0	
17	1,430	109.49	116.0	
18	2,223	39.80	27.1	
19	3,872	5.44	2.1	
20	4,613	6.23	2.0	
21	5,565	2.11	0.6	
22	10,380	75.00	10.9	Upper Marker
23	12,624	0.00	0.0	
24	13,118	0.00	0.0	
25	13,836	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
Modified: 8/12/2014 12:28:00 PM

Electropherogram Summary Continued ...

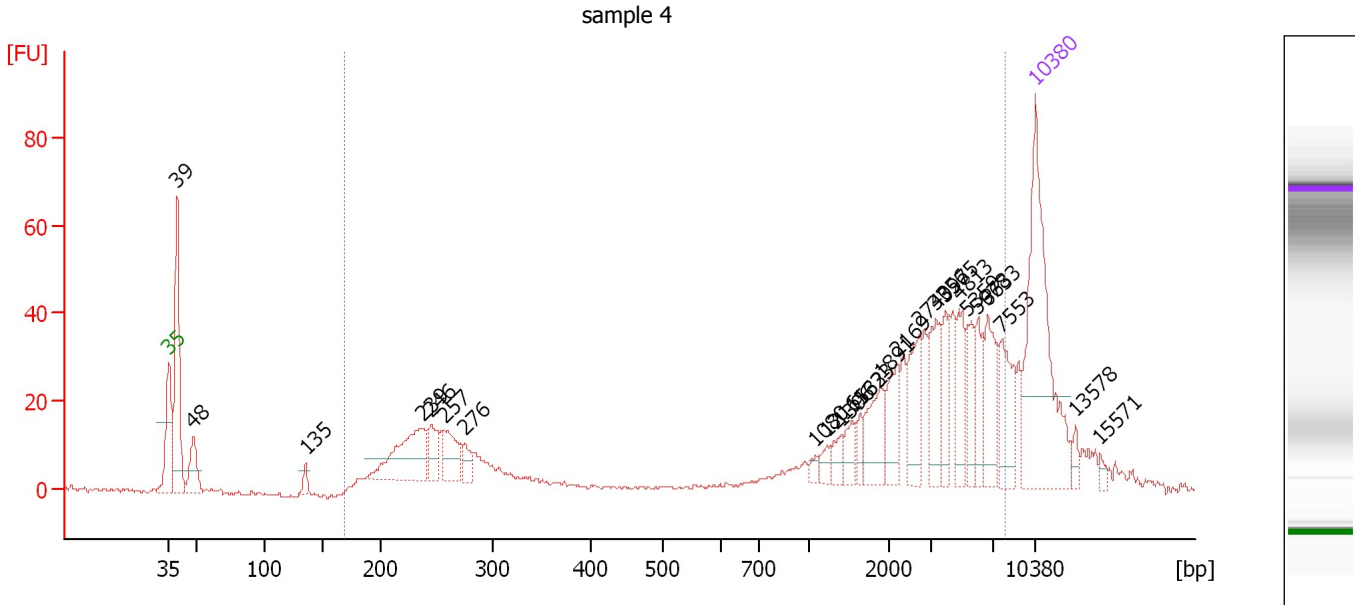
... Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	7,755	538	21,698.5	4,785.59	 4,558.4	99	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
 Modified: 8/12/2014 12:28:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 24 Corr. Area 1: 647.8
 Noise: 0.4

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	39	81.39	3,140.6	
3	48	22.81	723.0	
4	135	4.92	55.1	
5	239	47.84	303.7	
6	246	15.18	93.6	
7	257	22.64	133.4	
8	276	8.23	45.3	
9	1,080	3.13	4.4	
10	1,216	4.38	5.5	
11	1,396	6.16	6.7	
12	1,532	7.38	7.3	
13	1,633	5.46	5.1	
14	1,891	18.98	15.2	
15	2,169	16.20	11.3	
16	2,740	19.28	10.7	
17	3,356	21.06	9.5	
18	3,975	12.56	4.8	
19	4,813	16.43	5.2	
20	5,359	13.84	3.9	
21	5,978	12.60	3.2	
22	6,633	21.07	4.8	
23	7,553	20.70	4.2	
24	10,380	75.00	10.9	Upper Marker
25	13,578	0.00	0.0	
26	15,571	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
Modified: 8/12/2014 12:28:00 PM

Electropherogram Summary Continued ...

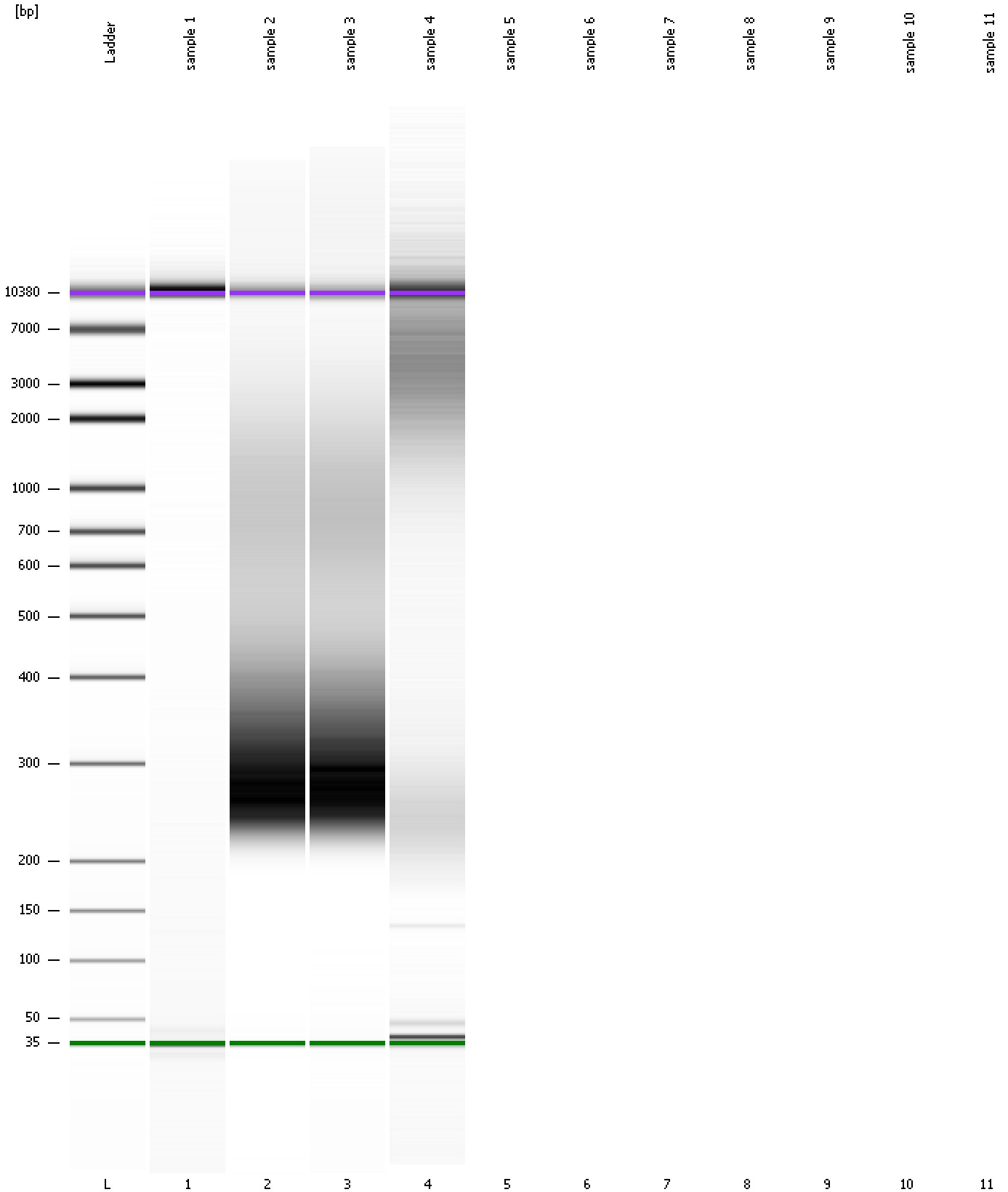
... Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
170	8,020	2,928	1,192.6	432.14	 647.8	80	77.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
Modified: 8/12/2014 12:28:00 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
Modified: 8/12/2014 12:28:00 PM

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:\... bioanalyzer\2100 expert\Data\2014-08-12\2014-08-12_002.xad

Created: 8/12/2014 12:04:07 PM
 Modified: 8/12/2014 12:28:00 PM

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		8/12/2014 12:25:28 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\2014-08-12\2014-08-12_002.xad)		Instrument	Run		8/12/2014 12:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/12/2014 12:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/12/2014 12:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/12/2014 12:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/12/2014 12:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/12/2014 12:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/12/2014 12:04:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1