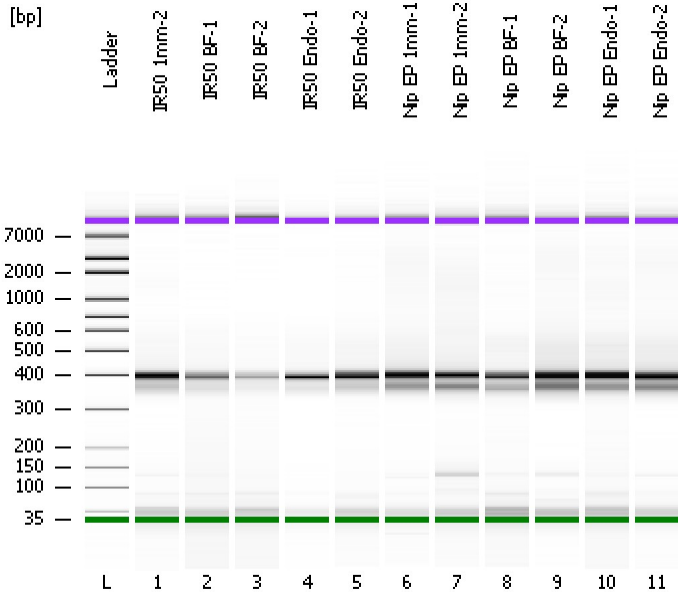


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
Modified: 11/9/2012 11:20:06 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

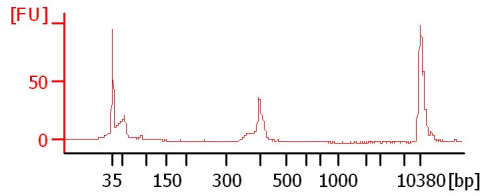
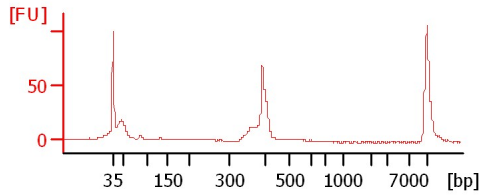
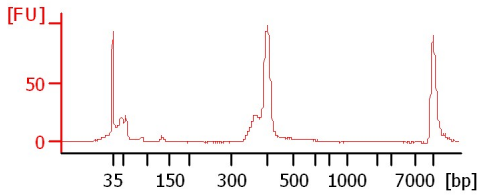
Chip Information:

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

IR50 1mm-2

IR50 BF-1

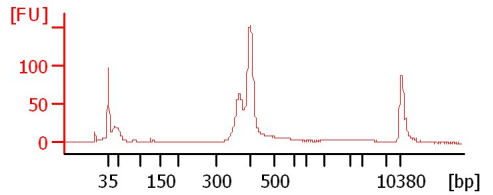
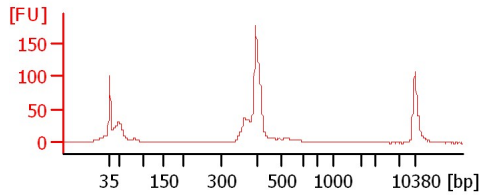
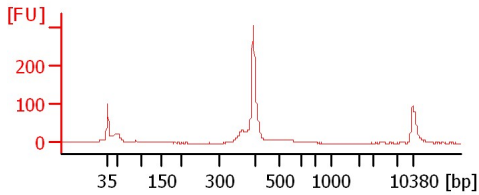
IR50 BF-2



IR50 Endo-1

IR50 Endo-2

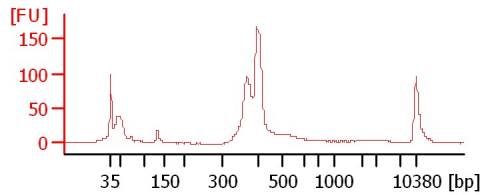
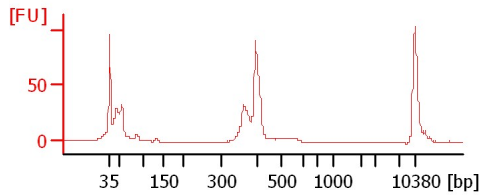
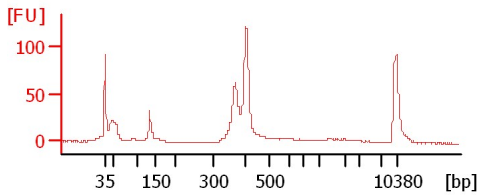
Nip EP 1mm-1



Nip EP 1mm-2

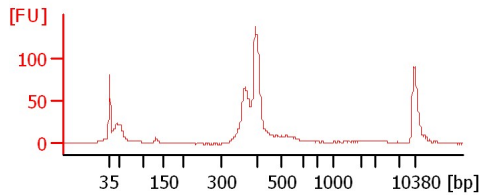
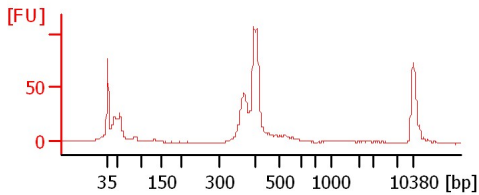
Nip EP BF-1

Nip EP BF-2



Nip EP Endo-1

Nip EP Endo-2



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
IR50 1mm-2		<input type="checkbox"/>	✓			
IR50 BF-1		<input type="checkbox"/>	✓			
IR50 BF-2		<input type="checkbox"/>	✓			
IR50 Endo-1		<input type="checkbox"/>	✓			
IR50 Endo-2		<input type="checkbox"/>	✓			
Nip EP 1mm-1		<input type="checkbox"/>	✓			
Nip EP 1mm-2		<input type="checkbox"/>	✓			
Nip EP BF-1		<input type="checkbox"/>	✓			
Nip EP BF-2		<input type="checkbox"/>	✓			
Nip EP Endo-1		<input type="checkbox"/>	✓			
Nip EP Endo-2		<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\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
Modified: 11/9/2012 11:20:06 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

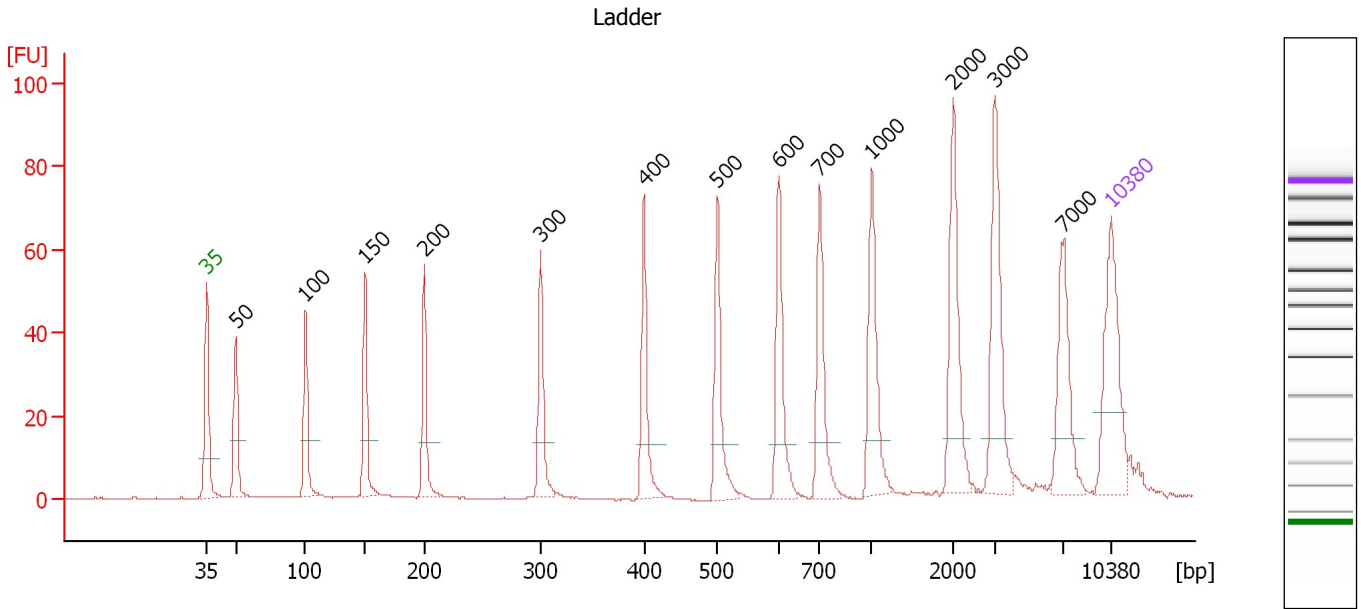
Ladder

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\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

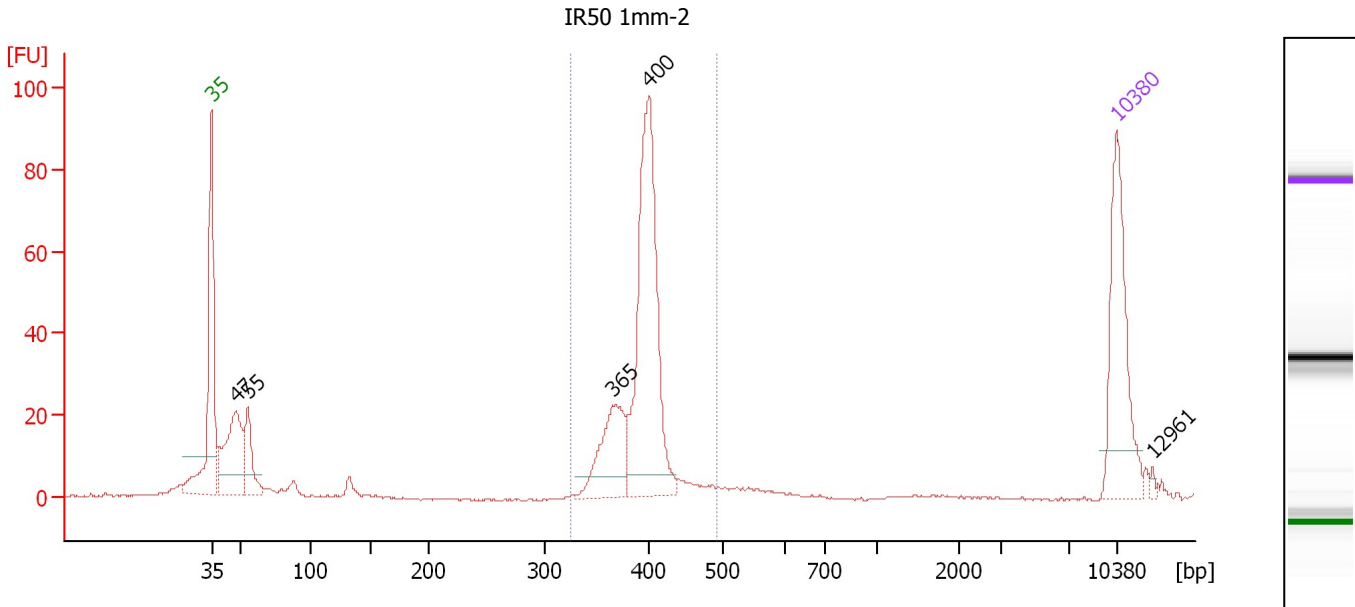
Peak table for Ladder

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\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : IR50 1mm-2

Number of peaks found: 5 Corr. Area 1: 321.5
 Noise: 0.2

Peak table for sample 1 : IR50 1mm-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	104.25	3,326.0	
3	55	44.79	1,226.6	
4	365	67.21	279.2	
5	400	214.06	811.3	
6	10,380	75.00	10.9	Upper Marker
7	12,961	0.00	0.0	

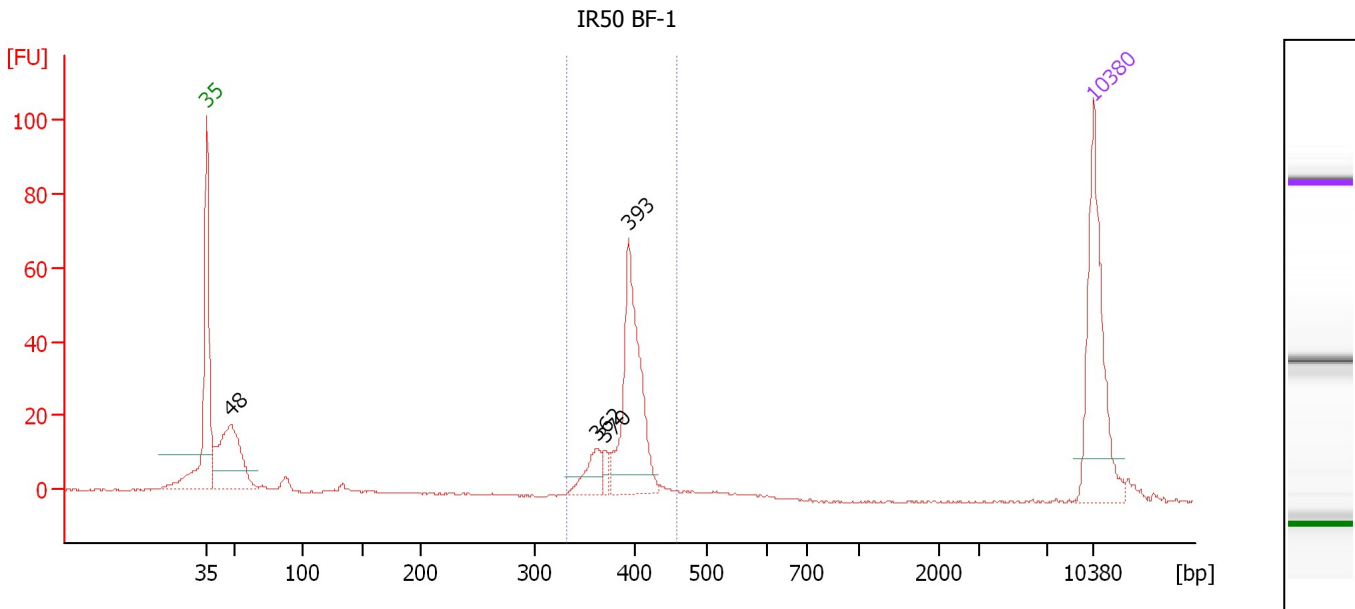
Region table for sample 1 : IR50 1mm-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
325	493	395	1,145.3	297.47	321.5	64	6.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : IR50 BF-1

Number of peaks found: 4 Corr. Area 1: 186.7
 Noise: 0.2

Peak table for sample 2 : IR50 BF-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	109.11	3,462.5	
3	362	23.00	96.2	
4	370	8.51	34.8	
5	393	118.99	458.6	
6	10,380	75.00	10.9	Upper Marker

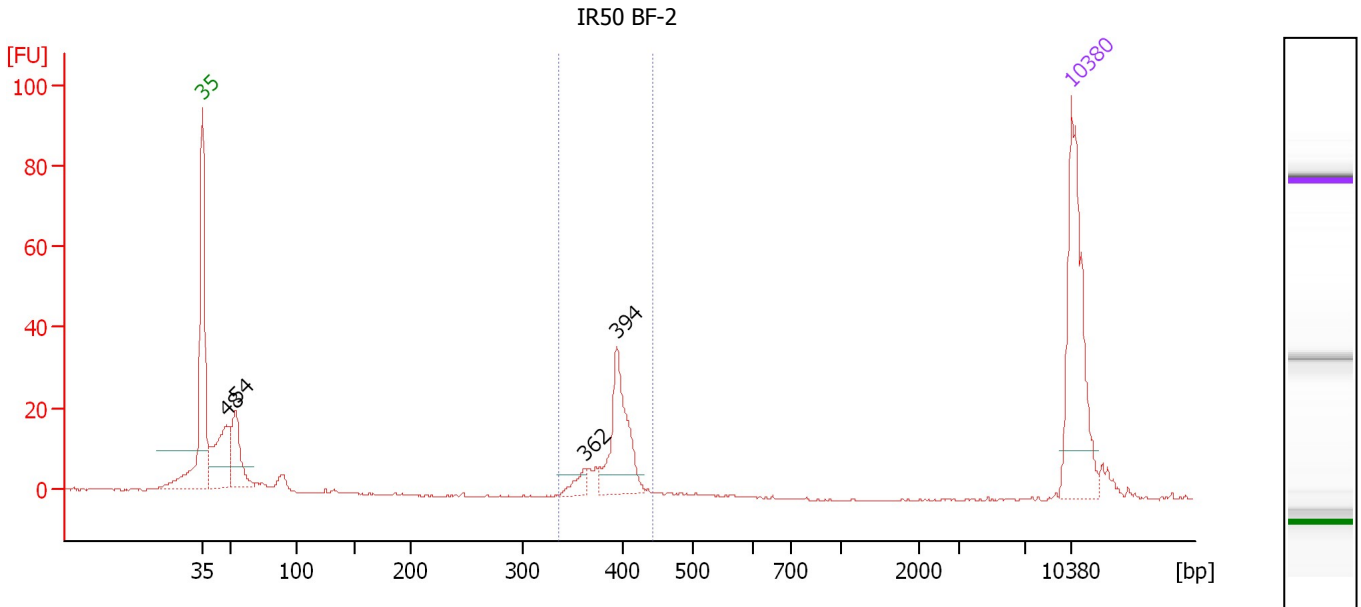
Region table for sample 2 : IR50 BF-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
333	457	392	613.2	158.19	186.7	60	5.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : IR50 BF-2

Number of peaks found: 4 Corr. Area 1: 89.1
 Noise: 0.2

Peak table for sample 3 : IR50 BF-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	66.63	2,103.1	
3	54	46.29	1,298.6	
4	362	9.68	40.5	
5	394	62.94	242.0	
6	10,380	75.00	10.9	Upper Marker

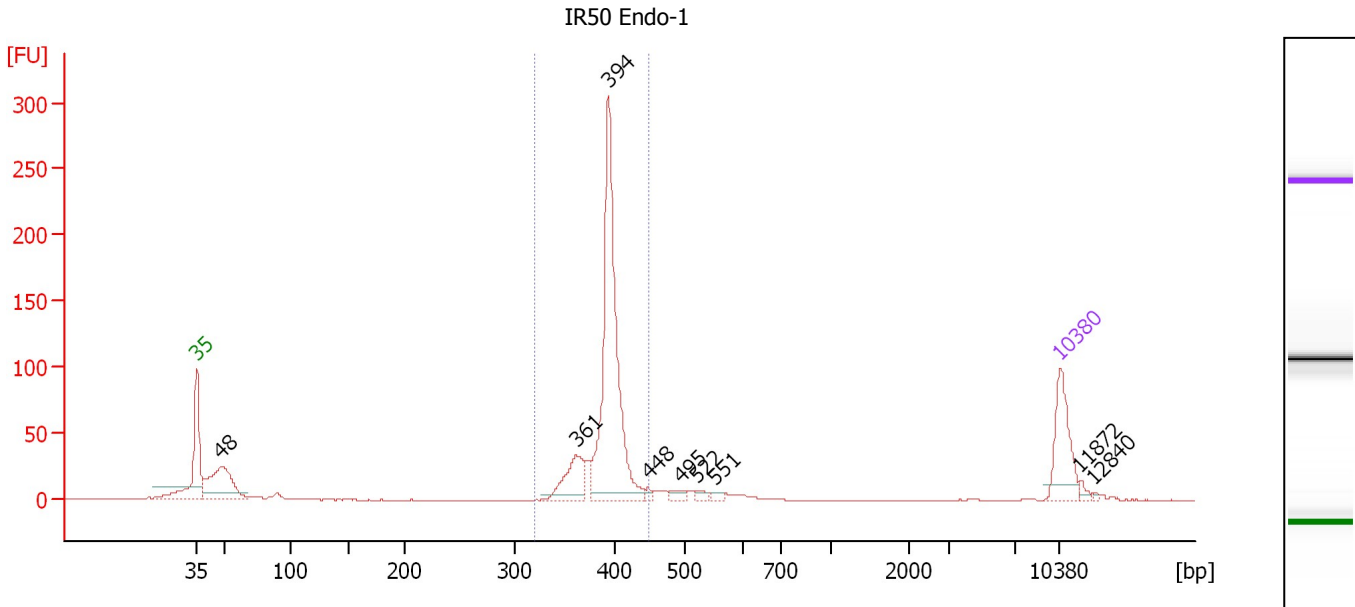
Region table for sample 3 : IR50 BF-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
336	443	392	299.5	77.39	89.1	43	4.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : IR50 Endo-1

Number of peaks found: 9 Corr. Area 1: 607.0
 Noise: 0.2

Peak table for sample 4 : IR50 Endo-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	170.78	5,360.1	
3	361	79.49	333.6	
4	394	449.43	1,728.7	
5	448	5.39	18.2	
6	495	11.45	35.1	
7	522	8.97	26.0	
8	551	6.64	18.3	
9	10,380	75.00	10.9	Upper Marker
10	11,872	0.00	0.0	
11	12,840	0.00	0.0	

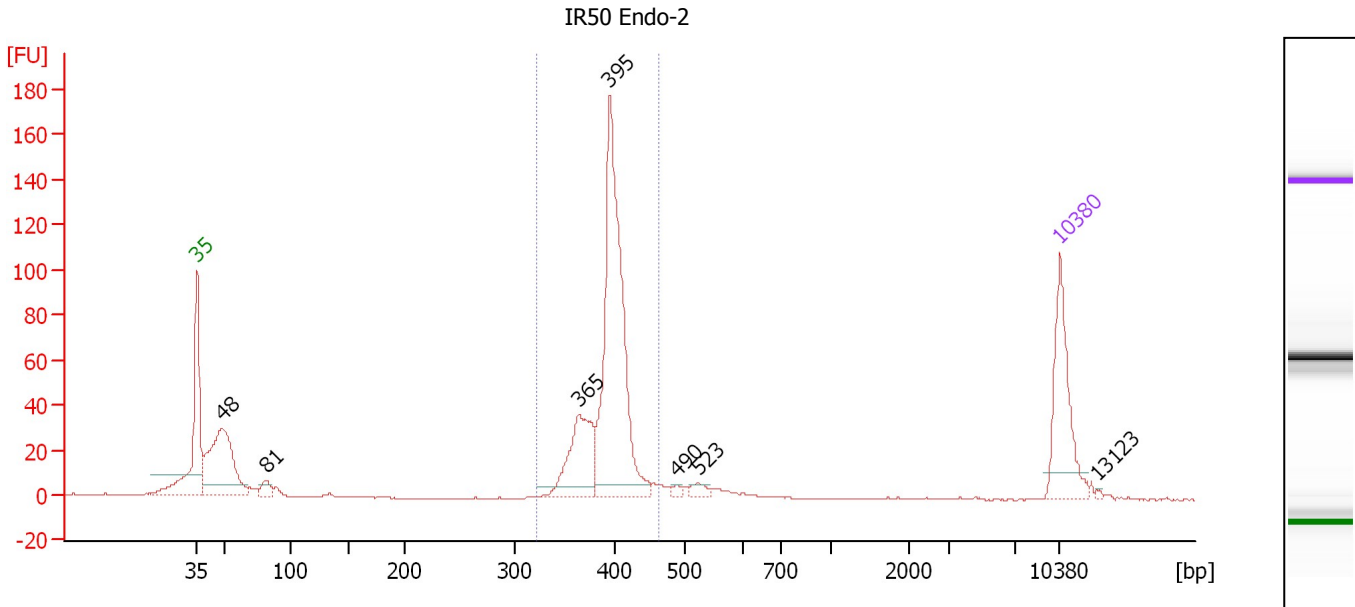
Region table for sample 4 : IR50 Endo-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
319	448	392	2,106.1	543.97	607.0	72	4.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : IR50 Endo-2

Number of peaks found: 7 Corr. Area 1: 511.5
 Noise: 0.1

Peak table for sample 5 : IR50 Endo-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	193.65	6,052.6	
3	81	15.60	291.0	
4	365	99.21	412.2	
5	395	321.68	1,233.1	
6	490	4.21	13.0	
7	523	8.69	25.2	
8	10,380	75.00	10.9	Upper Marker
9	13,123	0.00	0.0	

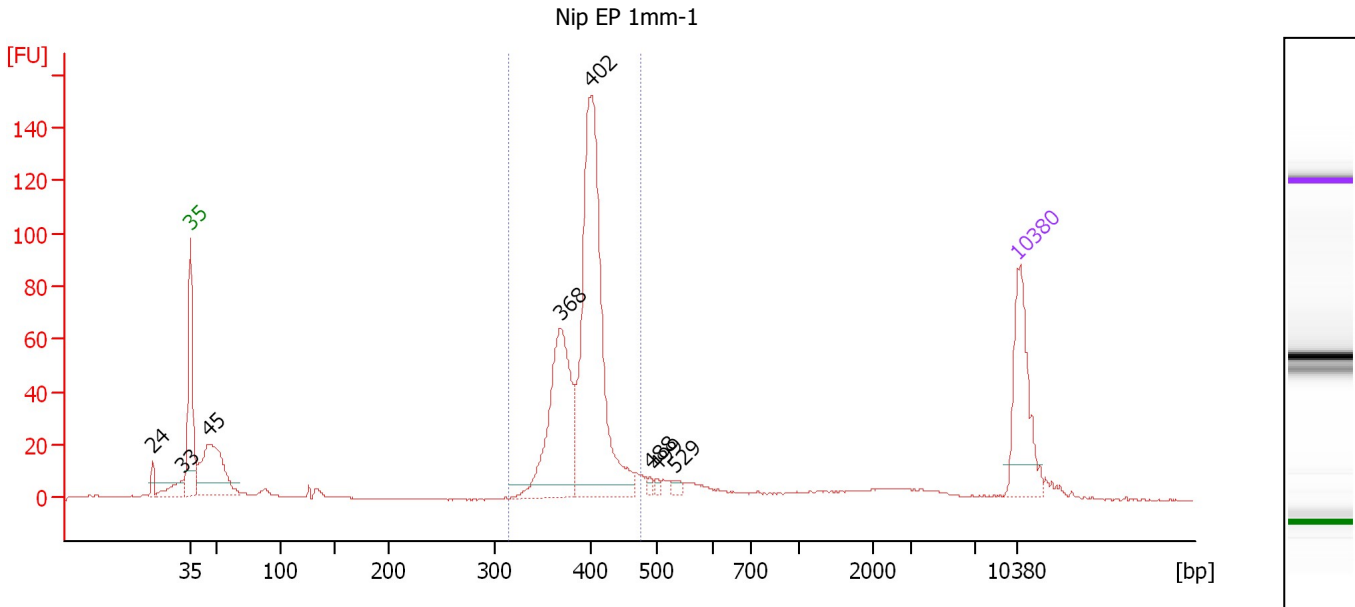
Region table for sample 5 : IR50 Endo-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
322	462	395	1,625.1	422.29	511.5	69	5.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Nip EP 1mm-1

Number of peaks found: 8 Corr. Area 1: 614.2
 Noise: 0.1

Peak table for sample 6 : Nip EP 1mm-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	24	0.00	0.0	
2	33	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	45	144.71	4,838.0	
5	368	192.86	793.5	
6	402	364.20	1,372.4	
7	488	4.59	14.2	
8	499	4.13	12.5	
9	529	5.80	16.6	
10	10,380	75.00	10.9	Upper Marker

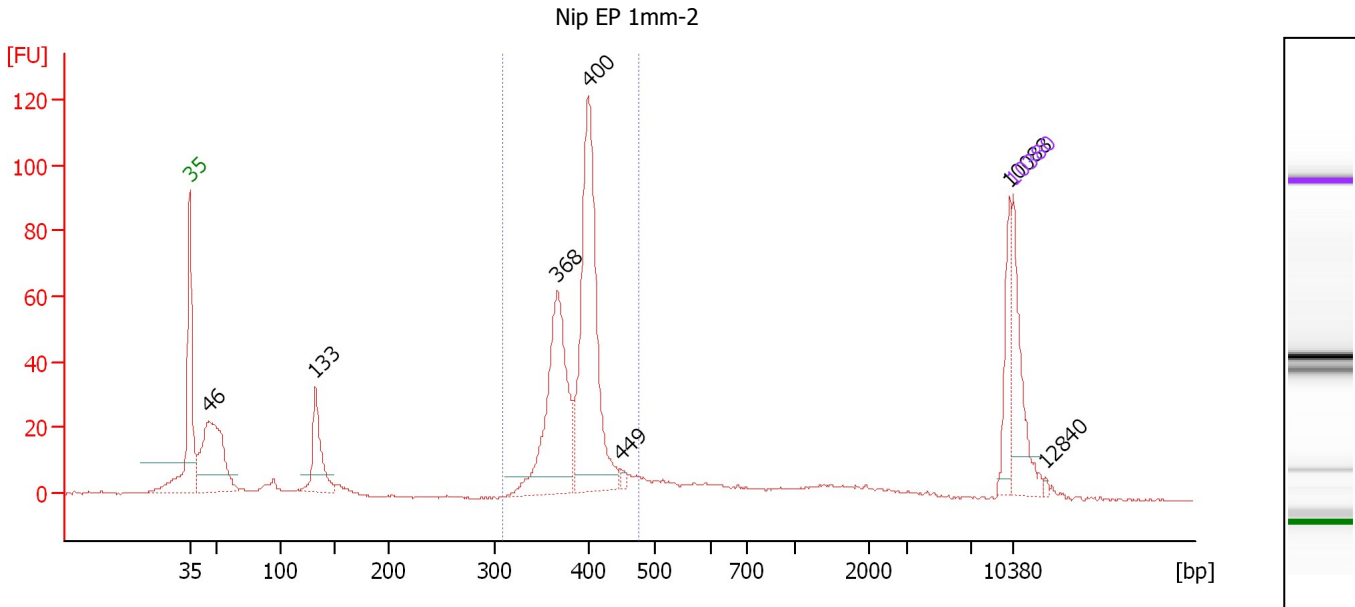
Region table for sample 6 : Nip EP 1mm-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
314	475	394	2,206.1	571.98	614.2	65	6.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Nip EP 1mm-2

Number of peaks found: 7 Corr. Area 1: 446.9
 Noise: 0.2

Peak table for sample 7 : Nip EP 1mm-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	234.95	7,794.3	
3	133	96.83	1,102.6	
4	368	253.81	1,045.7	
5	400	338.28	1,281.3	
6	449	6.20	21.0	
7	10,088	49.54	7.4	
8	10,380	75.00	10.9	Upper Marker
9	12,840	0.00	0.0	

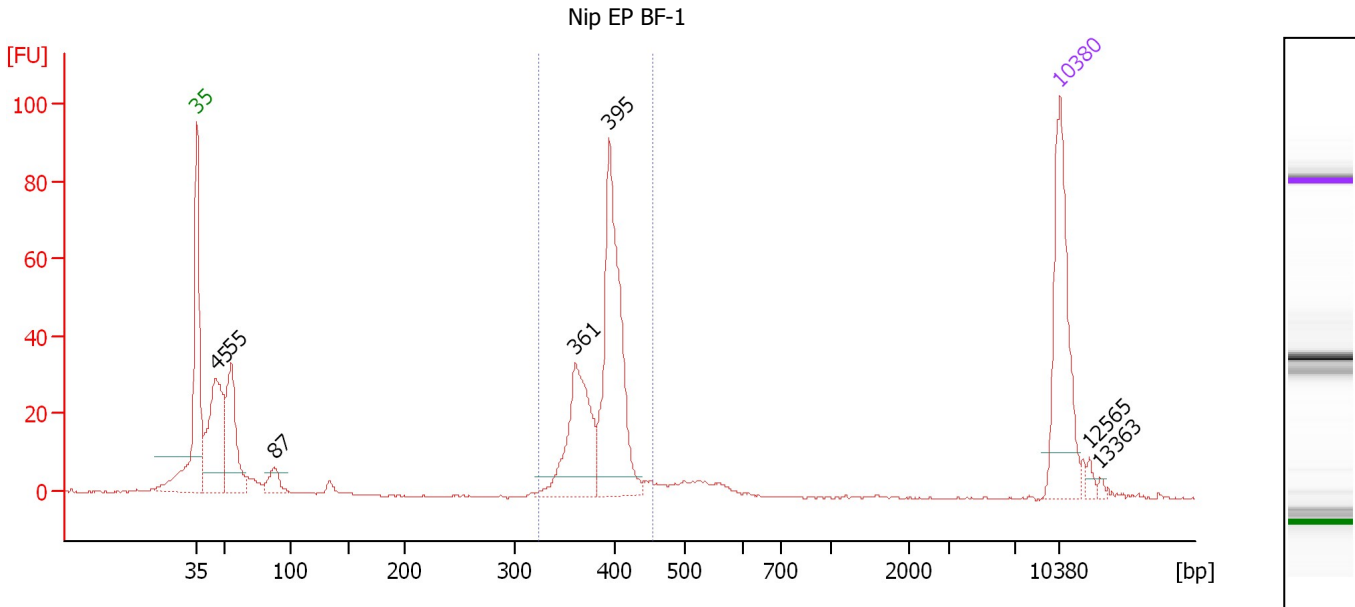
Region table for sample 7 : Nip EP 1mm-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
310	477	391	2,432.3	625.47	446.9	58	6.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Nip EP BF-1

Number of peaks found: 7 Corr. Area 1: 288.9
 Noise: 0.2

Peak table for sample 8 : Nip EP BF-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	125.02	4,196.3	
3	55	88.58	2,433.7	
4	87	18.46	320.5	
5	361	94.96	399.1	
6	395	159.41	611.9	
7	10,380	75.00	10.9	Upper Marker
8	12,565	0.00	0.0	
9	13,363	0.00	0.0	

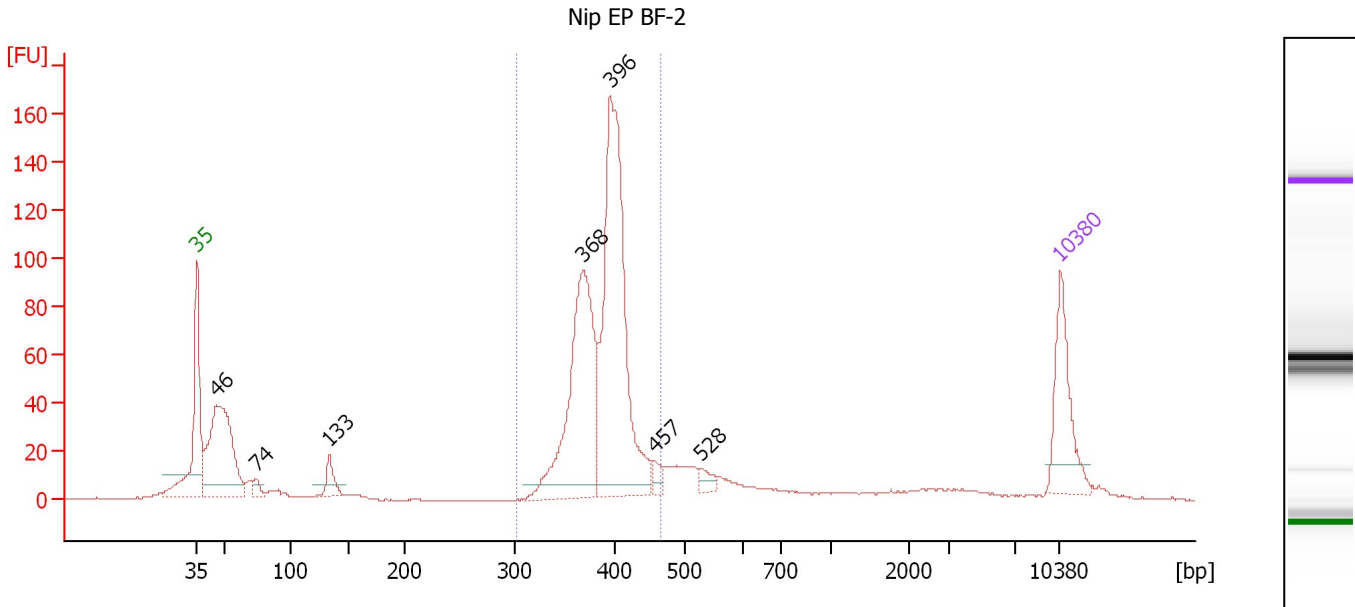
Region table for sample 8 : Nip EP BF-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
324	455	388	990.0	253.24	288.9	54	5.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Nip EP BF-2

Number of peaks found: 7 Corr. Area 1: 788.6
 Noise: 0.2

Peak table for sample 9 : Nip EP BF-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	280.22	9,264.8	
3	74	14.78	304.3	
4	133	30.52	347.0	
5	368	304.72	1,253.8	
6	396	418.39	1,599.4	
7	457	13.49	44.7	
8	528	13.54	38.9	
9	10,380	75.00	10.9	Upper Marker

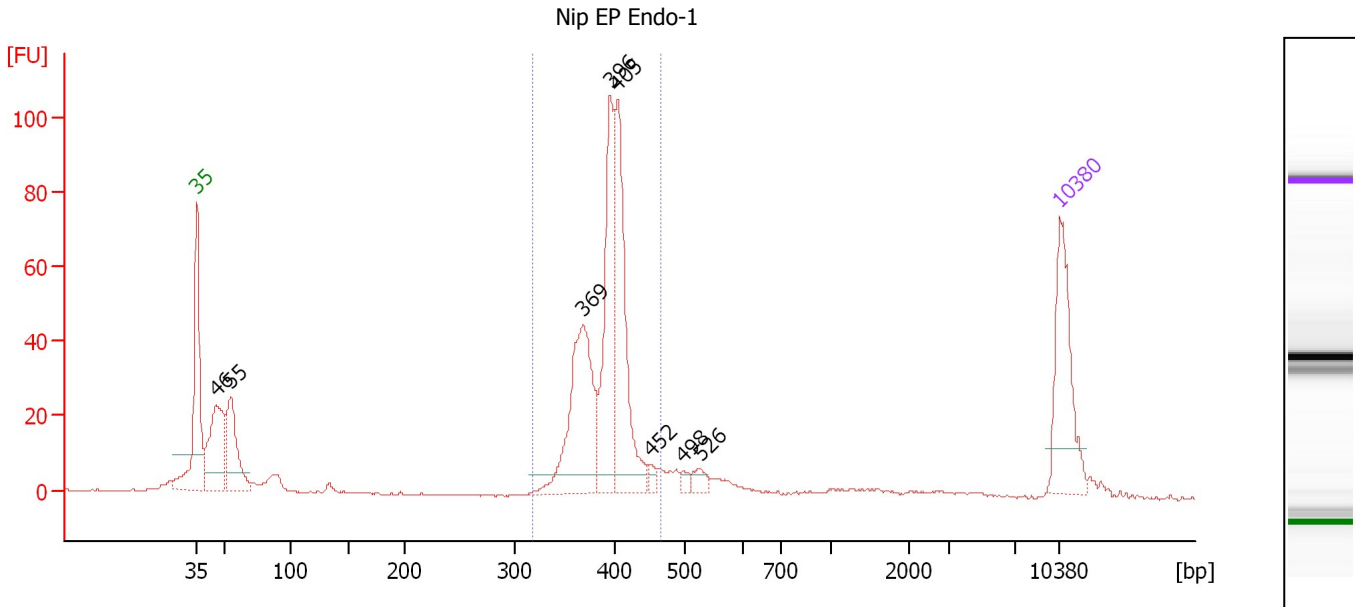
Region table for sample 9 : Nip EP BF-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
301	467	389	2,925.2	749.03	788.6	62	6.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Nip EP Endo-1

Number of peaks found: 8 Corr. Area 1: 428.4
 Noise: 0.2

Peak table for sample 10 : Nip EP Endo-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	122.63	4,074.1	
3	55	92.68	2,567.9	
4	369	161.81	665.0	
5	396	137.19	525.0	
6	405	155.78	583.0	
7	452	7.52	25.2	
8	498	6.28	19.1	
9	526	10.64	30.6	
10	10,380	75.00	10.9	Upper Marker

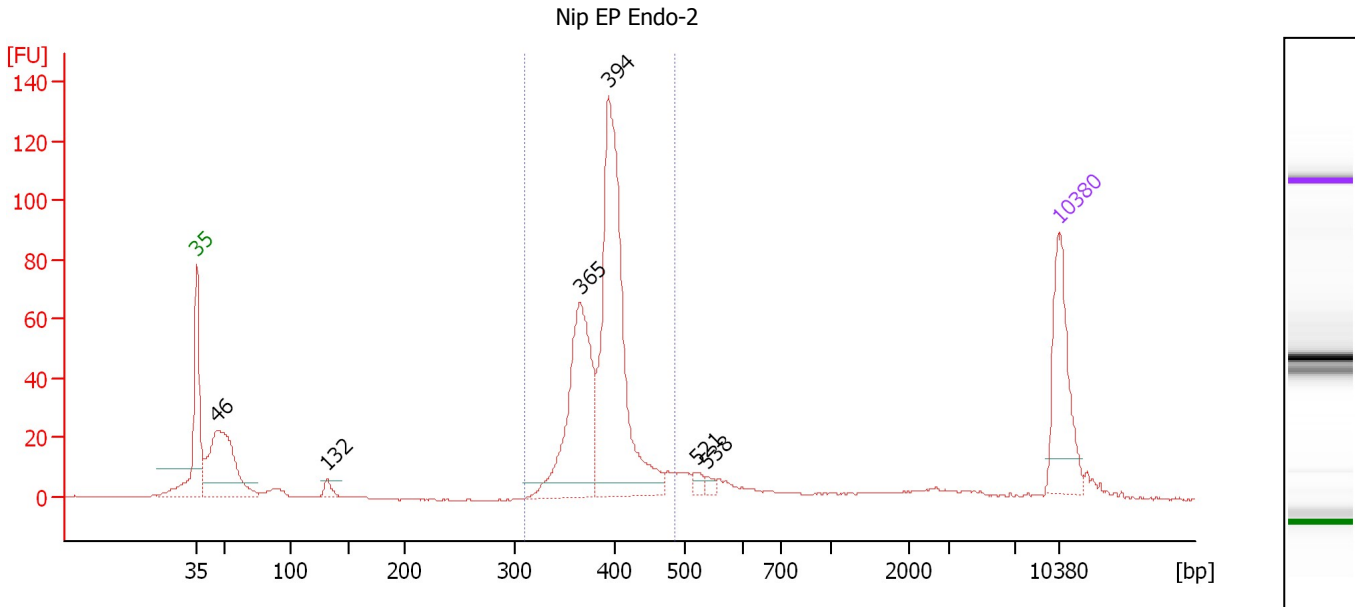
Region table for sample 10 : Nip EP Endo-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
318	467	392	1,853.0	478.45	428.4	62	6.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Nip EP Endo-2

Number of peaks found: 6 Corr. Area 1: 572.5
 Noise: 0.2

Peak table for sample 11 : Nip EP Endo-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	177.36	5,845.7	
3	132	9.86	113.4	
4	365	198.65	824.0	
5	394	328.13	1,260.7	
6	521	7.70	22.4	
7	538	5.57	15.7	
8	10,380	75.00	10.9	Upper Marker

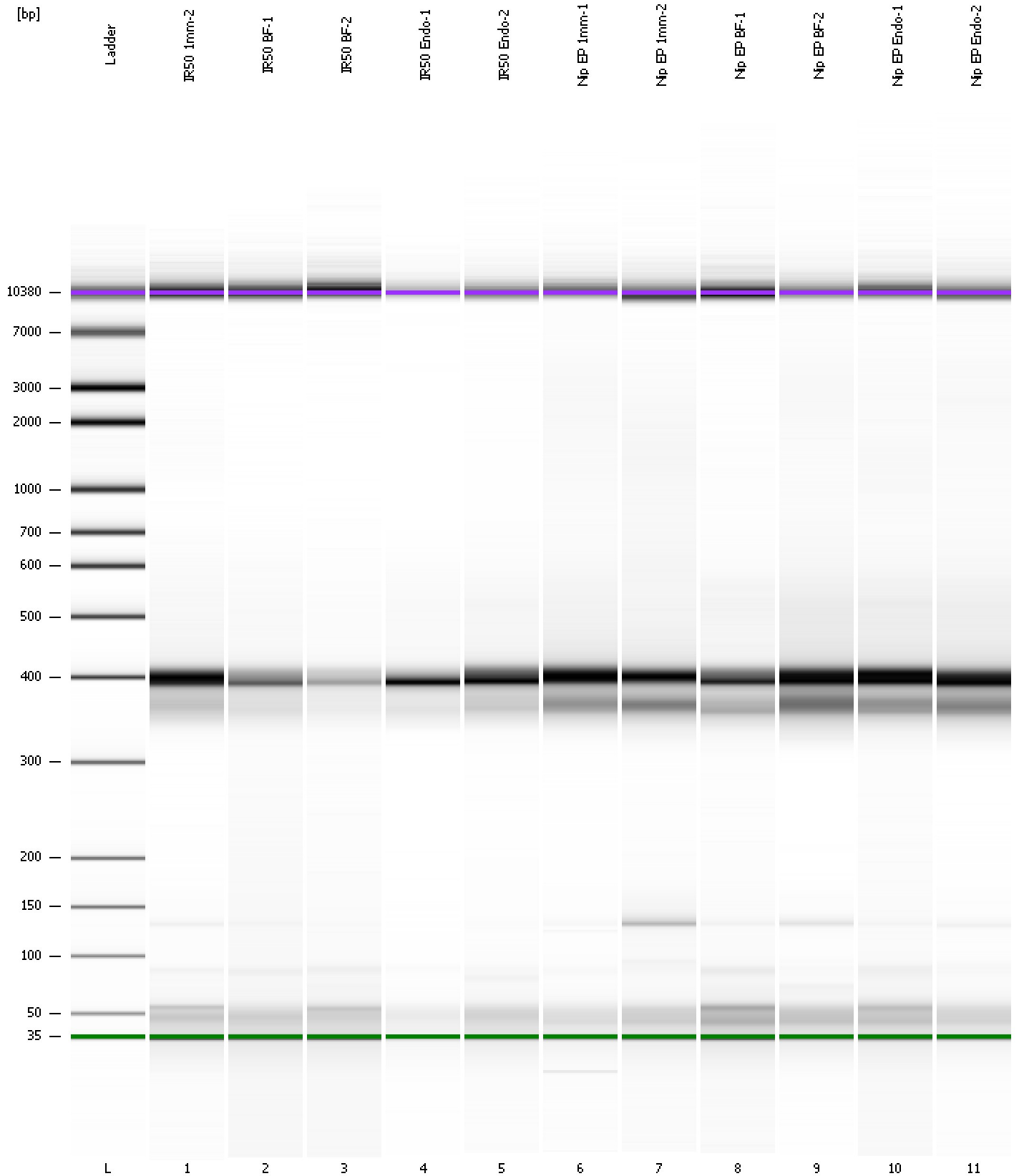
Region table for sample 11 : Nip EP Endo-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
308	486	391	2,085.9	535.88	572.5	68	7.3	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
Modified: 11/9/2012 11:20:06 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad

Created: 11/9/2012 10:37:33 AM
 Modified: 11/9/2012 11:20:06 AM

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		11/9/2012 11:18:52 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-11-09\2012-11-09_004.xad)		Instrument	Run		11/9/2012 10:37:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/9/2012 10:37:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/9/2012 10:37:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/9/2012 10:37:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/9/2012 10:37:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/9/2012 10:37:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/9/2012 10:37:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1