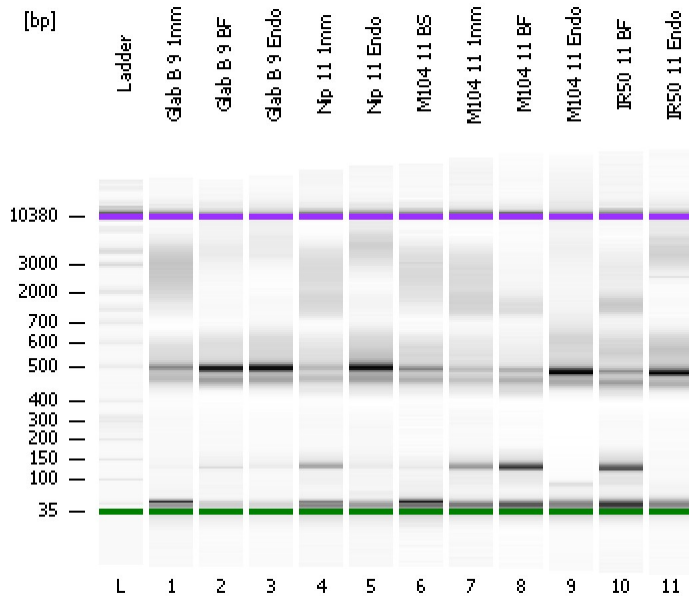


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
Modified: 7/11/2013 4:29:30 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

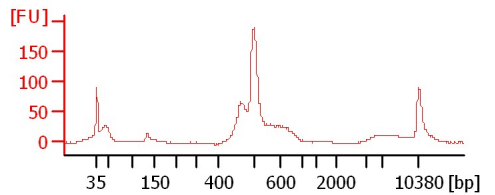
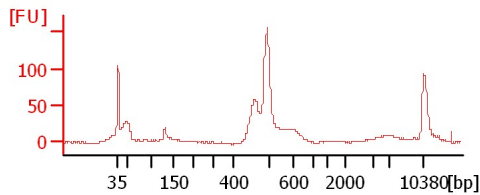
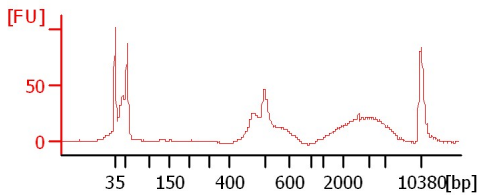
Chip Information:

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

Glab B 9 1mm

Glab B 9 BF

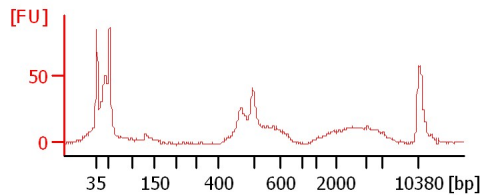
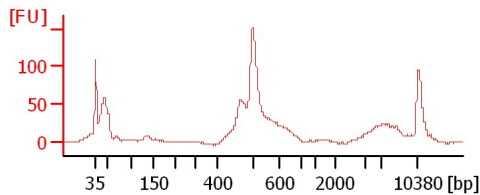
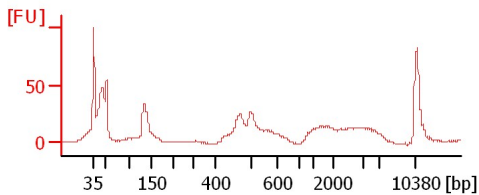
Glab B 9 Endo



Nip 11 1mm

Nip 11 Endo

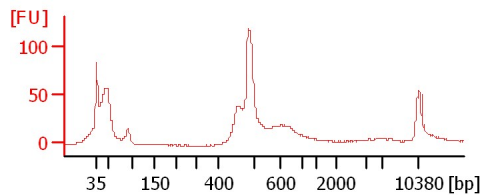
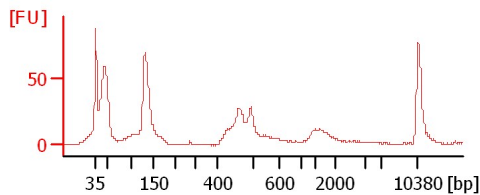
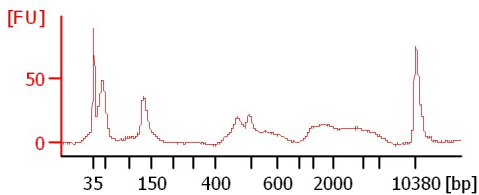
M104 11 BS



M104 11 1mm

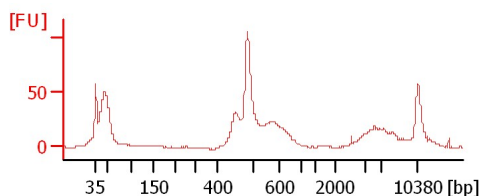
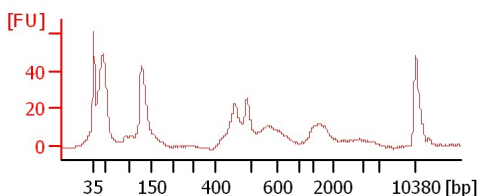
M104 11 BF

M104 11 Endo



IR50 11 BF

IR50 11 Endo



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Glab B 9 1mm		<input type="checkbox"/>	✓			
Glab B 9 BF		<input type="checkbox"/>	✓			
Glab B 9 Endo		<input type="checkbox"/>	✓			
Nip 11 1mm		<input type="checkbox"/>	✓			
Nip 11 Endo		<input type="checkbox"/>	✓			
M104 11 BS		<input type="checkbox"/>	✓			
M104 11 1mm		<input type="checkbox"/>	✓			
M104 11 BF		<input type="checkbox"/>	✓			
M104 11 Endo		<input type="checkbox"/>	✓			
IR50 11 BF		<input type="checkbox"/>	✓			
IR50 11 Endo		<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\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
Modified: 7/11/2013 4:29:30 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

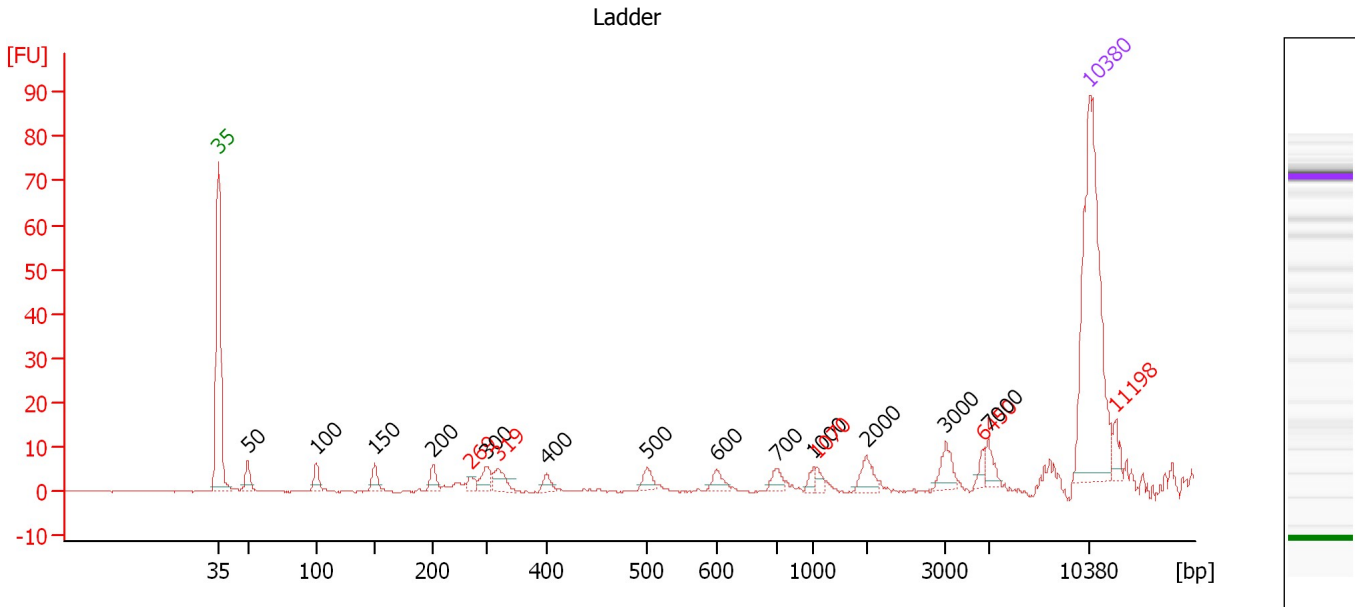
Ladder

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\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

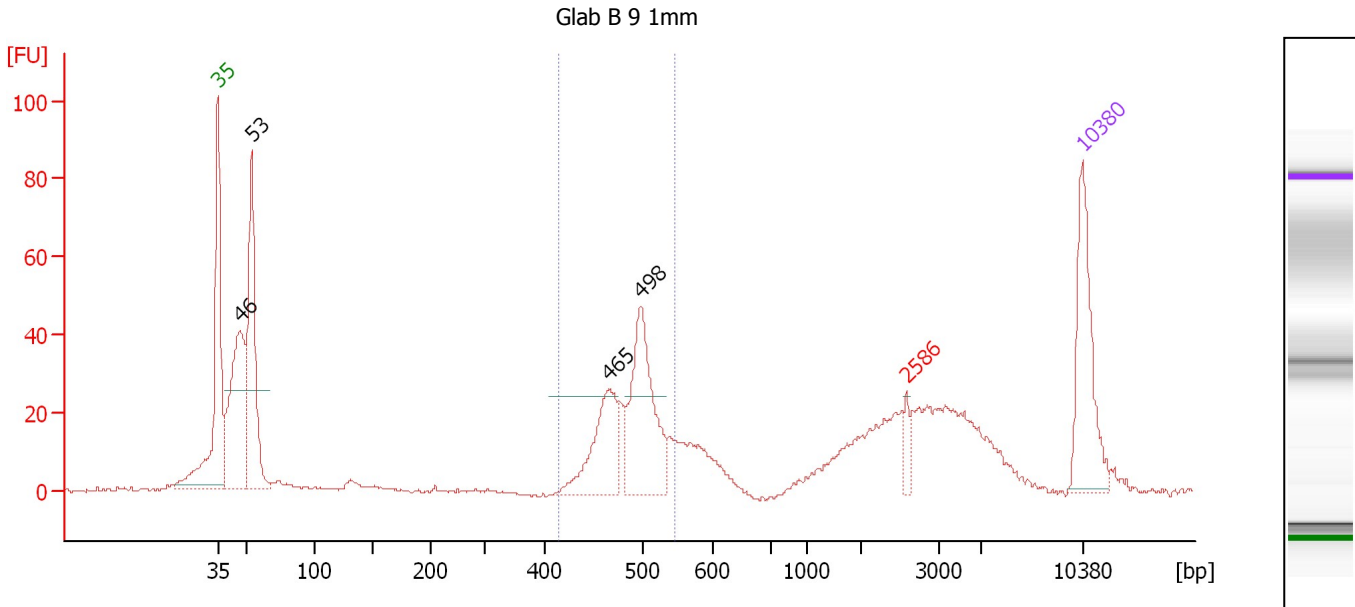
Peak table for Ladder

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	269	0.00	0.0	excluded peak
7	300	150.00	757.6	Ladder Peak
8	319	0.00	0.0	excluded peak
9	400	150.00	568.2	Ladder Peak
10	500	150.00	454.5	Ladder Peak
11	600	150.00	378.8	Ladder Peak
12	700	150.00	324.7	Ladder Peak
13	1,000	150.00	227.3	Ladder Peak
14	1,070	0.00	0.0	excluded peak
15	2,000	150.00	113.6	Ladder Peak
16	3,000	150.00	75.8	Ladder Peak
17	6,450	0.00	0.0	excluded peak
18	7,000	150.00	32.5	Ladder Peak
19	10,380	75.00	10.9	Upper Marker
20	11,198	0.00	0.0	excluded peak

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : Glab B 9 1mm

Height Threshold [FU] : 25

Overall Results for sample 1 : Glab B 9 1mm

Number of peaks found: 4 Corr. Area 1: 230.5
 Noise: 0.3

Peak table for sample 1 : Glab B 9 1mm

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	203.81	6,673.8	
3	53	189.39	5,381.6	
4	465	84.78	276.0	
5	498	131.98	401.9	
6	2,586	10.65	6.2	excluded peak
7	10,380	75.00	10.9	Upper Marker

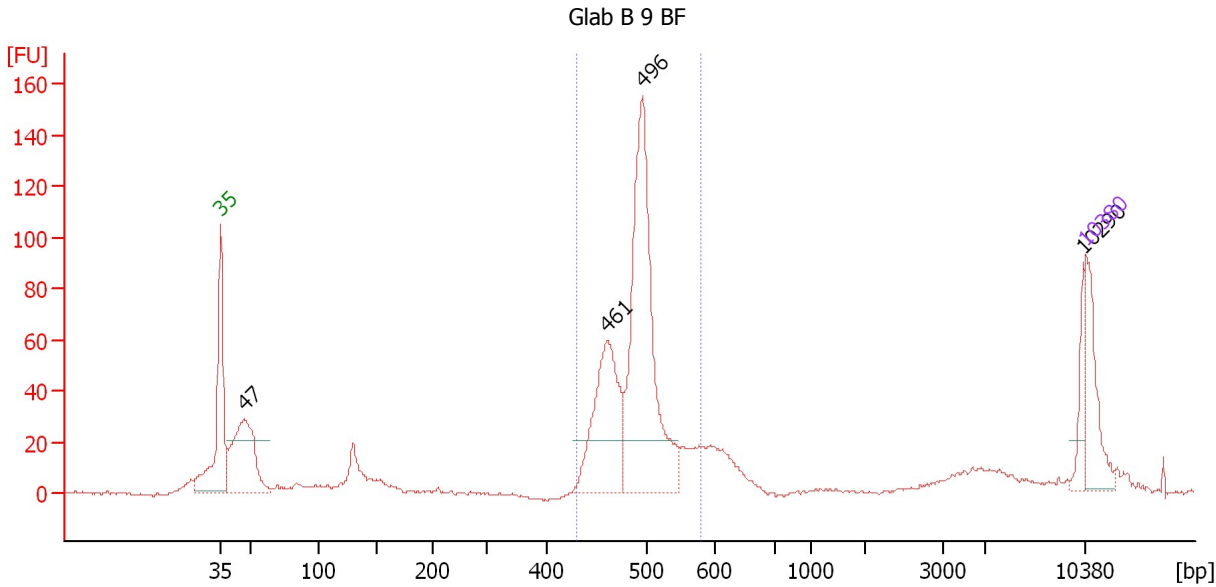
Region table for sample 1 : Glab B 9 1mm

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
415	547	489	717.2	230.63	230.5	28	5.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : Glab B 9 BF

Height Threshold [FU] : 20

Overall Results for sample 2 : Glab B 9 BF

Number of peaks found: 4 Corr. Area 1: 622.9
 Noise: 0.6

Peak table for sample 2 : Glab B 9 BF

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	270.23	8,747.5	
3	461	245.87	807.9	
4	496	500.07	1,527.8	
5	10,290	39.79	5.9	
6	10,380	75.00	10.9	Upper Marker

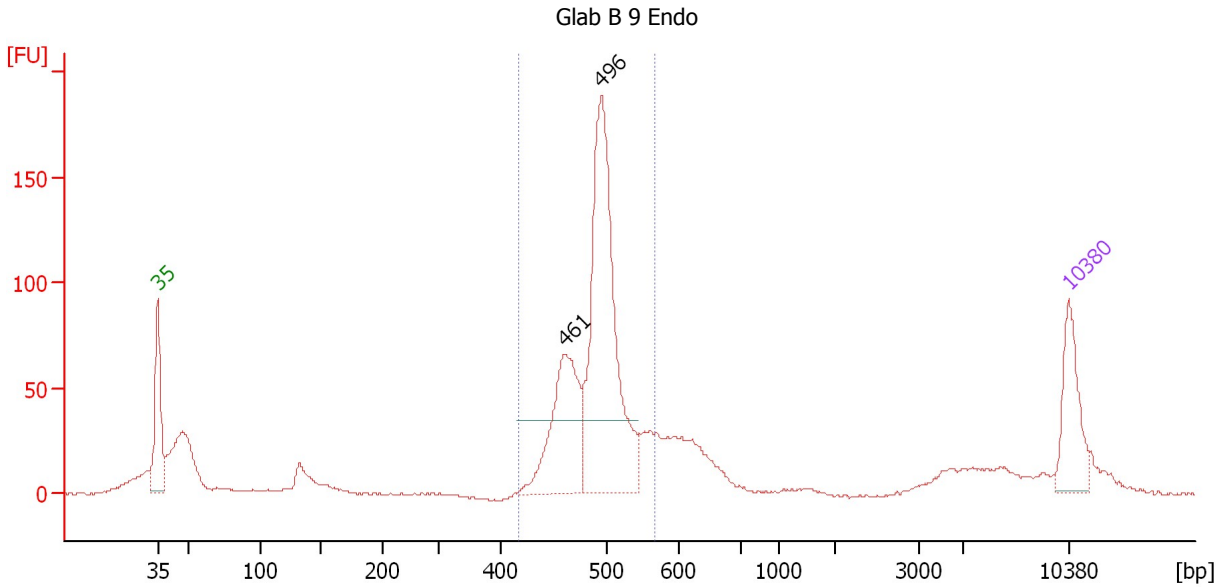
Region table for sample 2 : Glab B 9 BF

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
429	579	492	2,447.2	791.32	622.9	60	6.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : Glab B 9 Endo

Height Threshold [FU] : 35

Overall Results for sample 3 : Glab B 9 Endo

Number of peaks found: 2 Corr. Area 1: 800.0
 Noise: 0.4

Peak table for sample 3 : Glab B 9 Endo

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	461	209.61	689.0	
3	496	487.16	1,489.5	
4	10,380	75.00	10.9	Upper Marker

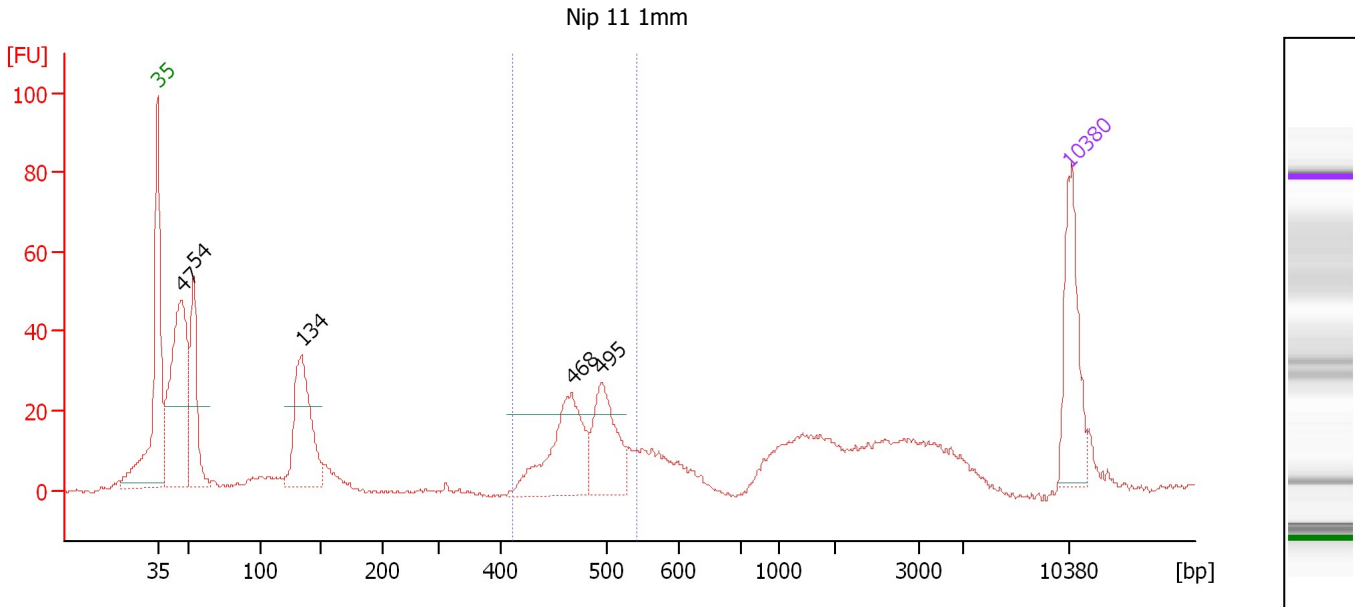
Region table for sample 3 : Glab B 9 Endo

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
417	568	493	2,256.7	731.91	800.0	58	5.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : Nip 11 1mm

Height Threshold [FU] : 20

Overall Results for sample 4 : Nip 11 1mm

Number of peaks found: 5 Corr. Area 1: 174.4
 Noise: 0.5

Peak table for sample 4 : Nip 11 1mm

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	290.09	9,394.6	
3	54	122.32	3,442.3	
4	134	159.94	1,805.6	
5	468	122.88	398.2	
6	495	89.75	274.8	
7	10,380	75.00	10.9	Upper Marker

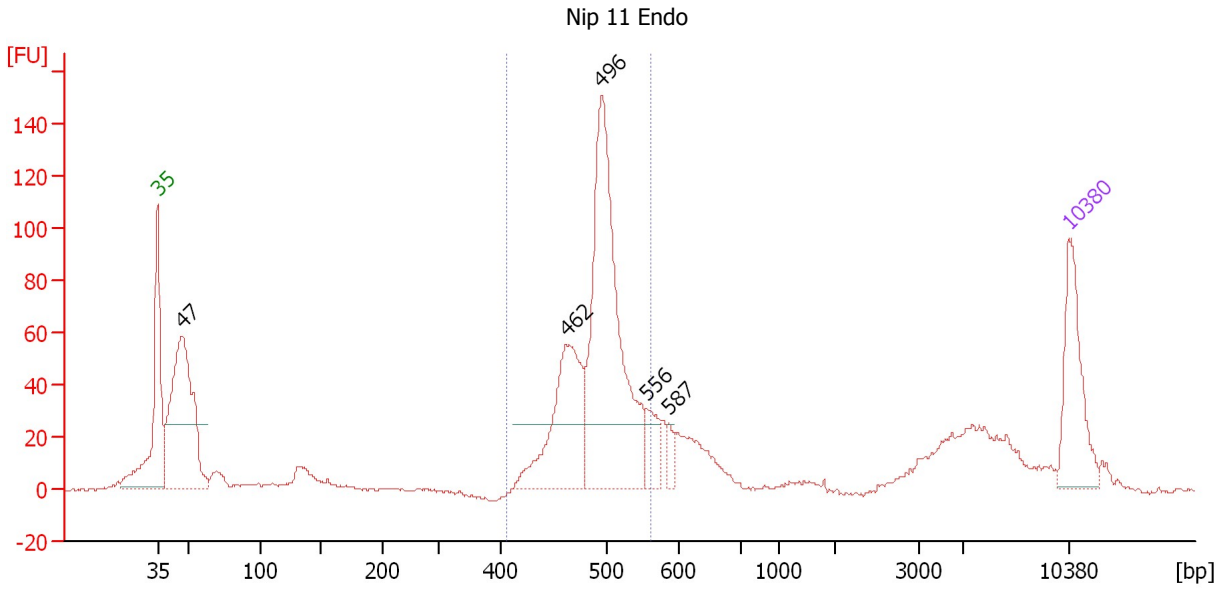
Region table for sample 4 : Nip 11 1mm

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
412	543	482	646.6	205.03	174.4	21	5.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : Nip 11 Endo

Height Threshold [FU] : 25

Overall Results for sample 5 : Nip 11 Endo

Number of peaks found: 5 Corr. Area 1: 675.6
 Noise: 0.7

Peak table for sample 5 : Nip 11 Endo

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	329.46	10,642.1	
3	462	169.01	554.1	
4	496	377.96	1,154.9	
5	556	33.19	90.4	
6	587	12.80	33.0	
7	10,380	75.00	10.9	Upper Marker

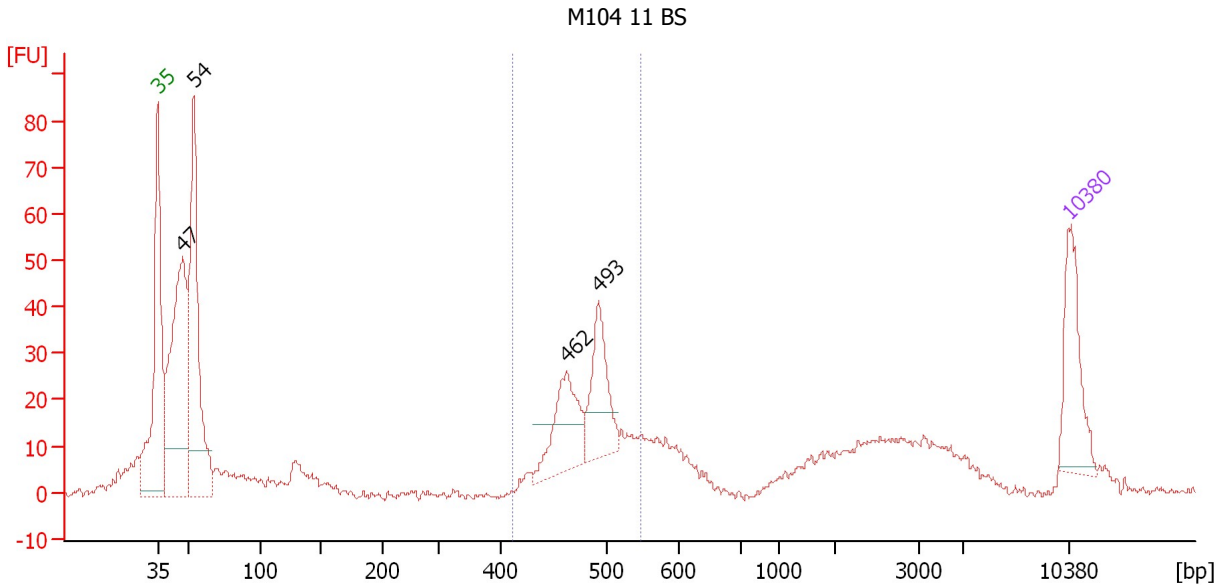
Region table for sample 5 : Nip 11 Endo

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
406	562	494	1,692.2	549.41	675.6	50	5.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : M104 11 BS

Height Threshold [FU] : 10

Overall Results for sample 6 : M104 11 BS

Number of peaks found: 4 Corr. Area 1: 207.3
 Noise: 0.7

Peak table for sample 6 : M104 11 BS

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	393.51	12,686.4	
3	54	346.94	9,755.6	
4	462	102.83	337.0	
5	493	98.34	302.2	
6	10,380	75.00	10.9	Upper Marker

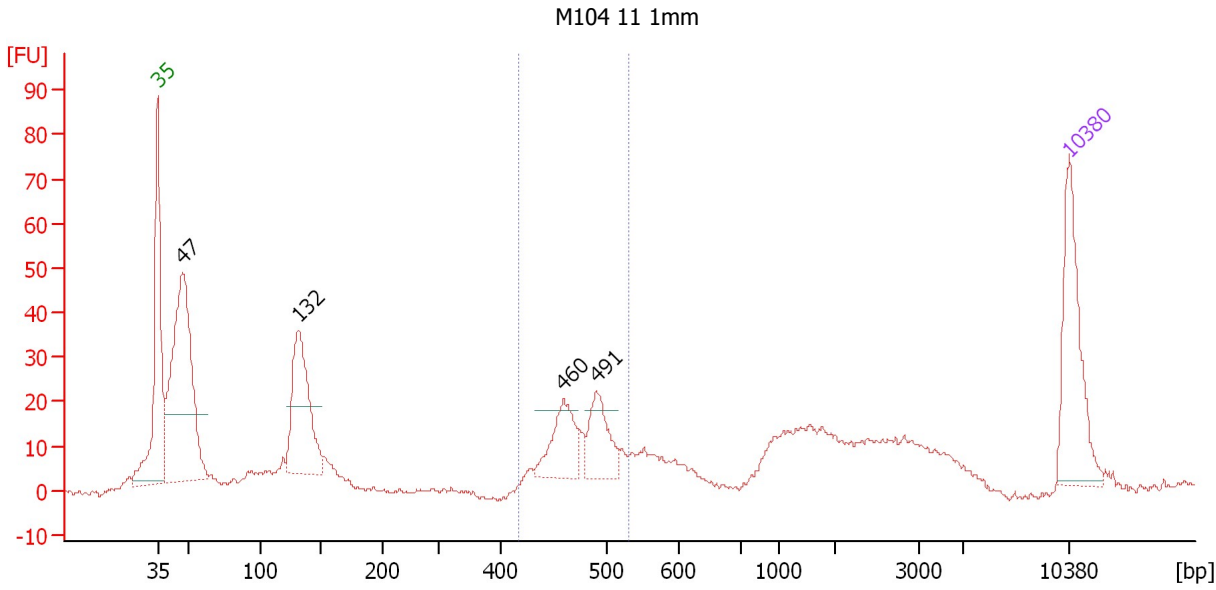
Region table for sample 6 : M104 11 BS

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
411	548	484	1,027.1	327.27	207.3	25	5.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : M104 11 1mm

Height Threshold [FU] : 15

Overall Results for sample 7 : M104 11 1mm

Number of peaks found: 4 Corr. Area 1: 135.0
 Noise: 0.7

Peak table for sample 7 : M104 11 1mm

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	307.94	9,889.9	
3	132	143.69	1,651.5	
4	460	53.99	177.9	
5	491	47.70	147.1	
6	10,380	75.00	10.9	Upper Marker

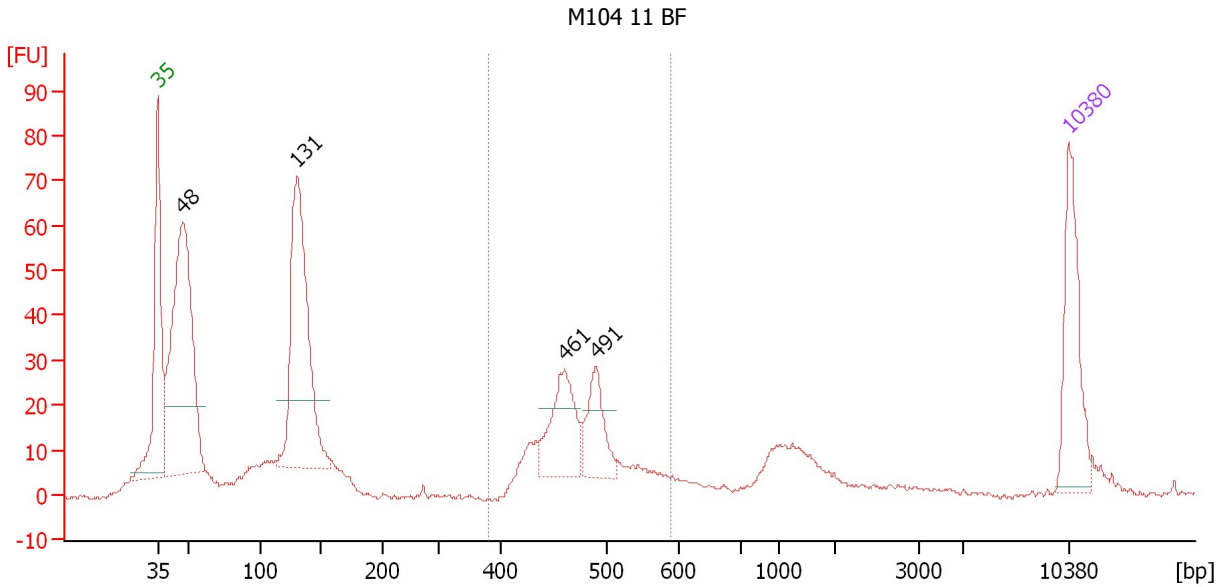
Region table for sample 7 : M104 11 1mm

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
416	531	476	473.7	148.55	135.0	18	5.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : M104 11 BF

Height Threshold [FU] : 15

Overall Results for sample 8 : M104 11 BF

Number of peaks found: 4 Corr. Area 1: 215.2
 Noise: 0.6

Peak table for sample 8 : M104 11 BF

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	400.74	12,749.7	
3	131	316.07	3,660.7	
4	461	82.25	270.6	
5	491	59.05	182.3	
6	10,380	75.00	10.9	Upper Marker

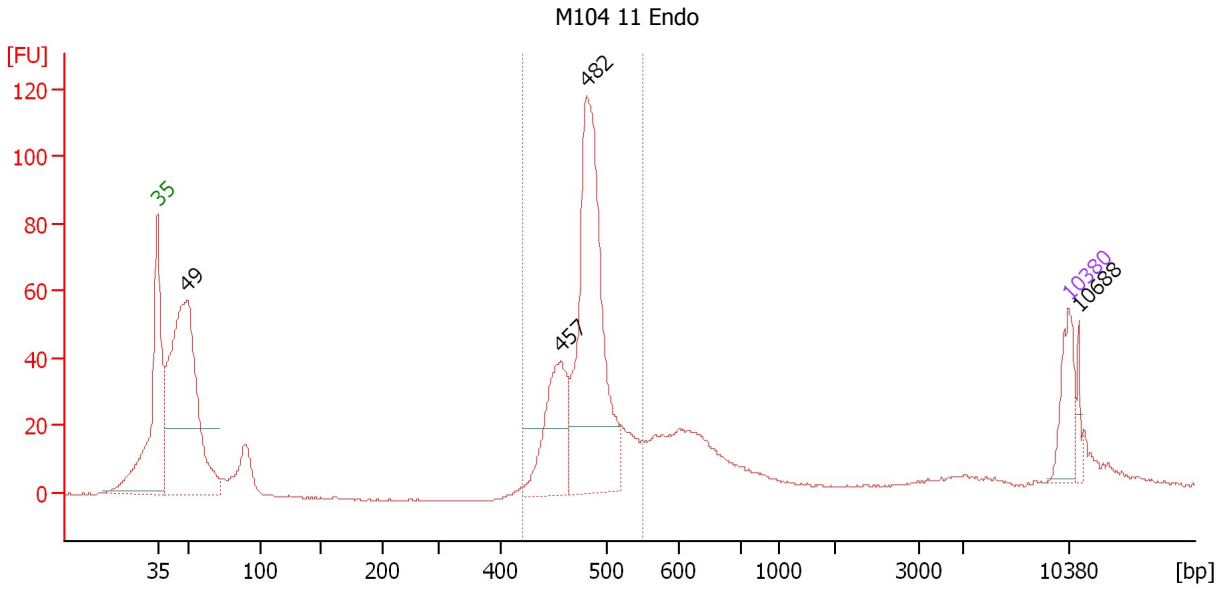
Region table for sample 8 : M104 11 BF

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
382	591	478	819.3	257.00	215.2	23	8.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : M104 11 Endo

Height Threshold [FU] : 20

Overall Results for sample 9 : M104 11 Endo

Number of peaks found: 4 Corr. Area 1: 464.6
 Noise: 0.2

Peak table for sample 9 : M104 11 Endo

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	934.31	28,609.7	
3	457	233.34	774.0	
4	482	653.32	2,053.1	
5	10,380	75.00	10.9	Upper Marker
6	10,688	0.00	0.0	

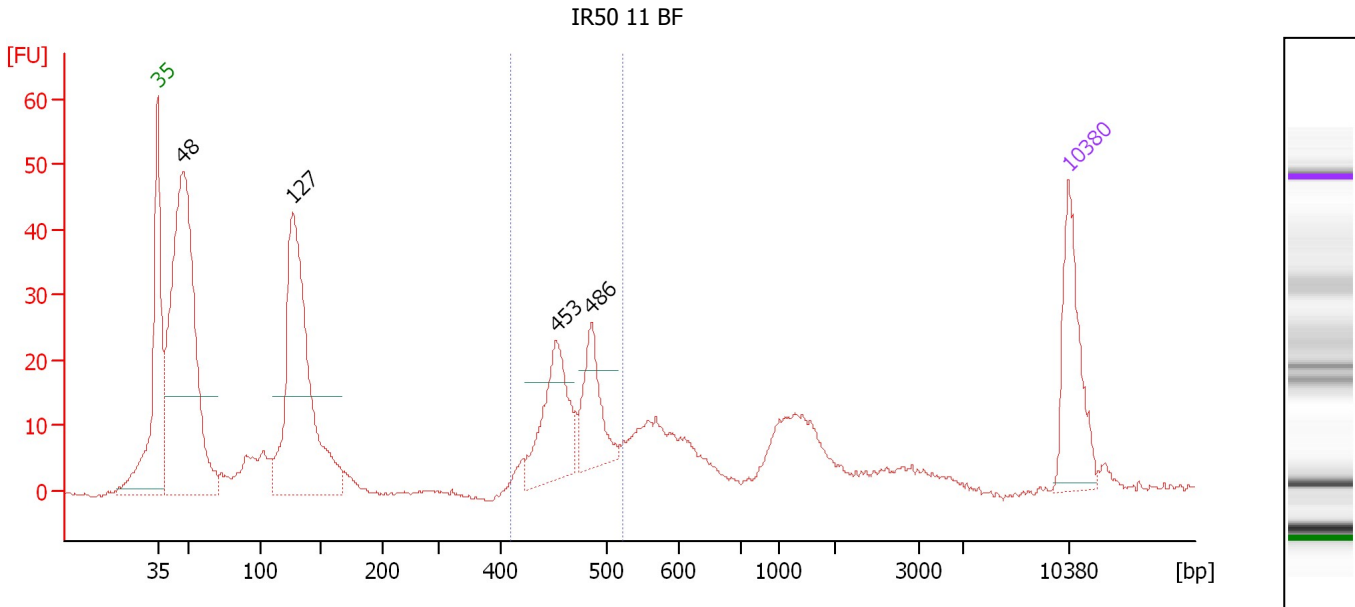
Region table for sample 9 : M104 11 Endo

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
420	551	483	3,021.1	960.24	464.6	41	5.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : IR50 11 BF

Height Threshold [FU] : 15

Overall Results for sample 10 : IR50 11 BF

Number of peaks found: 4 Corr. Area 1: 137.7
 Noise: 0.3

Peak table for sample 10 : IR50 11 BF

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	581.93	18,554.7	
3	127	392.08	4,673.6	
4	453	107.57	360.2	
5	486	71.94	224.2	
6	10,380	75.00	10.9	Upper Marker

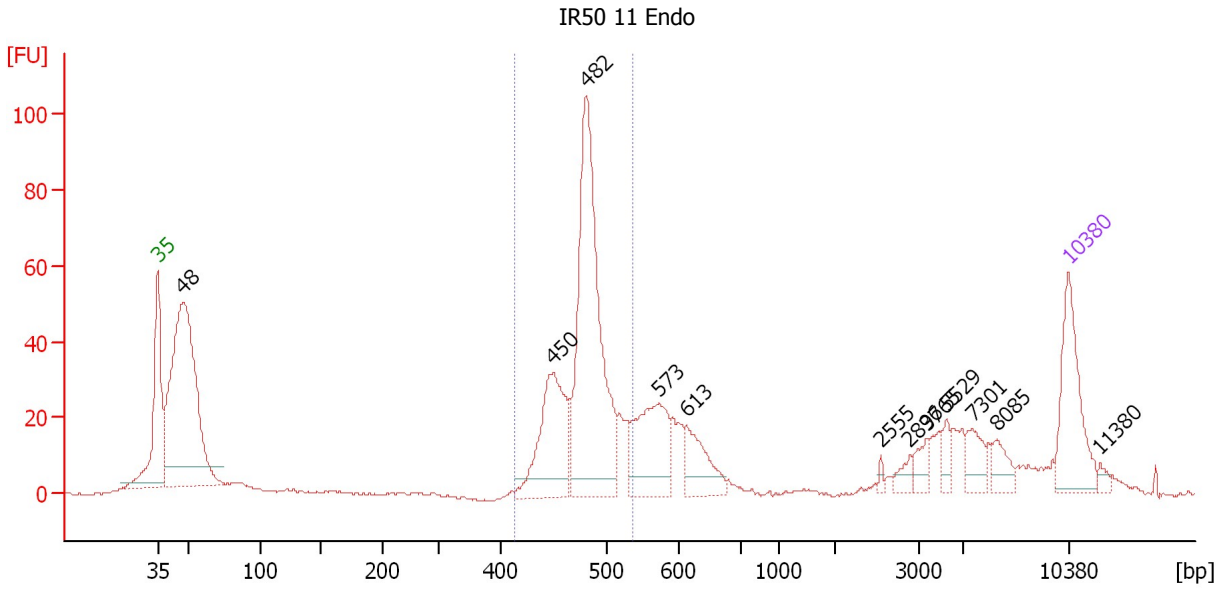
Region table for sample 10 : IR50 11 BF

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
409	524	468	757.0	233.55	137.7	19	5.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : IR50 11 Endo

Number of peaks found: 12 Corr. Area 1: 375.6
 Noise: 0.3

Peak table for sample 11 : IR50 11 Endo

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	452.20	14,385.0	
3	450	133.52	449.5	
4	482	338.02	1,063.2	
5	573	102.73	271.7	
6	613	50.92	125.9	
7	2,555	3.59	2.1	
8	2,896	10.38	5.4	
9	3,765	14.97	6.0	
10	5,529	11.96	3.3	
11	7,301	22.90	4.8	
12	8,085	18.56	3.5	
13	10,380	75.00	10.9	Upper Marker
14	11,380	0.00	0.0	

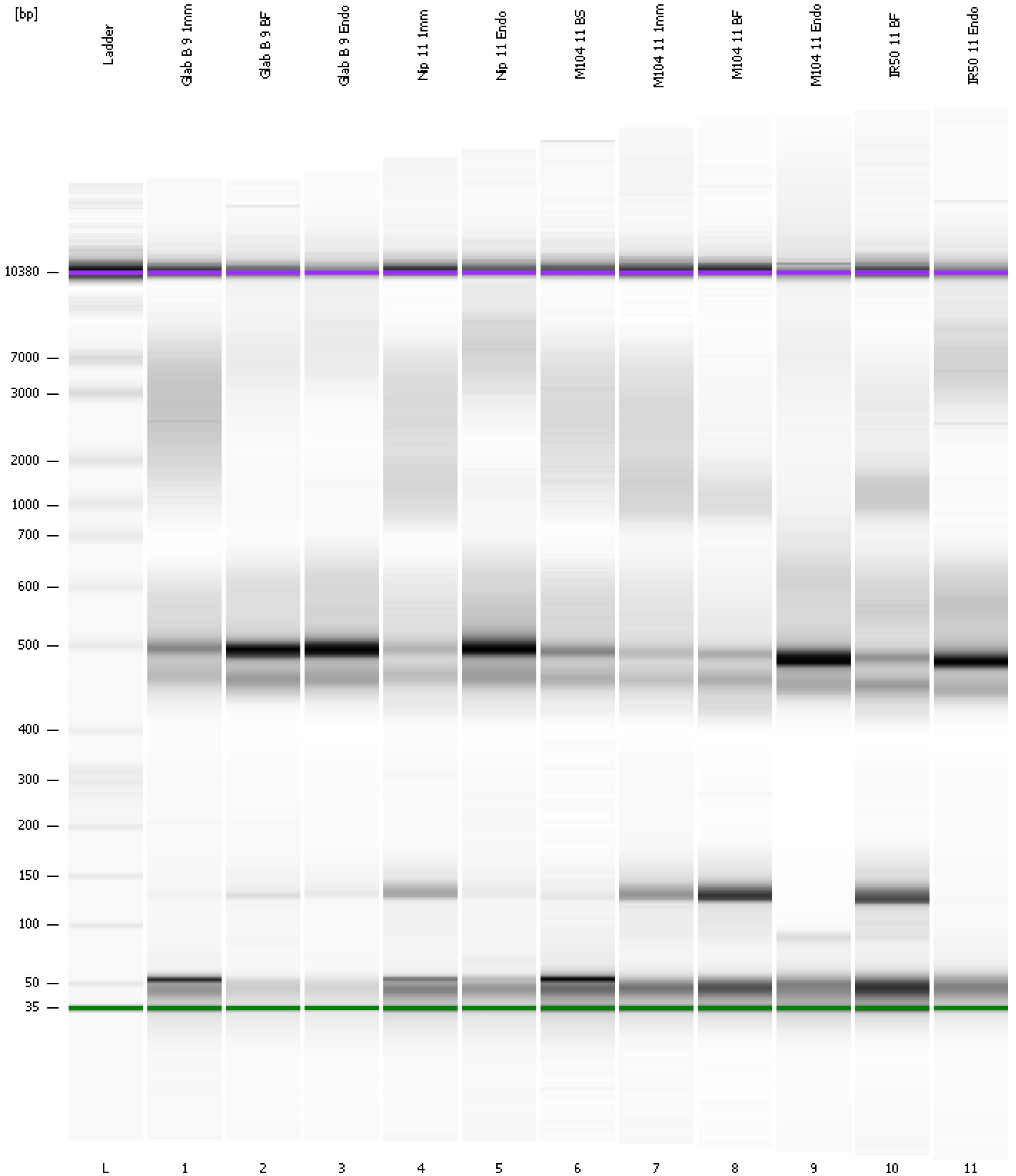
Region table for sample 11 : IR50 11 Endo

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
413	537	480	1,562.0	493.52	375.6	40	4.9	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
Modified: 7/11/2013 4:29:30 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad

Created: 7/11/2013 3:47:30 PM
 Modified: 7/11/2013 4:29:30 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		7/11/2013 4:27:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-11\2013-07-11_006.xad)		Instrument	Run		7/11/2013 3:47:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/11/2013 3:47:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/11/2013 3:47:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/11/2013 3:47:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/11/2013 3:47:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/11/2013 3:47:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/11/2013 3:47:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1