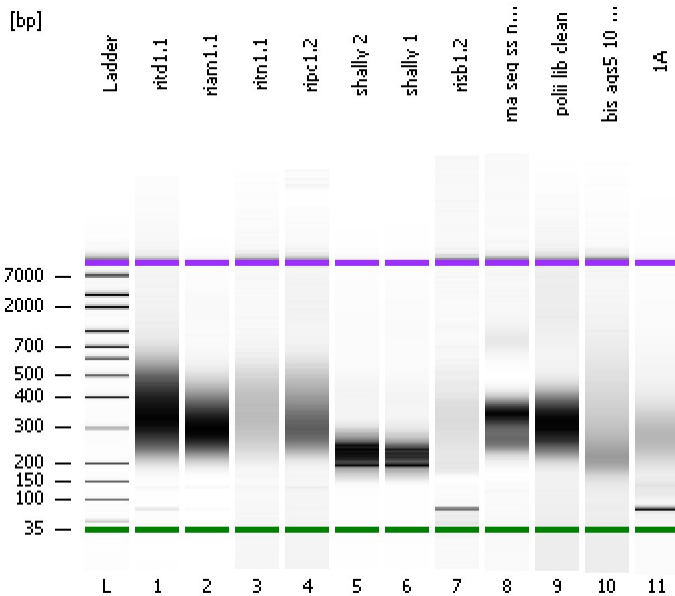


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-30\2013-08-30_001.xad

Created: 8/30/2013 11:14:00 AM
Modified: 8/30/2013 11:56:16 AM

Electrophoresis File Run Summary



Instrument Information:

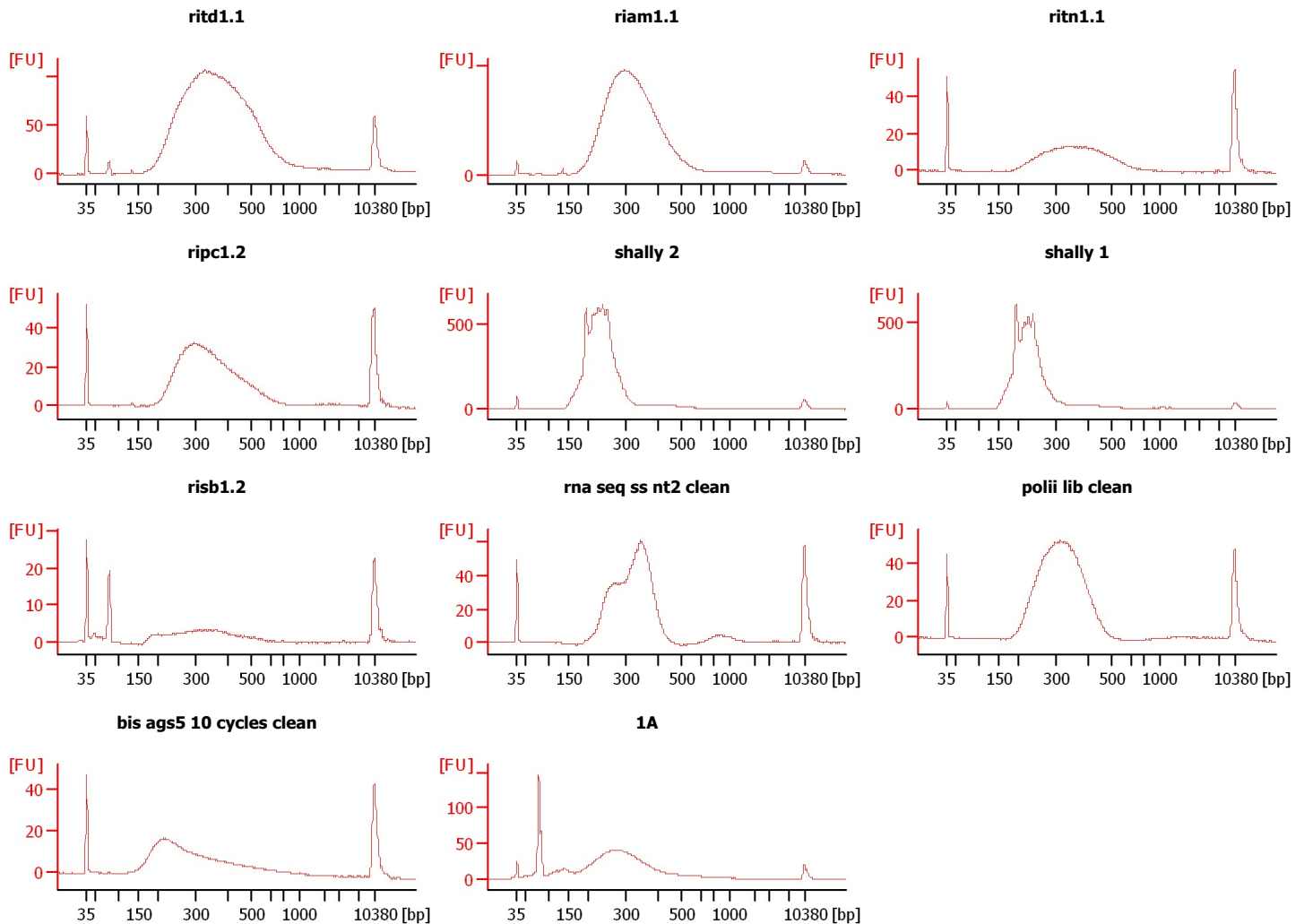
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...ents and Settings\Bioanalyzer\2013-08-30\2013-08-30_001.xad

Created: 8/30/2013 11:14:00 AM
 Modified: 8/30/2013 11:56:16 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ritd1.1		<input type="checkbox"/>	✓			
riam1.1		<input type="checkbox"/>	✓			
ritn1.1		<input type="checkbox"/>	✓			
ripc1.2		<input type="checkbox"/>	✓			
shally 2		<input type="checkbox"/>	✓			
shally 1		<input type="checkbox"/>	✓			
risb1.2		<input type="checkbox"/>	✓			
rna seq ss nt2 clean		<input type="checkbox"/>	✓			
polii lib clean		<input type="checkbox"/>	✓			
bis ags5 10 cycles clean		<input type="checkbox"/>	✓			
1A		<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\2013-08-30\2013-08-30_001.xad

Created: 8/30/2013 11:14:00 AM
Modified: 8/30/2013 11:56:16 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

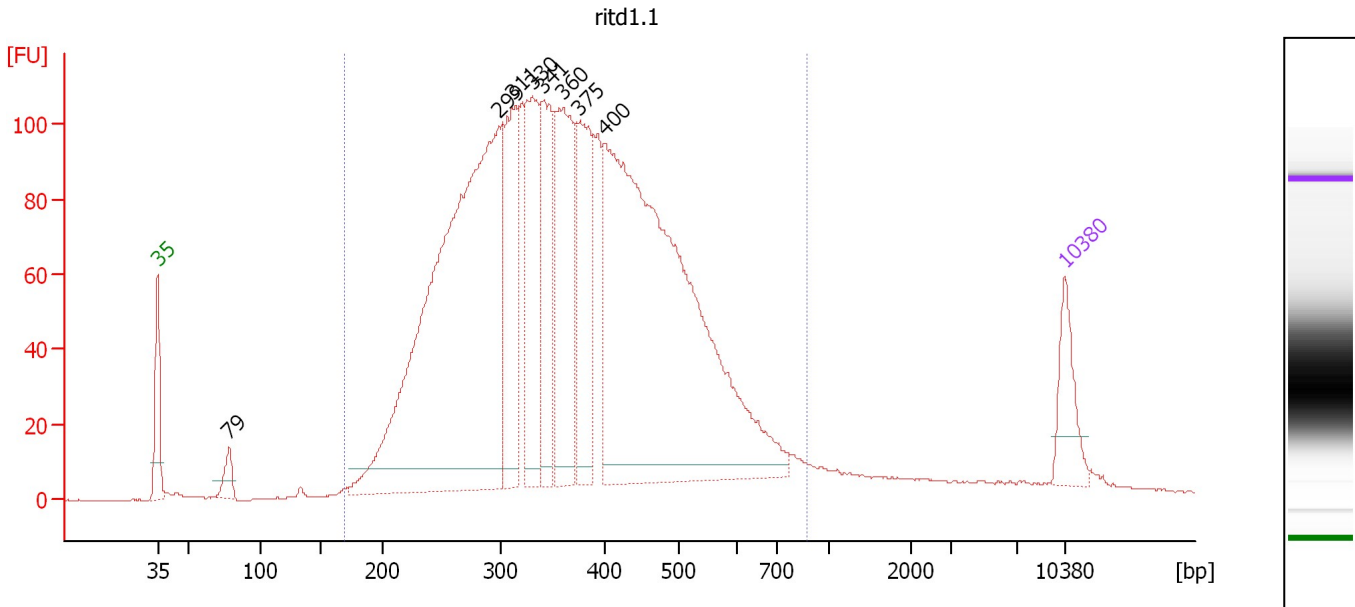
Ladder

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:\...ents and Settings\Bioanalyzer\2013-08-30\2013-08-30_001.xad

Created: 8/30/2013 11:14:00 AM
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Electropherogram Summary



Overall Results for sample 1 : ritd1.1

Number of peaks found: 8 Corr. Area 1: 2,968.5
 Noise: 0.2

Peak table for sample 1 : ritd1.1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	47.13	903.6	
3	299	1,561.29	7,921.4	
4	311	315.11	1,537.3	
5	330	310.95	1,427.9	
6	341	239.27	1,063.6	
7	360	346.81	1,461.1	
8	375	280.67	1,134.7	
9	400	1,450.41	5,489.5	
10	10,380	75.00	10.9	Upper Marker

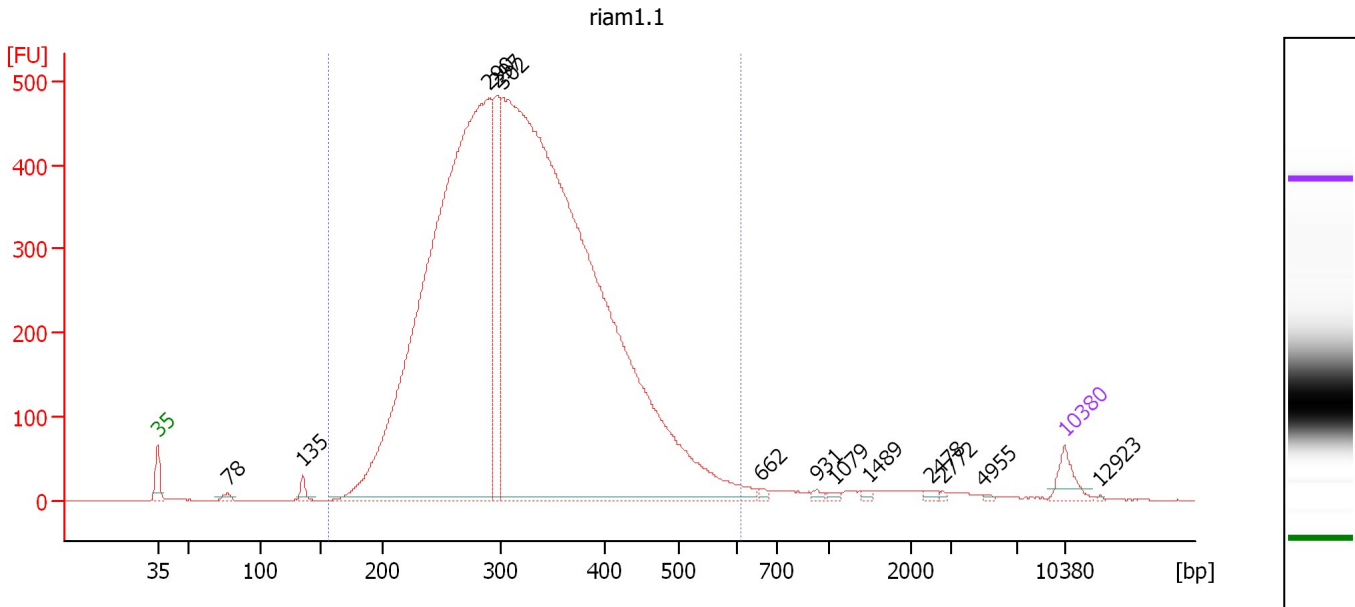
Region table for sample 1 : ritd1.1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
169	872	378	23,264.4	5,154.04	2,968.5	95	29.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-30\2013-08-30_001.xad

Created: 8/30/2013 11:14:00 AM
 Modified: 8/30/2013 11:56:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : riam1.1

Number of peaks found: 13 Corr. Area 1: 10,225.7
 Noise: 0.2

Peak table for sample 2 : riam1.1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	78	27.68	539.6	
3	135	45.01	506.1	
4	290	6,177.87	32,279.5	
5	297	679.91	3,469.0	
6	302	8,958.42	44,937.4	
7	662	13.57	31.1	
8	931	15.64	25.5	
9	1,079	12.46	17.5	
10	1,489	10.27	10.5	
11	2,478	13.41	8.2	
12	2,772	6.71	3.7	
13	4,955	5.58	1.7	
14	10,380	75.00	10.9	Upper Marker
15	12,923	0.00	0.0	

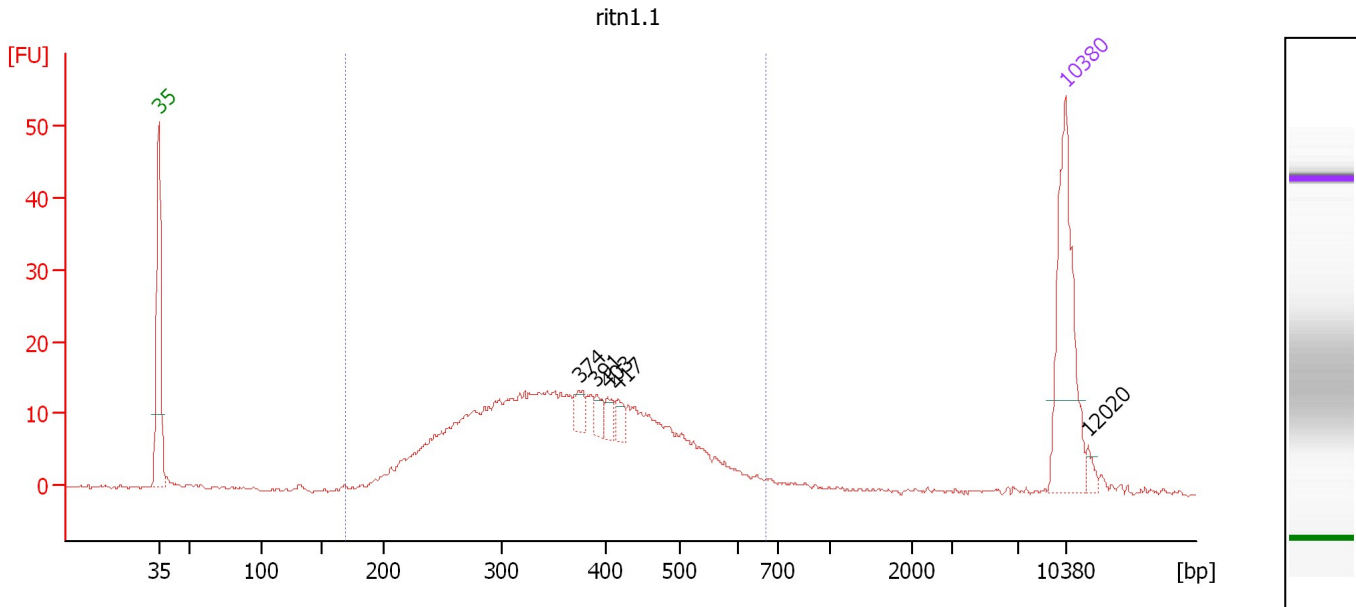
Region table for sample 2 : riam1.1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
155	608	324	76,075.5	15,213.03	10,225.7	97	22.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-30\2013-08-30_001.xad

Created: 8/30/2013 11:14:00 AM
 Modified: 8/30/2013 11:56:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : ritn1.1

Number of peaks found: 5 Corr. Area 1: 374.7
 Noise: 0.2

Peak table for sample 3 : ritn1.1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	374	10.82	43.8	
3	391	8.91	34.5	
4	403	8.28	31.1	
5	417	7.78	28.3	
6	10,380	75.00	10.9	Upper Marker
7	12,020	0.00	0.0	

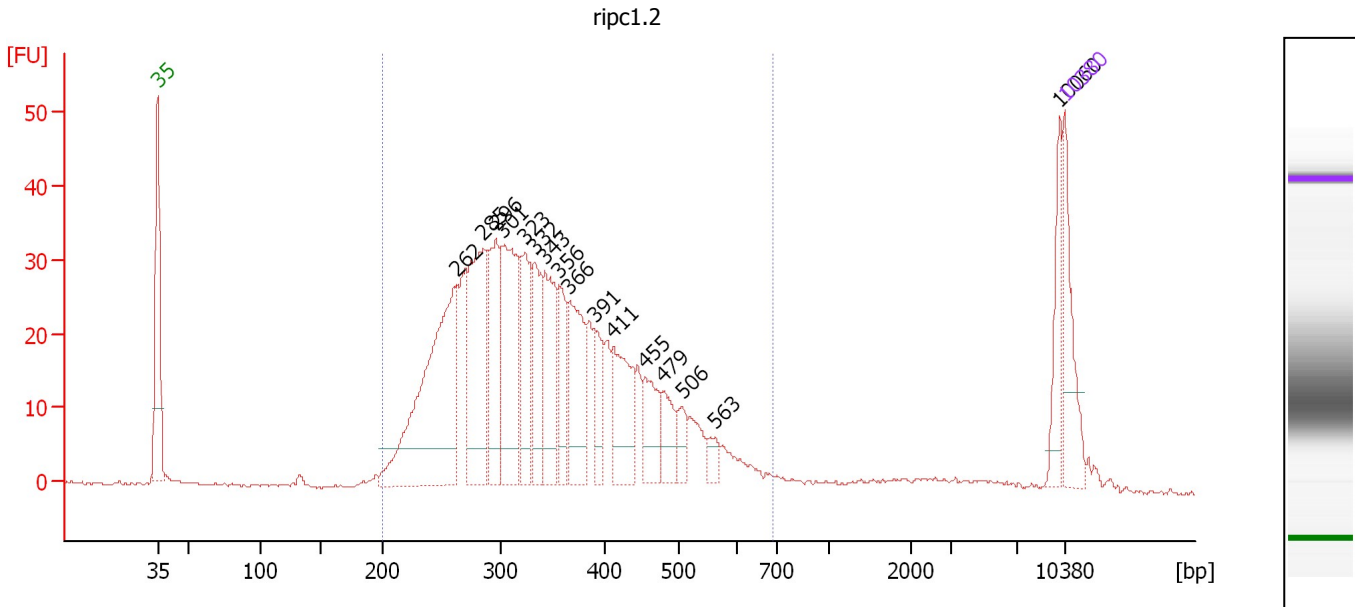
Region table for sample 3 : ritn1.1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
170	669	370	2,895.2	639.57	374.7	90	26.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-30\2013-08-30_001.xad

Created: 8/30/2013 11:14:00 AM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : ripc1.2

Number of peaks found: 16 Corr. Area 1: 724.5
 Noise: 0.2

Peak table for sample 4 : ripc1.2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	262	411.83	2,379.9	
3	285	238.36	1,265.2	
4	296	145.17	743.7	
5	301	200.01	1,005.7	
6	323	108.45	508.9	
7	332	82.17	374.9	
8	343	134.62	594.3	
9	356	69.29	294.8	
10	366	131.37	543.9	
11	391	53.33	206.9	
12	411	105.82	390.0	
13	455	66.88	222.9	
14	479	45.39	143.6	
15	506	25.19	75.3	
16	563	18.41	49.6	
17	10,060	55.91	8.4	
18	10,380	75.00	10.9	Upper Marker

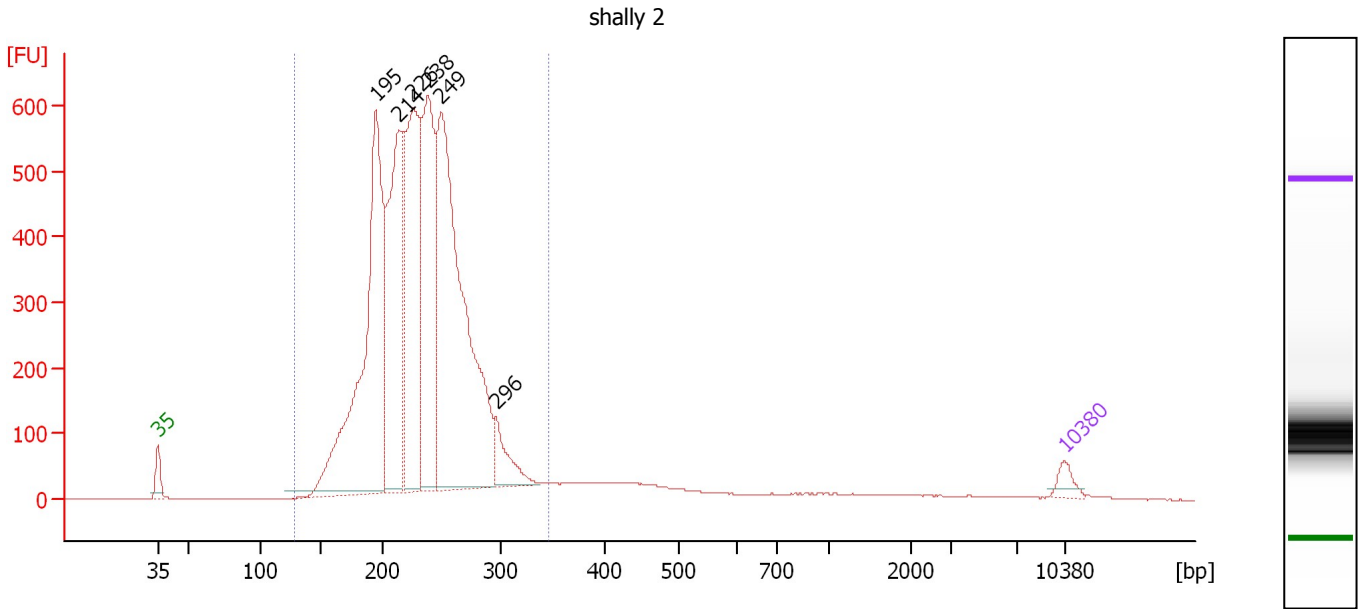
Region table for sample 4 : ripc1.2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	690	349	10,649.4	2,262.69	724.5	94	25.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-30\2013-08-30_001.xad

Created: 8/30/2013 11:14:00 AM
 Modified: 8/30/2013 11:56:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : shally 2

Number of peaks found: 6 Corr. Area 1: 7,991.7
 Noise: 0.1

Peak table for sample 5 : shally 2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	195	3,560.05	27,719.5	
3	214	2,131.85	15,115.7	
4	226	2,347.96	15,716.7	
5	238	1,879.85	11,944.2	
6	249	4,061.79	24,668.8	
7	296	338.08	1,729.0	
8	10,380	75.00	10.9	Upper Marker

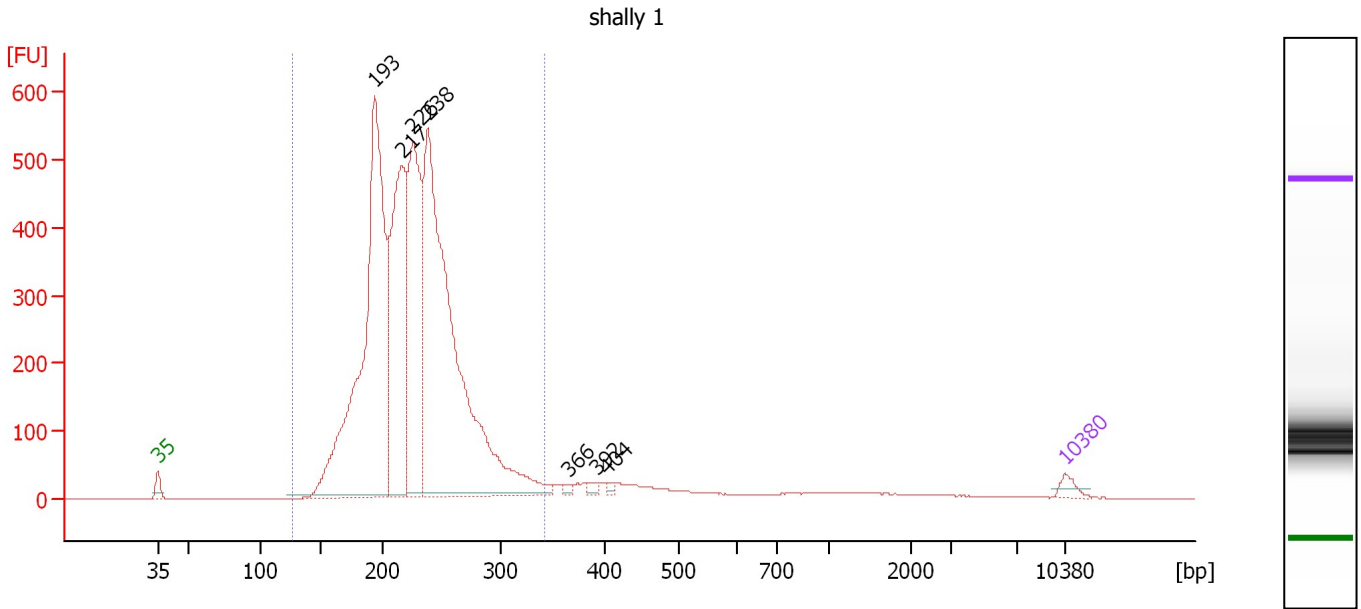
Region table for sample 5 : shally 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
128	347	232	101,132.0	15,078.94	7,991.7	93	15.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-30\2013-08-30_001.xad

Created: 8/30/2013 11:14:00 AM
 Modified: 8/30/2013 11:56:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : shally 1

Number of peaks found: 7 Corr. Area 1: 6,393.2
 Noise: 0.2

Peak table for sample 6 : shally 1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	193	6,162.21	48,274.2	
3	217	3,123.11	21,840.6	
4	226	2,762.94	18,510.6	
5	238	6,906.50	43,886.4	
6	366	40.94	169.5	
7	392	46.58	180.0	
8	404	36.19	135.7	
9	10,380	75.00	10.9	Upper Marker

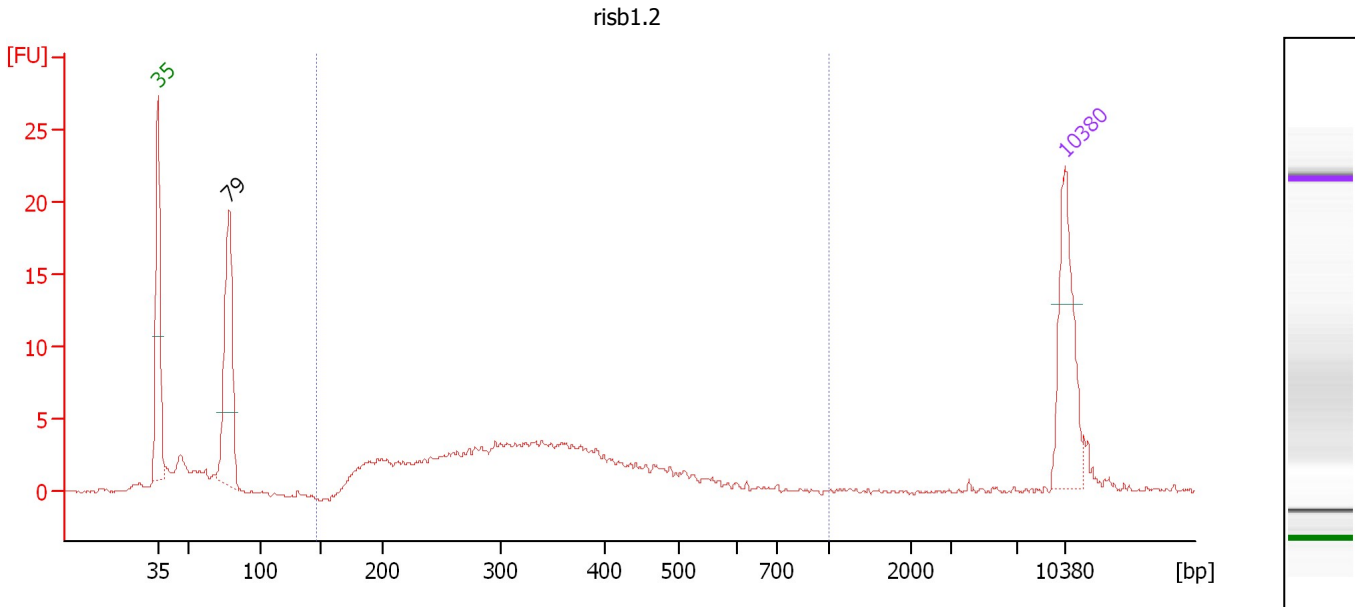
Region table for sample 6 : shally 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
127	341	226	131,610.8	19,107.26	6,393.2	92	15.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-30\2013-08-30_001.xad

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 Modified: 8/30/2013 11:56:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : risb1.2

Number of peaks found: 1 Corr. Area 1: 90.8
 Noise: 0.2

Peak table for sample 7 : risb1.2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	171.44	3,298.6	
3	10,380	75.00	10.9	Upper Marker

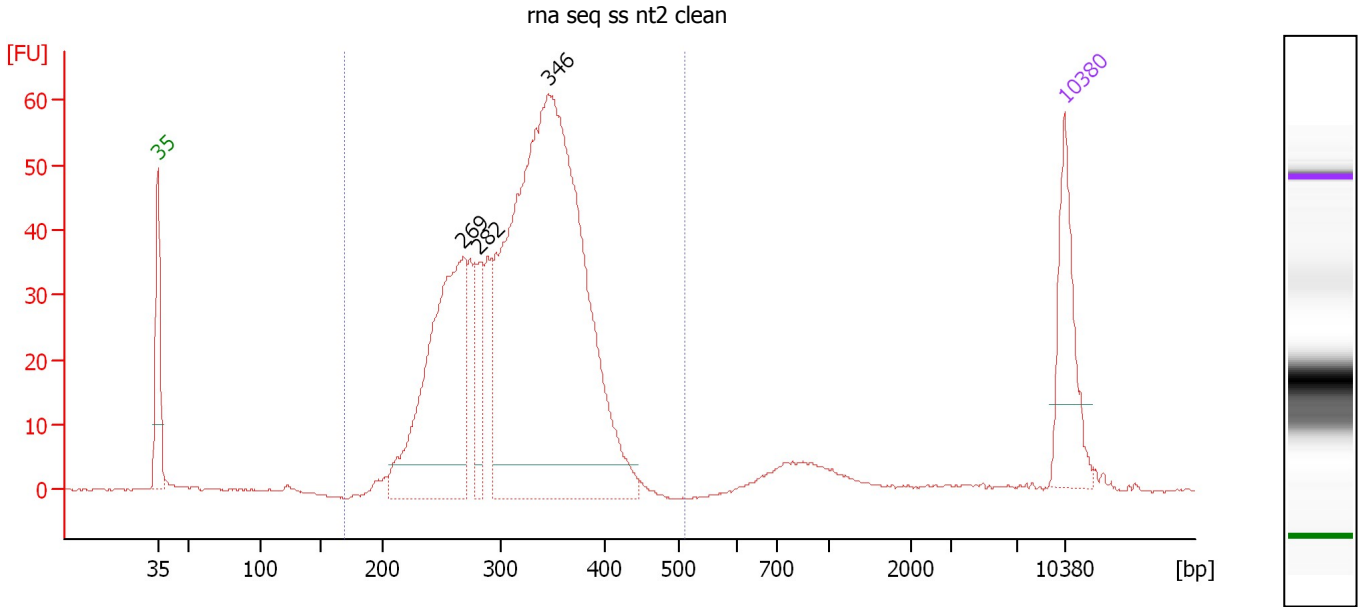
Region table for sample 7 : risb1.2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
146	1,000	332	2,197.9	424.78	90.8	65	29.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-30\2013-08-30_001.xad

Created: 8/30/2013 11:14:00 AM
 Modified: 8/30/2013 11:56:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : rna seq ss nt2 clean

Number of peaks found: 3 Corr. Area 1: 841.0
 Noise: 0.1

Peak table for sample 8 : rna seq ss nt2 clean

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	269	357.63	2,017.2	
3	282	63.27	339.8	
4	346	936.94	4,103.0	
5	10,380	75.00	10.9	Upper Marker

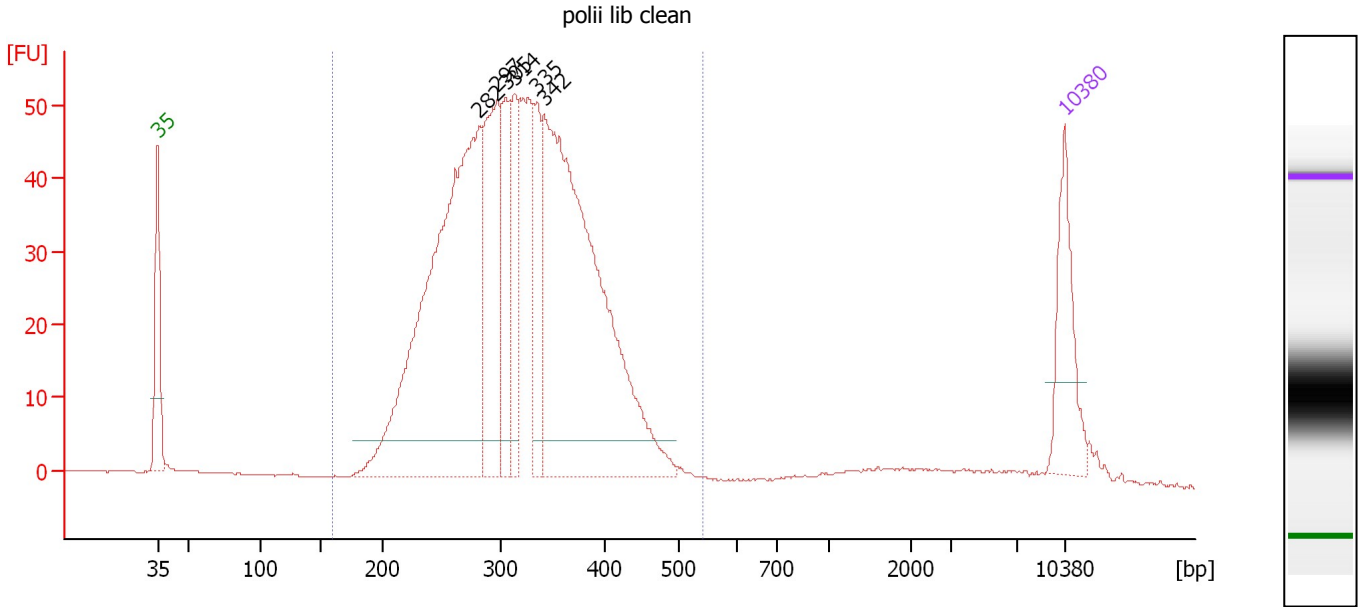
Region table for sample 8 : rna seq ss nt2 clean

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
168	513	319	7,088.2	1,442.84	841.0	95	15.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-30\2013-08-30_001.xad

Created: 8/30/2013 11:14:00 AM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : polii lib clean

Number of peaks found: 6 Corr. Area 1: 1,013.1
 Noise: 0.1

Peak table for sample 9 : polii lib clean

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	282	709.49	3,818.0	
3	297	220.04	1,121.4	
4	305	103.25	512.5	
5	314	109.89	531.0	
6	335	94.47	427.7	
7	342	672.82	2,983.4	
8	10,380	75.00	10.9	Upper Marker

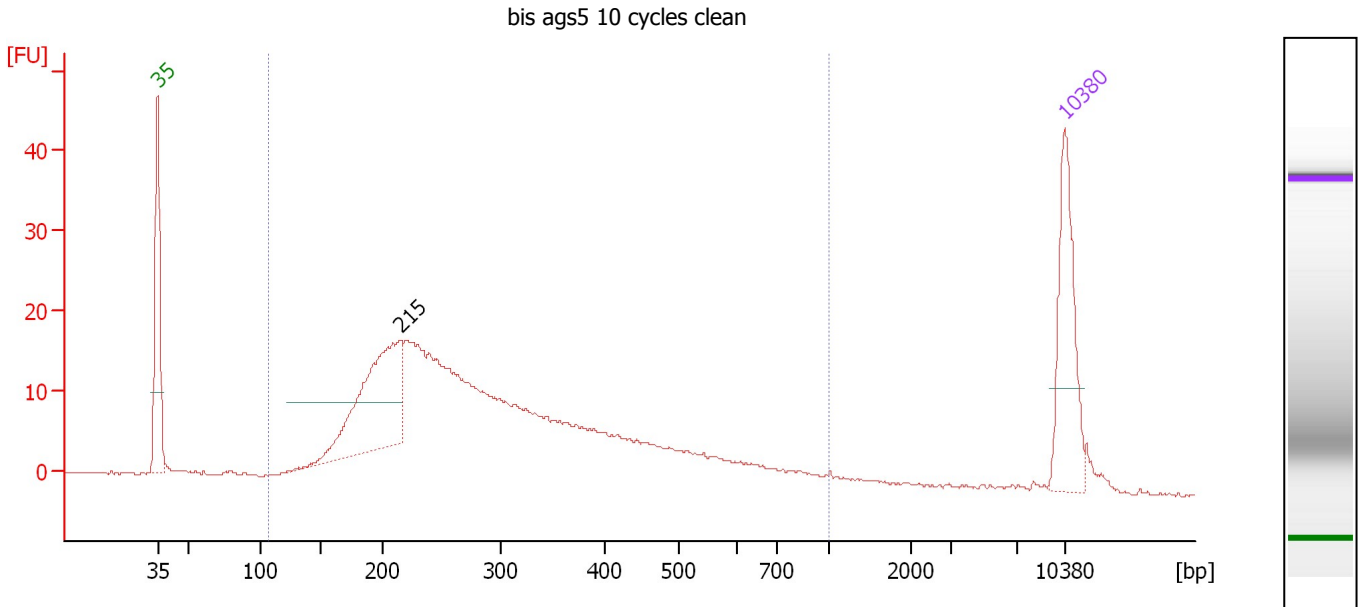
Region table for sample 9 : polii lib clean

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
159	542	319	10,588.3	2,125.56	1,013.1	93	18.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-30\2013-08-30_001.xad

Created: 8/30/2013 11:14:00 AM
 Modified: 8/30/2013 11:56:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : bis ags5 10 cycles clean

Number of peaks found: 1 Corr. Area 1: 428.5
 Noise: 0.1

Peak table for sample 10 : bis ags5 10 cycles clean

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	215	179.21	1,264.3	
3	10,380	75.00	10.9	Upper Marker

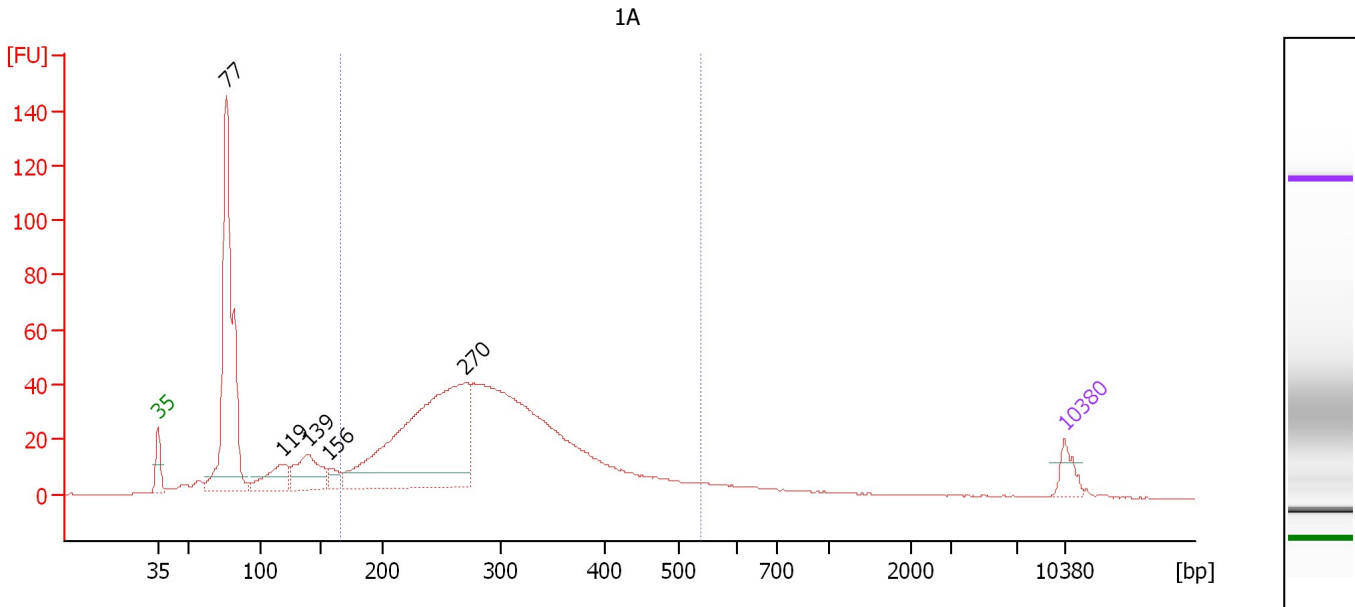
Region table for sample 10 : bis ags5 10 cycles clean

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
107	1,000	318	5,606.8	953.34	428.5	95	44.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-30\2013-08-30_001.xad

Created: 8/30/2013 11:14:00 AM
 Modified: 8/30/2013 11:56:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 1A

Number of peaks found: 5 Corr. Area 1: 866.6
 Noise: 0.1

Peak table for sample 11 : 1A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	77	1,697.28	33,504.5	
3	119	244.46	3,112.6	
4	139	326.83	3,567.3	
5	156	82.60	802.6	
6	270	1,841.54	10,340.4	
7	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : 1A

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
166	539	298	26,464.9	4,801.47	866.6	65	24.9	Blue