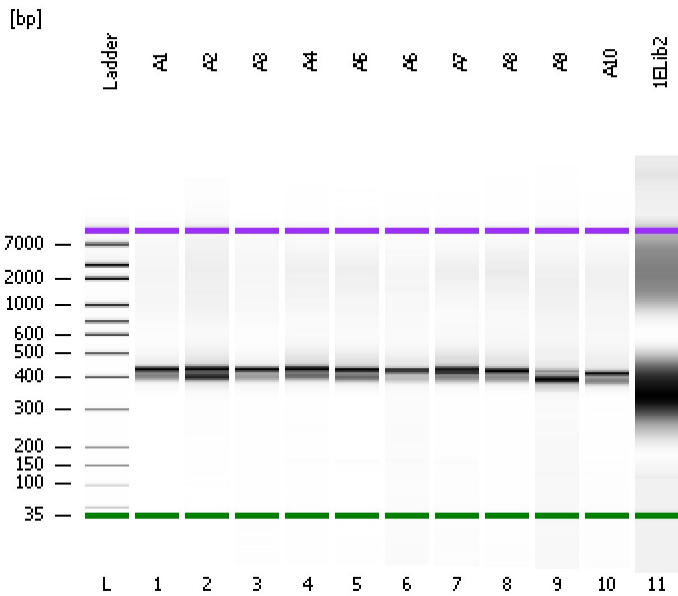


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
Modified: 6/19/2014 12:05:18 PM

Electrophoresis File Run Summary



Instrument Information:

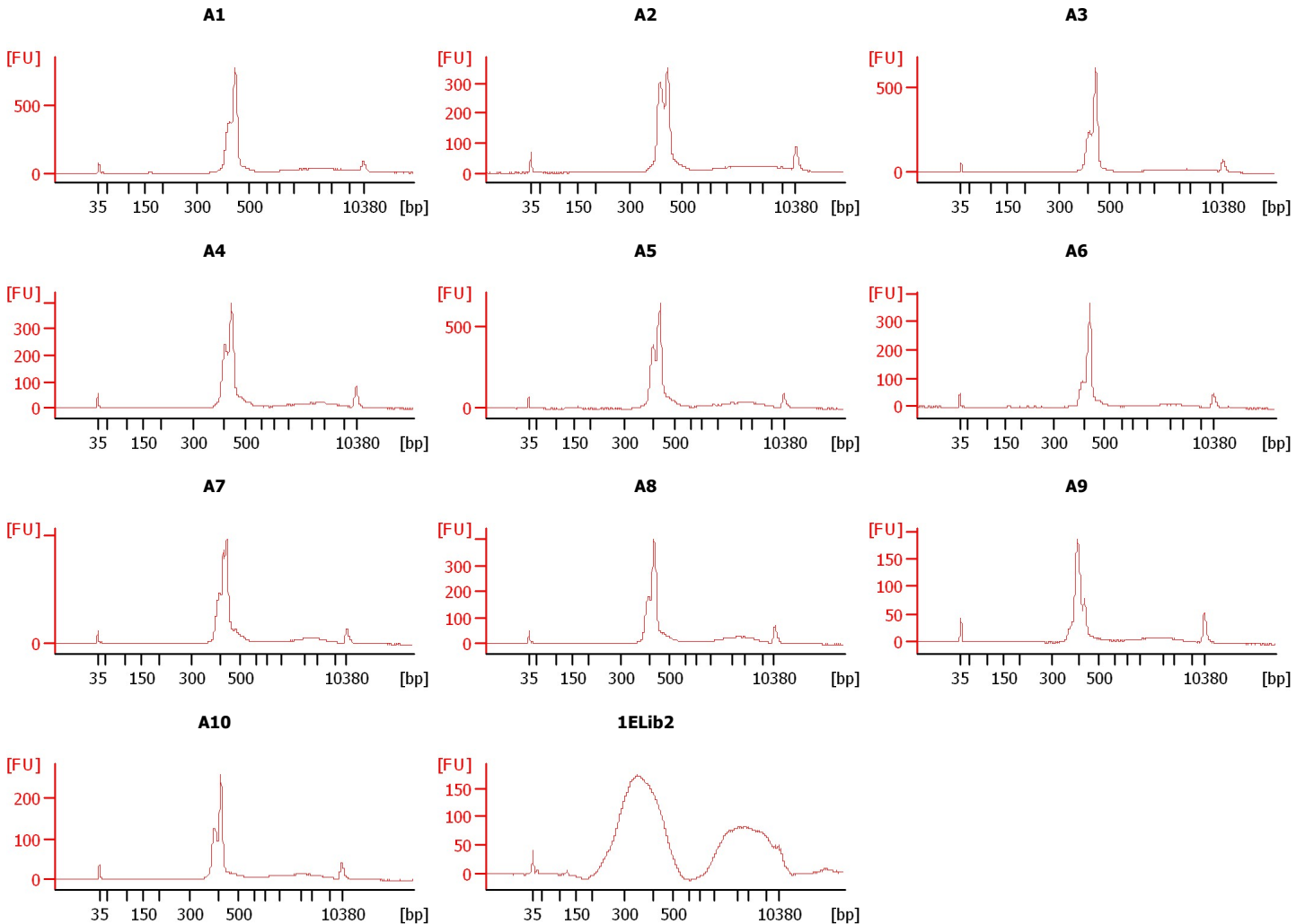
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
 Modified: 6/19/2014 12:05:18 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A1		<input type="checkbox"/>	✓			
A2		<input type="checkbox"/>	✓			
A3		<input type="checkbox"/>	✓			
A4		<input type="checkbox"/>	✓			
A5		<input type="checkbox"/>	✓			
A6		<input type="checkbox"/>	✓			
A7		<input type="checkbox"/>	✓			
A8		<input type="checkbox"/>	✓			
A9		<input type="checkbox"/>	✓			
A10		<input type="checkbox"/>	✓			
1ELib2		<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\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
 Modified: 6/19/2014 12:05:18 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

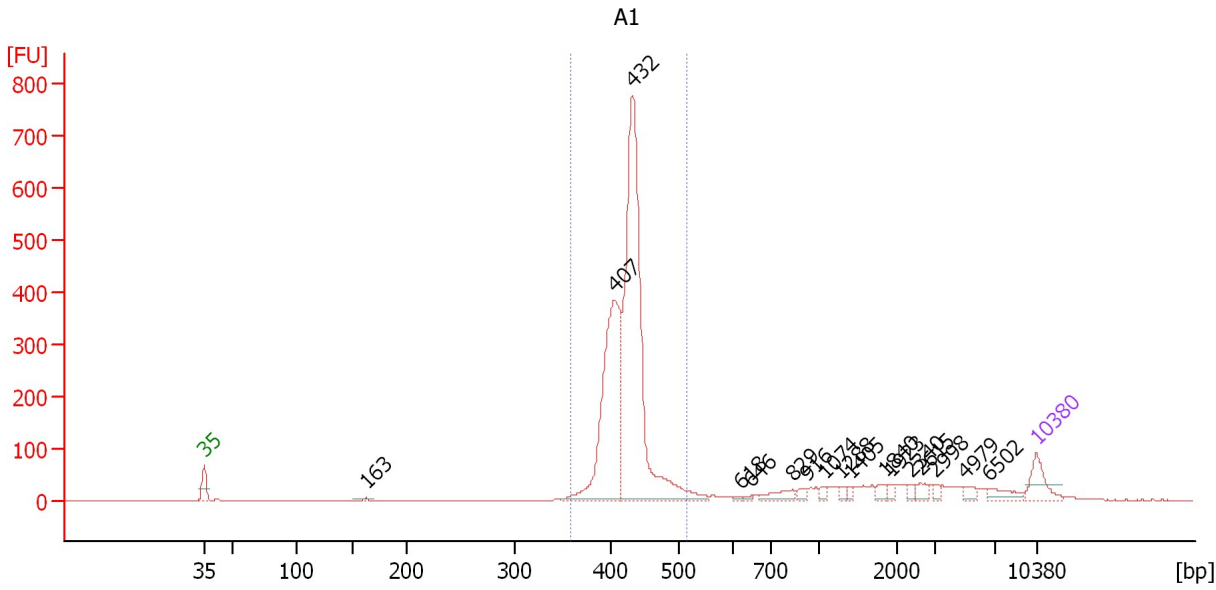
Ladder

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\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
 Modified: 6/19/2014 12:05:18 PM

Electropherogram Summary



Overall Results for sample 1 : A1

Number of peaks found: 17 Corr. Area 1: 2,429.3
 Noise: 0.2

Peak table for sample 1 : A1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	163	9.78	90.8	
3	407	877.26	3,268.3	
4	432	1,502.11	5,269.6	
5	618	6.50	15.9	
6	646	6.56	15.4	
7	829	45.39	83.0	
8	916	20.06	33.2	
9	1,074	14.60	20.6	
10	1,288	13.98	16.4	
11	1,405	12.78	13.8	
12	1,840	21.10	17.4	
13	1,923	13.58	10.7	
14	2,340	14.45	9.4	
15	2,615	23.80	13.8	
16	2,998	13.87	7.0	
17	4,979	22.38	6.8	
18	6,502	38.81	9.0	
19	10,380	75.00	10.9	Upper Marker

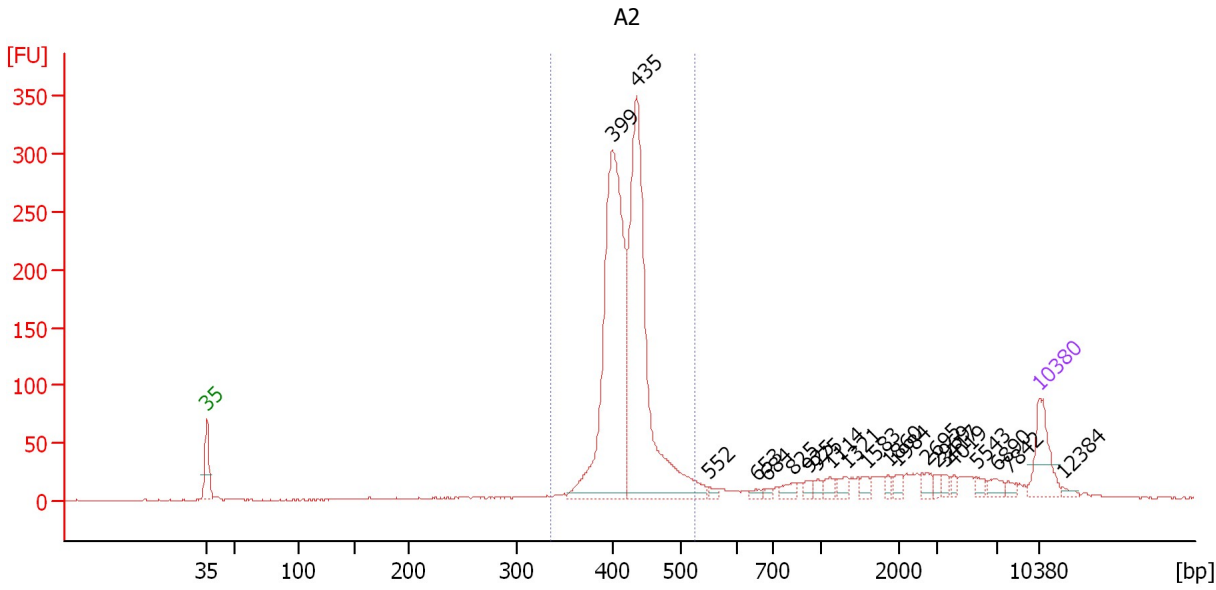
Region table for sample 1 : A1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
358	516	424	8,392.7	2,341.63	2,429.3	79	5.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

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 Modified: 6/19/2014 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : A2

Number of peaks found: 21 Corr. Area 1: 1,582.2
 Noise: 0.6


Peak table for sample 2 : A2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	399	794.02	3,011.9	
3	435	754.65	2,630.5	
4	552	8.51	23.4	
5	653	9.02	21.0	
6	684	6.41	14.2	
7	825	16.40	30.1	
8	925	10.93	17.9	
9	975	10.67	16.6	
10	1,114	15.74	21.4	
11	1,321	16.28	18.7	
12	1,583	12.34	11.8	
13	1,860	8.30	6.8	
14	1,984	13.61	10.4	
15	2,695	16.05	9.0	
16	2,969	8.41	4.3	
17	3,417	10.68	4.7	
18	4,019	7.81	2.9	
19	5,543	10.09	2.8	
20	6,890	15.14	3.3	
21	7,842	8.77	1.7	
22	10,380	75.00	10.9	Upper Marker
23	12,384	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
Modified: 6/19/2014 12:05:18 PM

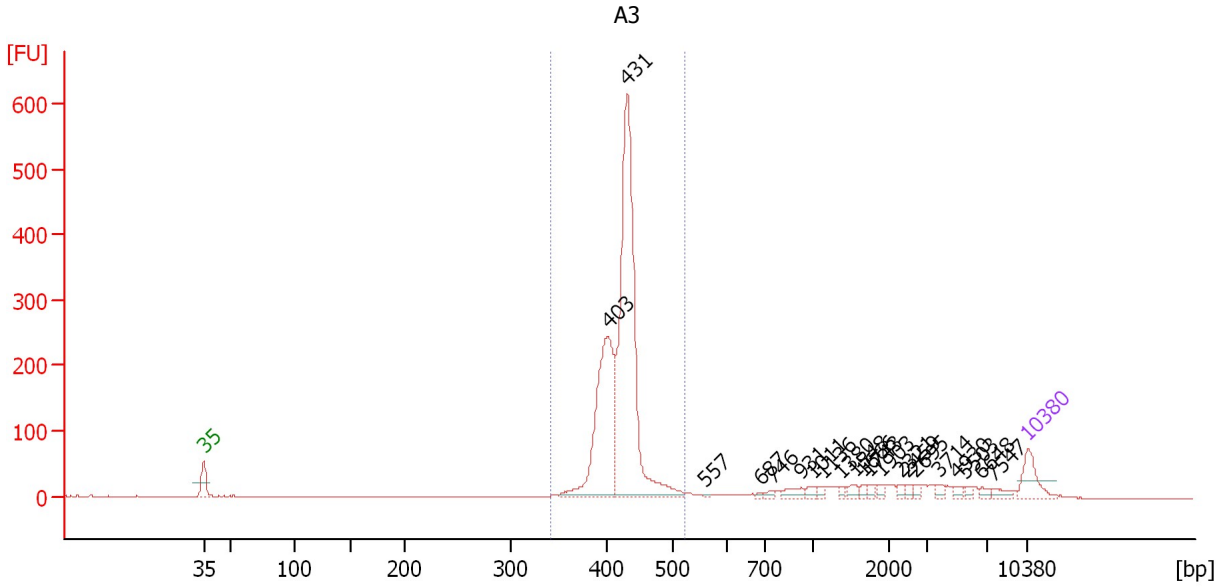
Electropherogram Summary Continued ...**... Region table for sample 2 : A2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
335	526	422	5,644.8	1,564.55	 1,582.2	74	6.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
 Modified: 6/19/2014 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : A3

Number of peaks found: 21 Corr. Area 1: 1,706.7
 Noise: 0.6

Peak table for sample 3 : A3


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	403	653.90	2,455.8	
3	431	1,227.14	4,311.0	
4	557	4.47	12.1	
5	687	5.55	12.2	
6	746	9.63	19.6	
7	931	28.90	47.0	
8	1,011	16.85	25.3	
9	1,136	11.45	15.3	
10	1,380	10.01	11.0	
11	1,548	17.74	17.4	
12	1,666	9.93	9.0	
13	1,743	12.22	10.6	
14	1,903	12.93	10.3	
15	2,321	11.30	7.4	
16	2,459	11.45	7.1	
17	2,695	11.56	6.5	
18	3,714	12.96	5.3	
19	4,930	14.27	4.4	
20	5,503	10.28	2.8	
21	6,648	11.69	2.7	
22	7,547	17.56	3.5	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
Modified: 6/19/2014 12:05:18 PM

Electropherogram Summary Continued ...

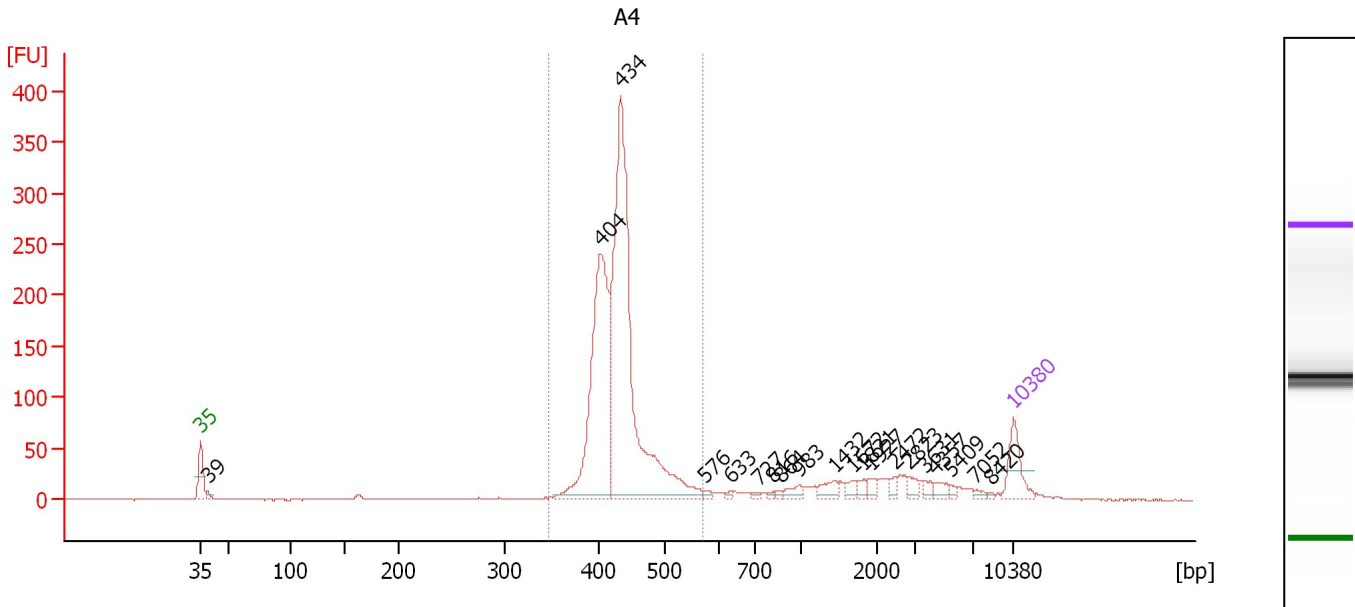
... Region table for sample 3 : A3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
342	521	422	6,857.6	1,905.84	 1,706.7	80	5.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : A4

Number of peaks found: 20 Corr. Area 1: 1,512.0
 Noise: 0.6

Peak table for sample 4 : A4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	13.43	523.8	
3	404	694.66	2,607.3	
4	434	1,185.85	4,136.6	
5	576	9.48	25.0	
6	633	6.05	14.5	
7	727	8.63	18.0	
8	816	5.99	11.1	
9	864	6.17	10.8	
10	983	22.76	35.1	
11	1,432	29.24	30.9	
12	1,672	17.60	15.9	
13	1,821	15.21	12.7	
14	1,927	15.78	12.4	
15	2,472	14.57	8.9	
16	2,823	20.19	10.8	
17	3,631	12.65	5.3	
18	4,357	18.81	6.5	
19	5,409	8.02	2.2	
20	7,052	8.13	1.7	
21	8,420	3.69	0.7	
22	10,380	75.00	10.9	Upper Marker

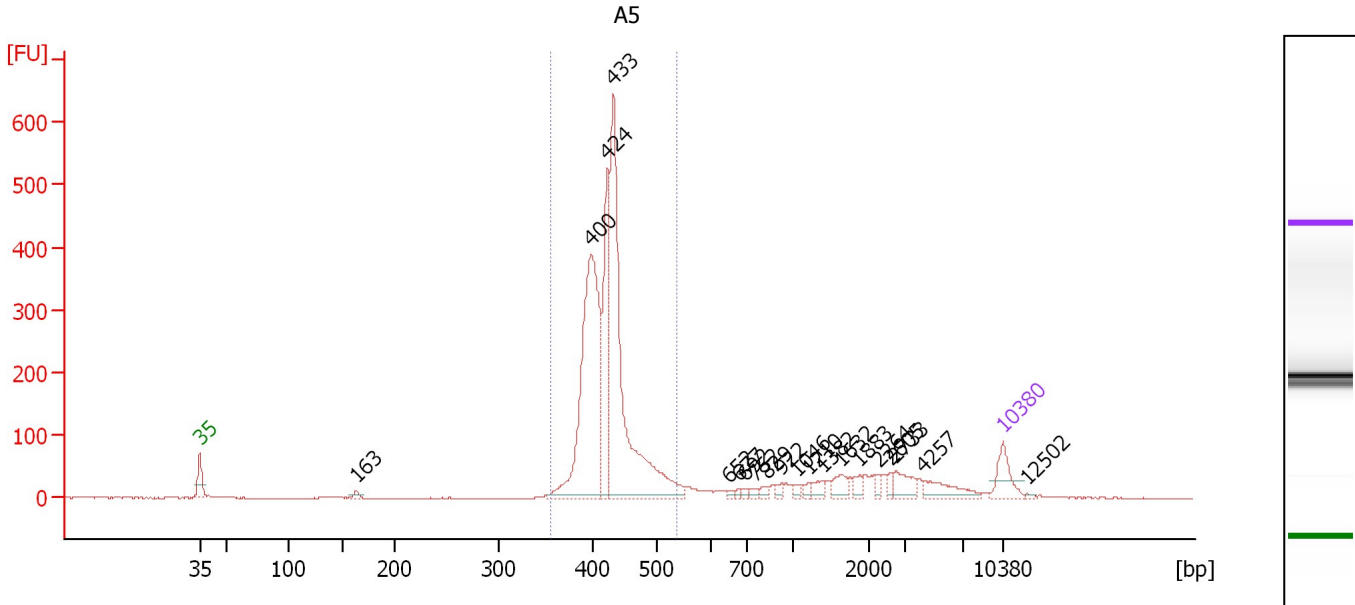
Region table for sample 4 : A4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
347	573	432	6,654.2	1,885.51	1,512.0	76	8.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
 Modified: 6/19/2014 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : A5

Number of peaks found: 20 Corr. Area 1: 2,334.4
 Noise: 0.6

Peak table for sample 5 : A5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	163	17.01	158.1	
3	400	996.59	3,778.5	
4	424	412.57	1,474.4	
5	433	1,106.79	3,873.2	
6	652	8.84	20.5	
7	677	9.22	20.6	
8	692	10.17	22.3	
9	752	15.05	30.3	
10	829	14.46	26.4	
11	922	17.48	28.7	
12	1,046	14.56	21.1	
13	1,210	14.47	18.1	
14	1,382	26.56	29.1	
15	1,632	45.86	42.6	
16	1,883	22.09	17.8	
17	2,264	17.78	11.9	
18	2,605	18.50	10.8	
19	2,733	60.00	33.3	
20	4,257	73.33	26.1	
21	10,380	75.00	10.9	Upper Marker
22	12,502	0.00	0.0	

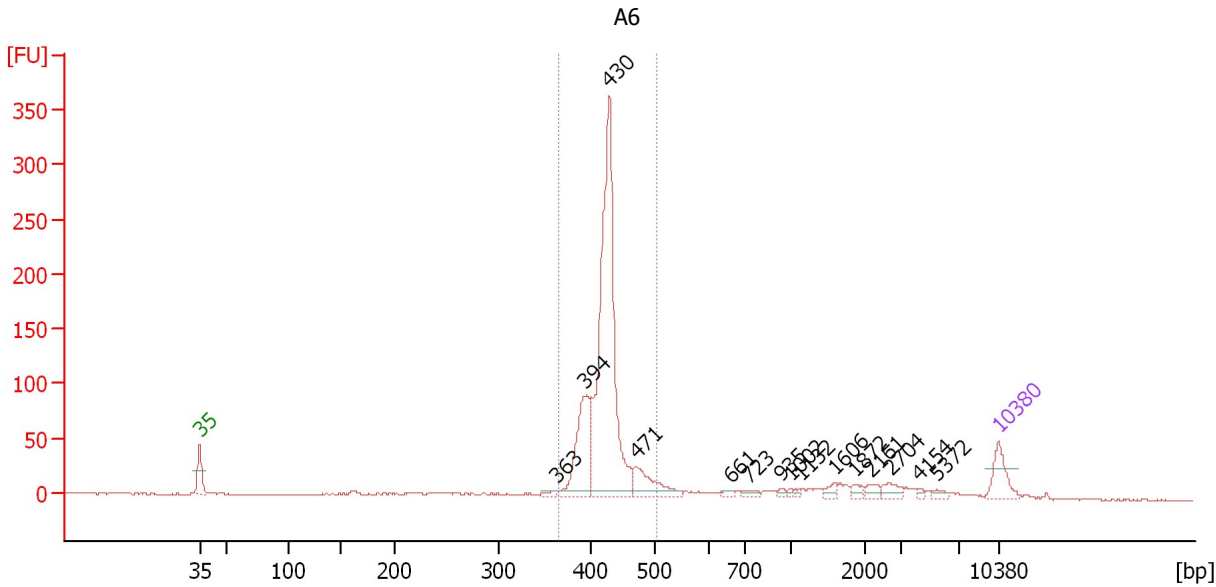
Region table for sample 5 : A5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
356	535	424	8,920.5	2,486.35	2,334.4	76	7.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
 Modified: 6/19/2014 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : A6

Number of peaks found: 15 Corr. Area 1: 874.7
 Noise: 0.7

Peak table for sample 6 : A6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	363	13.71	57.2	
3	394	298.66	1,147.5	
4	430	1,166.40	4,112.1	
5	471	136.00	437.7	
6	661	13.07	29.9	
7	723	18.43	38.6	
8	935	9.45	15.3	
9	1,002	7.07	10.7	
10	1,132	7.03	9.4	
11	1,606	19.51	18.4	
12	1,872	15.84	12.8	
13	2,161	21.11	14.8	
14	2,704	30.65	17.2	
15	4,154	7.78	2.8	
16	5,372	13.72	3.9	
17	10,380	75.00	10.9	Upper Marker

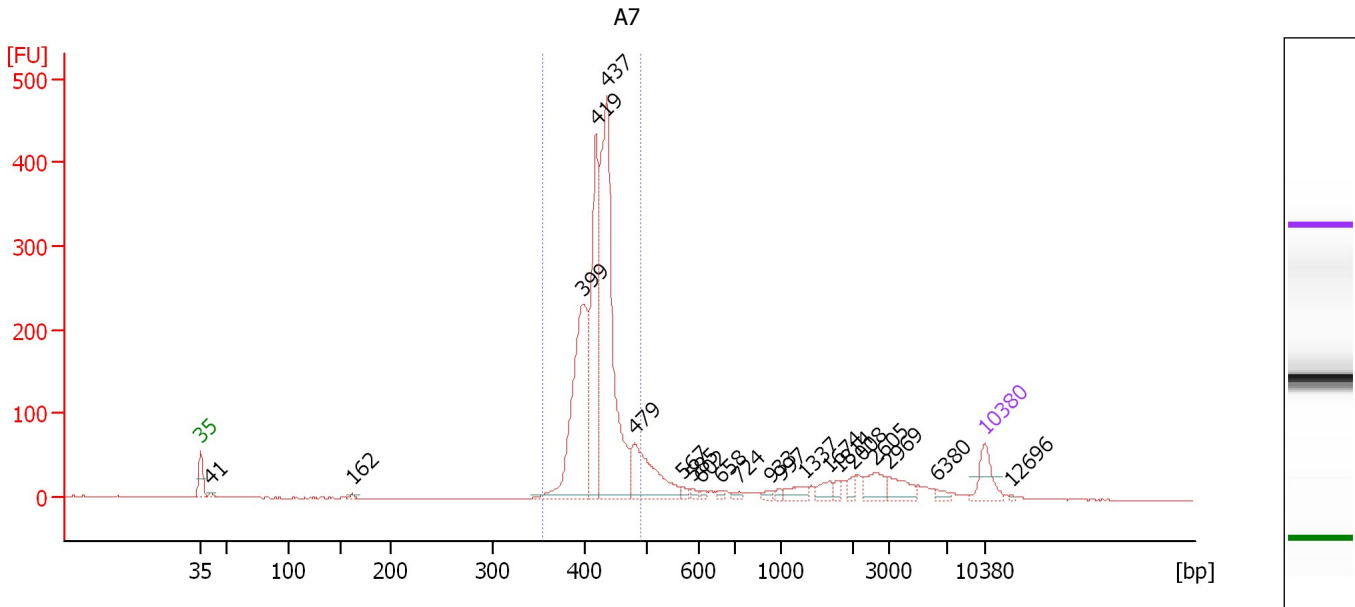
Region table for sample 6 : A6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
367	502	423	5,609.8	1,564.14	874.7	76	5.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
 Modified: 6/19/2014 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : A7

Number of peaks found: 21 Corr. Area 1: 1,761.9
 Noise: 0.6

Peak table for sample 7 : A7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	12.91	479.2	
3	162	7.90	74.2	
4	399	673.22	2,554.1	
5	419	529.81	1,915.0	
6	437	1,039.83	3,607.2	
7	479	272.88	862.4	
8	567	13.82	36.9	
9	585	13.92	36.0	
10	602	8.49	21.4	
11	658	9.93	22.9	
12	724	12.42	26.0	
13	933	13.02	21.1	
14	997	11.43	17.4	
15	1,337	35.93	40.7	
16	1,674	33.57	30.4	
17	1,814	17.26	14.4	
18	2,008	20.99	15.8	
19	2,605	59.37	34.5	
20	2,969	57.37	29.3	
21	6,380	14.60	3.5	
22	10,380	75.00	10.9	Upper Marker
23	12,696	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
Modified: 6/19/2014 12:05:18 PM

Electropherogram Summary Continued ...

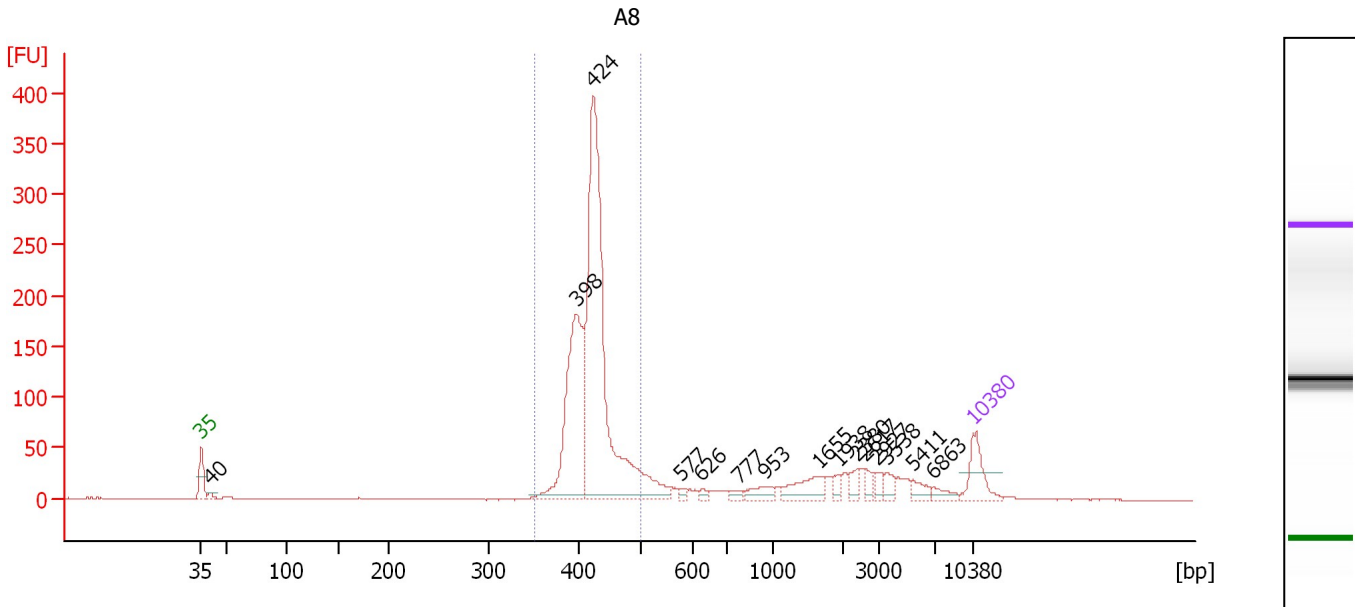
... Region table for sample 7 : A7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
355	490	423	8,332.6	2,322.82	 1,761.9	76	5.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
 Modified: 6/19/2014 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : A8

Number of peaks found: 15 Corr. Area 1: 1,278.8
 Noise: 0.5

Peak table for sample 8 : A8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	13.99	530.0	
3	398	534.63	2,036.8	
4	424	1,153.40	4,122.1	
5	577	8.58	22.5	
6	626	11.14	27.0	
7	777	14.78	28.8	
8	953	34.37	54.6	
9	1,655	70.91	64.9	
10	1,938	19.67	15.4	
11	2,380	23.88	15.2	
12	2,617	22.51	13.0	
13	2,927	20.94	10.8	
14	3,538	23.66	10.1	
15	5,411	25.91	7.3	
16	6,863	19.72	4.4	
17	10,380	75.00	10.9	Upper Marker

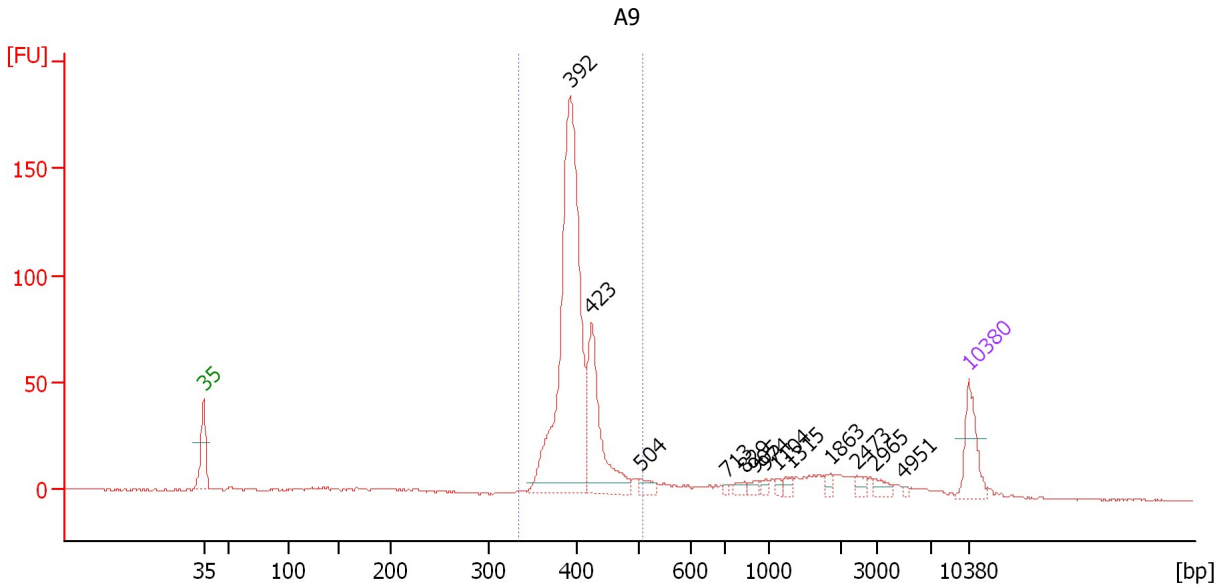
Region table for sample 8 : A8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
351	501	421	5,758.4	1,596.46	1,278.8	71	6.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
 Modified: 6/19/2014 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : A9

Number of peaks found: 13 Corr. Area 1: 643.5
 Noise: 0.5

Peak table for sample 9 : A9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	392	895.77	3,460.9	
3	423	257.13	920.6	
4	504	20.63	62.1	
5	713	5.74	12.2	
6	829	13.37	24.4	
7	905	10.61	17.7	
8	974	8.96	13.9	
9	1,104	8.98	12.3	
10	1,315	10.86	12.5	
11	1,863	11.33	9.2	
12	2,473	12.63	7.7	
13	2,965	16.27	8.3	
14	4,951	4.26	1.3	
15	10,380	75.00	10.9	Upper Marker

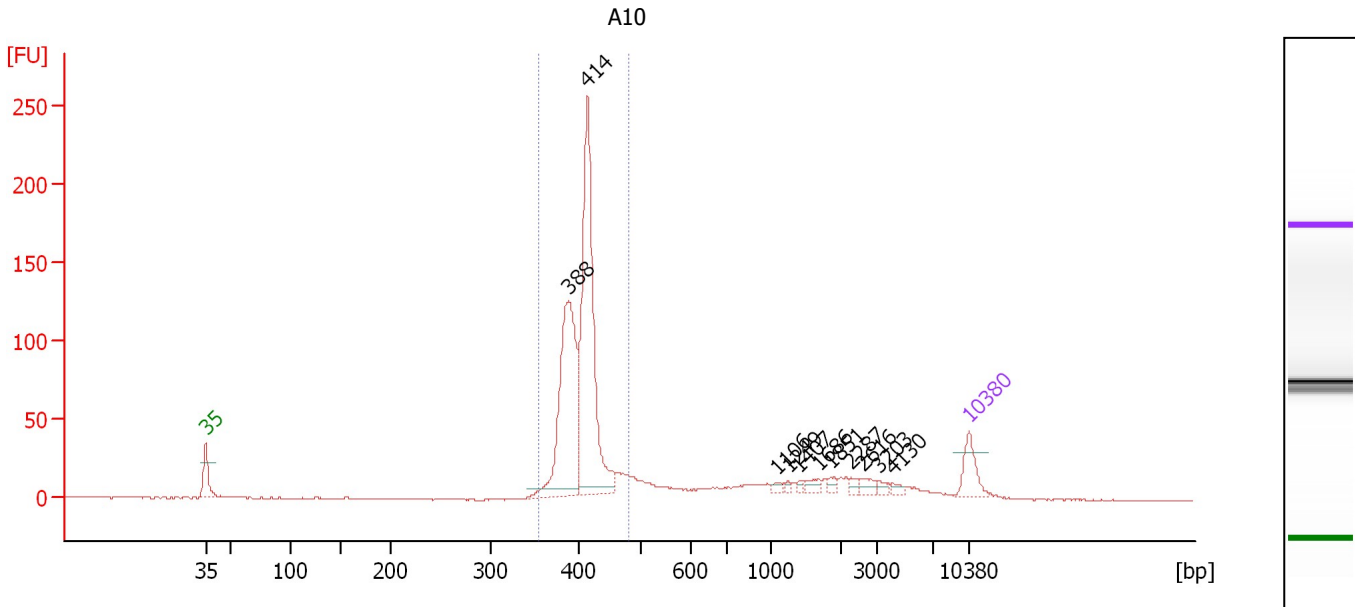
Region table for sample 9 : A9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
332	508	402	4,486.3	1,185.00	643.5	74	6.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
 Modified: 6/19/2014 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : A10

Number of peaks found: 11 Corr. Area 1: 714.2
 Noise: 0.3

Peak table for sample 10 : A10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	388	669.69	2,613.9	
3	414	878.80	3,214.9	
4	1,106	12.34	16.9	
5	1,249	7.61	9.2	
6	1,407	8.51	9.2	
7	1,686	21.16	19.0	
8	1,851	15.48	12.7	
9	2,287	14.22	9.4	
10	2,616	23.30	13.5	
11	3,203	14.08	6.7	
12	4,130	13.15	4.8	
13	10,380	75.00	10.9	Upper Marker

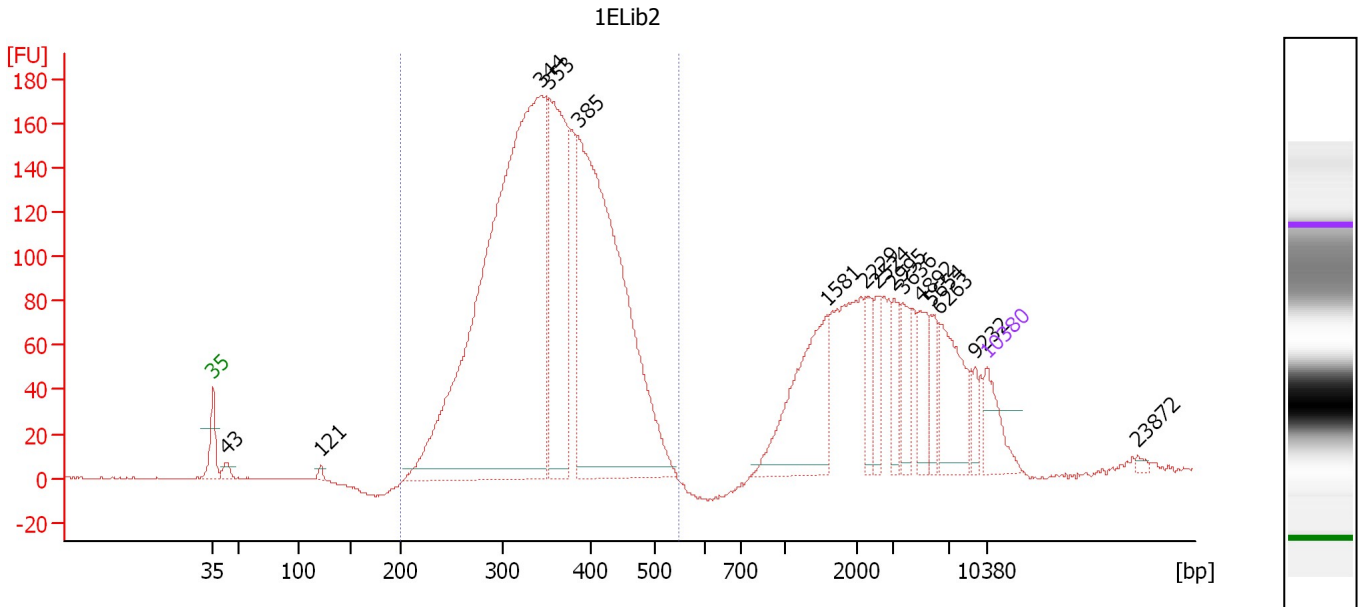
Region table for sample 10 : A10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
355	481	407	6,117.7	1,637.51	714.2	70	5.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
 Modified: 6/19/2014 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 1ELib2

Number of peaks found: 15 Corr. Area 1: 2,985.6
 Noise: 0.3

Peak table for sample 11 : 1ELib2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	24.55	870.1	
3	121	13.25	165.9	
4	344	2,263.30	9,961.2	
5	353	649.79	2,792.0	
6	385	1,397.11	5,499.7	
7	1,581	298.52	286.0	
8	2,229	67.44	45.8	
9	2,524	51.32	30.8	
10	2,995	56.83	28.7	
11	3,636	70.16	29.2	
12	4,892	77.28	23.9	
13	5,654	57.90	15.5	
14	6,263	156.39	37.8	
15	9,232	26.62	4.4	
16	10,380	75.00	10.9	Upper Marker
17	23,872	0.00	0.0	

Region table for sample 11 : 1ELib2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	547	356	20,374.0	4,592.69	2,985.6	72	17.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-19\2014-06-19_002.xad

Created: 6/19/2014 11:11:30 AM
Modified: 6/19/2014 12:05:18 PM

Gel Image

