

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-07\2014-08-07_001.xad

Created: 8/7/2014 10:06:11 AM
Modified: 8/7/2014 10:36:40 AM

Electrophoresis File Run Summary

Instrument Information:

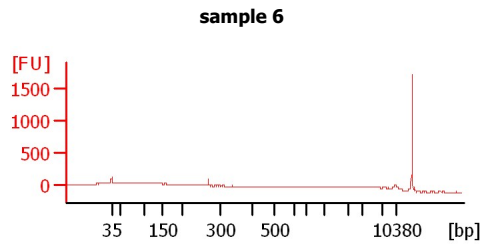
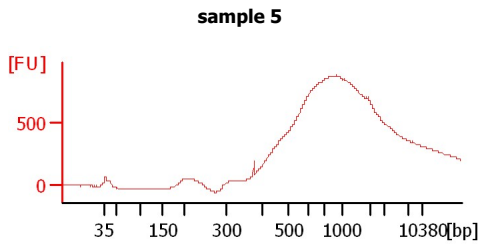
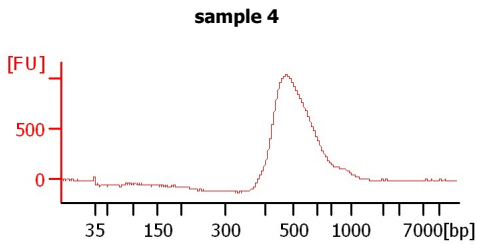
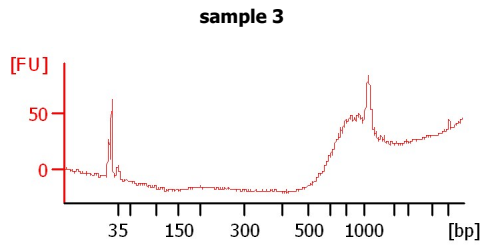
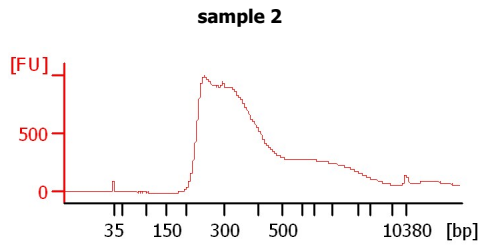
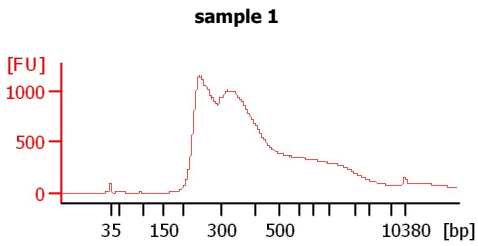
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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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 :

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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

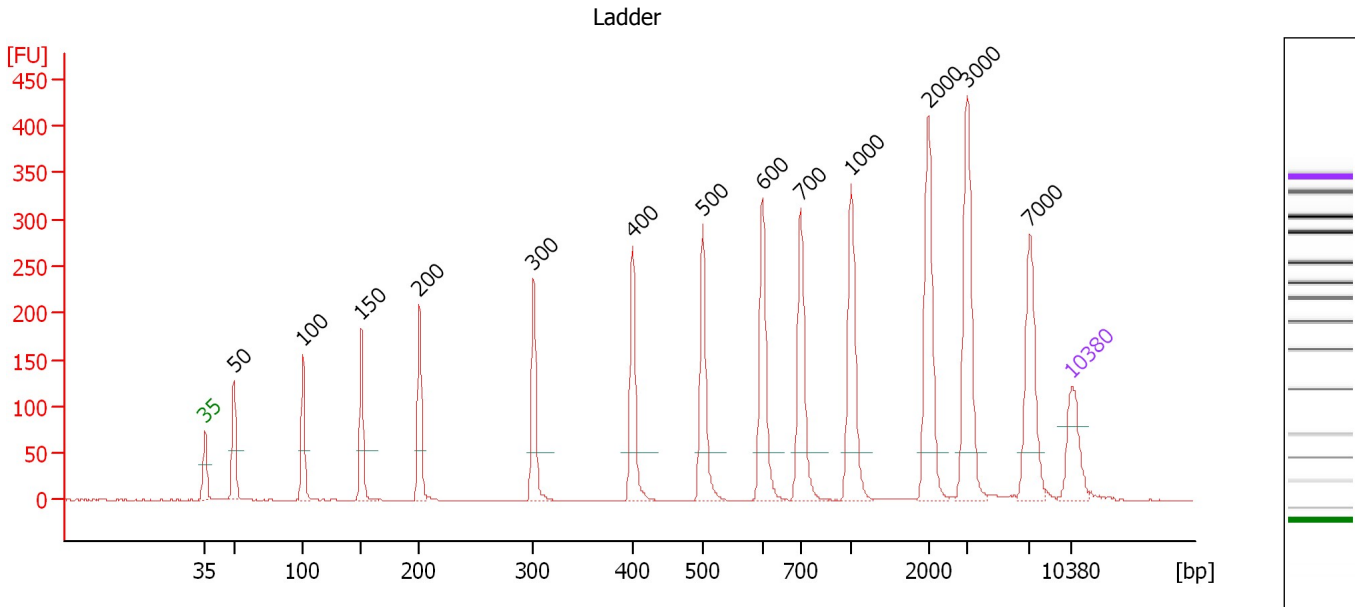
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

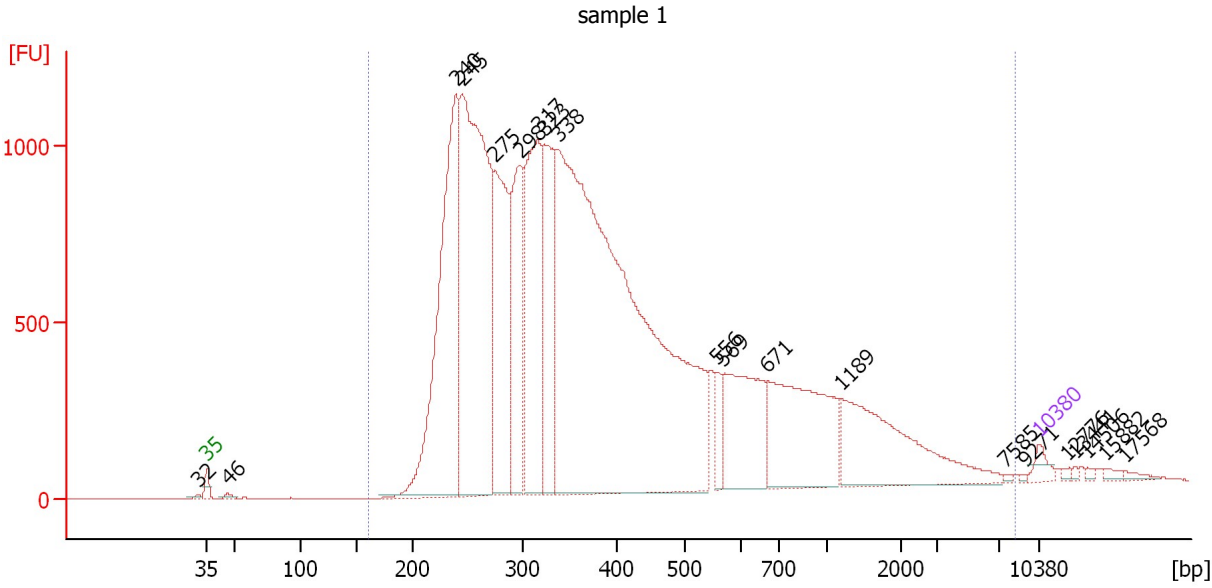
Peak table for Ladder

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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 20 Corr. Area 1: 30,862.5
 Noise: 0.2

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	46	38.65	1,266.6	
4	240	3,480.96	21,985.0	
5	245	4,677.36	28,899.0	
6	275	1,800.09	9,908.0	
7	298	1,450.78	7,375.1	
8	317	1,951.93	9,338.1	
9	323	1,428.67	6,704.9	
10	338	9,691.07	43,455.4	
11	556	178.12	485.5	
12	569	1,054.31	2,808.6	
13	671	1,492.95	3,371.3	
14	1,189	1,193.83	1,521.4	
15	7,585	11.71	2.3	
16	9,271	7.97	1.3	
17	10,380	75.00	10.9	Upper Marker
18	12,776	0.00	0.0	
19	13,441	0.00	0.0	
20	14,506	0.00	0.0	
21	15,882	0.00	0.0	
22	17,568	0.00	0.0	

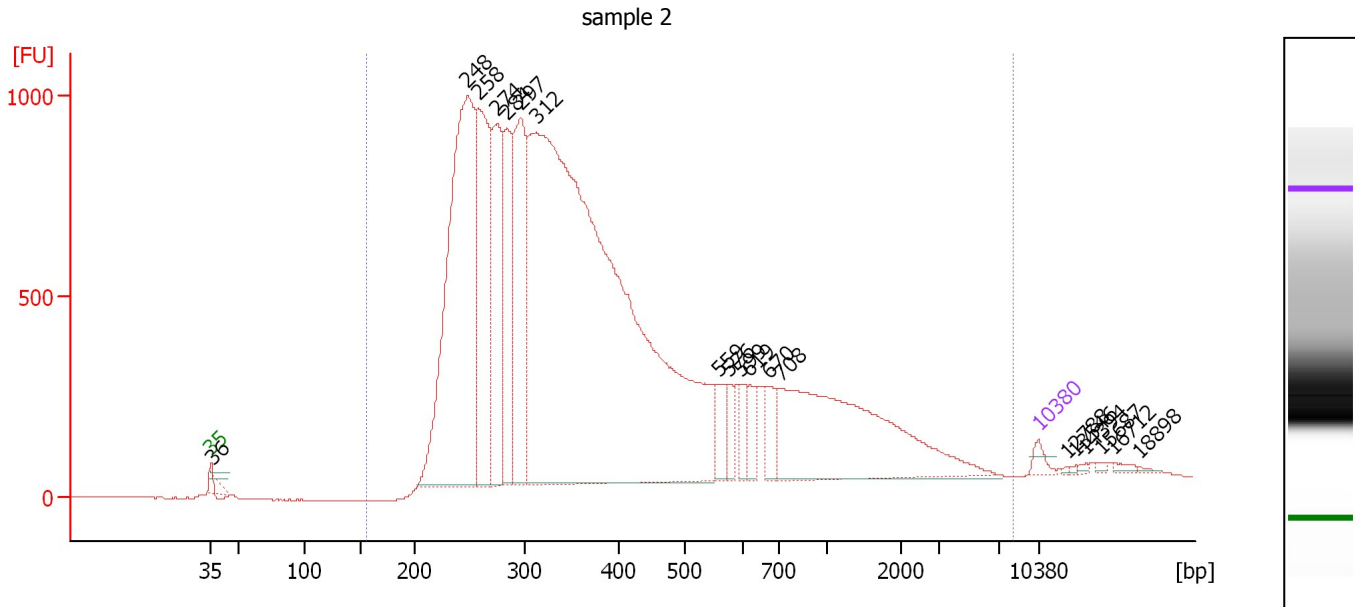
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
160	8,365	541	120,086.0	26,822.92	30,862.5	99	100.0

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Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 19 Corr. Area 1: 26,114.8
 Noise: 1.2

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	36	23.66	999.5	
3	248	6,008.72	36,727.0	
4	258	2,668.48	15,693.8	
5	274	1,802.97	9,980.8	
6	284	1,488.45	7,929.3	
7	297	2,269.95	11,596.1	
8	312	16,133.32	78,264.5	
9	559	275.40	747.1	
10	576	239.79	630.6	
11	599	216.65	548.4	
12	619	241.58	590.9	
13	670	317.94	718.9	
14	708	3,061.71	6,555.0	
15	10,380	75.00	10.9	Upper Marker
16	12,788	0.00	0.0	
17	13,546	0.00	0.0	
18	14,394	0.00	0.0	
19	15,687	0.00	0.0	
20	16,712	0.00	0.0	
21	18,898	0.00	0.0	

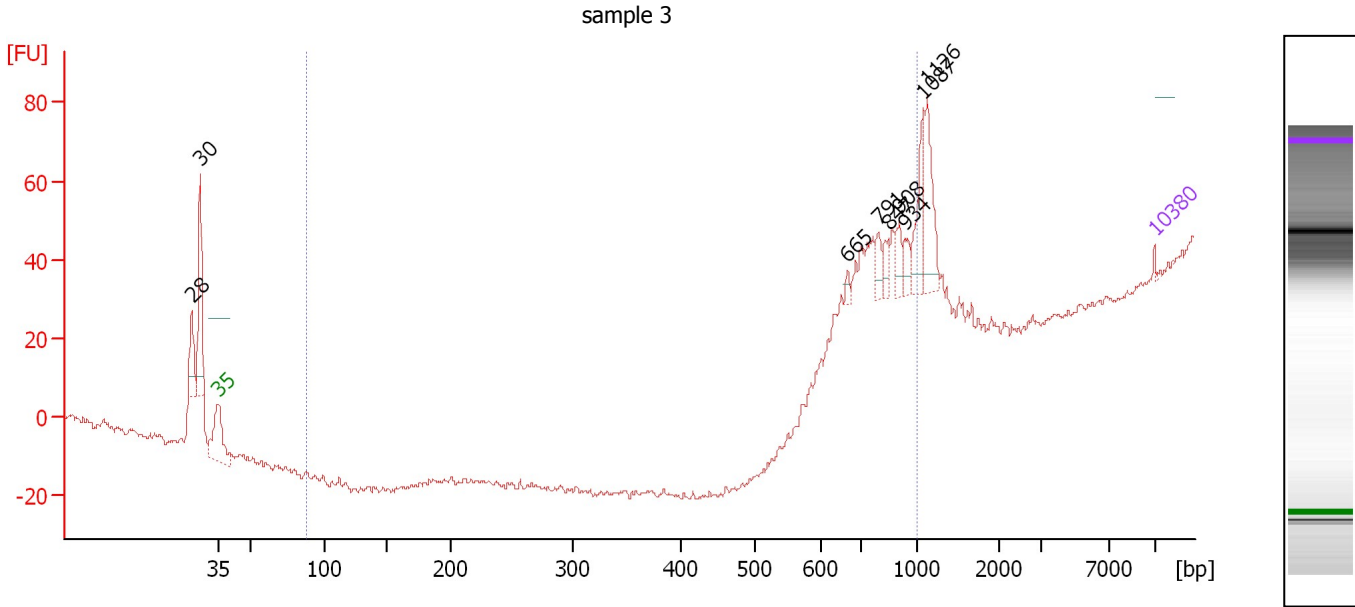
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
156	8,318	530	149,663.4	33,255.84	26,114.8	99	100.0

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 9 Corr. Area 1: 75.5
 Noise: 1.0

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	28	0.00	0.0	
2	30	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	665	197.39	449.5	
5	791	505.65	968.6	
6	847	423.42	757.8	
7	908	514.32	858.2	
8	934	445.81	722.9	
9	1,087	1,282.23	1,786.5	
10	1,126	1,887.53	2,539.6	
11	10,380	75.00	10.9	Upper Marker

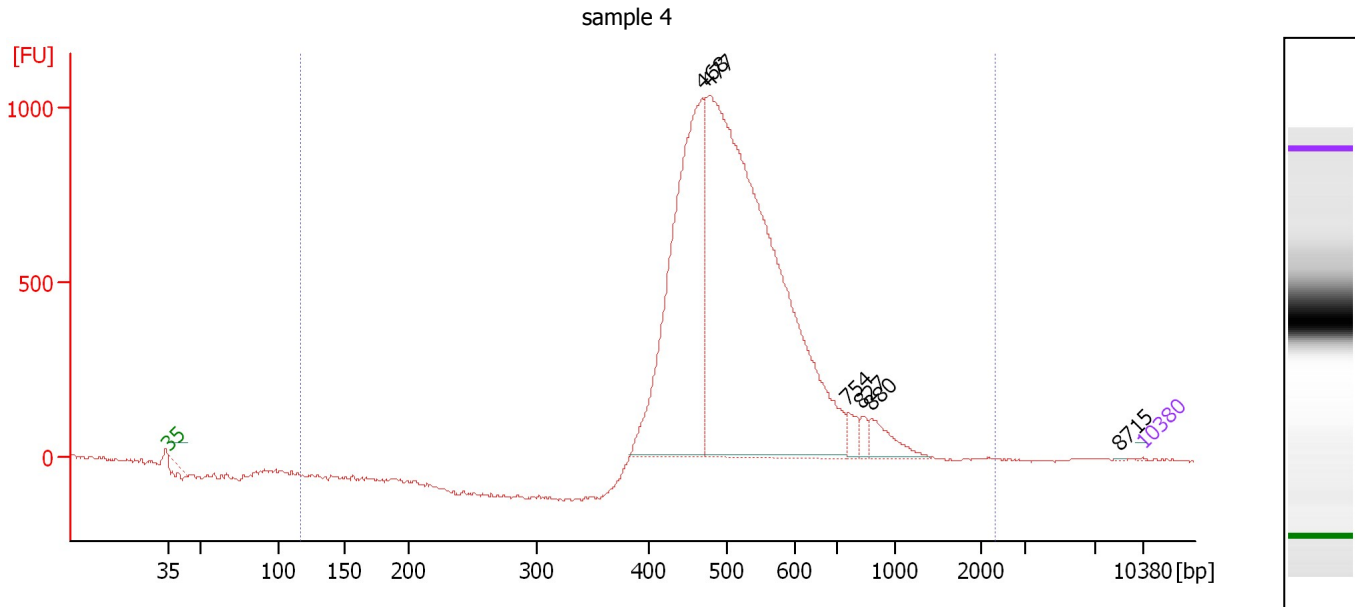
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
88	1,000	826	7,108.1	3,842.14	75.5	36	11.9

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 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-07\2014-08-07_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 7 Corr. Area 1: 12,933.3
 Noise: 3.0

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	468	111,644.60	361,064.0	
4	477	231,699.16	735,543.2	
5	754	3,740.25	7,515.0	
6	827	2,276.70	4,172.5	
7	880	6,843.68	11,785.7	
8	8,715	64.62	11.2	
9	10,380	75.00	10.9	Upper Marker

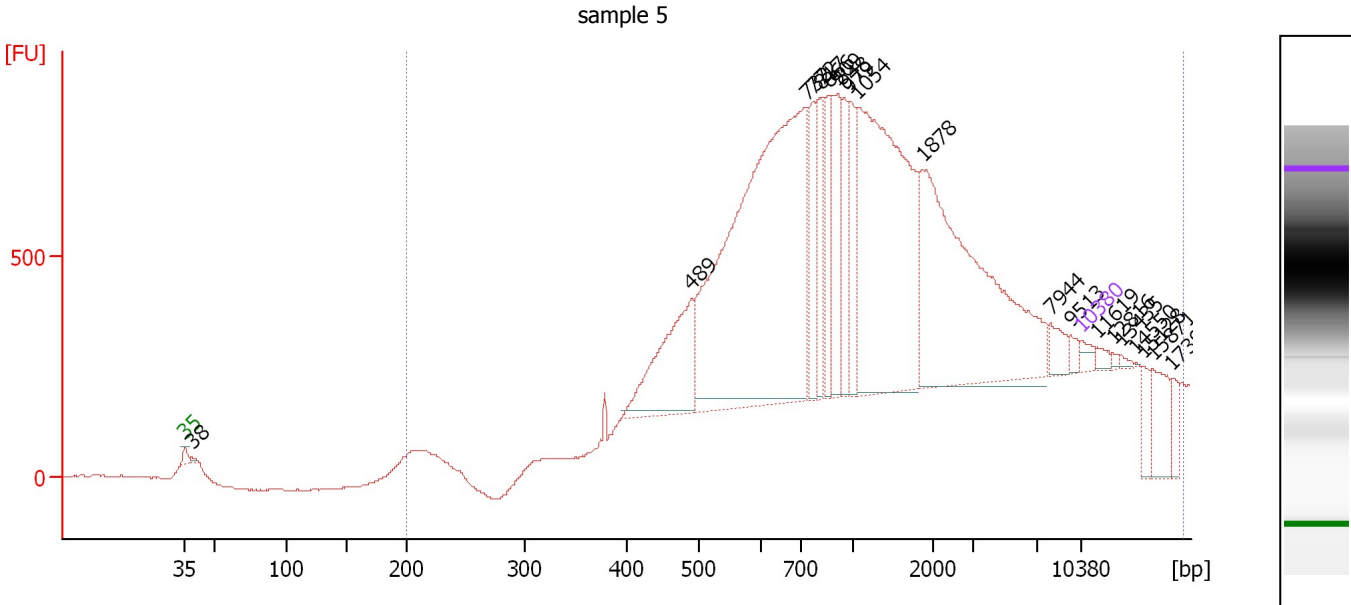
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
117	2,338	534	1,035,731.5	348,313.13	12,933.3	99	25.0

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 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-07\2014-08-07_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 20 Corr. Area 1: 17,363.9
 Noise: 2.0

Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	38	35.20	1,385.8	
3	489	1,458.02	4,517.1	
4	732	6,713.51	13,898.0	
5	772	549.52	1,079.2	
6	817	540.71	1,002.5	
7	866	527.88	923.6	
8	909	792.35	1,321.2	
9	948	495.45	791.6	
10	979	552.25	854.9	
11	1,054	3,727.52	5,359.6	
12	1,878	3,052.90	2,463.0	
13	7,944	159.60	30.4	
14	9,513	71.28	11.4	
15	10,380	75.00	10.9	Upper Marker
16	11,619	0.00	0.0	
17	12,816	0.00	0.0	
18	13,435	0.00	0.0	
19	14,550	0.00	0.0	
20	15,128	0.00	0.0	
21	15,871	0.00	0.0	
22	17,399	0.00	0.0	

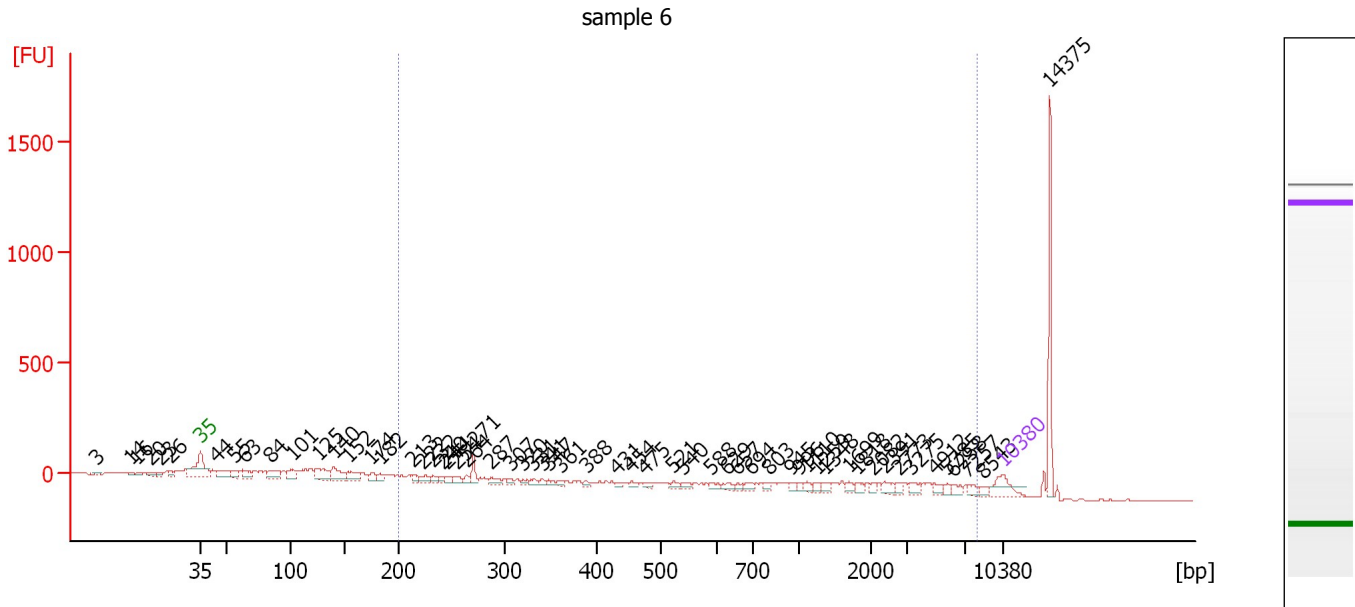
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
200	18,266	1,988	37,293.4	20,900.67	17,363.9	100	100.0

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Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 59 Corr. Area 1: 1,809.8
 Noise: 2.3

Peak table for sample 6 : sample 6


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	3	0.00	0.0	
2	14	0.00	0.0	
3	16	0.00	0.0	
4	20	0.00	0.0	
5	23	0.00	0.0	
6	26	0.00	0.0	
7	35	125.00	5,411.3	Lower Marker
8	44	89.71	3,093.3	
9	55	54.48	1,494.4	
10	63	52.52	1,253.4	
11	84	90.59	1,639.5	
12	101	71.40	1,068.3	
13	125	130.08	1,578.0	
14	140	110.98	1,204.0	
15	152	83.75	832.3	
16	174	42.44	369.3	
17	182	30.24	251.8	
18	213	27.27	193.7	
19	222	35.43	242.0	
20	232	23.90	155.8	
21	240	21.55	135.9	
22	244	23.91	148.2	
23	254	30.33	180.7	
24	264	23.85	137.0	
25	271	62.03	346.9	
26	287	35.55	187.7	

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Electropherogram Summary Continued ...

... Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	307	18.63	92.0	
28	320	17.77	84.1	
29	331	21.12	96.8	
30	341	15.42	68.5	
31	347	18.42	80.3	
32	361	16.16	67.8	
33	388	13.69	53.4	
34	431	11.65	41.0	
35	454	17.38	58.0	
36	475	17.39	55.5	
37	521	19.69	57.3	
38	540	21.99	61.7	
39	588	21.17	54.6	
40	629	22.18	53.4	
41	657	17.08	39.4	
42	694	23.39	51.0	
43	803	16.98	32.1	
44	945	16.70	26.8	
45	996	16.70	25.4	
46	1,110	20.87	28.5	
47	1,259	17.47	21.0	
48	1,348	19.59	22.0	
49	1,699	19.18	17.1	
50	1,818	20.83	17.4	
51	2,082	14.98	10.9	
52	2,391	30.10	19.1	
53	2,773	16.08	8.8	
54	3,275	24.53	11.3	
55	4,912	23.12	7.1	
56	5,785	14.18	3.7	
57	6,258	22.86	5.5	
58	7,257	23.36	4.9	
59	8,543	15.54	2.8	
60	 10,380	75.00	10.9	Upper Marker
61	14,375	0.00	0.0	

Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	8,066	1,783	3,719.4	1,189.06	 1,809.8	52	100.0

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Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-07\2014-08-07_001.xad

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Invalid Samples

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.

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Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		8/7/2014 10:33:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-08-07\2014-08-07_001.xad)		Instrument	Run		8/7/2014 10:06:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/7/2014 10:06:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/7/2014 10:06:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/7/2014 10:06:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/7/2014 10:06:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/7/2014 10:06:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/7/2014 10:06:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1