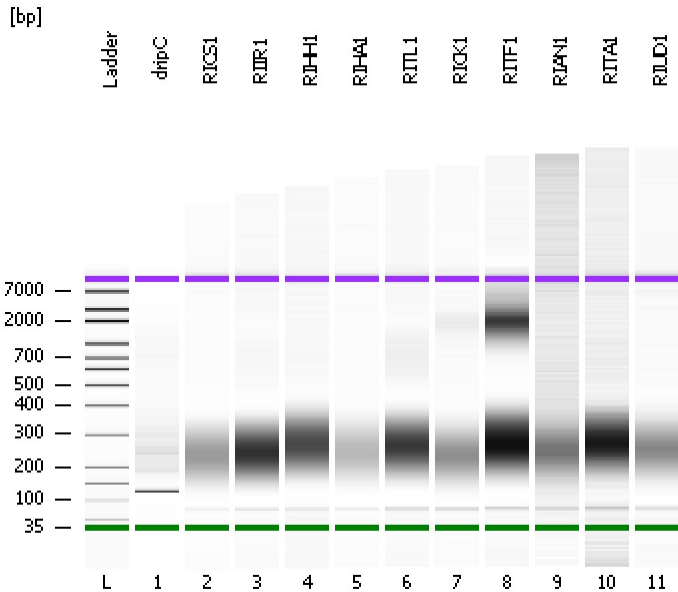


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
Modified: 5/9/2013 2:42:41 PM

Electrophoresis File Run Summary



Instrument Information:

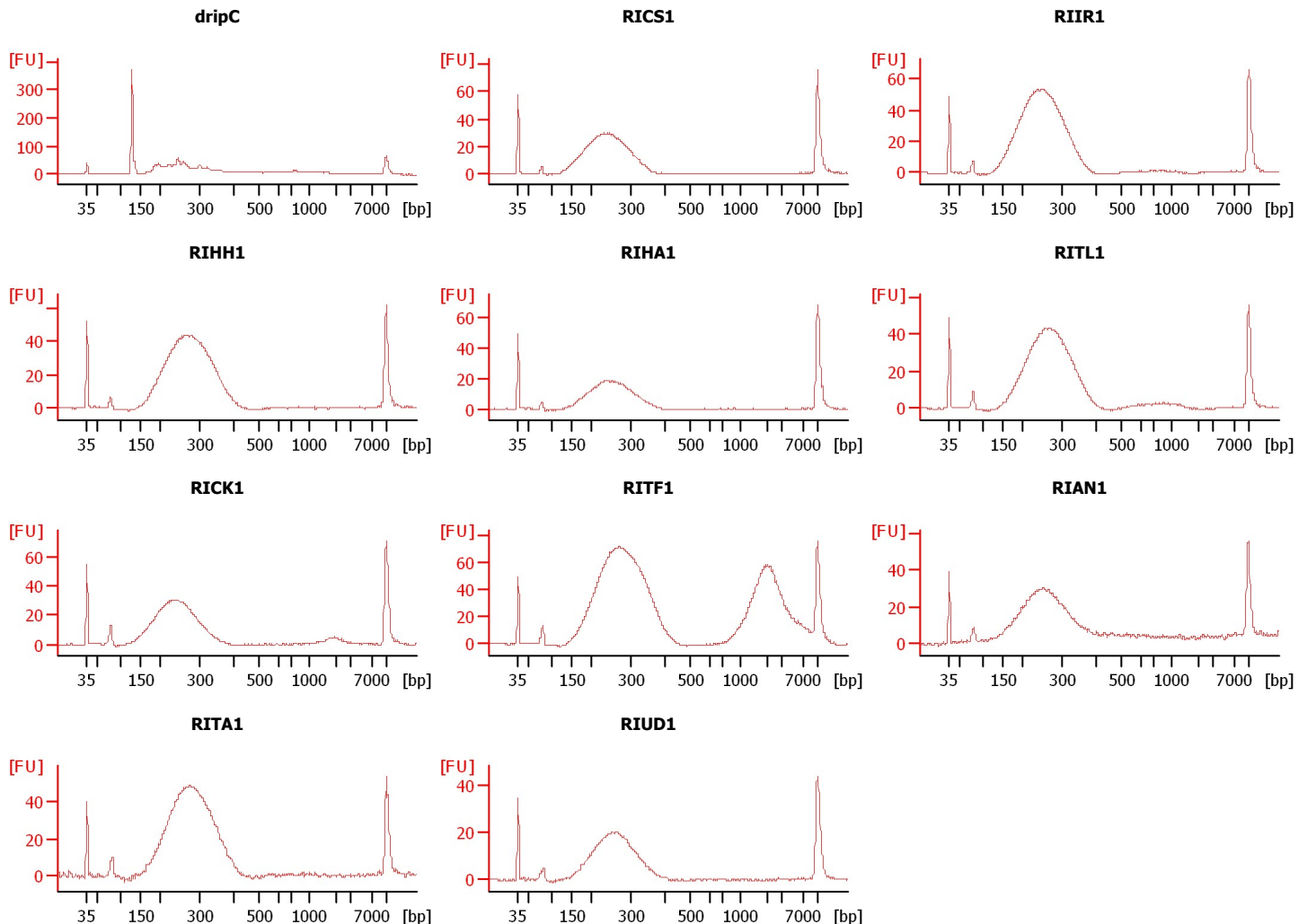
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
dripC		<input type="checkbox"/>	✓			
RICS1		<input type="checkbox"/>	✓			
RIIR1		<input type="checkbox"/>	✓			
RIHH1		<input type="checkbox"/>	✓			
RIHA1		<input type="checkbox"/>	✓			
RITL1		<input type="checkbox"/>	✓			
RICK1		<input type="checkbox"/>	✓			
RITF1		<input type="checkbox"/>	✓			
RIAN1		<input type="checkbox"/>	✓			
RITA1		<input type="checkbox"/>	✓			
RIUD1		<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\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 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

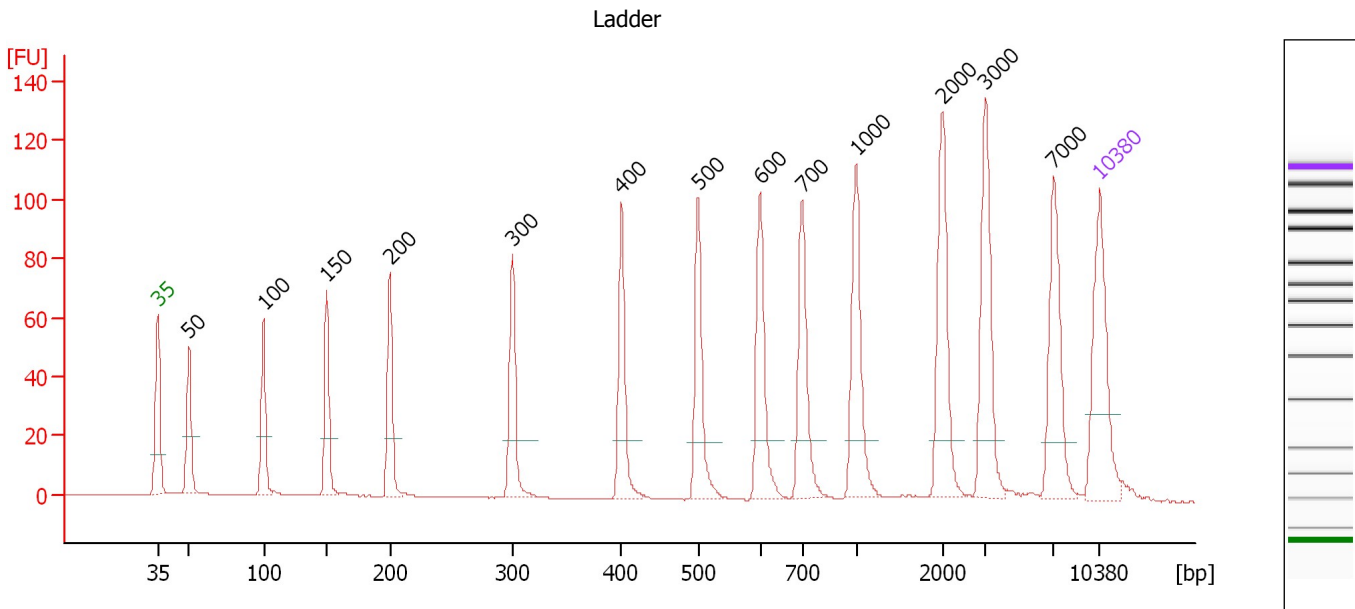
Ladder

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:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

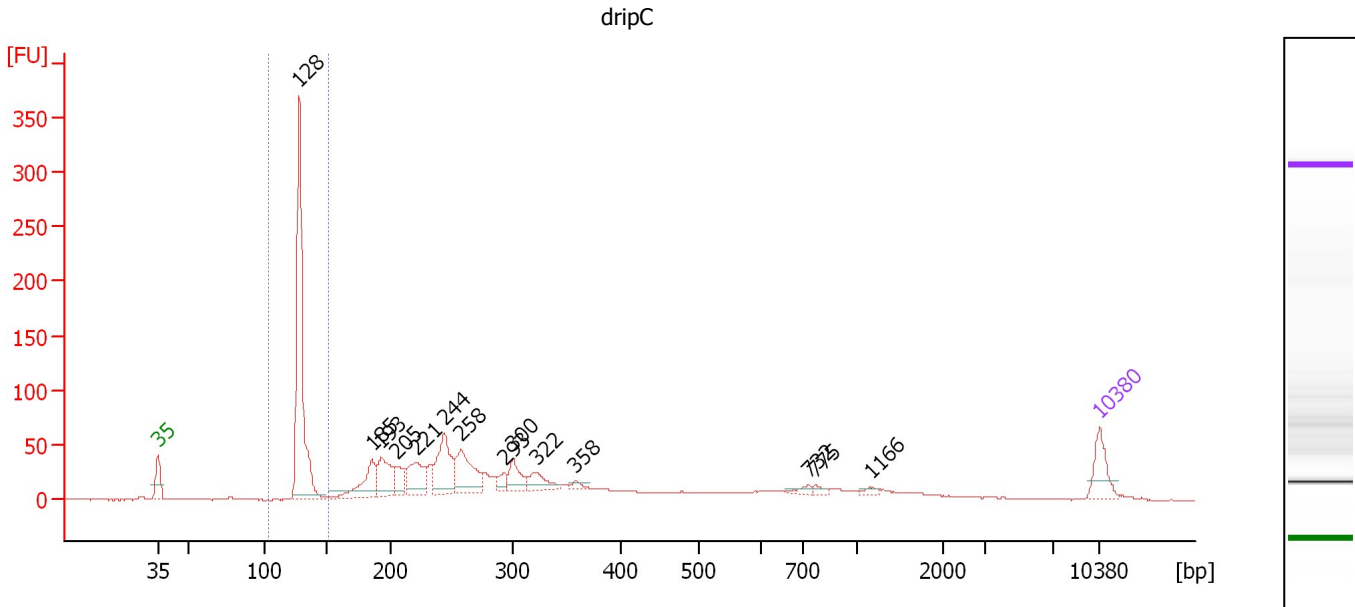
Peak table for Ladder

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:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : dripC

Number of peaks found: 14 Corr. Area 1: 355.8
 Noise: 0.2

Peak table for sample 1 : dripC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	876.40	10,371.5	
3	185	150.43	1,228.7	
4	193	153.21	1,202.1	
5	205	67.02	494.2	
6	221	141.60	969.8	
7	244	204.49	1,268.3	
8	258	192.53	1,128.7	
9	293	32.37	167.3	
10	300	81.96	413.3	
11	322	71.17	335.2	
12	358	13.77	58.4	
13	732	17.61	36.5	
14	775	13.17	25.8	
15	1,166	11.44	14.9	
16	10,380	75.00	10.9	Upper Marker

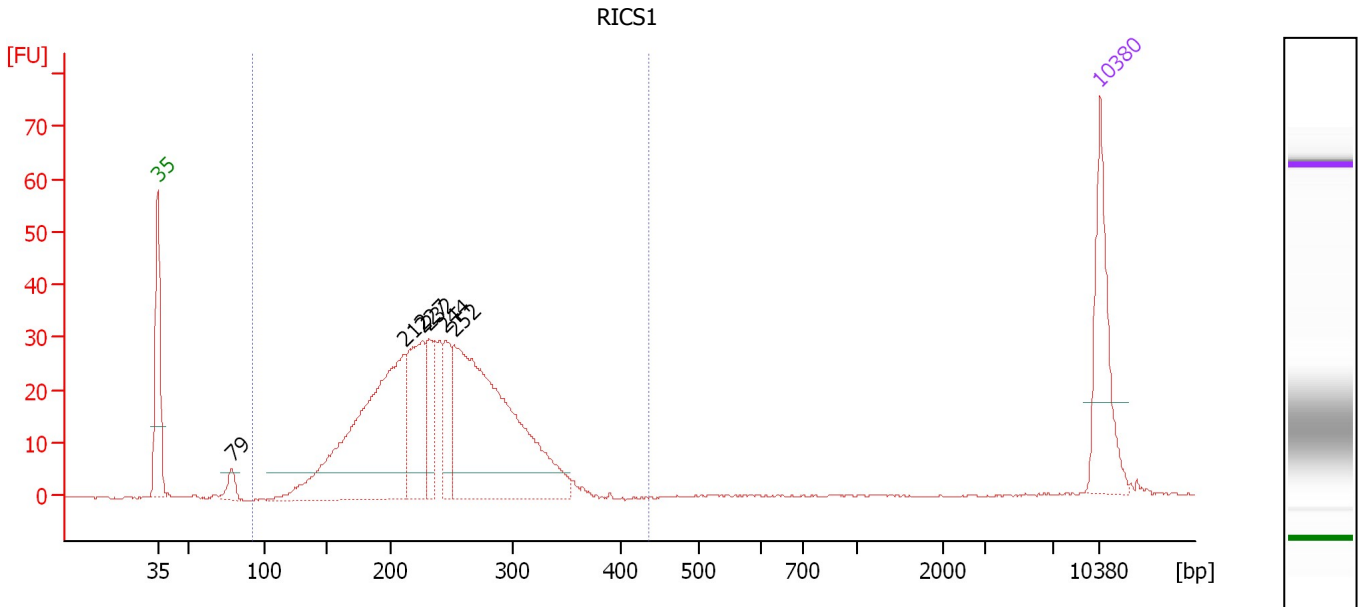
Region table for sample 1 : dripC

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
105	152	130	10,355.8	885.78	355.8	25	2.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : RICS1

Number of peaks found: 6 Corr. Area 1: 557.7
 Noise: 0.1

Peak table for sample 2 : RICS1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	19.12	367.1	
3	212	362.76	2,593.4	
4	227	125.20	836.2	
5	232	59.76	390.9	
6	244	56.93	352.9	
7	252	404.61	2,428.4	
8	10,380	75.00	10.9	Upper Marker

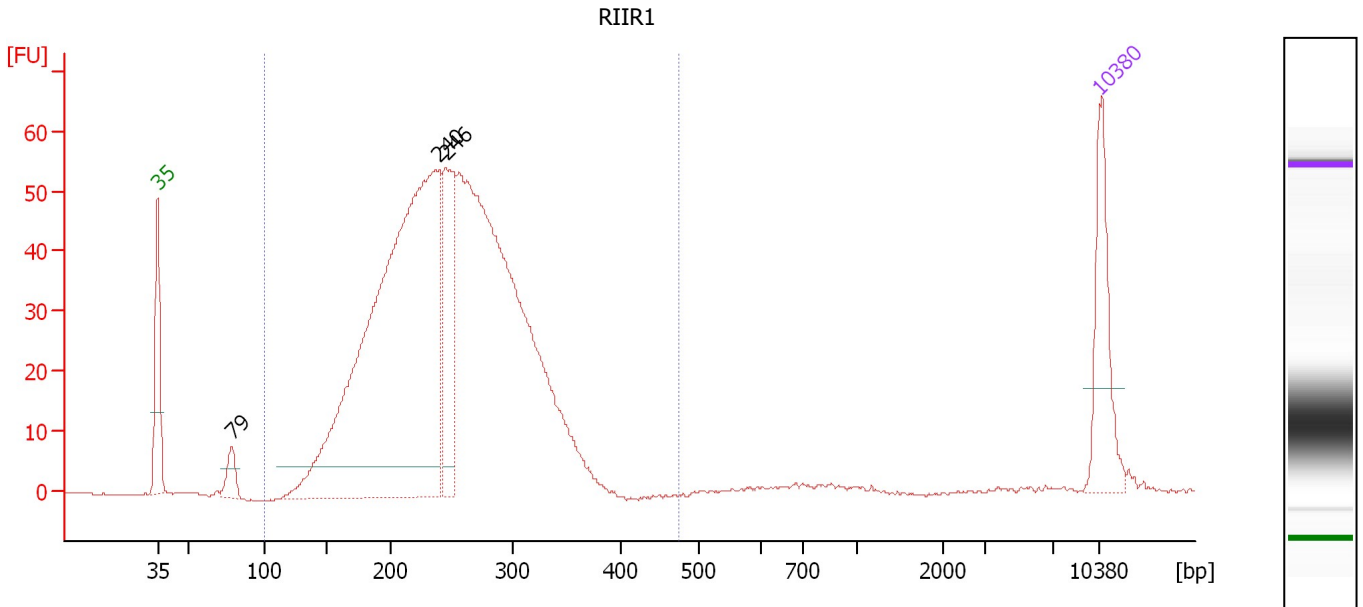
Region table for sample 2 : RICS1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
92	436	240	6,838.2	1,021.11	557.7	98	20.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : RIIR1

Number of peaks found: 3 Corr. Area 1: 1,017.6
 Noise: 0.1

Peak table for sample 3 : RIIR1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	31.03	596.5	
3	240	961.94	6,061.7	
4	246	145.93	899.2	
5	10,380	75.00	10.9	Upper Marker

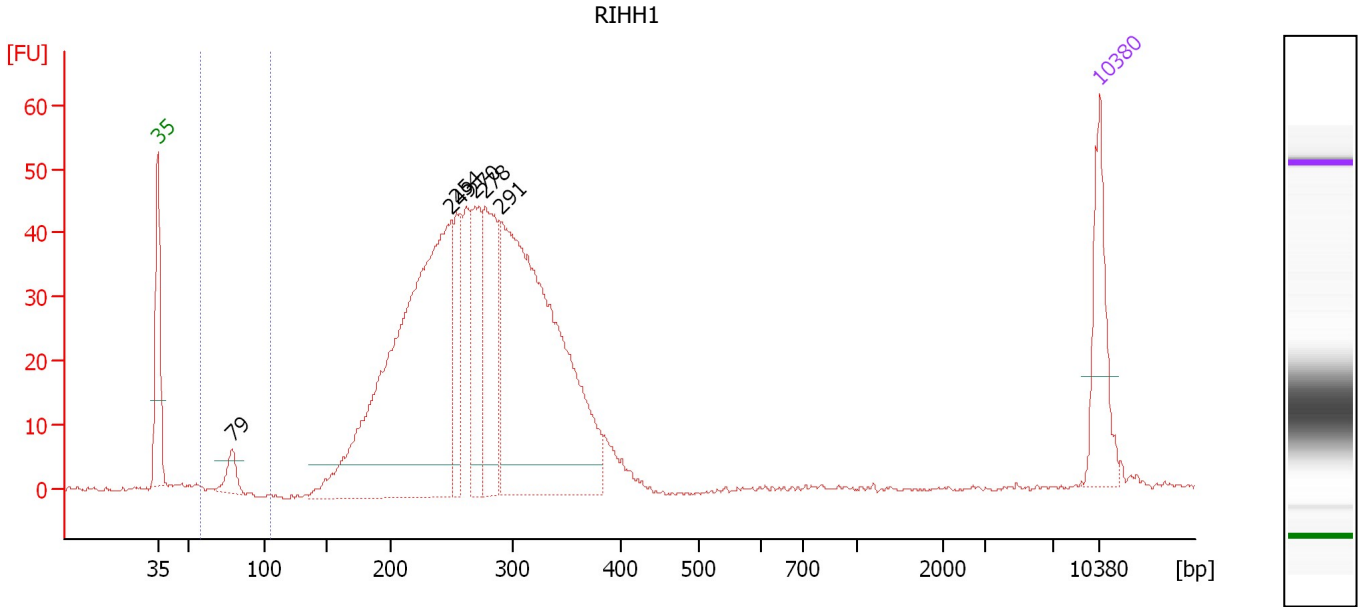
Region table for sample 3 : RIIR1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
101	475	248	12,784.6	1,982.56	1,017.6	98	20.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : RIHH1

Number of peaks found: 6 Corr. Area 1: 8.6
 Noise: 0.4

Peak table for sample 4 : RIHH1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	32.09	613.1	
3	249	714.27	4,342.4	
4	254	96.72	576.4	
5	270	110.32	619.5	
6	278	169.89	927.2	
7	291	648.75	3,378.2	
8	10,380	75.00	10.9	Upper Marker

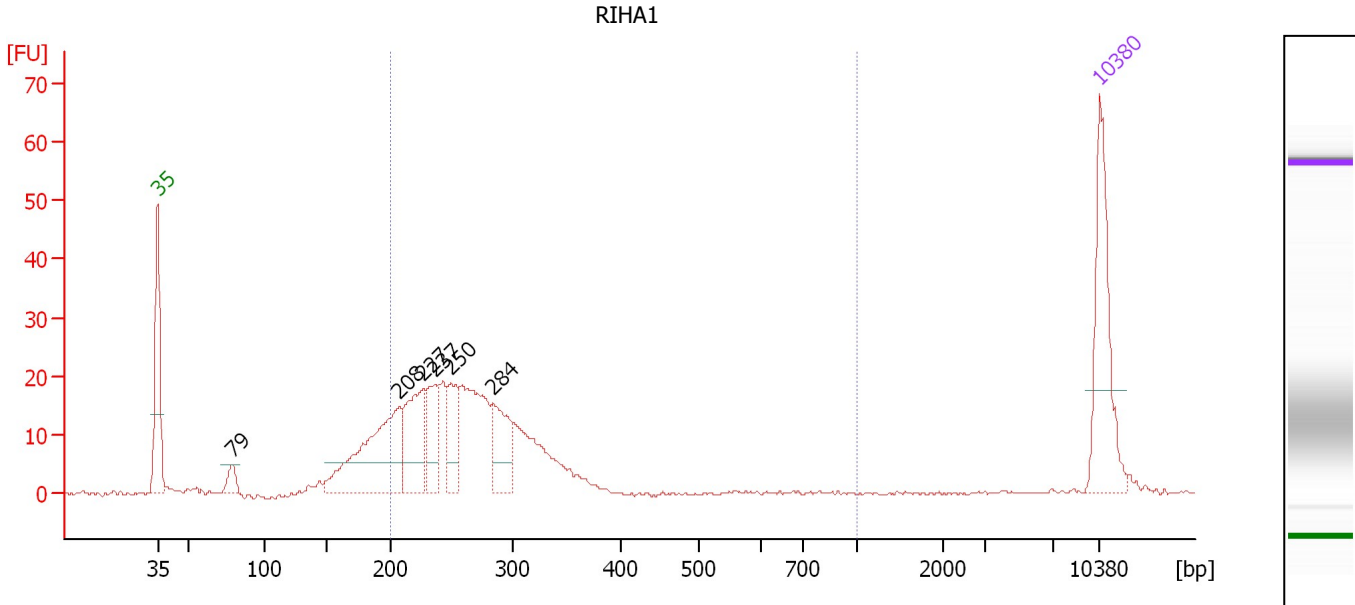
Region table for sample 4 : RIHH1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
58	105	78	452.1	23.36	8.6	1	3.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : RIHA1

Number of peaks found: 6 Corr. Area 1: 283.6
 Noise: 0.2

Peak table for sample 5 : RIHA1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	16.55	318.5	
3	208	152.37	1,110.8	
4	227	81.88	546.4	
5	237	41.68	266.8	
6	250	43.18	261.4	
7	284	55.81	298.1	
8	10,380	75.00	10.9	Upper Marker

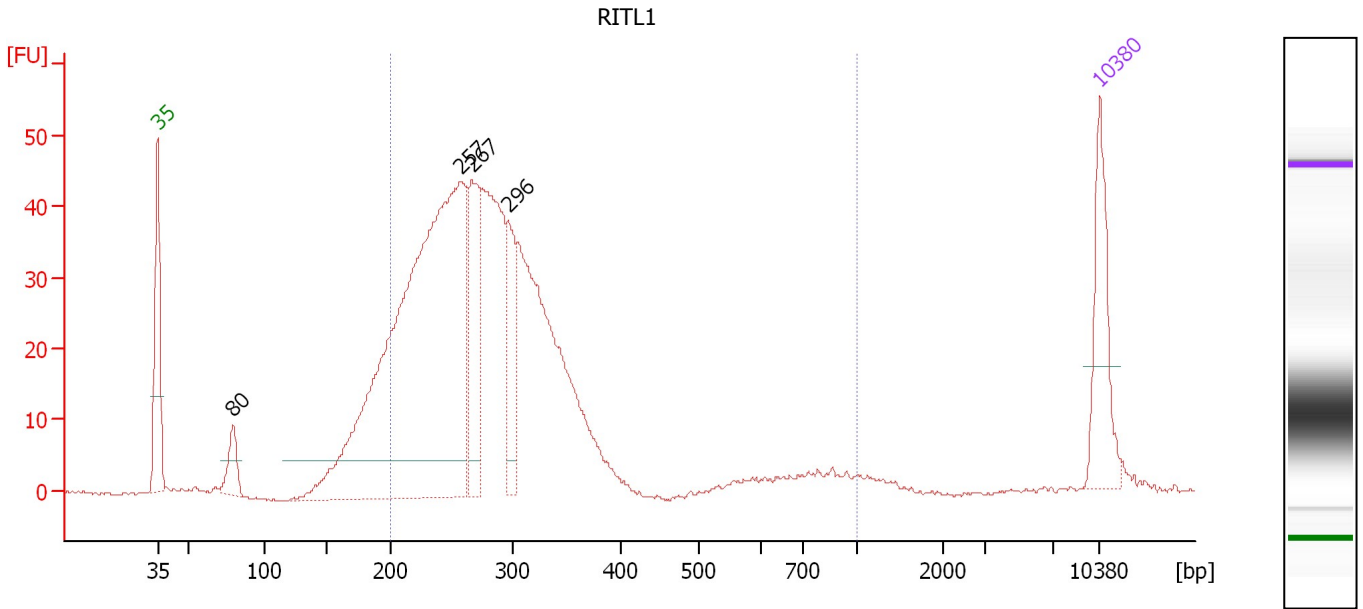
Region table for sample 5 : RIHA1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	267	3,045.6	523.68	283.6	78	19.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : RITL1

Number of peaks found: 4 Corr. Area 1: 729.3
 Noise: 0.2

Peak table for sample 6 : RITL1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	80	44.00	836.6	
3	257	929.05	5,472.0	
4	267	149.21	846.6	
5	296	80.68	412.3	
6	10,380	75.00	10.9	Upper Marker

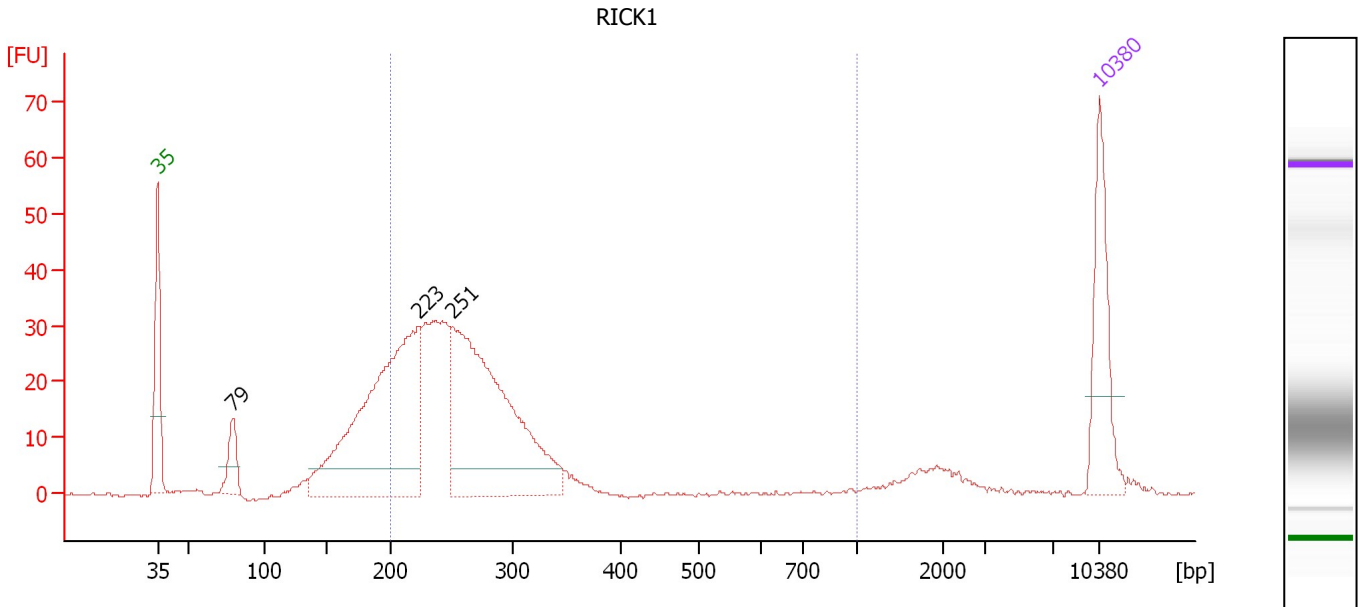
Region table for sample 6 : RITL1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	294	9,173.0	1,657.19	729.3	86	34.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : RICK1

Number of peaks found: 3 Corr. Area 1: 417.4
 Noise: 0.3

Peak table for sample 7 : RICK1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	42.16	804.6	
3	223	406.75	2,763.0	
4	251	390.83	2,363.9	
5	10,380	75.00	10.9	Upper Marker

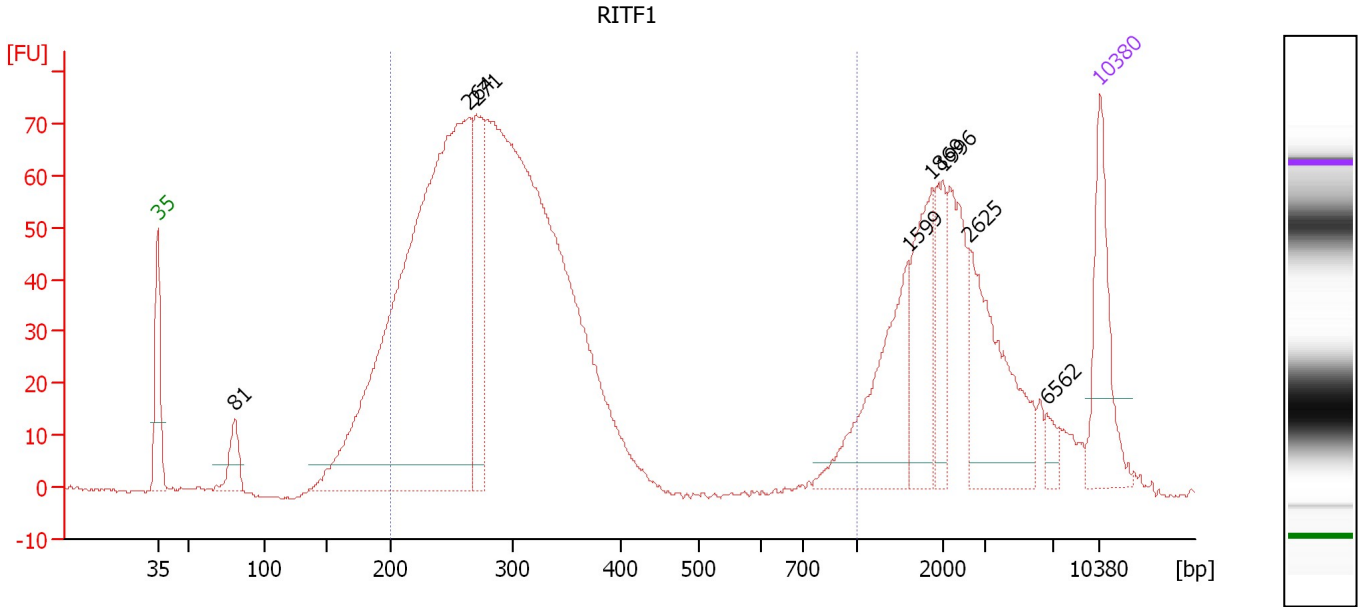
Region table for sample 7 : RICK1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	260	4,427.9	743.19	417.4	70	19.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : RITF1

Number of peaks found: 8 Corr. Area 1: 1,300.0
 Noise: 0.4

Peak table for sample 8 : RITF1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	42.53	795.4	
3	264	943.65	5,410.1	
4	271	125.33	701.1	
5	1,599	125.42	118.8	
6	1,869	85.93	69.6	
7	1,996	51.47	39.1	
8	2,625	122.38	70.6	
9	6,562	11.00	2.5	
10	10,380	75.00	10.9	Upper Marker

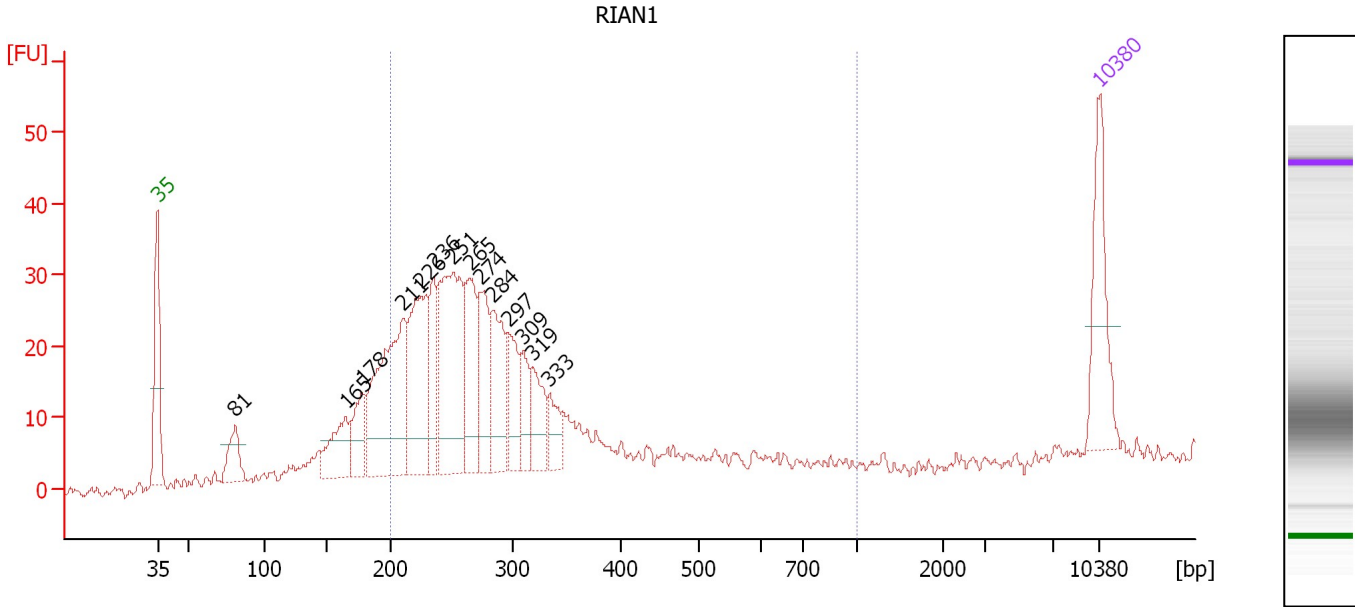
Region table for sample 8 : RITF1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	300	10,209.2	1,882.50	1,300.0	66	35.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : RIAN1

Number of peaks found: 14 Corr. Area 1: 415.4
 Noise: 0.9

Peak table for sample 9 : RIAN1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	45.94	857.4	
3	165	67.81	623.1	
4	178	57.42	489.6	
5	211	231.30	1,664.5	
6	226	157.88	1,060.7	
7	236	78.36	503.7	
8	251	210.75	1,270.7	
9	265	101.38	579.5	
10	274	81.43	450.2	
11	284	90.57	482.8	
12	297	57.41	293.1	
13	309	42.63	208.9	
14	319	51.88	246.7	
15	333	31.38	142.6	
16	10,380	75.00	10.9	Upper Marker

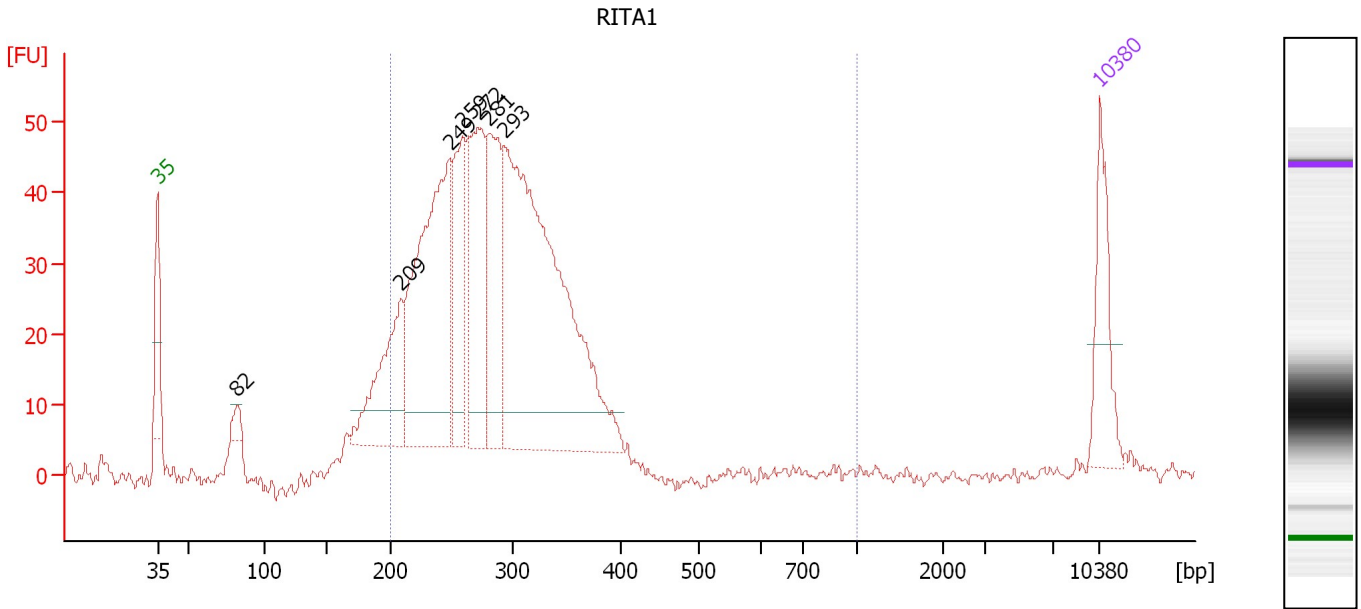
Region table for sample 9 : RIAN1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	273	6,344.5	1,106.69	415.4	80	19.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : RITA1

Number of peaks found: 7 Corr. Area 1: 722.2
 Noise: 1.0

Peak table for sample 10 : RITA1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	82	20.13	371.1	
3	209	178.36	1,292.9	
4	249	427.82	2,606.0	
5	259	161.89	946.6	
6	272	229.48	1,278.5	
7	281	185.28	998.6	
8	293	719.80	3,717.7	
9	10,380	75.00	10.9	Upper Marker

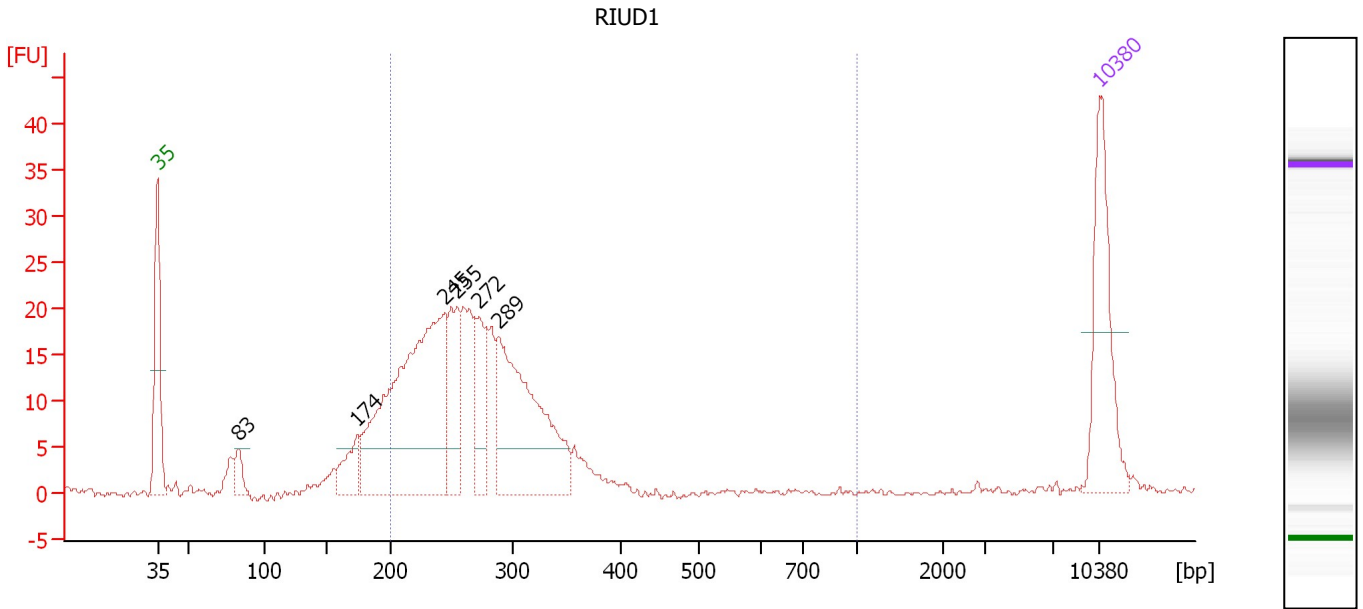
Region table for sample 10 : RITA1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	284	10,164.7	1,854.06	722.2	94	16.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
 Modified: 5/9/2013 2:42:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : RIUD1

Number of peaks found: 6 Corr. Area 1: 292.4
 Noise: 0.2

Peak table for sample 11 : RIUD1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	83	17.76	324.1	
3	174	34.44	299.8	
4	245	323.67	2,005.4	
5	255	64.66	384.2	
6	272	54.63	304.1	
7	289	196.73	1,032.2	
8	10,380	75.00	10.9	Upper Marker

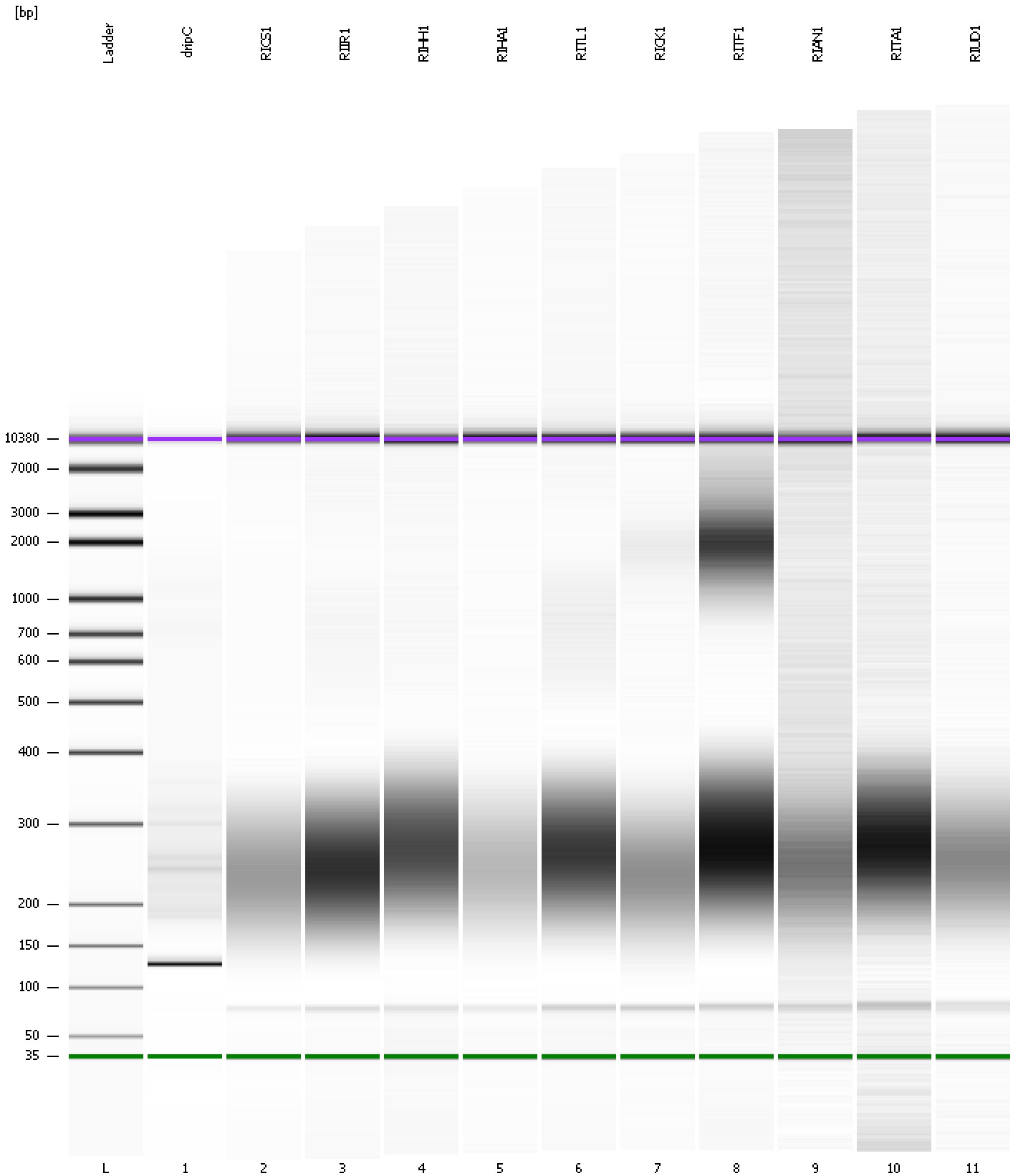
Region table for sample 11 : RIUD1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	272	4,071.5	711.53	292.4	82	18.2	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad

Created: 5/9/2013 2:00:35 PM
Modified: 5/9/2013 2:42:41 PM

Gel Image



Assay Class: High Sensitivity DNA Assay Created: 5/9/2013 2:00:35 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad Modified: 5/9/2013 2:42:41 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		5/9/2013 2:41:54 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-09\2013-05-09_002.xad)		Instrument	Run		5/9/2013 2:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/9/2013 2:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/9/2013 2:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/9/2013 2:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/9/2013 2:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/9/2013 2:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/9/2013 2:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1