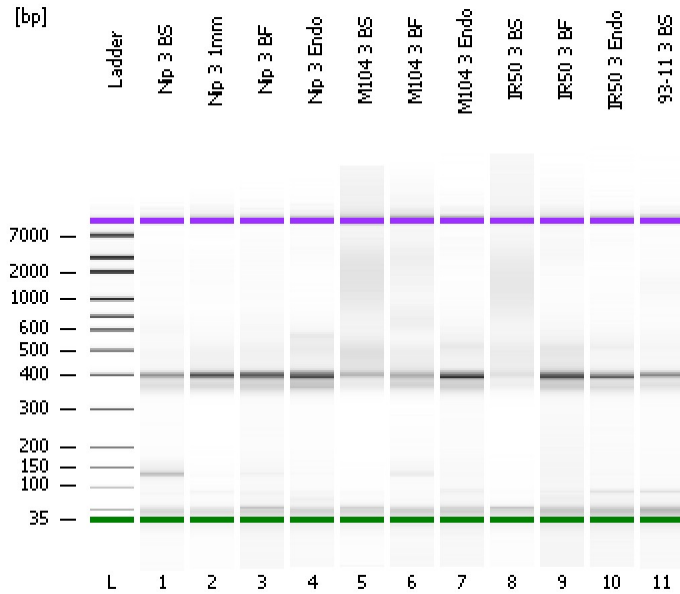


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
Modified: 5/31/2013 2:12:19 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

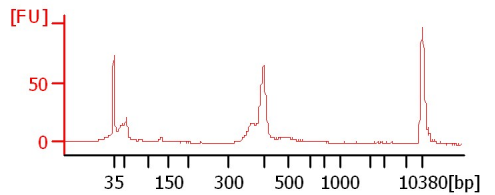
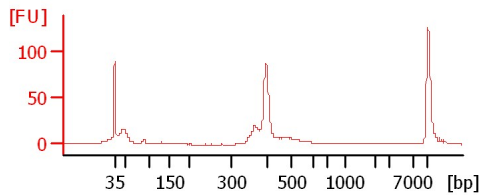
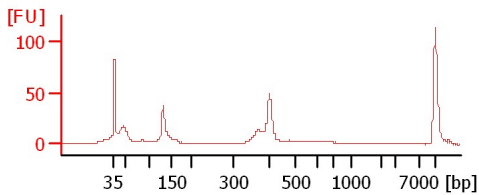
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

Nip 3 BS

Nip 3 1mm

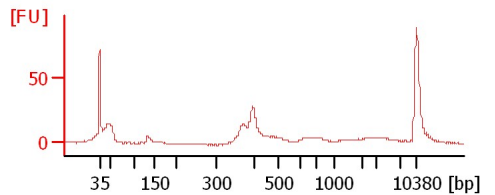
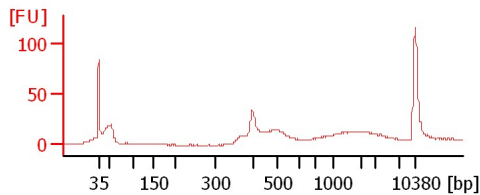
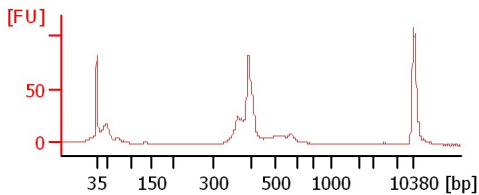
Nip 3 BF



Nip 3 Endo

M104 3 BS

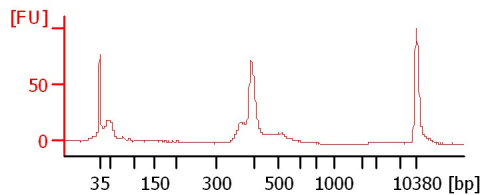
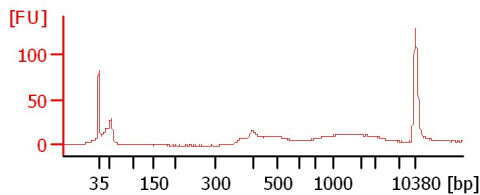
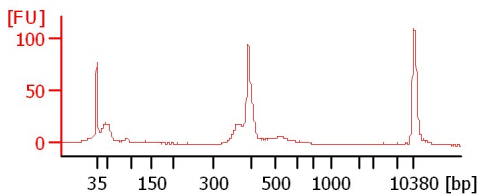
M104 3 BF



M104 3 Endo

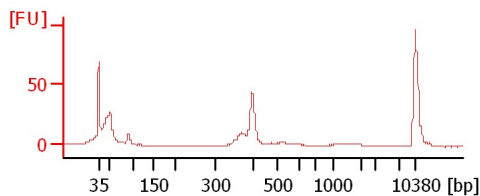
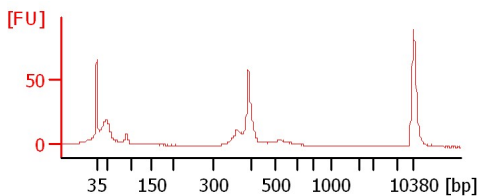
IR50 3 BS

IR50 3 BF



IR50 3 Endo

93-11 3 BS



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Nip 3 BS		<input type="checkbox"/>	✓			
Nip 3 1mm		<input type="checkbox"/>	✓			
Nip 3 BF		<input type="checkbox"/>	✓			
Nip 3 Endo		<input type="checkbox"/>	✓			
M104 3 BS		<input type="checkbox"/>	✓			
M104 3 BF		<input type="checkbox"/>	✓			
M104 3 Endo		<input type="checkbox"/>	✓			
IR50 3 BS		<input type="checkbox"/>	✓			
IR50 3 BF		<input type="checkbox"/>	✓			
IR50 3 Endo		<input type="checkbox"/>	✓			
93-11 3 BS		<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\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
Modified: 5/31/2013 2:12:19 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

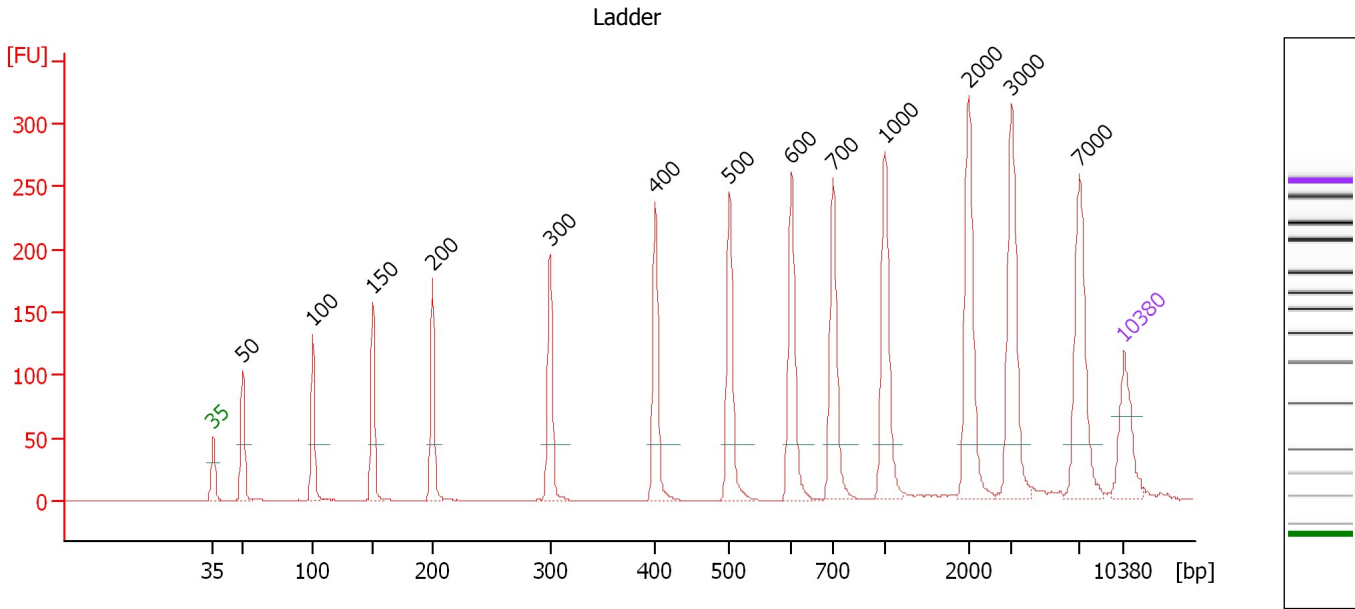
Ladder

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\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

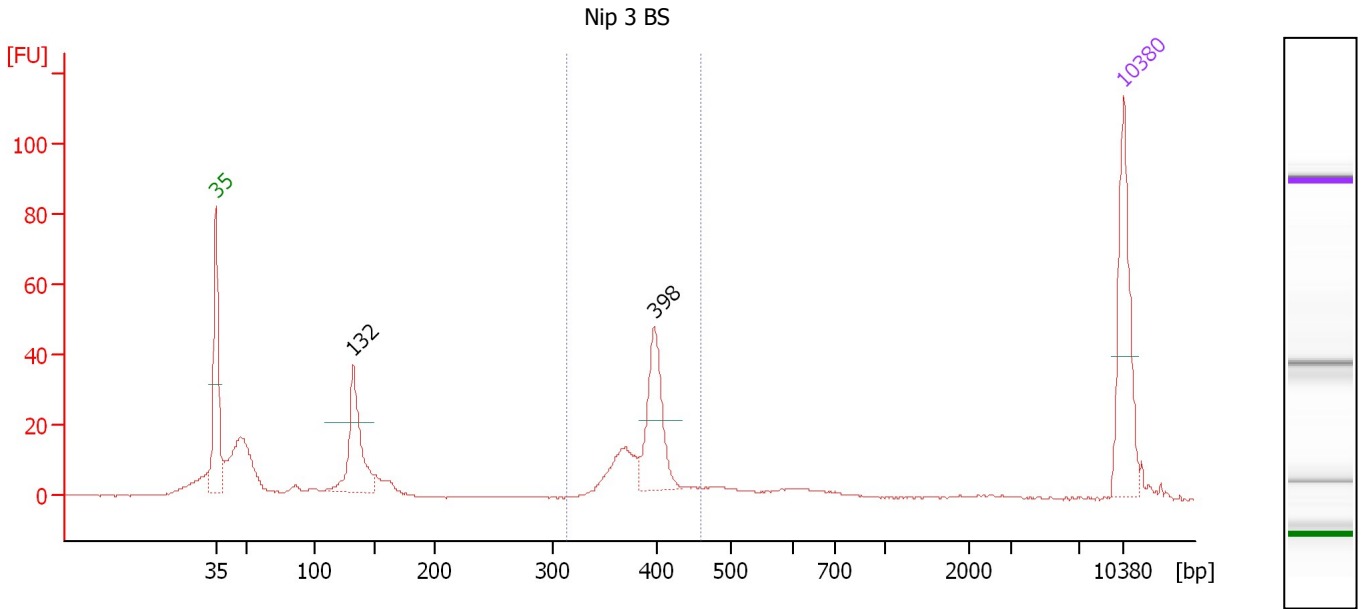
Peak table for Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : Nip 3 BS

Height Threshold [FU] : 20

Overall Results for sample 1 : Nip 3 BS

Number of peaks found: 2 Corr. Area 1: 154.1
 Noise: 0.2

Peak table for sample 1 : Nip 3 BS

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	132	107.09	1,231.5	
3	398	85.70	326.1	
4	10,380	75.00	10.9	Upper Marker

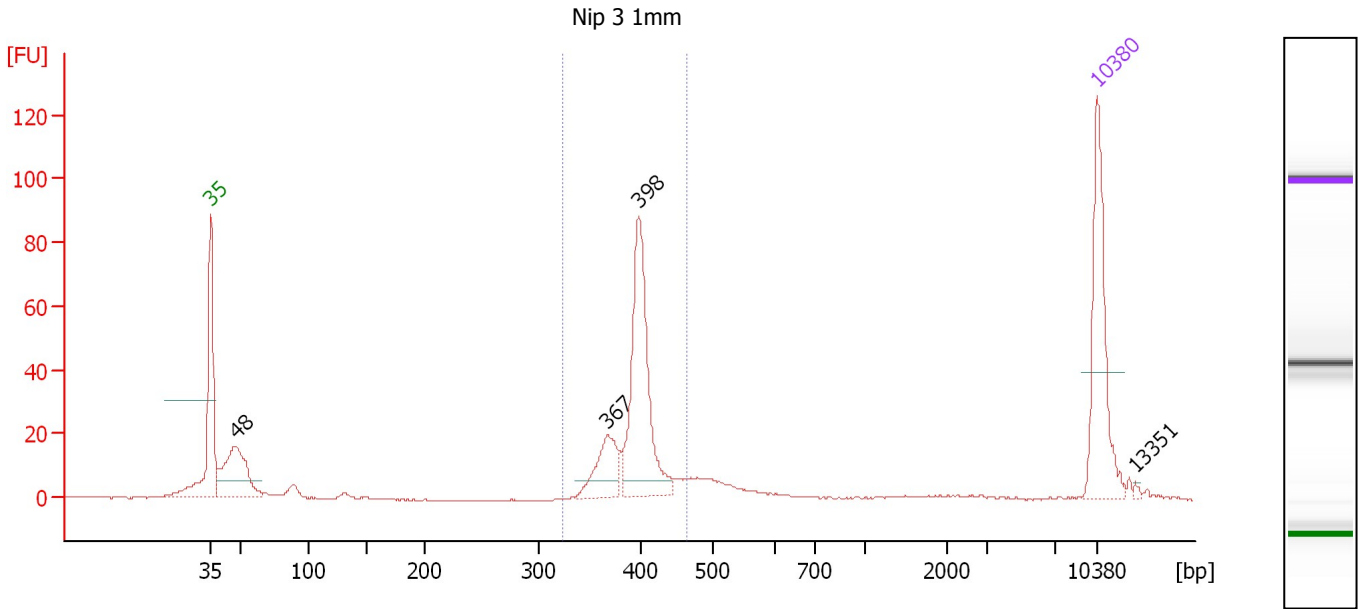
Region table for sample 1 : Nip 3 BS

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
314	460	390	619.1	159.08	154.1	34	6.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Nip 3 1mm

Number of peaks found: 4 Corr. Area 1: 253.9
 Noise: 0.2

Peak table for sample 2 : Nip 3 1mm

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	102.55	3,241.4	
3	367	46.48	192.0	
4	398	149.98	570.9	
5	10,380	75.00	10.9	Upper Marker
6	13,351	0.00	0.0	

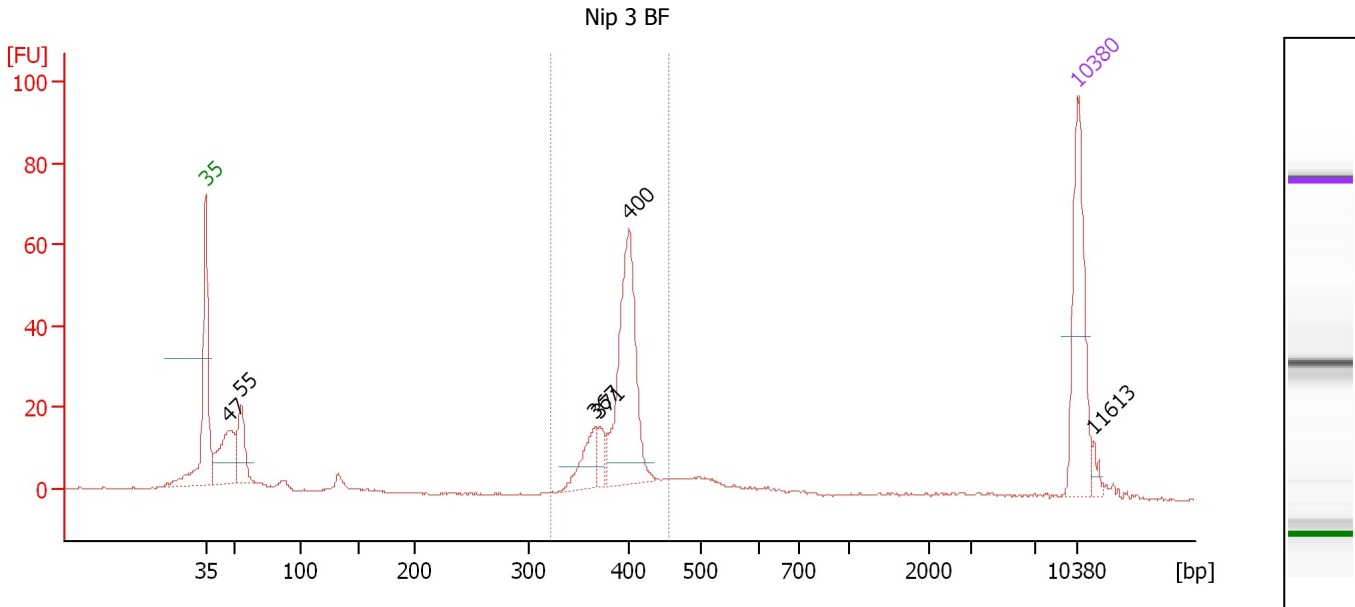
Region table for sample 2 : Nip 3 1mm

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
324	464	396	822.9	214.29	253.9	61	5.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Nip 3 BF

Number of peaks found: 6 Corr. Area 1: 209.0
 Noise: 0.2

Peak table for sample 3 : Nip 3 BF

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	79.01	2,530.7	
3	55	50.06	1,370.9	
4	367	32.06	132.5	
5	371	15.72	64.2	
6	400	151.37	573.4	
7	10,380	75.00	10.9	Upper Marker
8	11,613	0.00	0.0	

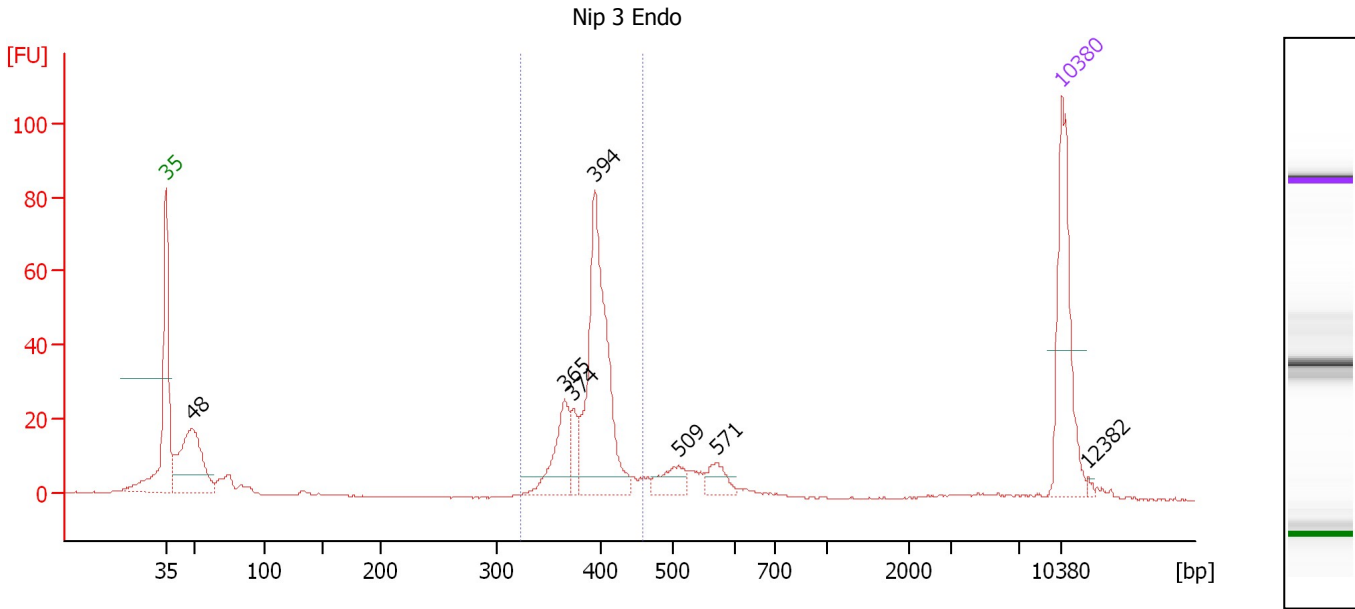
Region table for sample 3 : Nip 3 BF

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
322	455	392	906.8	233.92	209.0	52	5.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Nip 3 Endo

Number of peaks found: 7 Corr. Area 1: 269.6
 Noise: 0.2

Peak table for sample 4 : Nip 3 Endo

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	121.87	3,833.4	
3	365	49.94	207.3	
4	374	18.72	75.9	
5	394	178.12	684.5	
6	509	20.93	62.4	
7	571	16.68	44.3	
8	10,380	75.00	10.9	Upper Marker
9	12,382	0.00	0.0	

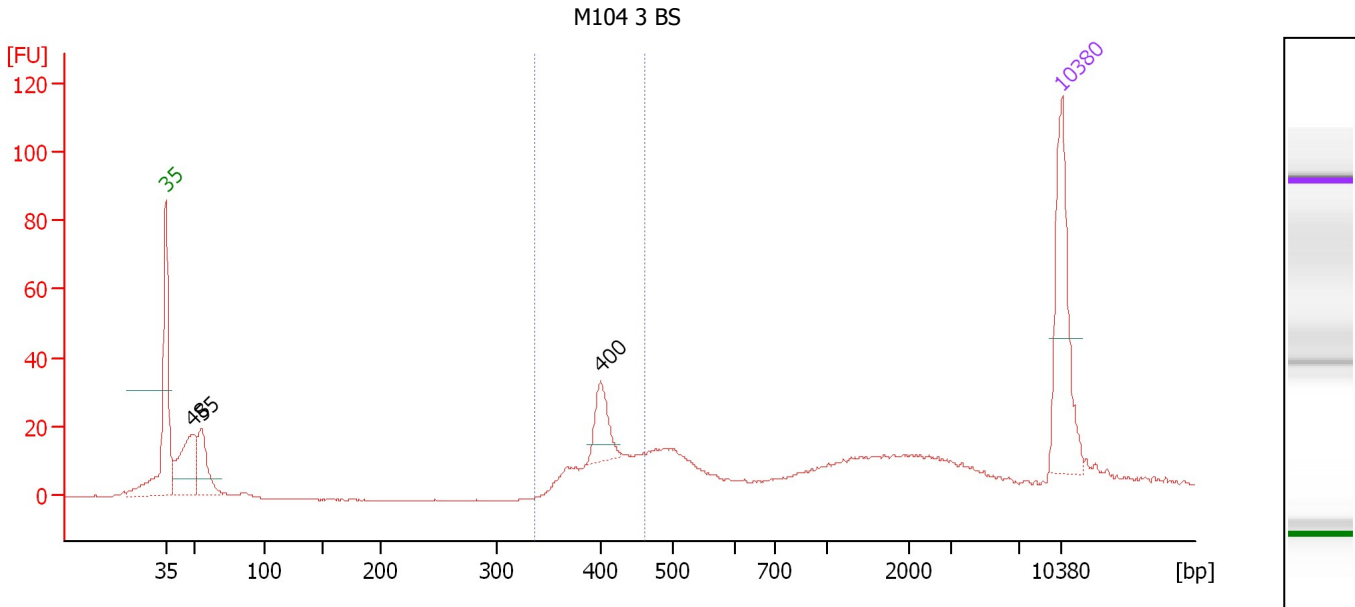
Region table for sample 4 : Nip 3 Endo

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
322	459	392	1,001.6	258.23	269.6	58	5.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : M104 3 BS

Number of peaks found: 3 Corr. Area 1: 119.8
 Noise: 0.2

Peak table for sample 5 : M104 3 BS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	89.67	2,809.4	
3	55	54.08	1,497.8	
4	400	36.54	138.5	
5	10,380	75.00	10.9	Upper Marker

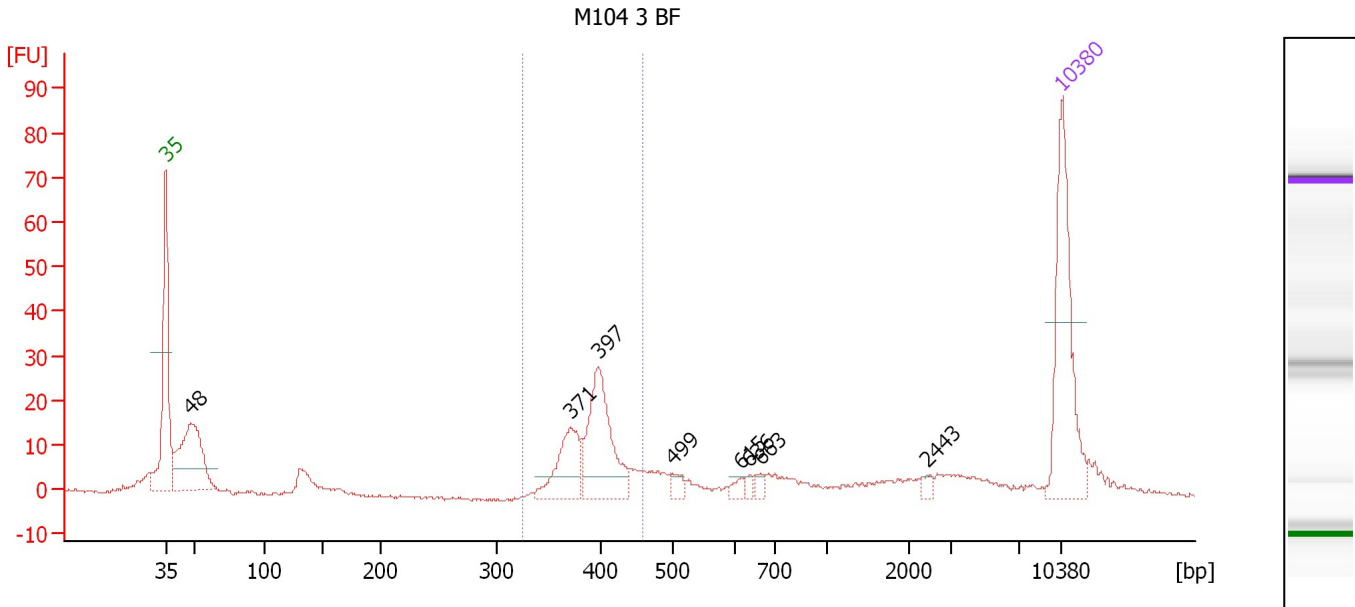
Region table for sample 5 : M104 3 BS

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
336	461	407	419.0	112.19	119.8	25	6.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : M104 3 BF

Number of peaks found: 8 Corr. Area 1: 127.2
 Noise: 0.3

Peak table for sample 6 : M104 3 BF

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	107.05	3,384.1	
3	371	45.35	185.4	
4	397	80.67	307.6	
5	499	6.96	21.1	
6	615	4.97	12.2	
7	636	3.20	7.6	
8	663	4.45	10.2	
9	2,443	3.71	2.3	
10	10,380	75.00	10.9	Upper Marker

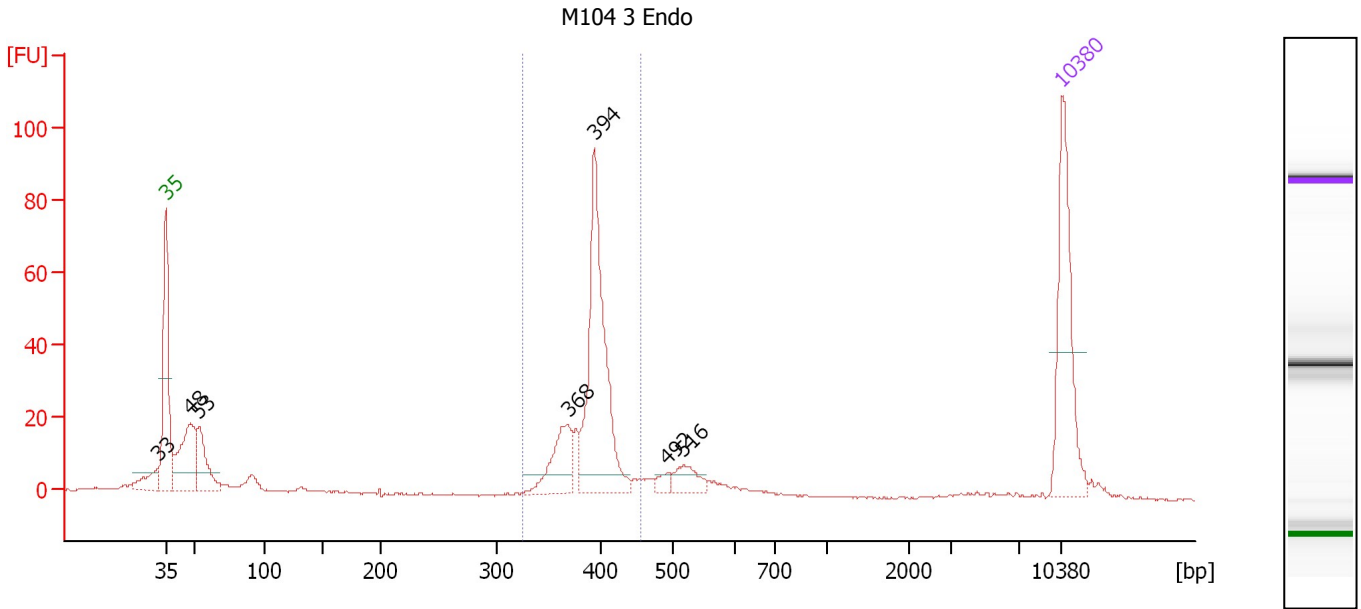
Region table for sample 6 : M104 3 BF

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
325	458	395	492.0	127.65	127.2	34	6.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : M104 3 Endo

Number of peaks found: 7 Corr. Area 1: 245.0
 Noise: 0.2

Peak table for sample 7 : M104 3 Endo

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	83.12	2,634.8	
4	53	50.27	1,442.5	
5	368	47.09	193.7	
6	394	165.60	637.2	
7	492	7.16	22.0	
8	516	17.74	52.1	
9	10,380	75.00	10.9	Upper Marker

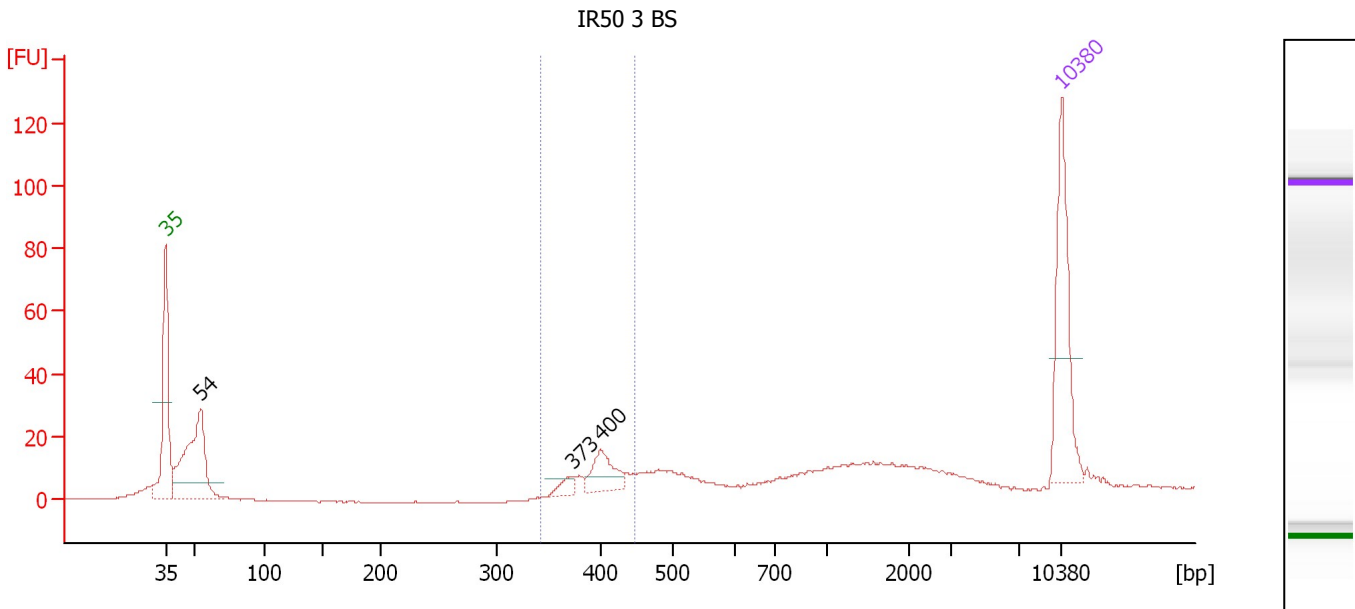
Region table for sample 7 : M104 3 Endo

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
324	454	391	883.3	227.63	245.0	54	5.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : IR50 3 BS

Number of peaks found: 3 Corr. Area 1: 64.5
 Noise: 0.1

Peak table for sample 8 : IR50 3 BS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	150.88	4,251.9	
3	373	10.64	43.2	
4	400	32.29	122.2	
5	10,380	75.00	10.9	Upper Marker

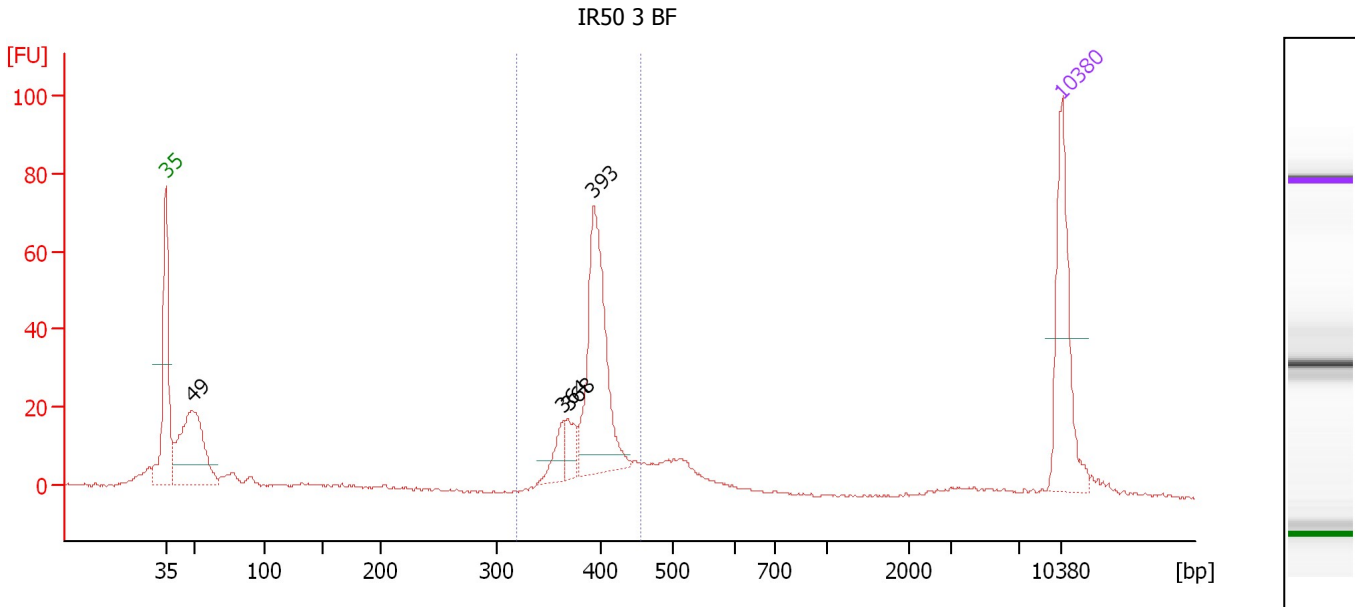
Region table for sample 8 : IR50 3 BS

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
342	446	401	225.3	59.39	64.5	15	5.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : IR50 3 BF

Number of peaks found: 4 Corr. Area 1: 238.0
 Noise: 0.4

Peak table for sample 9 : IR50 3 BF

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	144.96	4,498.2	
3	364	21.18	88.2	
4	368	21.35	87.8	
5	393	154.95	596.9	
6	10,380	75.00	10.9	Upper Marker

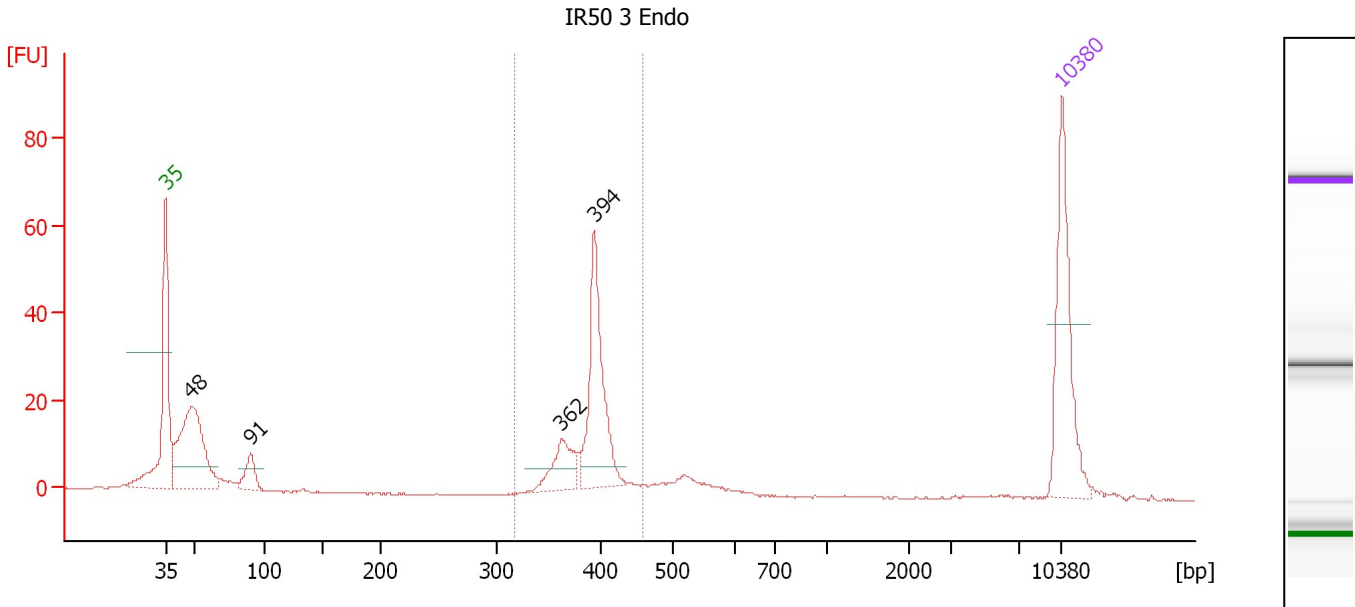
Region table for sample 9 : IR50 3 BF

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
320	455	394	934.6	242.27	238.0	52	5.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : IR50 3 Endo

Number of peaks found: 4 Corr. Area 1: 139.6
 Noise: 0.2

Peak table for sample 10 : IR50 3 Endo

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	154.34	4,865.5	
3	91	24.88	416.3	
4	362	35.39	148.1	
5	394	102.53	394.6	
6	10,380	75.00	10.9	Upper Marker

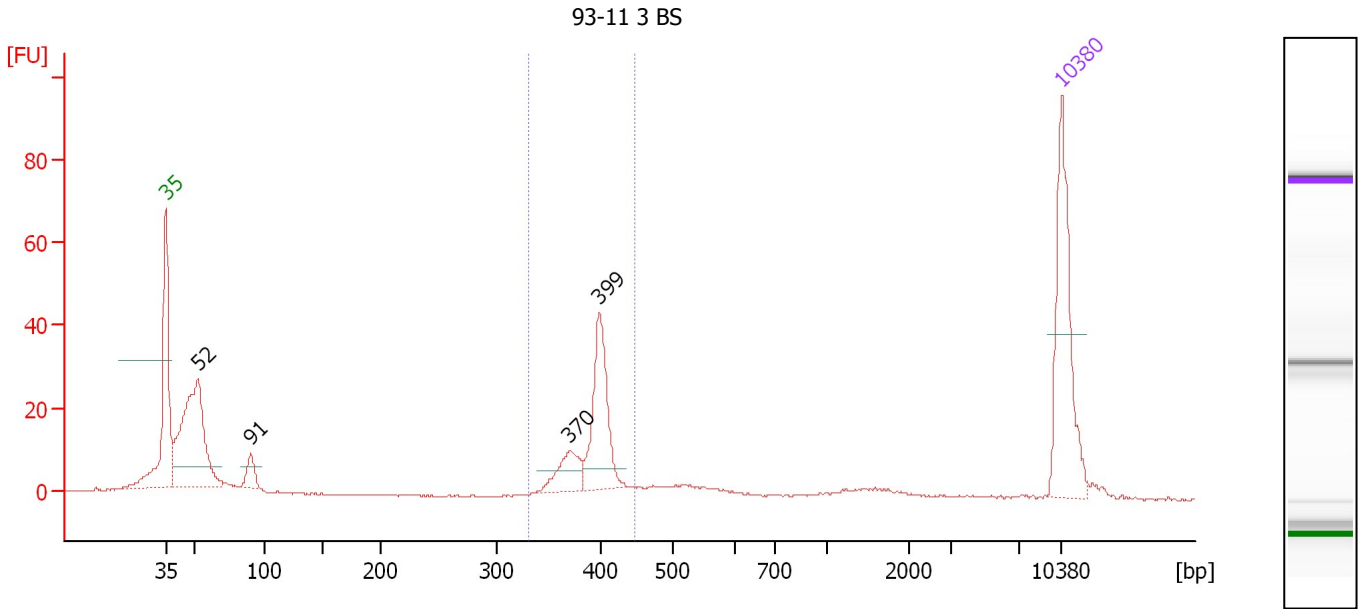
Region table for sample 10 : IR50 3 Endo

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
317	459	391	606.6	156.14	139.6	48	5.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 93-11 3 BS

Number of peaks found: 4 Corr. Area 1: 113.4
 Noise: 0.2

Peak table for sample 11 : 93-11 3 BS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	171.07	4,969.6	
3	91	17.00	284.7	
4	370	28.35	116.2	
5	399	74.28	282.2	
6	10,380	75.00	10.9	Upper Marker

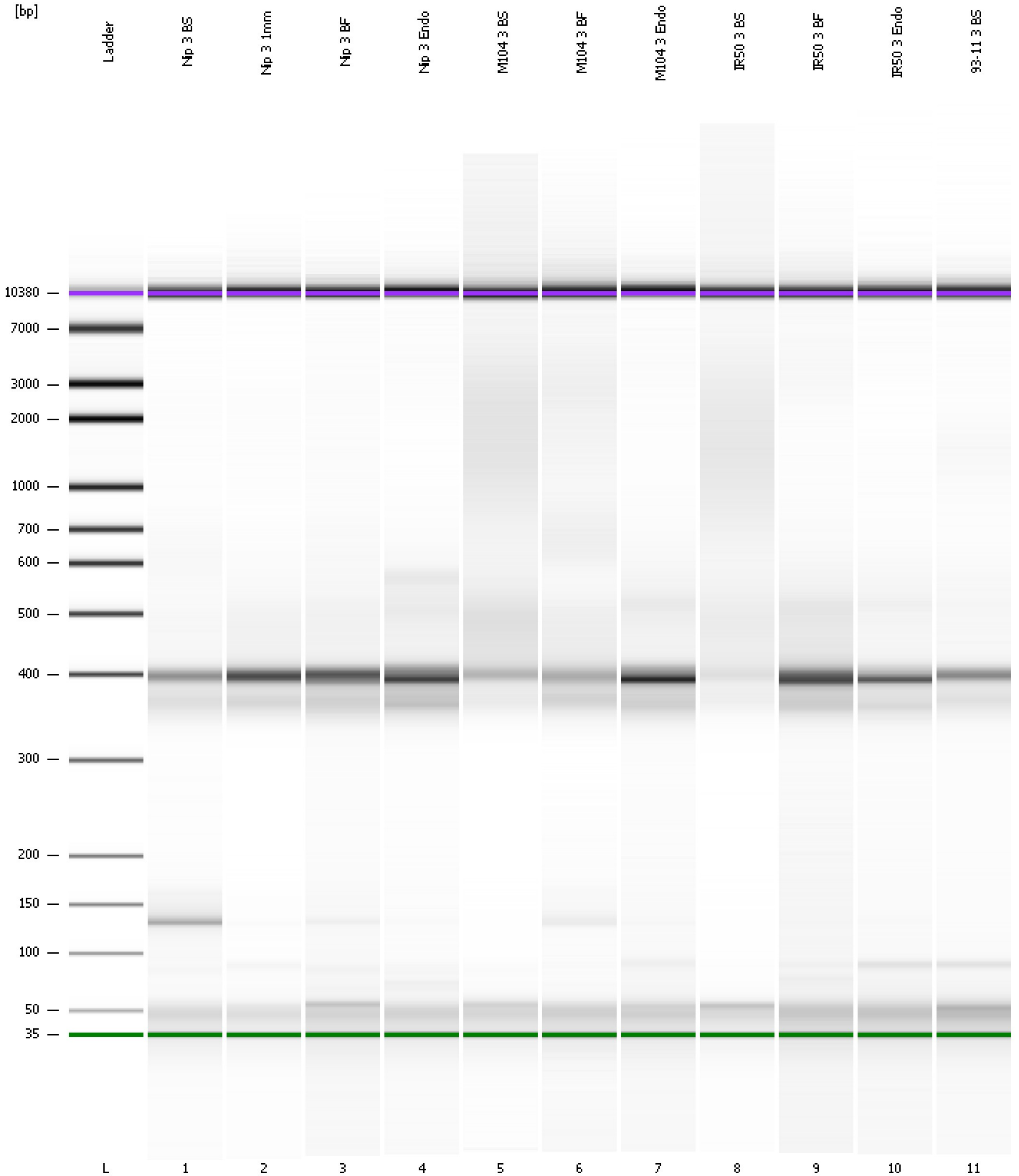
Region table for sample 11 : 93-11 3 BS

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
330	448	393	441.0	114.14	113.4	37	4.9	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
Modified: 5/31/2013 2:12:19 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad

Created: 5/31/2013 1:26:55 PM
 Modified: 5/31/2013 2:12:19 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		5/31/2013 2:08:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-31\2013-05-31_002.xad)		Instrument	Run		5/31/2013 1:27:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/31/2013 1:27:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/31/2013 1:27:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/31/2013 1:27:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/31/2013 1:27:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/31/2013 1:27:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/31/2013 1:27:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1