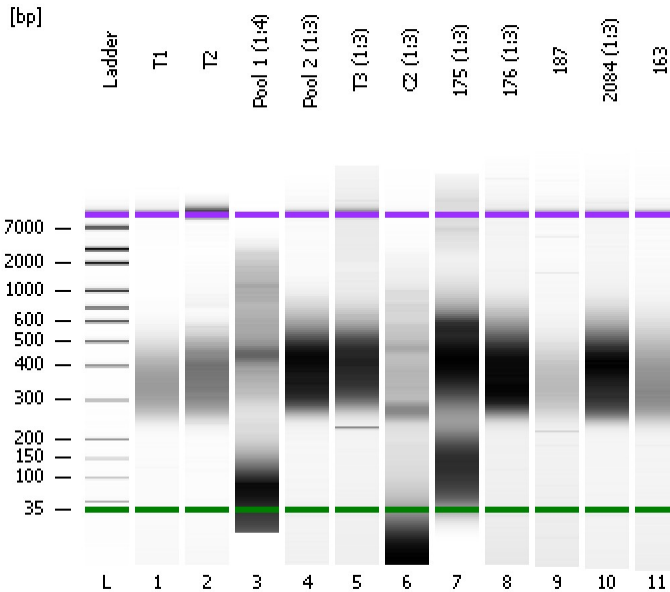


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

Created: 6/6/2014 9:38:45 AM
 Modified: 6/6/2014 10:20:09 AM

Electrophoresis File Run Summary



Instrument Information:

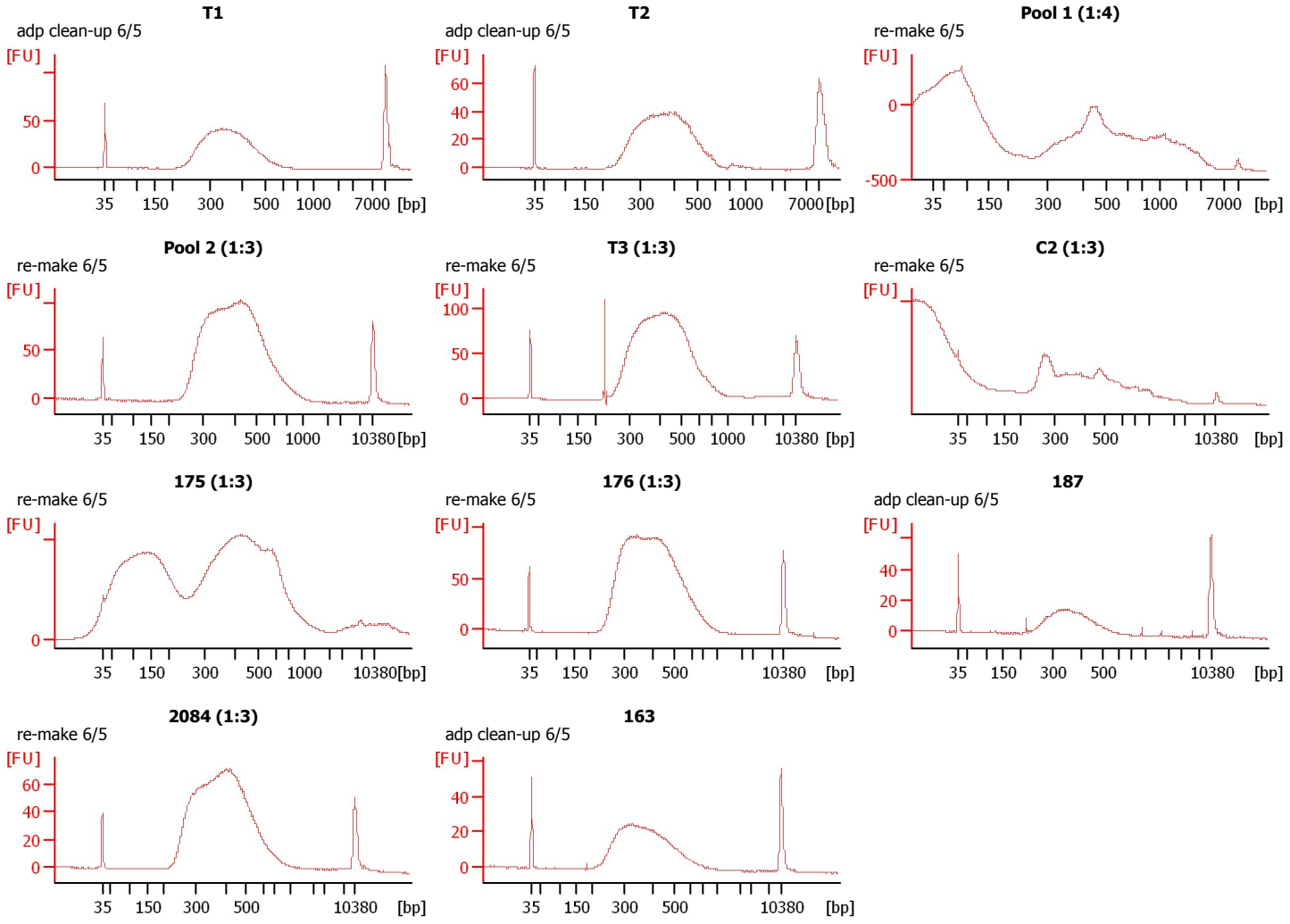
Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

Created: 6/6/2014 9:38:45 AM
Modified: 6/6/2014 10:20:09 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
T1	adp clean-up 6/5	<input type="checkbox"/>	✓			
T2	adp clean-up 6/5	<input type="checkbox"/>	✓			
Pool 1 (1:4)	re-make 6/5	<input type="checkbox"/>	✓			
Pool 2 (1:3)	re-make 6/5	<input type="checkbox"/>	✓			
T3 (1:3)	re-make 6/5	<input type="checkbox"/>	✓			
C2 (1:3)	re-make 6/5	<input type="checkbox"/>	✓			
175 (1:3)	re-make 6/5	<input type="checkbox"/>	✓			
176 (1:3)	re-make 6/5	<input type="checkbox"/>	✓			
187	adp clean-up 6/5	<input type="checkbox"/>	✓			
2084 (1:3)	re-make 6/5	<input type="checkbox"/>	✓			
163	adp clean-up 6/5	<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\2014-06-06\2014-06-06_001.xad

Created: 6/6/2014 9:38:45 AM
Modified: 6/6/2014 10:20:09 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

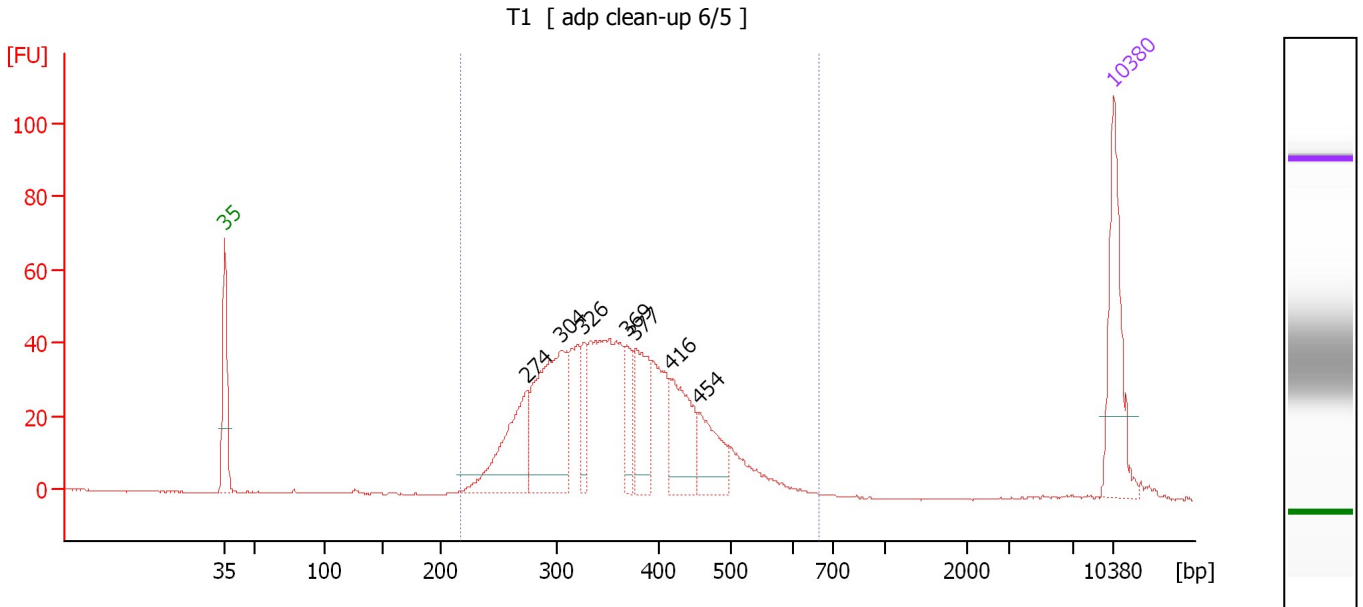
Ladder

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:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

Created: 6/6/2014 9:38:45 AM
 Modified: 6/6/2014 10:20:09 AM

Electropherogram Summary



Overall Results for sample 1 : T1

Number of peaks found: 7 Corr. Area 1: 878.1
 Noise: 0.2

Peak table for sample 1 : T1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	274	117.50	649.5	
3	304	182.96	913.1	
4	326	35.95	166.8	
5	369	39.25	161.3	
6	377	73.48	295.4	
7	416	80.48	293.2	
8	454	54.68	182.4	
9	10,380	75.00	10.9	Upper Marker

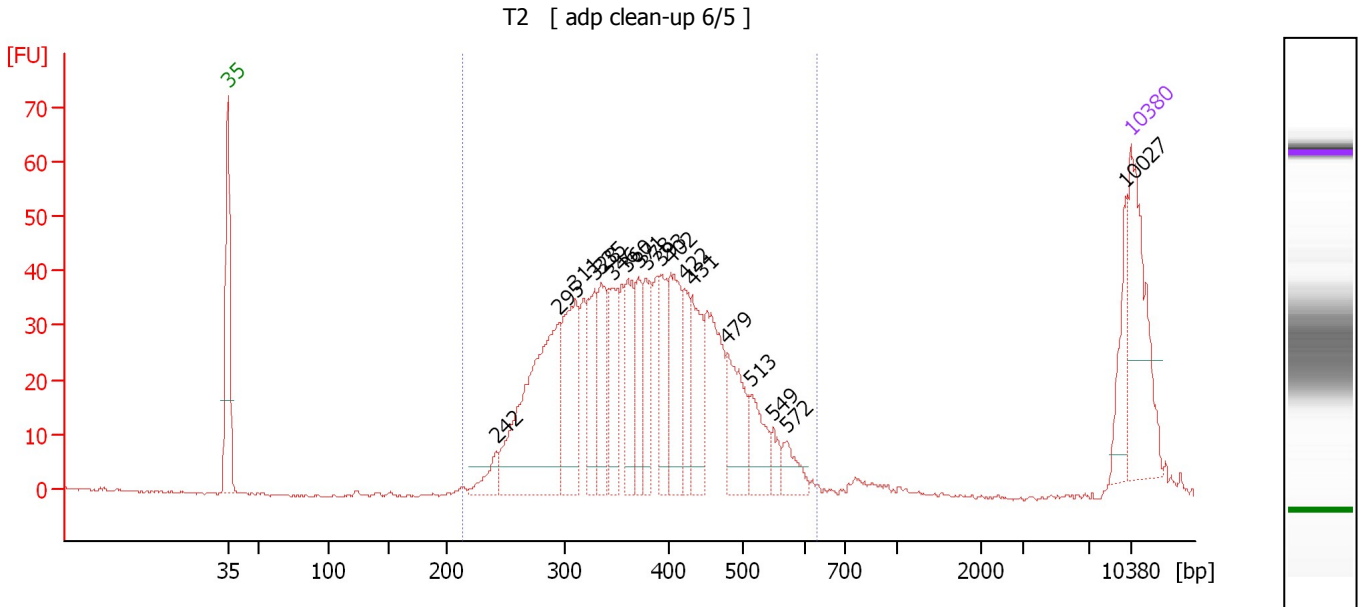
Region table for sample 1 : T1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
218	666	362	4,161.3	942.10	878.1	100	20.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

Created: 6/6/2014 9:38:45 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : T2

Number of peaks found: 18 Corr. Area 1: 898.0
 Noise: 0.2

Peak table for sample 2 : T2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	242	19.95	125.1	
3	295	206.01	1,058.8	
4	311	99.88	487.3	
5	328	53.06	244.8	
6	335	57.16	258.4	
7	346	58.43	256.0	
8	360	54.98	231.3	
9	371	40.05	163.6	
10	378	42.17	169.0	
11	393	44.22	170.7	
12	402	72.24	271.9	
13	422	32.41	116.3	
14	431	56.58	198.7	
15	479	58.08	183.6	
16	513	36.72	108.4	
17	549	12.23	33.8	
18	572	18.77	49.7	
19	10,027	27.88	4.2	
20	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : T2

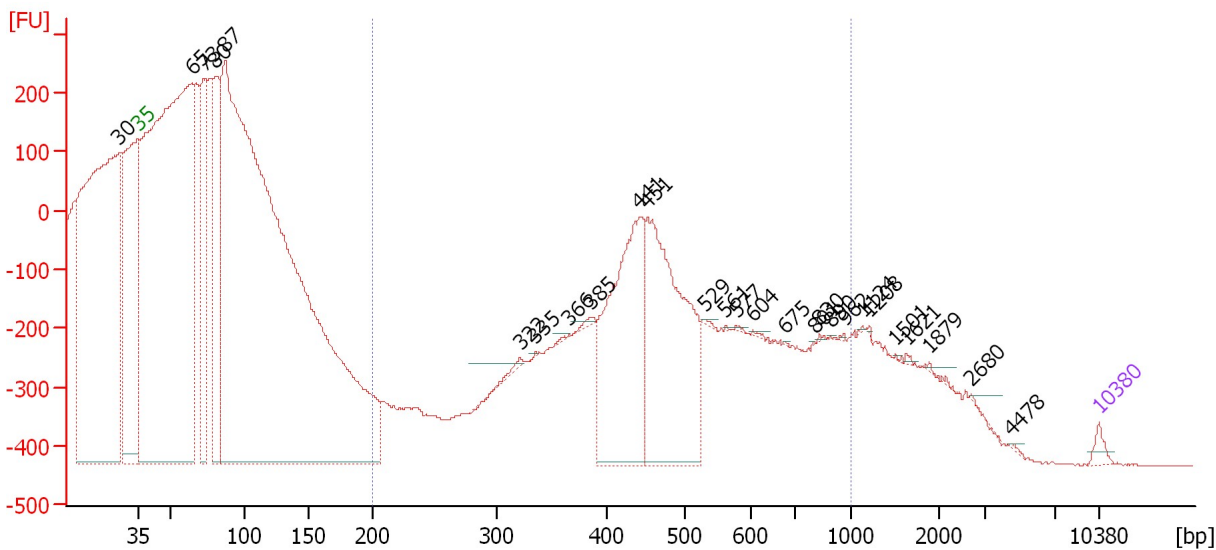
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
214	632	380	4,883.2	1,149.81	898.0	96	20.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

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 Modified: 6/6/2014 10:20:09 AM

Electropherogram Summary Continued ...

Pool 1 (1:4) [re-make 6/5]



Overall Results for sample 3 : Pool 1 (1:4)

Number of peaks found: 27 Corr. Area 1: 2,097.5
 Noise: 1.2

Peak table for sample 3 : Pool 1 (1:4)


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	65	19,617.29	460,267.0	
4	73	2,611.62	54,390.0	
5	80	3,176.47	59,998.5	
6	87	30,593.13	532,988.1	
7	322	61.90	291.6	
8	335	4.14	18.7	
9	366	16.57	68.6	
10	385	45.43	178.8	
11	441	3,416.94	11,733.2	
12	451	3,792.29	12,747.4	
13	529	15.41	44.1	
14	561	4.96	13.4	
15	577	10.34	27.1	
16	604	13.36	33.5	
17	675	4.55	10.2	
18	801	3.05	5.8	
19	830	9.78	17.8	
20	890	3.38	5.7	
21	962	7.74	12.2	
22	1,124	7.39	10.0	
23	1,208	4.95	6.2	
24	1,501	4.45	4.5	
25	1,621	14.41	13.5	
26	1,879	16.03	12.9	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad


Created: 6/6/2014 9:38:45 AM
 Modified: 6/6/2014 10:20:09 AM

Electropherogram Summary Continued ...

... Peak table for sample 3 : Pool 1 (1:4)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,680	6.81	3.9	
28	4,478	7.74	2.6	
29	 10,380	75.00	10.9	Upper Marker

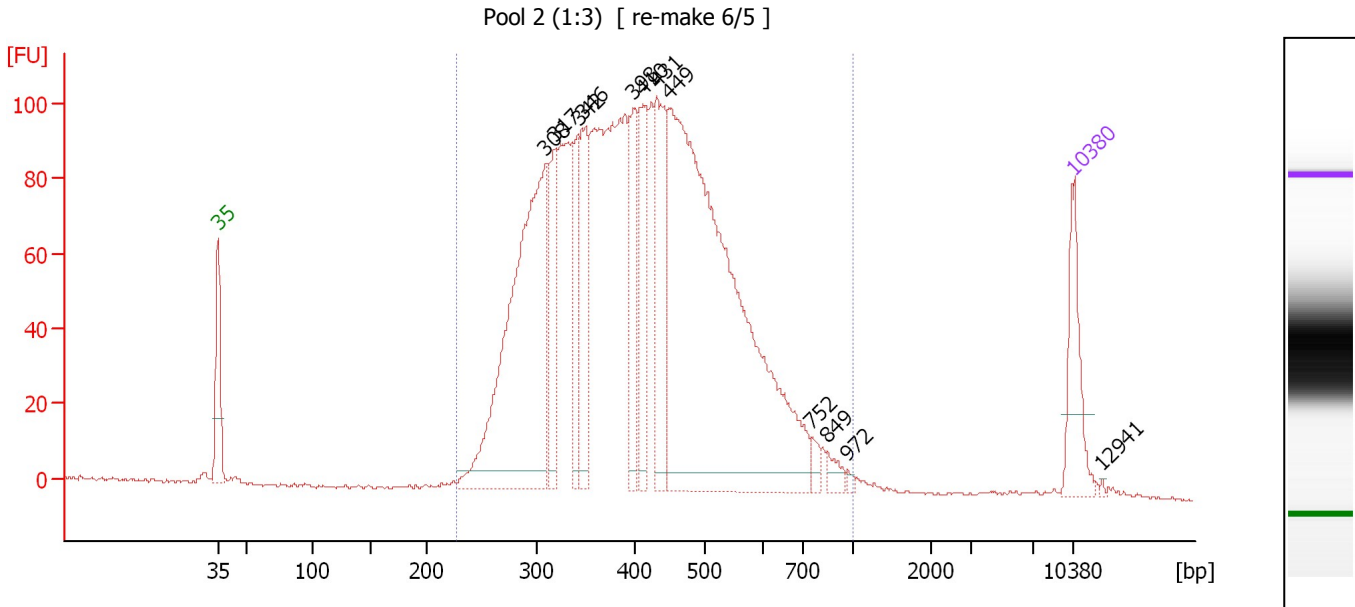
Region table for sample 3 : Pool 1 (1:4)

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	559	11,443.0	3,870.43	 2,097.5	23	28.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

Created: 6/6/2014 9:38:45 AM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : Pool 2 (1:3)

Number of peaks found: 12 Corr. Area 1: 2,593.4
 Noise: 0.5

Peak table for sample 4 : Pool 2 (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	308	645.88	3,177.4	
3	317	140.18	669.6	
4	342	106.26	471.4	
5	346	156.84	687.1	
6	398	123.75	471.4	
7	410	139.73	516.6	
8	431	191.75	674.8	
9	449	1,098.85	3,709.0	
10	752	15.14	30.5	
11	849	16.57	29.6	
12	972	4.71	7.3	
13	10,380	75.00	10.9	Upper Marker
14	12,941	0.00	0.0	

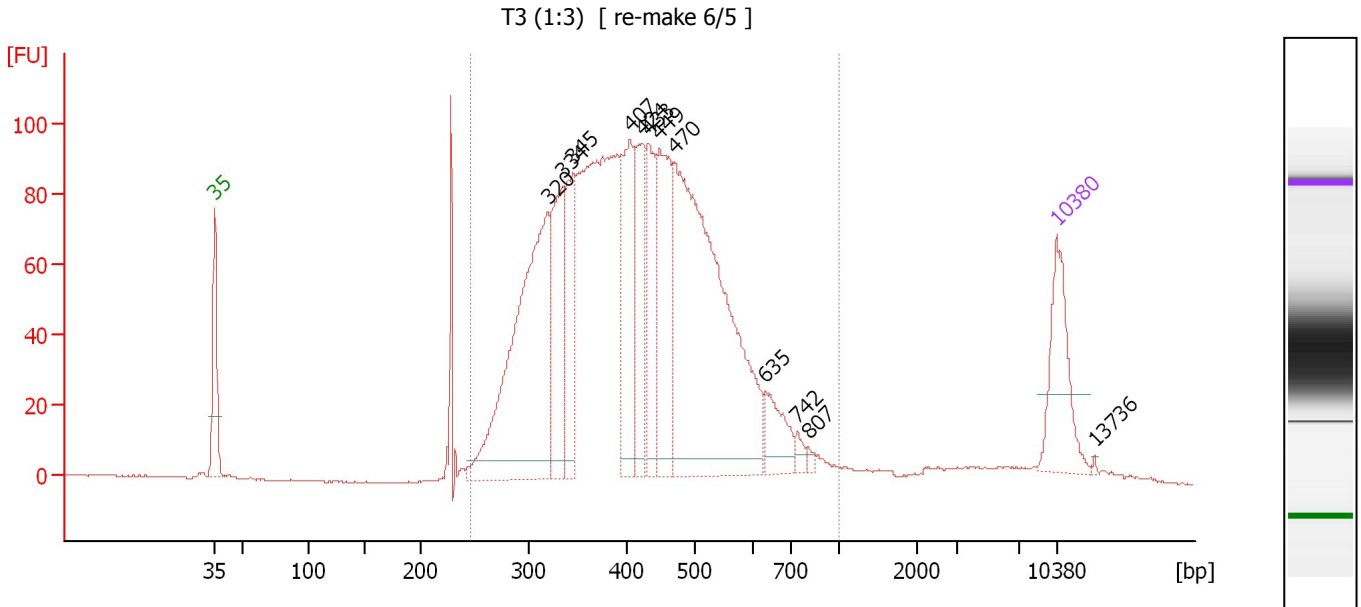
Region table for sample 4 : Pool 2 (1:3)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
228	1,000	421	13,838.1	3,510.92	2,593.4	99	27.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

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 Modified: 6/6/2014 10:20:09 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : T3 (1:3)

Number of peaks found: 12 Corr. Area 1: 2,247.5
 Noise: 0.2

Peak table for sample 5 : T3 (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	320	429.31	2,035.1	
3	334	154.46	699.7	
4	345	118.66	520.5	
5	407	148.60	553.6	
6	424	119.55	427.4	
7	433	105.72	369.8	
8	449	161.65	545.9	
9	470	567.33	1,830.4	
10	635	49.29	117.7	
11	742	10.11	20.7	
12	807	4.84	9.1	
13	10,380	75.00	10.9	Upper Marker
14	13,736	0.00	0.0	

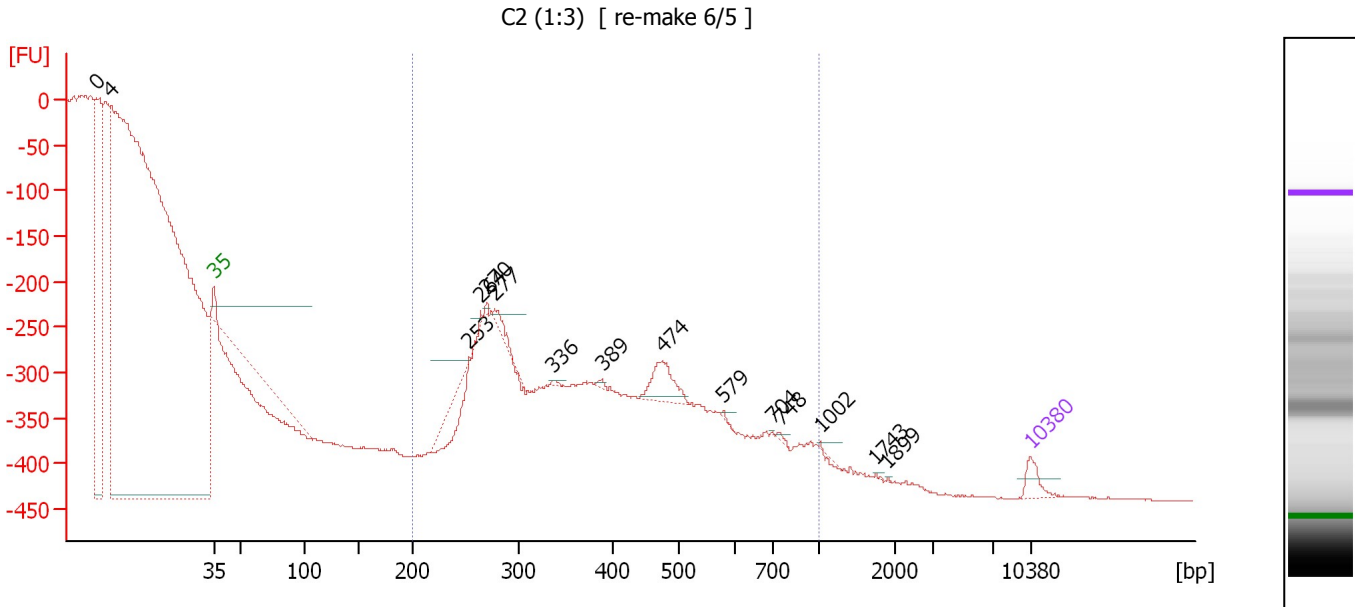
Region table for sample 5 : T3 (1:3)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
247	1,000	428	9,230.0	2,404.26	2,247.5	95	25.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

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 Modified: 6/6/2014 10:20:09 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : C2 (1:3)

Number of peaks found: 15 Corr. Area 1: 0.0
 Noise: 0.8

Peak table for sample 6 : C2 (1:3)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	4	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	253	6.38	38.2	
5	264	12.99	74.6	
6	270	15.01	84.2	
7	277	59.00	322.3	
8	336	13.47	60.7	
9	389	13.75	53.6	
10	474	242.88	776.9	
11	579	5.99	15.7	
12	704	2.89	6.2	
13	748	10.48	21.2	
14	1,002	3.04	4.6	
15	1,743	3.20	2.8	
16	1,899	2.61	2.1	
17	10,380	75.00	10.9	Upper Marker

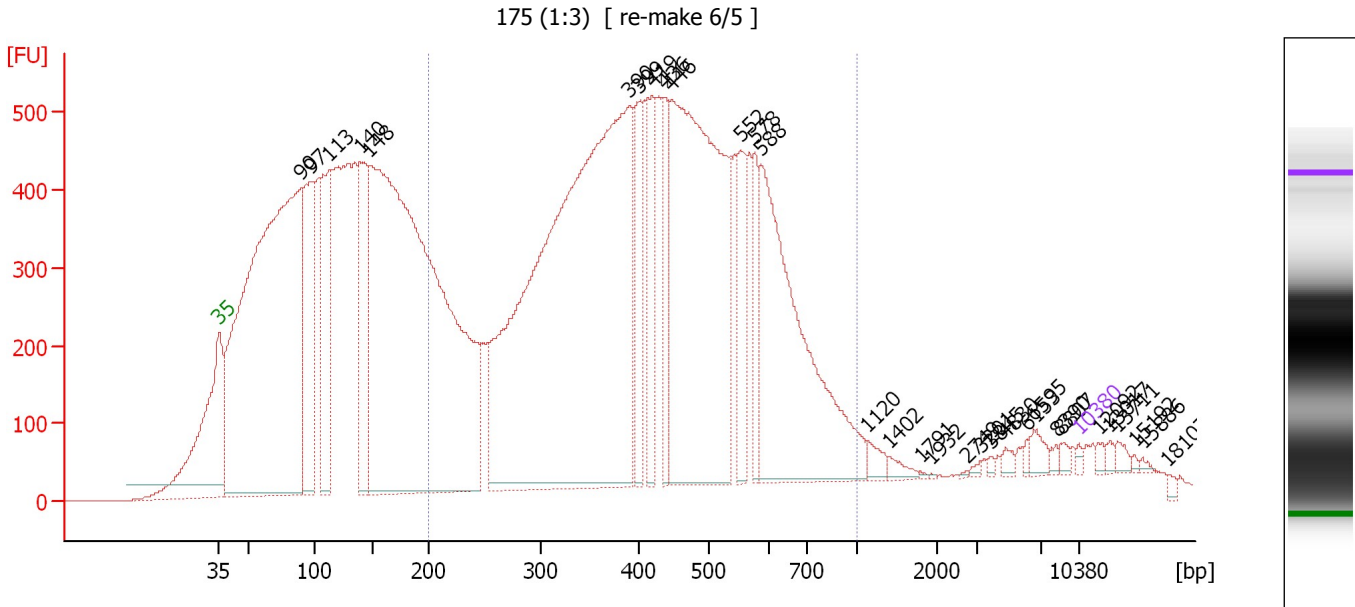
Region table for sample 6 : C2 (1:3)

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	0	0.0	0.00	0.0	0	0.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 175 (1:3)

Number of peaks found: 31 Corr. Area 1: 15,946.3
 Noise: 0.4

Peak table for sample 7 : 175 (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	90	36,068.03	607,452.9	
3	97	6,397.50	99,799.9	
4	113	6,287.55	84,333.8	
5	140	5,971.70	64,831.3	
6	148	42,110.27	431,212.9	
7	390	32,373.69	125,666.0	
8	399	2,472.73	9,378.9	
9	419	2,630.26	9,510.9	
10	436	2,099.07	7,298.7	
11	446	17,211.99	58,420.8	
12	552	2,059.97	5,651.7	
13	578	1,483.79	3,891.6	
14	588	10,163.09	26,202.1	
15	1,120	356.72	482.5	
16	1,402	230.81	249.4	
17	1,791	28.49	24.1	
18	1,932	15.76	12.4	
19	2,749	22.13	12.2	
20	3,201	71.33	33.8	
21	3,845	61.79	24.3	
22	4,830	153.86	48.3	
23	6,153	99.56	24.5	
24	6,595	323.35	74.3	
25	8,390	96.39	17.4	
26	8,807	148.57	25.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

Created: 6/6/2014 9:38:45 AM
 Modified: 6/6/2014 10:20:09 AM

Electropherogram Summary Continued ...

... Peak table for sample 7 : 175 (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	10,380	75.00	10.9	Upper Marker
28	12,092	0.00	0.0	
29	13,017	0.00	0.0	
30	13,711	0.00	0.0	
31	15,192	0.00	0.0	
32	15,886	0.00	0.0	
33	18,107	0.00	0.0	

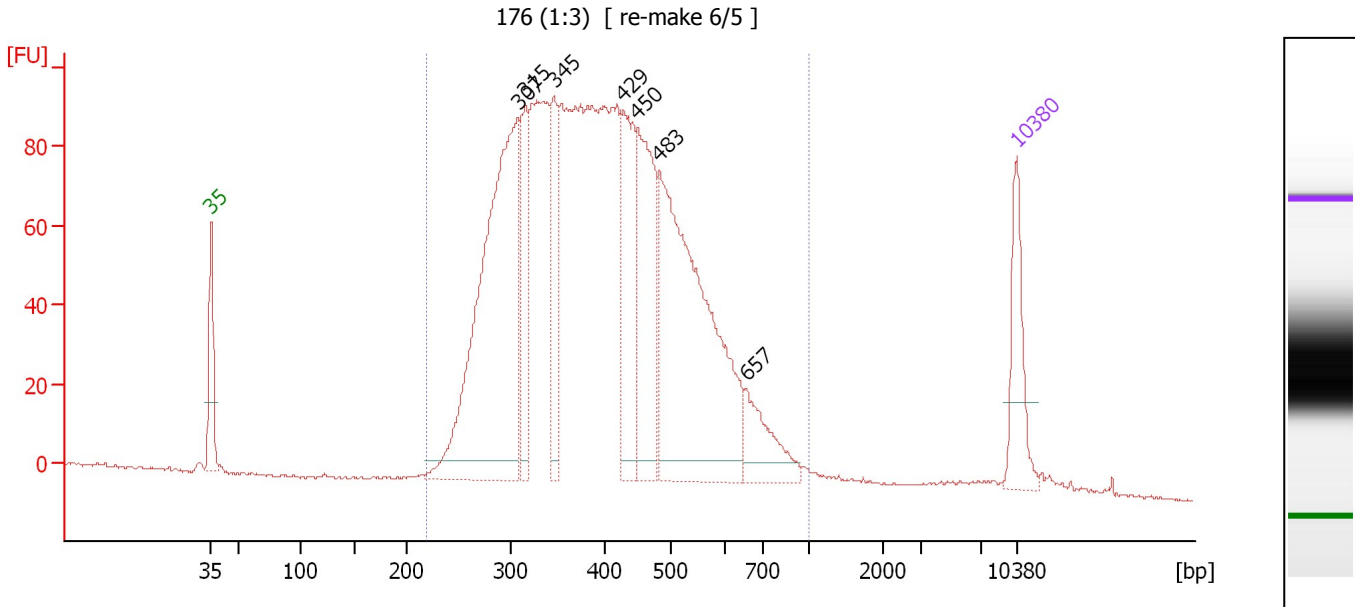
Region table for sample 7 : 175 (1:3)

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	433	393,523.1	95,324.46	15,946.3	54	33.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

Created: 6/6/2014 9:38:45 AM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : 176 (1:3)

Number of peaks found: 7 Corr. Area 1: 2,489.1
 Noise: 0.4

Peak table for sample 8 : 176 (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	307	685.33	3,382.9	
3	315	145.42	699.5	
4	345	115.07	504.8	
5	429	196.24	692.9	
6	450	233.45	785.7	
7	483	564.82	1,770.0	
8	657	83.34	192.2	
9	10,380	75.00	10.9	Upper Marker

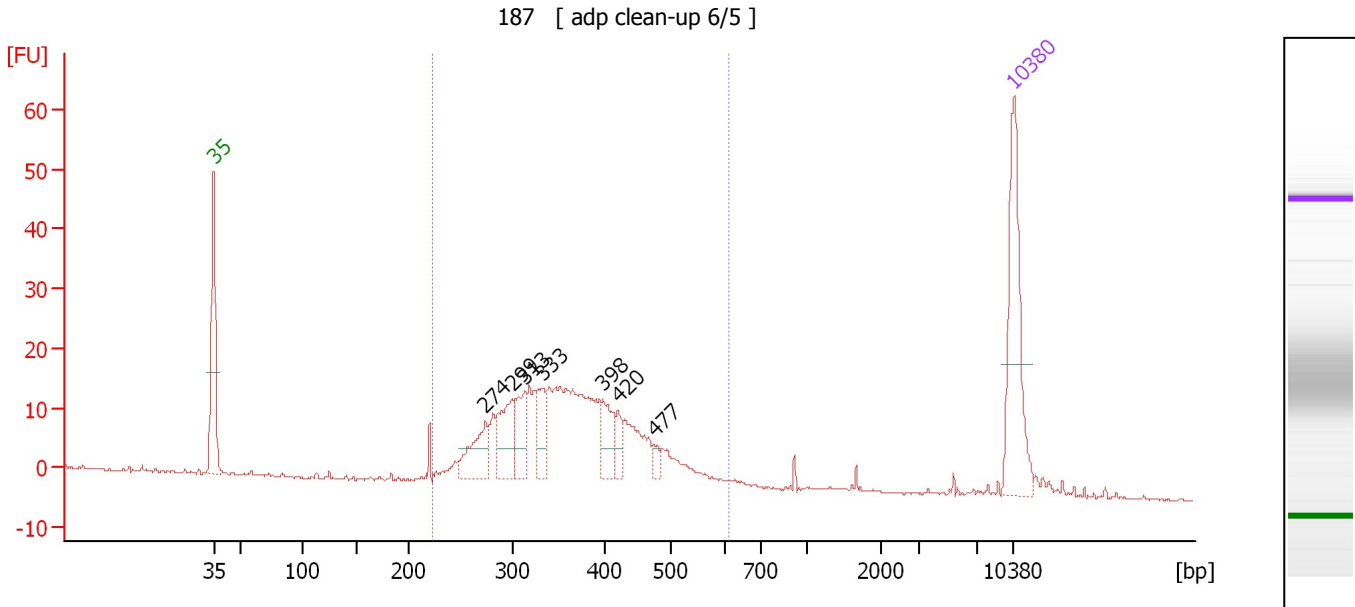
Region table for sample 8 : 176 (1:3)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
219	1,000	413	13,165.9	3,258.75	2,489.1	98	27.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

Created: 6/6/2014 9:38:45 AM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : 187

Number of peaks found: 7 Corr. Area 1: 313.8
 Noise: 0.2

Peak table for sample 9 : 187

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	274	44.84	247.7	
3	299	46.96	237.6	
4	313	32.01	154.8	
5	333	29.55	134.3	
6	398	31.82	121.1	
7	420	14.61	52.7	
8	477	6.13	19.5	
9	10,380	75.00	10.9	Upper Marker

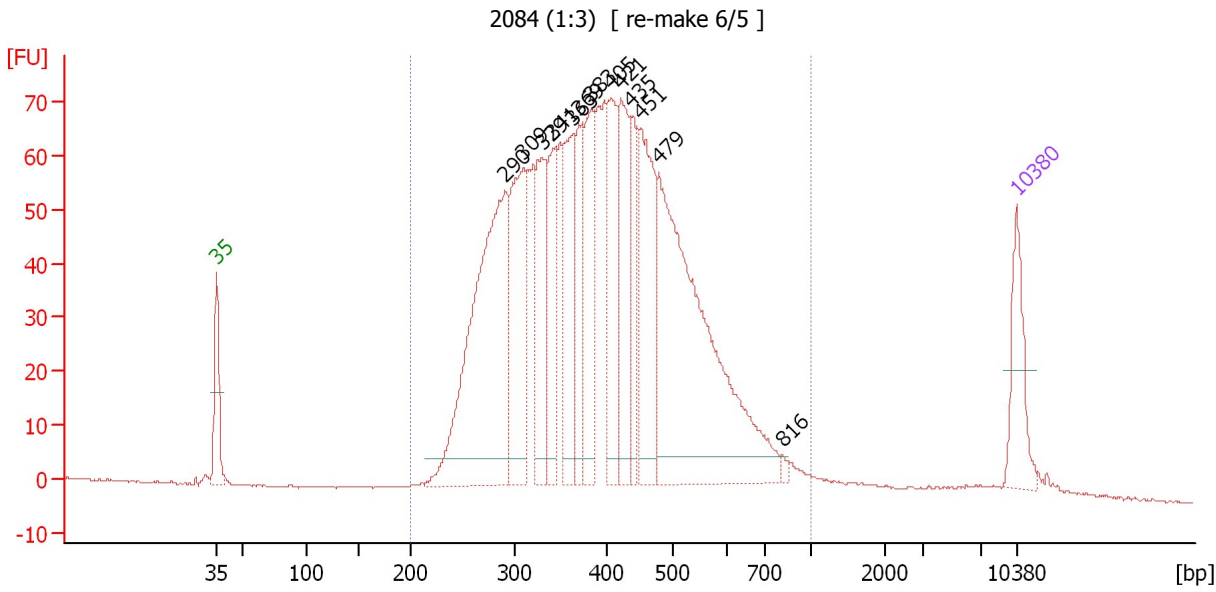
Region table for sample 9 : 187

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
223	610	367	2,271.6	521.51	313.8	92	20.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

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 Modified: 6/6/2014 10:20:09 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 2084 (1:3)

Number of peaks found: 13 Corr. Area 1: 1,792.5
 Noise: 0.2

Peak table for sample 10 : 2084 (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	290	615.95	3,219.9	
3	309	265.51	1,302.8	
4	329	169.64	781.2	
5	341	136.98	609.4	
6	363	183.91	768.6	
7	369	105.76	434.4	
8	383	179.04	708.7	
9	405	153.87	575.5	
10	421	181.08	652.3	
11	435	105.22	366.2	
12	451	210.90	708.7	
13	479	662.68	2,097.6	
14	816	6.13	11.4	
15	10,380	75.00	10.9	Upper Marker

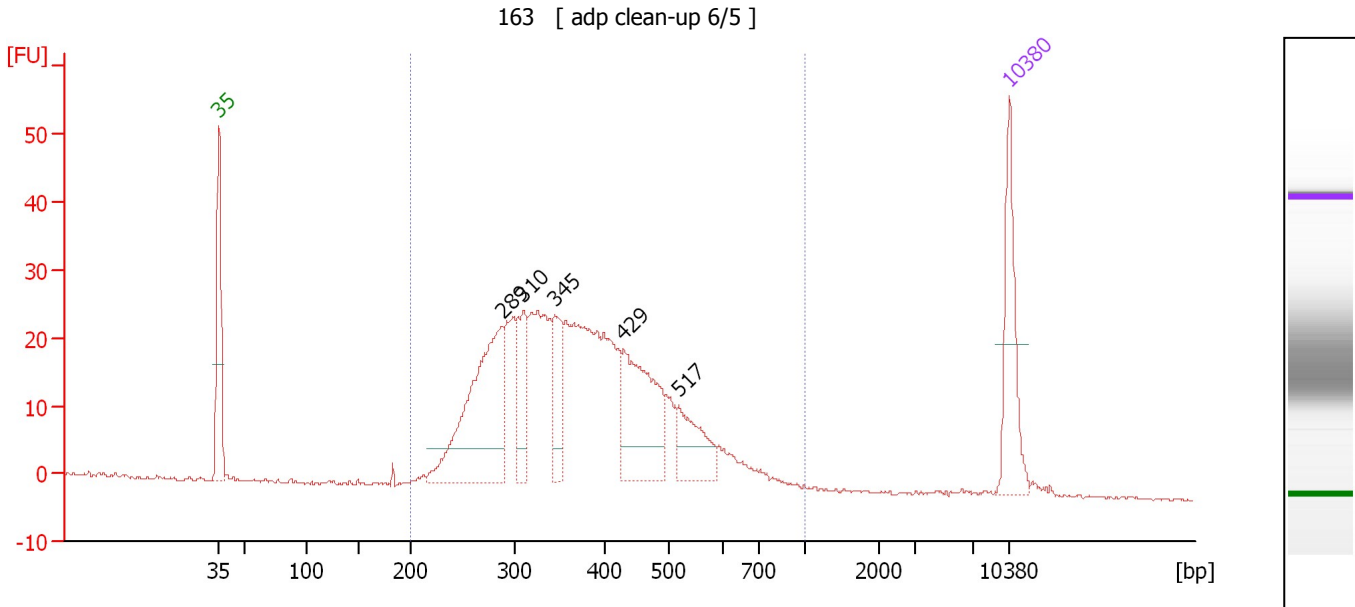
Region table for sample 10 : 2084 (1:3)

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	407	14,581.8	3,551.76	1,792.5	97	28.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

Created: 6/6/2014 9:38:45 AM
 Modified: 6/6/2014 10:20:09 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 163

Number of peaks found: 5 Corr. Area 1: 604.8
 Noise: 0.2

Peak table for sample 11 : 163

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	289	264.31	1,388.0	
3	310	70.22	342.7	
4	345	70.07	307.7	
5	429	156.30	552.1	
6	517	67.75	198.6	
7	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : 163

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	386	5,630.3	1,305.99	604.8	99	27.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-06\2014-06-06_001.xad

Created: 6/6/2014 9:38:45 AM
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Gel Image

