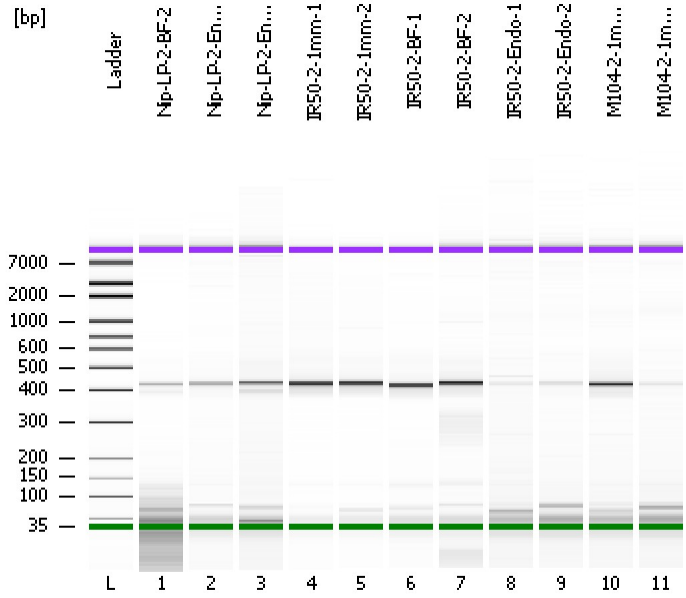
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
Modified: 7/31/2012 3:08:40 PM

Electrophoresis File Run Summary



Instrument Information:

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

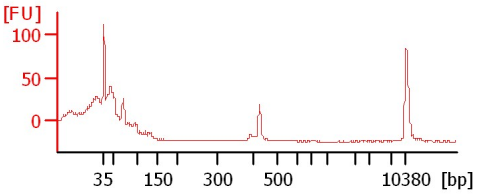
Assay Information:

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

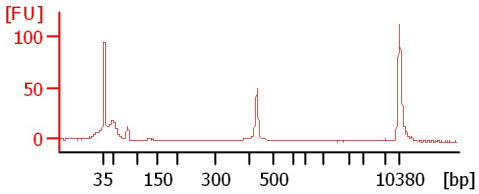
Chip Information:

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

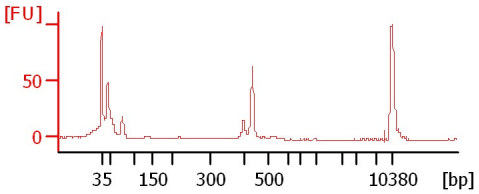
Nip-LP-2-BF-2



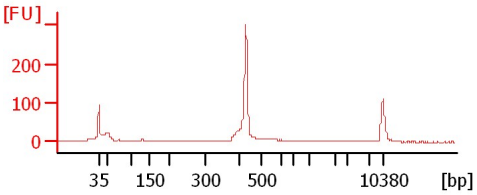
Nip-LP-2-Endo-1



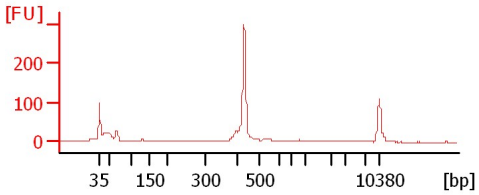
Nip-LP-2-Endo-2



IR50-2-1mm-1



IR50-2-1mm-2



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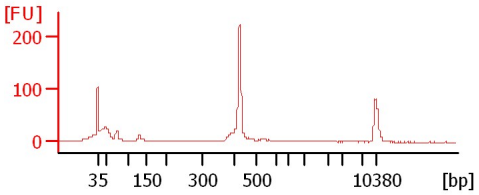
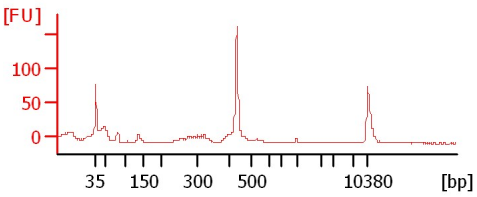
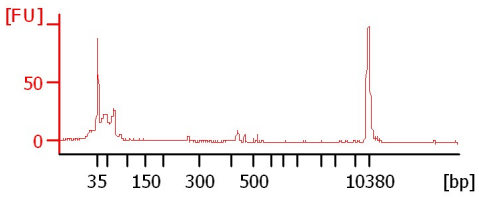


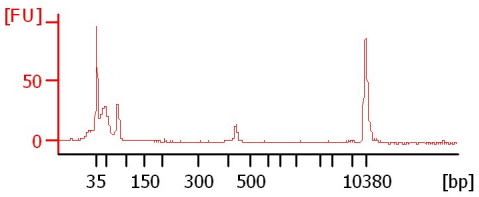
IR50-2-BF-2



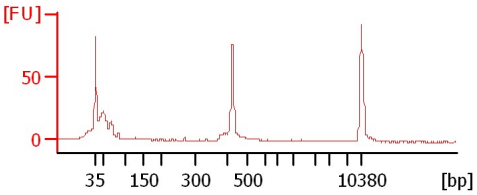
IR50-2-Endo-1



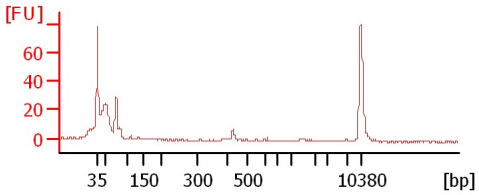
IR50-2-Endo-2



M104-2-1mm-1



M104-2-1mm-2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
Modified: 7/31/2012 3:08:40 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Nip-LP-2-BF-2		☐	✔			
Nip-LP-2-Endo-1		☐	✔			
Nip-LP-2-Endo-2		☐	✔			
IR50-2-1mm-1		☐	✔			
IR50-2-1mm-2		☐	✔			
IR50-2-BF-1		☐	✔			
IR50-2-BF-2		☐	✔			
IR50-2-Endo-1		☐	✔			
IR50-2-Endo-2		☐	✔			
M104-2-1mm-1		☐	✔			
M104-2-1mm-2		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
Modified: 7/31/2012 3:08:40 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

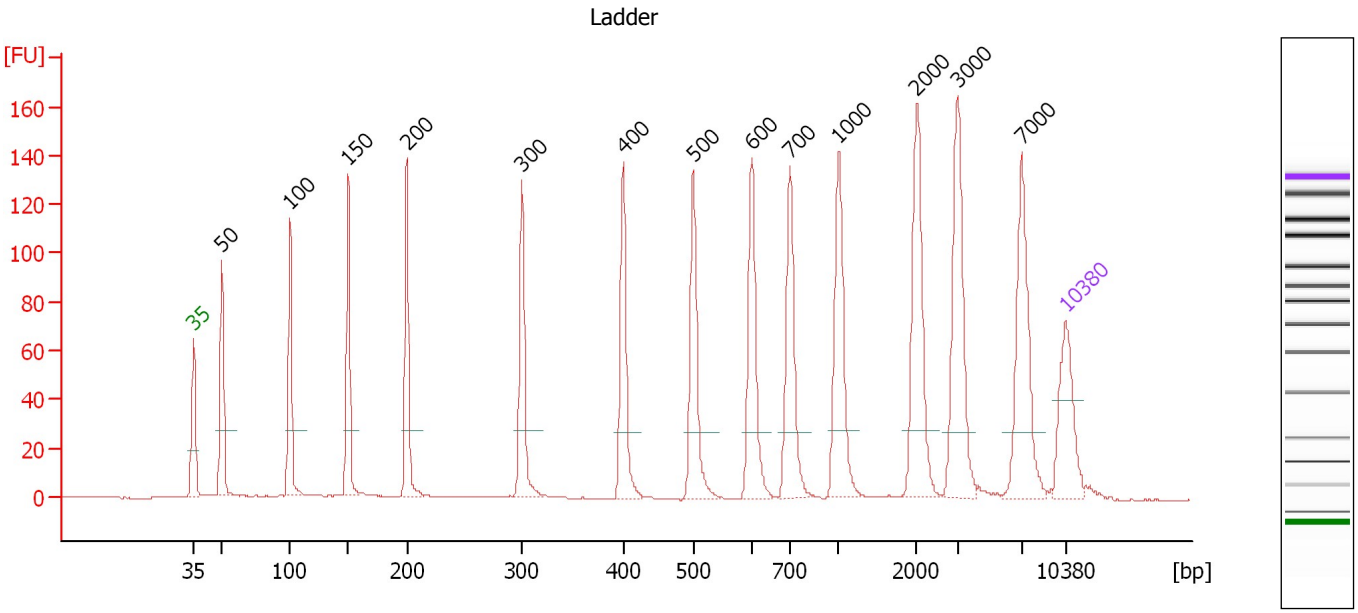
Ladder

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\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
Modified: 7/31/2012 3:08:40 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

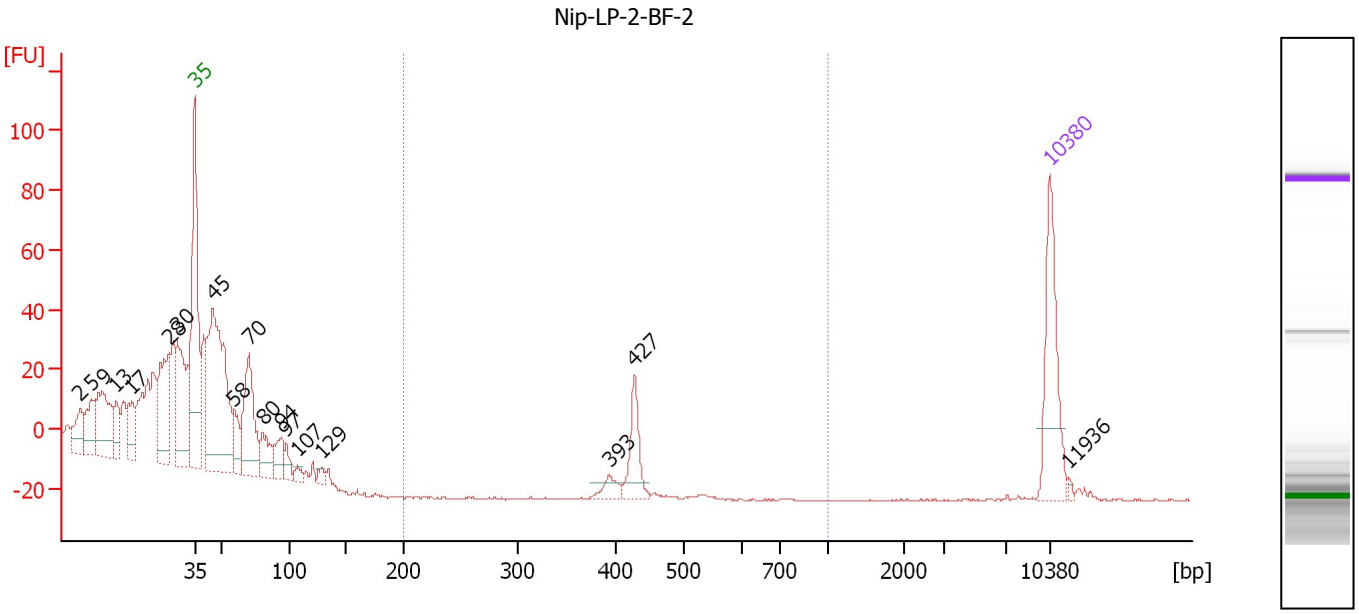
Peak table for Ladder

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\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
Modified: 7/31/2012 3:08:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Nip-LP-2-BF-2

Number of peaks found:	18	Corr. Area 1:	22.2
Noise:	0.3		

Peak table for sample 1 : Nip-LP-2-BF-2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	2	0.00	0.0	
2	5	0.00	0.0	
3	9	0.00	0.0	
4	13	0.00	0.0	
5	17	0.00	0.0	
6	28	0.00	0.0	
7	30	0.00	0.0	
8	35	125.00	5,411.3	Lower Marker
9	45	329.36	11,135.4	
10	58	43.69	1,141.6	
11	70	134.66	2,917.4	
12	80	42.35	799.2	
13	94	33.17	535.6	
14	97	18.49	287.5	
15	107	9.38	133.1	
16	129	9.85	115.9	
17	393	14.19	54.7	
18	427	46.15	163.7	
19	10,380	75.00	10.9	Upper Marker
20	11,936	0.00	0.0	

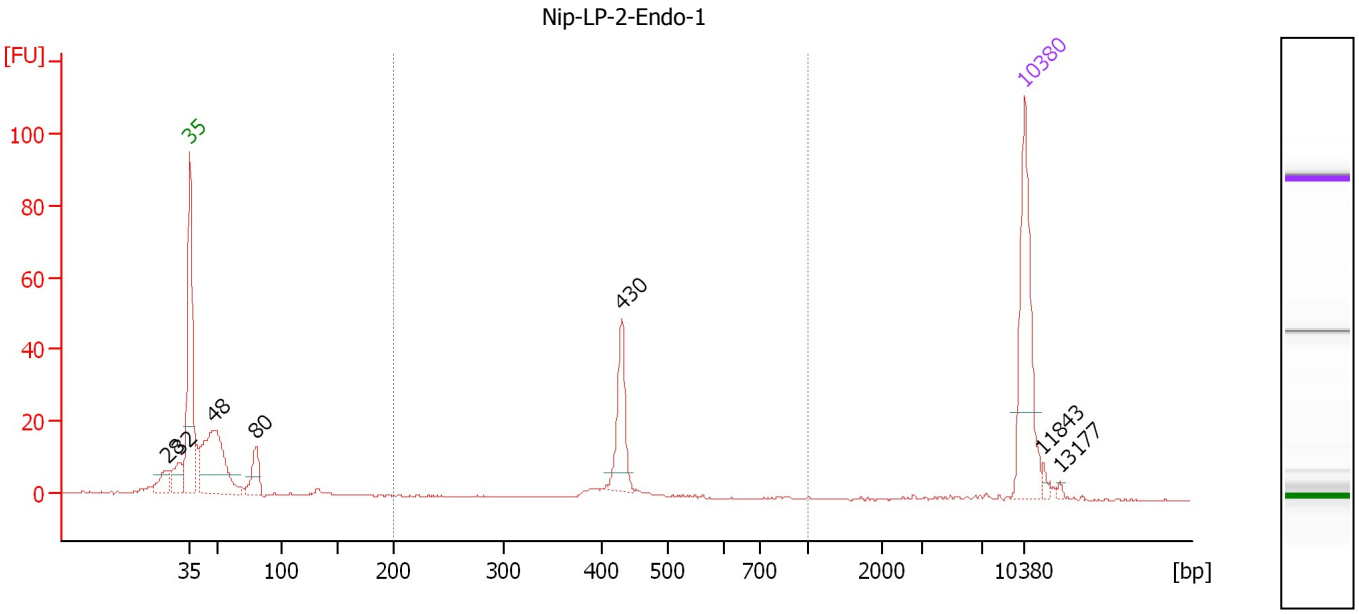
Region table for sample 1 : Nip-LP-2-BF-2

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	427	79.5	22.40	22.2	3	0.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
Modified: 7/31/2012 3:08:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Nip-LP-2-Endo-1

Number of peaks found:	7	Corr. Area 1:	62.9
Noise:	0.2		

Peak table for sample 2 : Nip-LP-2-Endo-1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	28	0.00	0.0	
2	32	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	48	131.81	4,160.6	
5	80	29.83	565.9	
6	430	49.06	172.7	
7	10,380	75.00	10.9	Upper Marker
8	11,843	0.00	0.0	
9	13,177	0.00	0.0	

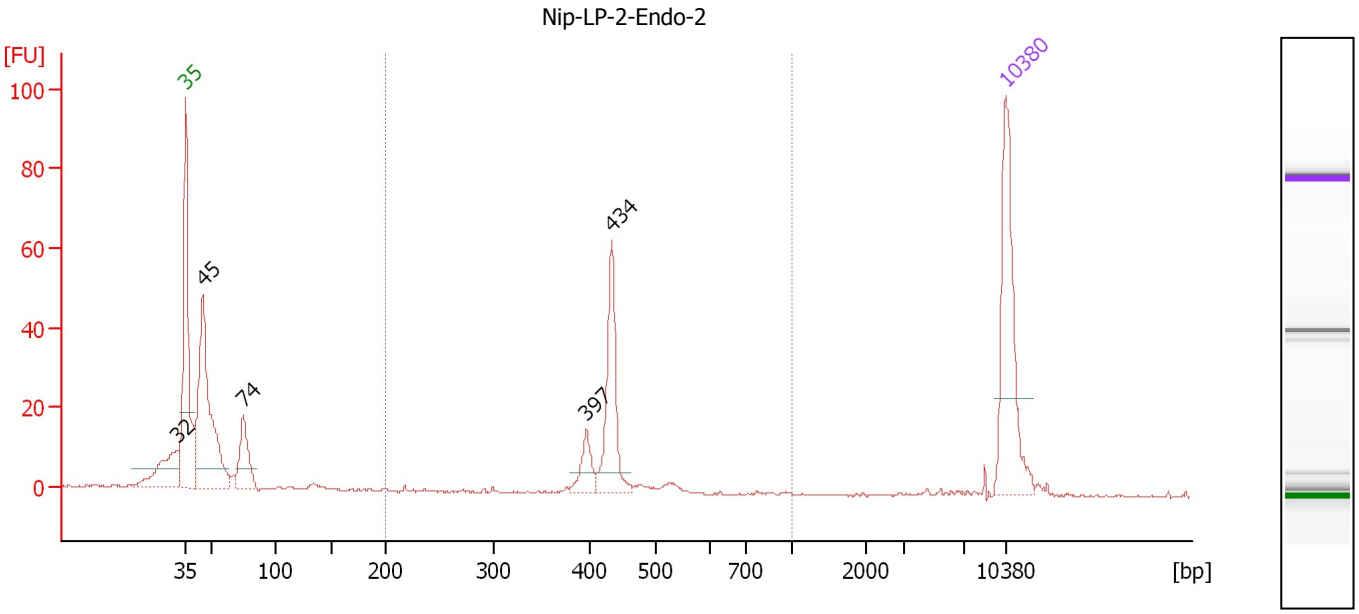
Region table for sample 2 : Nip-LP-2-Endo-1

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	429	223.8	63.27	62.9	25	5.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
Modified: 7/31/2012 3:08:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Nip-LP-2-Endo-2

Number of peaks found:	5	Corr. Area 1:	99.5
Noise:	0.3		

Peak table for sample 3 : Nip-LP-2-Endo-2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	45	202.52	6,875.6	
4	74	50.39	1,029.7	
5	397	20.11	76.8	
6	434	70.97	247.8	
7	10,380	75.00	10.9	Upper Marker

Region table for sample 3 : Nip-LP-2-Endo-2

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	431	341.9	96.49	99.5	30	8.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
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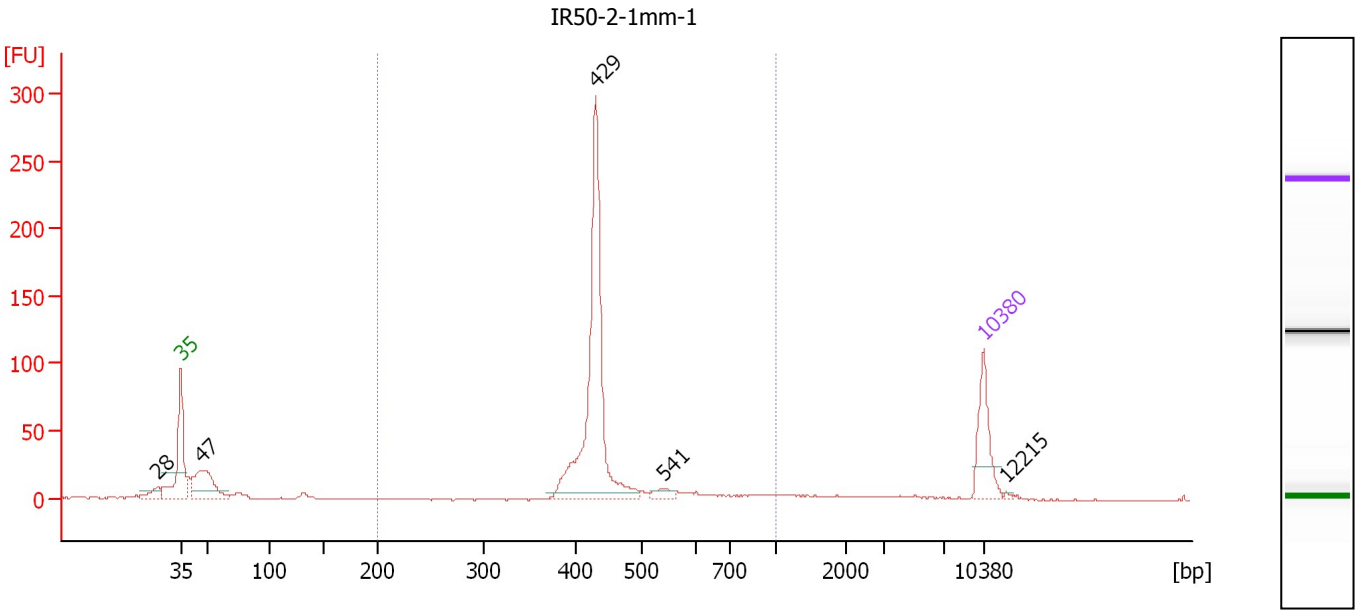
Electropherogram Summary Continued ...



Overall Results for sample 4 : IR50-2-1mm-1

Number of peaks found:	5	Corr. Area 1:	514.4
Noise:	0.3		

Peak table for sample 4 : IR50-2-1mm-1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	28	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	47	147.73	4,733.1	
4	429	487.64	1,720.3	
5	541	16.15	45.2	
6	10,380	75.00	10.9	Upper Marker
7	12,215	0.00	0.0	

Region table for sample 4 : IR50-2-1mm-1

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	443	1,790.1	514.23	514.4	76	15.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
Modified: 7/31/2012 3:08:40 PM

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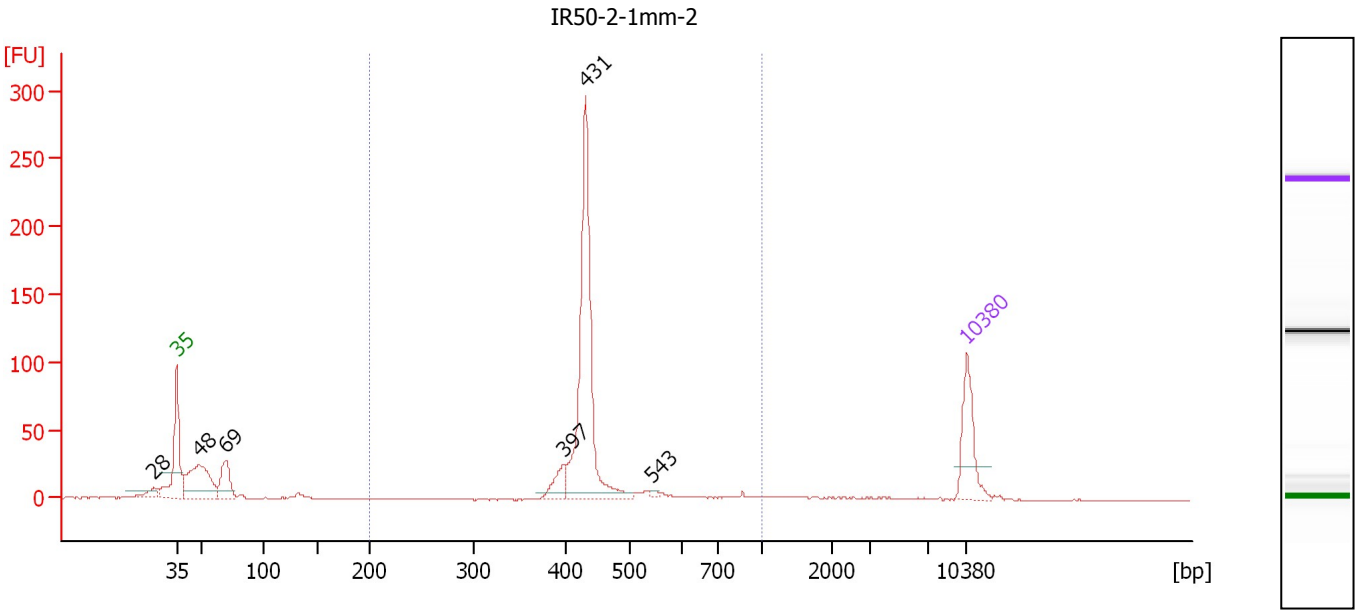

Overall Results for sample 5 : IR50-2-1mm-2

Number of peaks found:	6	Corr. Area 1:	497.6
Noise:	0.3		

Peak table for sample 5 : IR50-2-1mm-2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	28	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	191.71	5,998.1	
4	69	82.88	1,821.5	
5	397	39.97	152.6	
6	431	411.74	1,448.5	
7	543	4.99	13.9	
8	10,380	75.00	10.9	Upper Marker

Region table for sample 5 : IR50-2-1mm-2

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	446	1,688.8	487.17	497.6	66	16.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
Modified: 7/31/2012 3:08:40 PM

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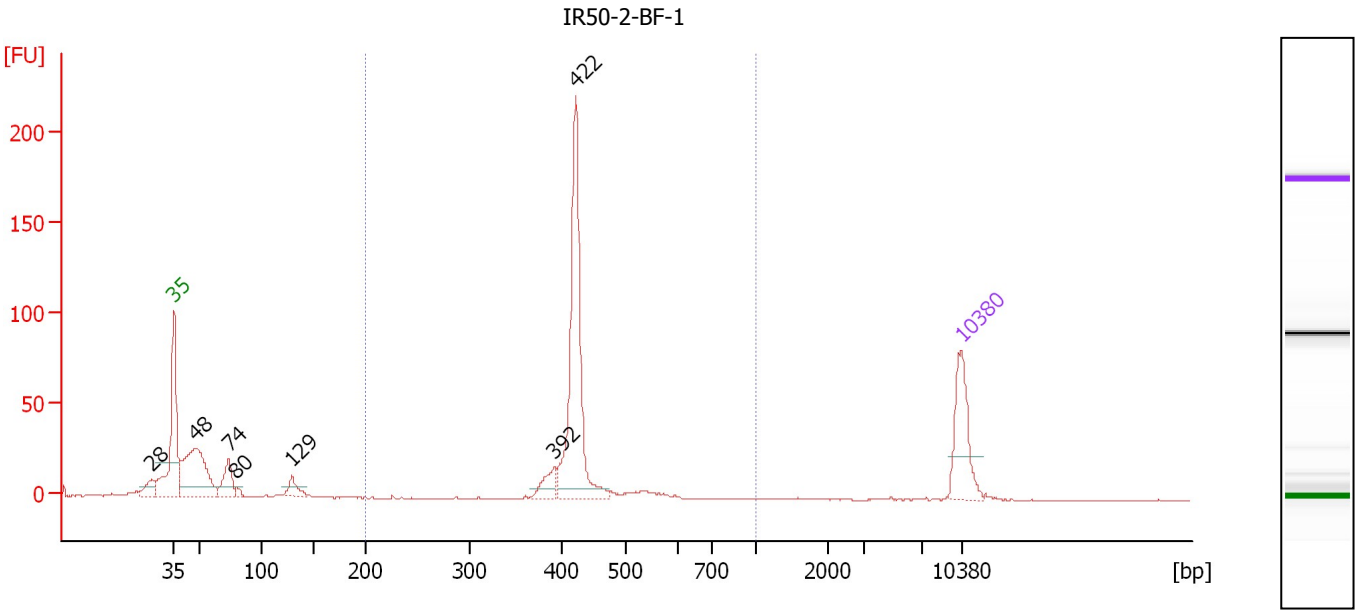


Overall Results for sample 6 : IR50-2-BF-1

Number of peaks found:	7	Corr. Area 1:	345.0
Noise:	0.2		

Peak table for sample 6 : IR50-2-BF-1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	28	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	227.17	7,194.0	
4	74	59.38	1,218.6	
5	80	8.81	167.1	
6	129	27.56	323.3	
7	392	31.93	123.5	
8	422	312.19	1,121.2	
9	10,380	75.00	10.9	Upper Marker

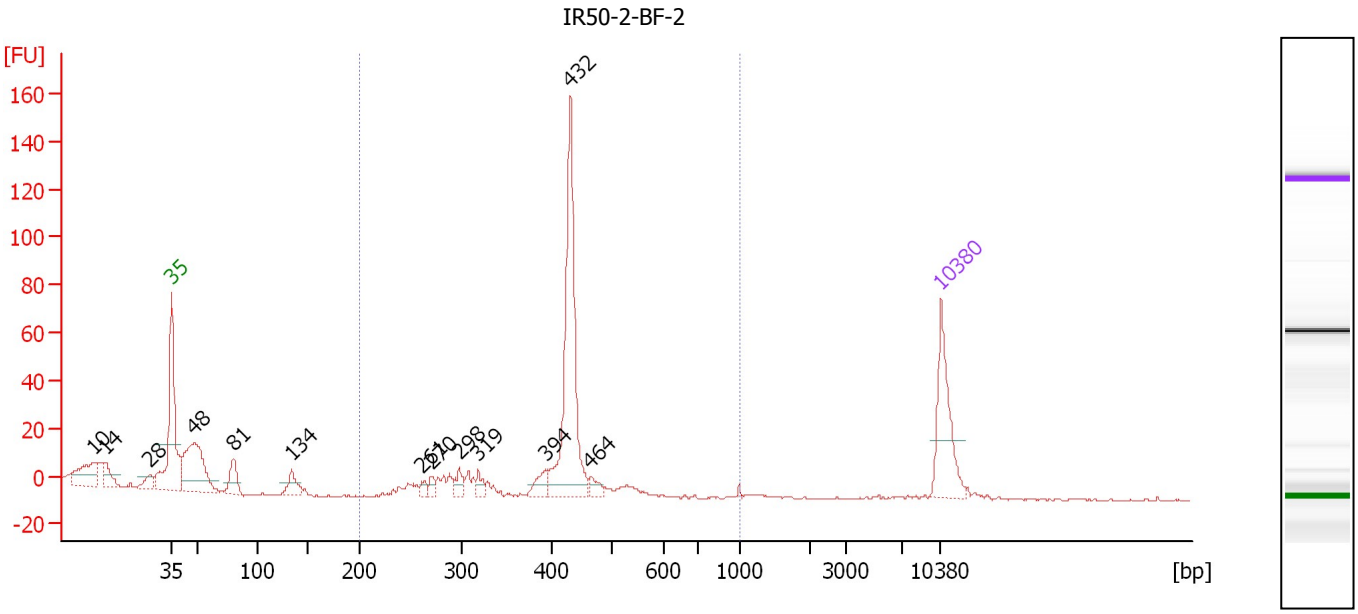
Region table for sample 6 : IR50-2-BF-1

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	426	1,305.9	364.65	345.0	57	9.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
Modified: 7/31/2012 3:08:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : IR50-2-BF-2

Number of peaks found:	13	Corr. Area 1:	221.6
Noise:	0.3		

Peak table for sample 7 : IR50-2-BF-2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	10	0.00	0.0	
2	14	0.00	0.0	
3	28	0.00	0.0	
4	35	125.00	5,411.3	Lower Marker
5	48	171.06	5,346.4	
6	81	40.99	769.8	
7	134	30.96	350.0	
8	261	9.78	56.7	
9	270	11.95	66.9	
10	298	16.35	83.0	
11	319	14.46	68.7	
12	394	22.06	84.8	
13	432	263.52	923.9	
14	464	13.68	44.7	
15	10,380	75.00	10.9	Upper Marker

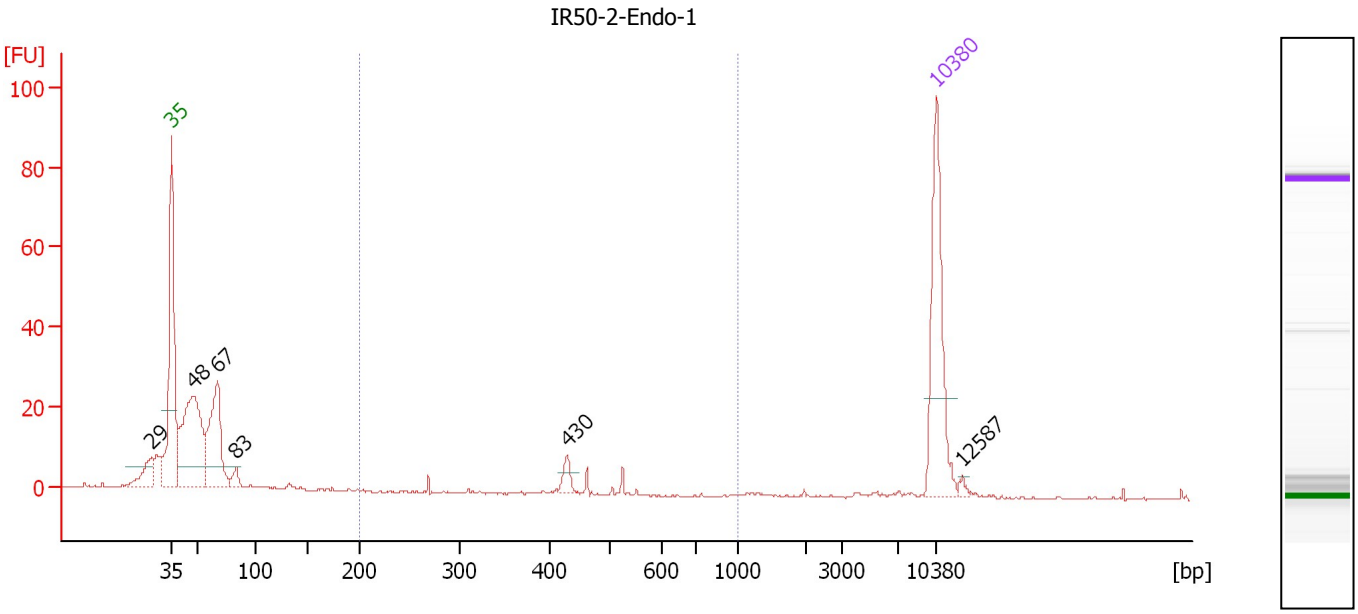
Region table for sample 7 : IR50-2-BF-2

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	423	978.0	268.60	221.6	68	10.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
Modified: 7/31/2012 3:08:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : IR50-2-Endo-1

Number of peaks found:	6	Corr. Area 1:	13.6
Noise:	0.2		

Peak table for sample 8 : IR50-2-Endo-1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	29	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	169.80	5,335.4	
4	67	105.34	2,377.6	
5	83	10.11	184.2	
6	430	10.08	35.5	
7	10,380	75.00	10.9	Upper Marker
8	12,587	0.00	0.0	

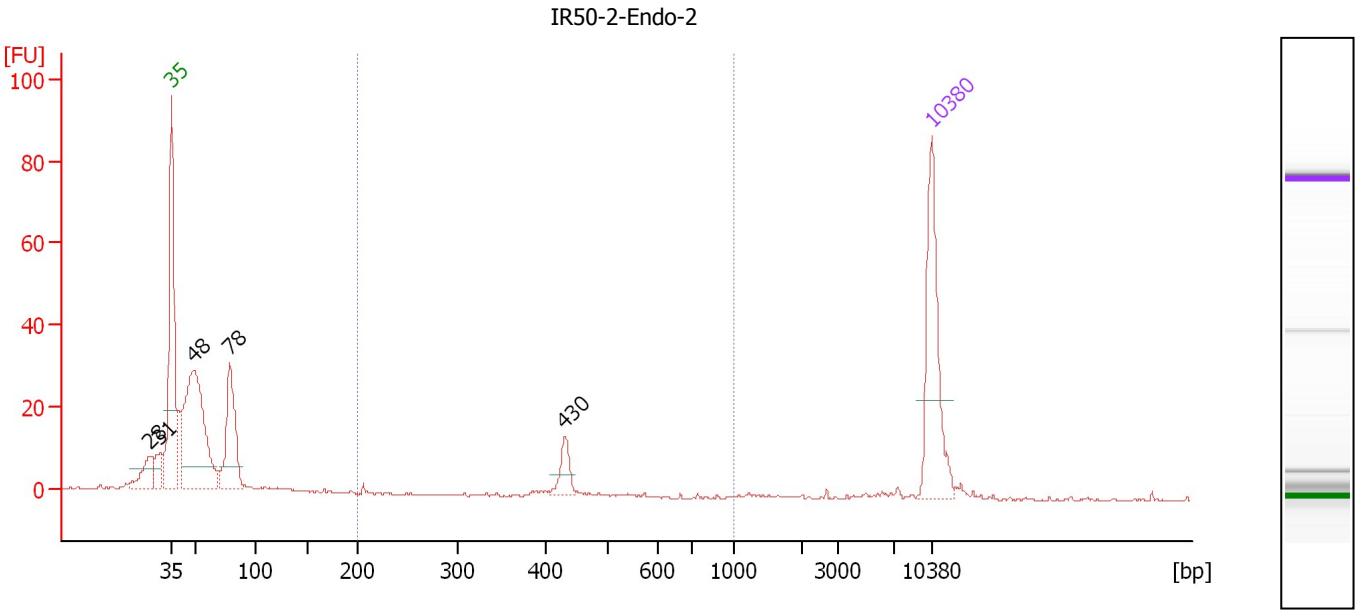
Region table for sample 8 : IR50-2-Endo-1

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	435	53.8	14.85	13.6	5	13.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
Modified: 7/31/2012 3:08:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : IR50-2-Endo-2

Number of peaks found:	5	Corr. Area 1:	17.5
Noise:	0.2		

Peak table for sample 9 : IR50-2-Endo-2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	28	0.00	0.0	
2	31	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	48	229.67	7,202.7	
5	78	99.40	1,927.2	
6	430	19.29	68.0	
7	10,380	75.00	10.9	Upper Marker

Region table for sample 9 : IR50-2-Endo-2

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	425	71.2	19.46	17.5	6	8.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-31\2012-07-31_003.xad

Created: 7/31/2012 2:27:16 PM
Modified: 7/31/2012 3:08:40 PM

Gel Image