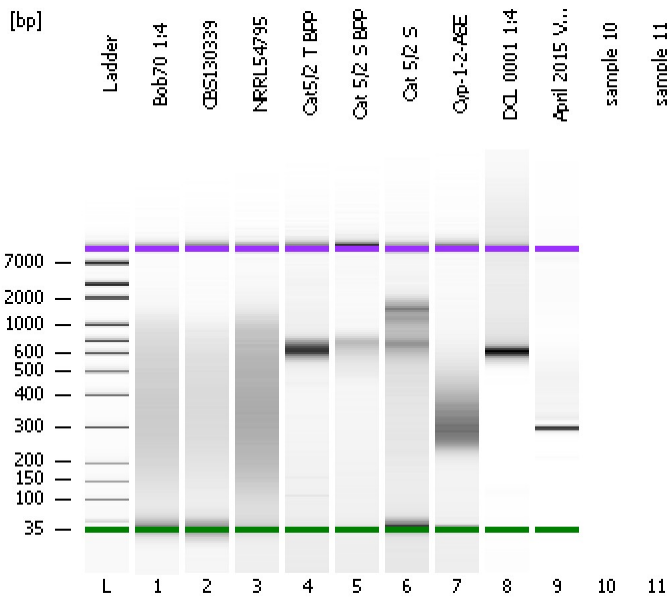


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
Modified: 4/30/2015 11:00:57 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

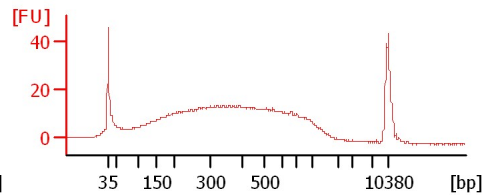
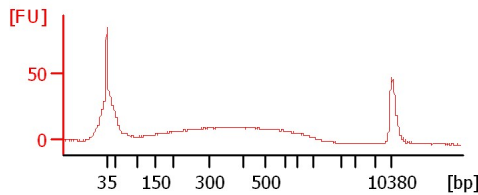
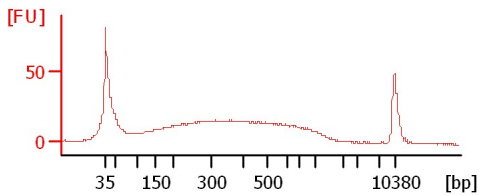
Chip Information:

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

Bob70 1:4

CBS130339

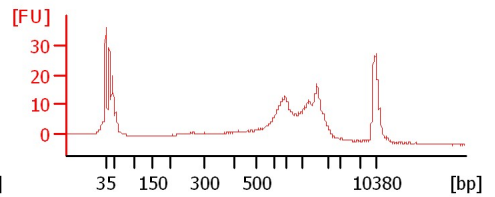
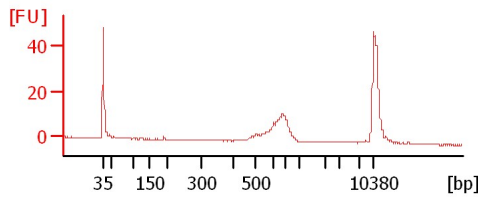
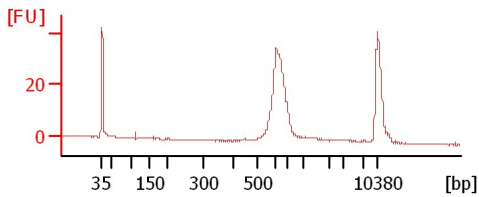
NRRL54795



Cat5/2 T BPP

Cat 5/2 S BPP

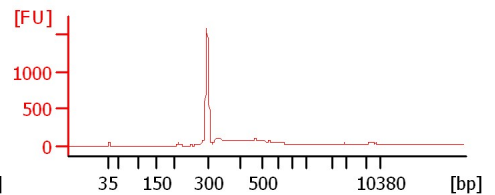
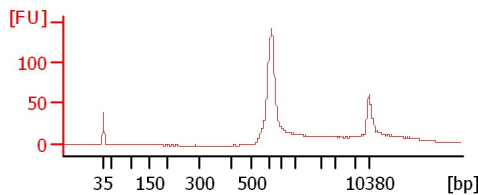
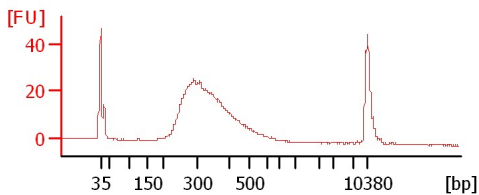
Cat 5/2 S



Cyp-1-2-ASE

DCL 0001 1:4

April 2015 V4 1:20



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
Modified: 4/30/2015 11:00:57 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Bob70 1:4		<input type="checkbox"/>	✓			
CBS130339		<input type="checkbox"/>	✓			
NRRL54795		<input type="checkbox"/>	✓			
Cat5/2 T BPP		<input type="checkbox"/>	✓			
Cat 5/2 S BPP		<input type="checkbox"/>	✓			
Cat 5/2 S		<input type="checkbox"/>	✓			
Cyp-1-2-ASE		<input type="checkbox"/>	✓			
DCL 0001 1:4		<input type="checkbox"/>	✓			
April 2015 V4 1:20		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>				
sample 11		<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\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
Modified: 4/30/2015 11:00:57 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

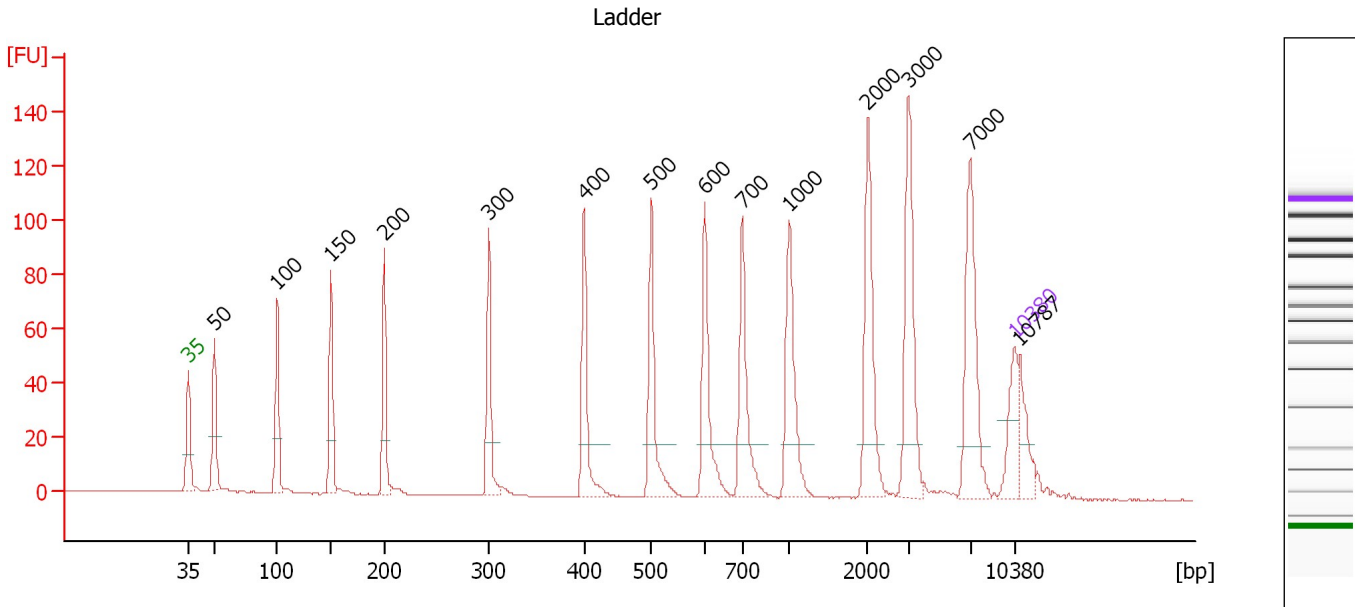
Ladder

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\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
 Modified: 4/30/2015 11:00:57 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

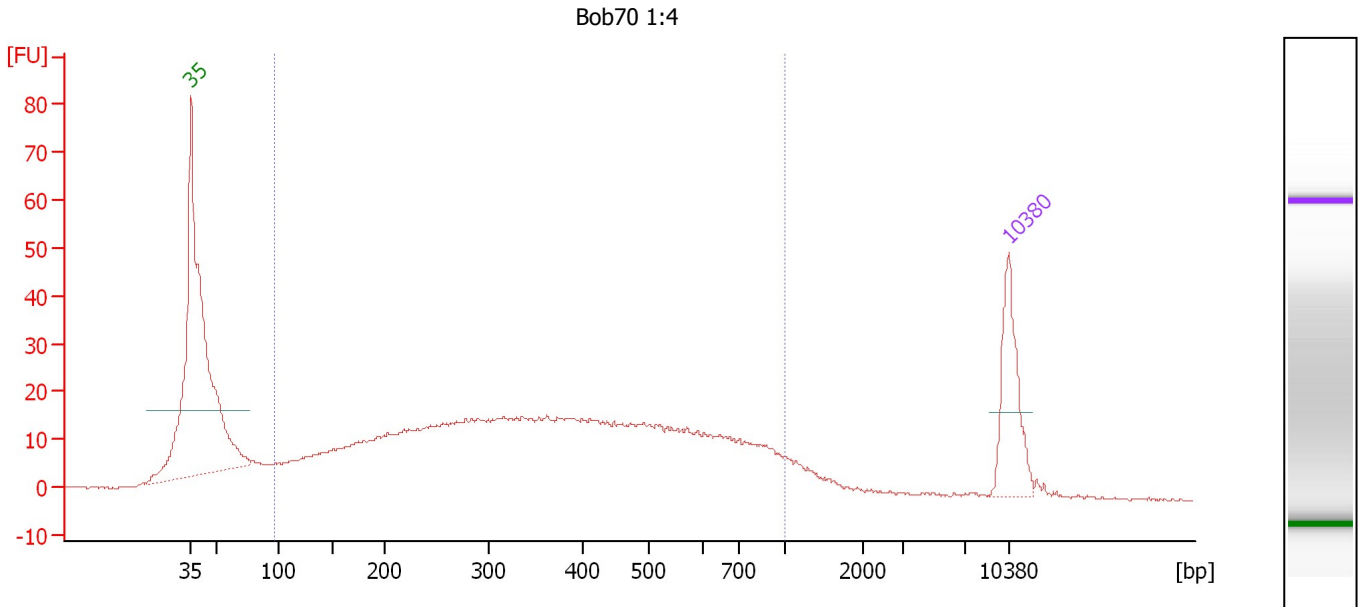
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.21
3	100	150.00	2,272.7	Ladder Peak	50.54
4	150	150.00	1,515.2	Ladder Peak	55.10
5	200	150.00	1,136.4	Ladder Peak	59.62
6	300	150.00	757.6	Ladder Peak	68.47
7	400	150.00	568.2	Ladder Peak	76.55
8	500	150.00	454.5	Ladder Peak	82.20
9	600	150.00	378.8	Ladder Peak	86.76
10	700	150.00	324.7	Ladder Peak	89.97
11	1,000	150.00	227.3	Ladder Peak	93.90
12	2,000	150.00	113.6	Ladder Peak	100.58
13	3,000	150.00	75.8	Ladder Peak	104.01
14	7,000	150.00	32.5	Ladder Peak	109.25
15	10,380	75.00	10.9	Upper Marker	113.00
16	10,787	0.00	0.0		113.45

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
 Modified: 4/30/2015 11:00:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Bob70 1:4

Number of peaks found: 0 Corr. Area 1: 794.2
 Noise: 0.2

Peak table for sample 1 : Bob70 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

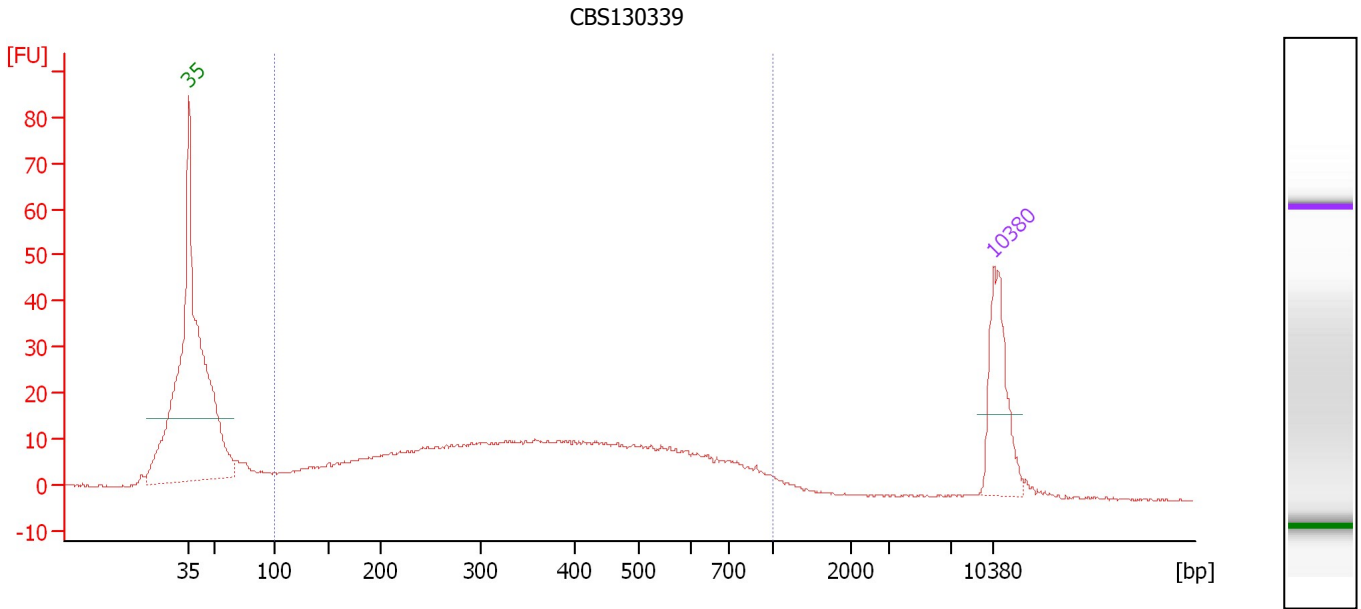
Region table for sample 1 : Bob70 1:4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
97	395	1,000	794.2	7,476.9	92	48.5	1,318.67	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
 Modified: 4/30/2015 11:00:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : CBS130339

Number of peaks found: 0 Corr. Area 1: 536.4
 Noise: 0.2

Peak table for sample 2 : CBS130339

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

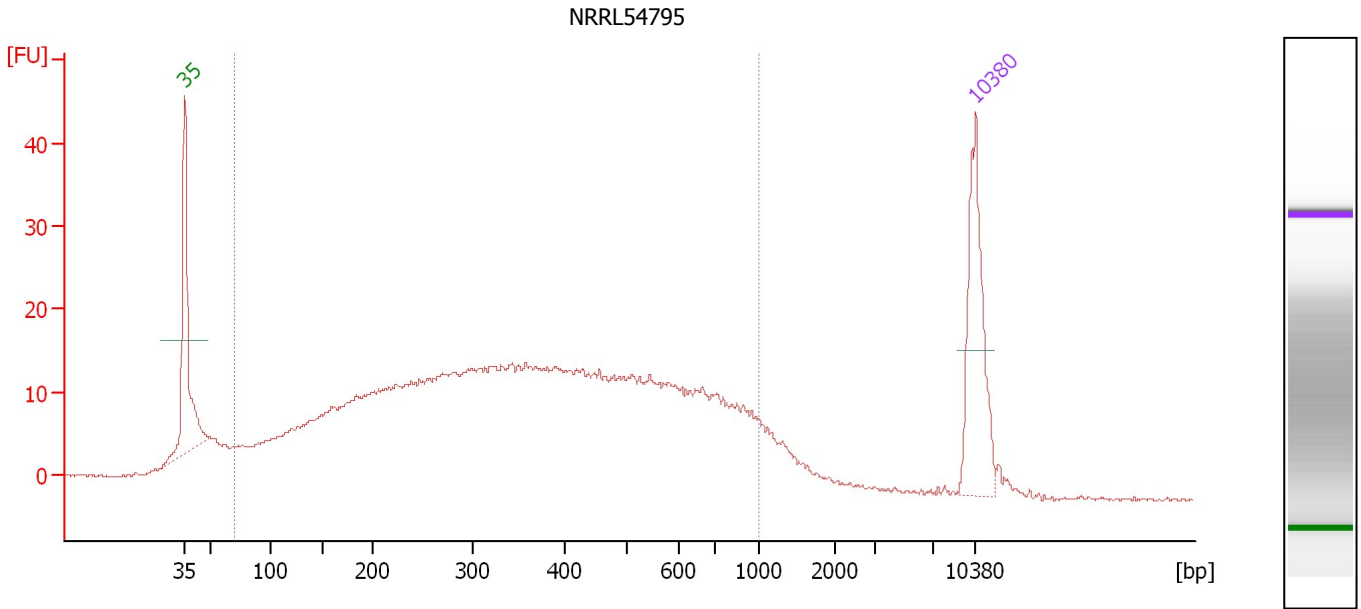
Region table for sample 2 : CBS130339

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
99	394	1,000	536.4	4,386.2	90	46.3	792.93	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
 Modified: 4/30/2015 11:00:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : NRRL54795

Number of peaks found: 0 Corr. Area 1: 756.1
 Noise: 0.2

Peak table for sample 3 : NRRL54795

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

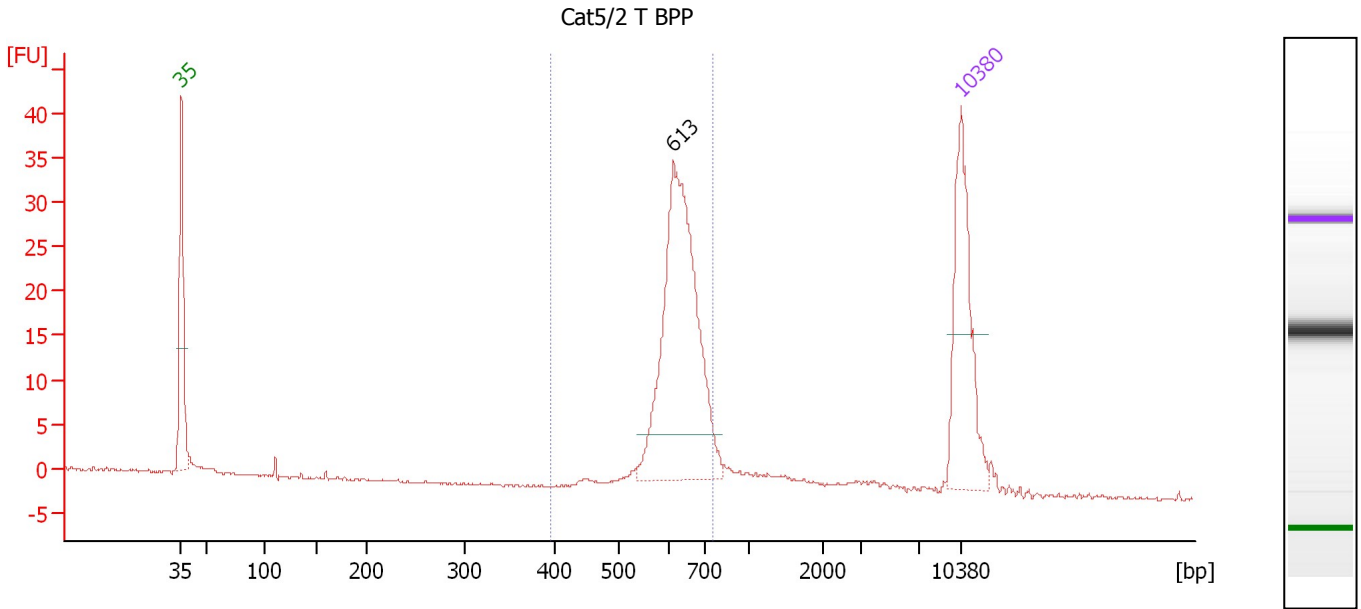
Region table for sample 3 : NRRL54795

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
71	392	1,000	756.1	9,059.2	92	50.5	1,471.14	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
 Modified: 4/30/2015 11:00:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Cat5/2 T BPP

Number of peaks found: 1 Corr. Area 1: 148.8
 Noise: 0.1

Peak table for sample 4 : Cat5/2 T BPP

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	613	218.08	539.5		87.16
3	10,380	75.00	10.9	Upper Marker	113.00

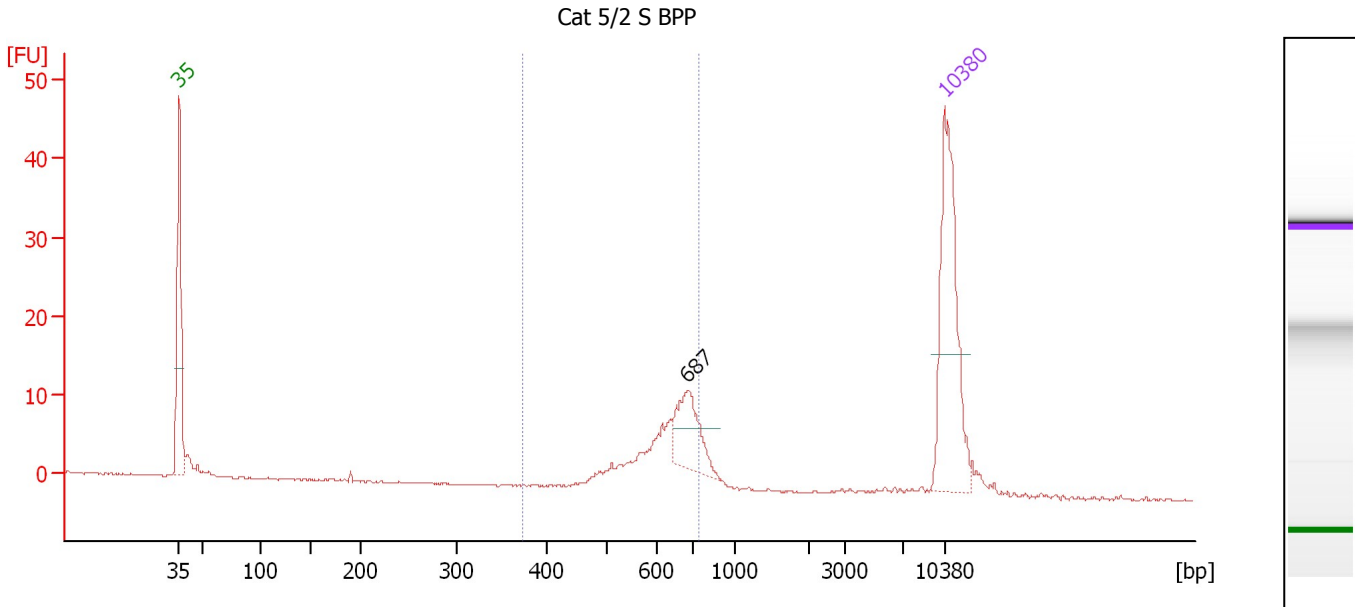
Region table for sample 4 : Cat5/2 T BPP

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
396	631	758	148.8	540.2	84	7.0	224.15	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
 Modified: 4/30/2015 11:00:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Cat 5/2 S BPP

Number of peaks found: 1 Corr. Area 1: 66.0
 Noise: 0.1

Peak table for sample 5 : Cat 5/2 S BPP

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	687	36.94	81.5		89.54
3	10,380	75.00	10.9	Upper Marker	113.00

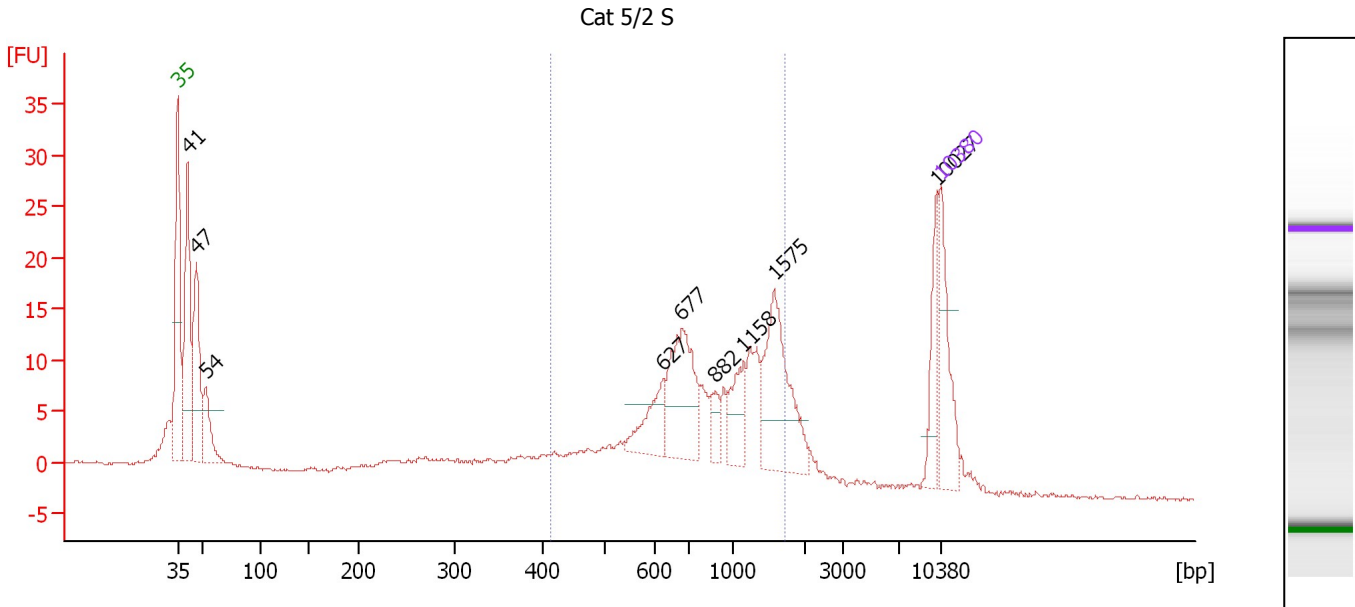
Region table for sample 5 : Cat 5/2 S BPP

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
373	624	749	66.0	215.4	71	10.9	87.36	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
 Modified: 4/30/2015 11:00:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Cat 5/2 S

Number of peaks found: 9 Corr. Area 1: 195.9
 Noise: 0.2

Peak table for sample 6 : Cat 5/2 S

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	41	228.94	8,398.8		43.93
3	47	168.56	5,479.9		44.71
4	54	68.75	1,944.9		45.59
5	627	57.31	138.6		87.61
6	677	130.48	292.1		89.23
7	882	21.43	36.8		92.36
8	1,158	47.70	62.4		94.95
9	1,575	134.89	129.8		97.74
10	10,027	44.36	6.7		112.61
11	10,380	75.00	10.9	Upper Marker	113.00

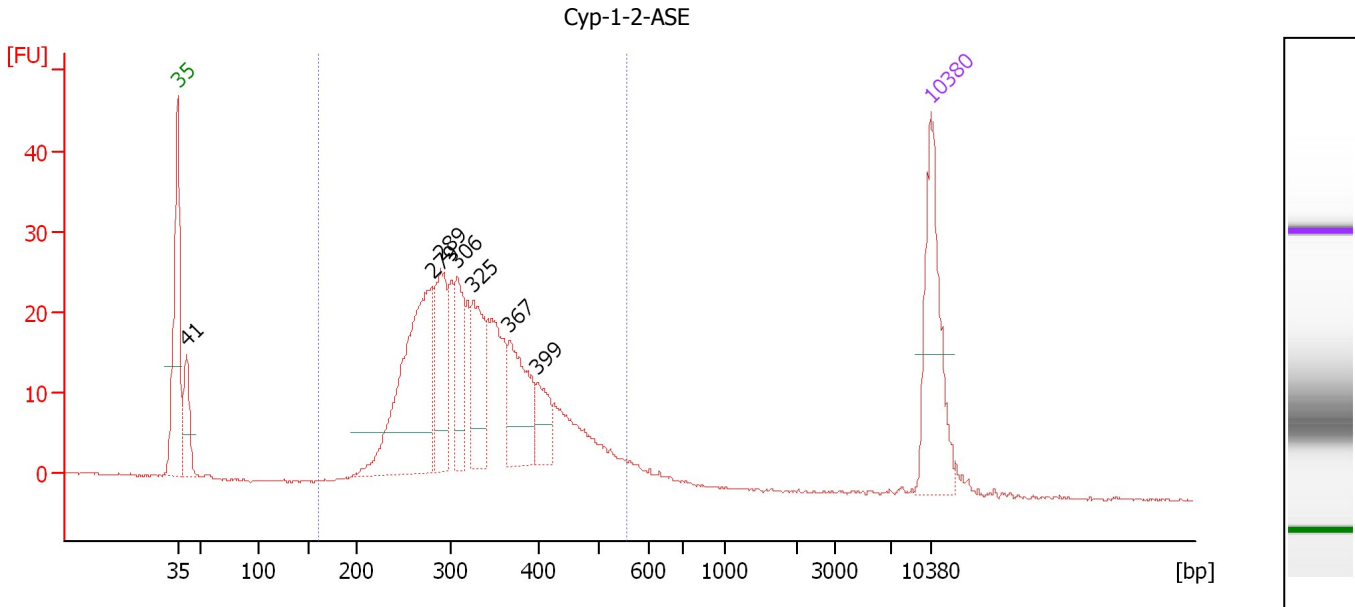
Region table for sample 6 : Cat 5/2 S

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
412	941	1,731	195.9	1,296.2	51	40.9	656.78	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
 Modified: 4/30/2015 11:00:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Cyp-1-2-ASE

Number of peaks found: 7 Corr. Area 1: 481.1
 Noise: 0.1

Peak table for sample 7 : Cyp-1-2-ASE

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	41	51.76	1,926.4		43.84
3	279	209.62	1,137.5		66.63
4	289	78.64	412.7		67.47
5	306	60.22	298.2		68.96
6	325	73.40	342.2		70.49
7	367	73.17	302.3		73.86
8	399	29.73	113.0		76.44
9	10,380	75.00	10.9	Upper Marker	113.00

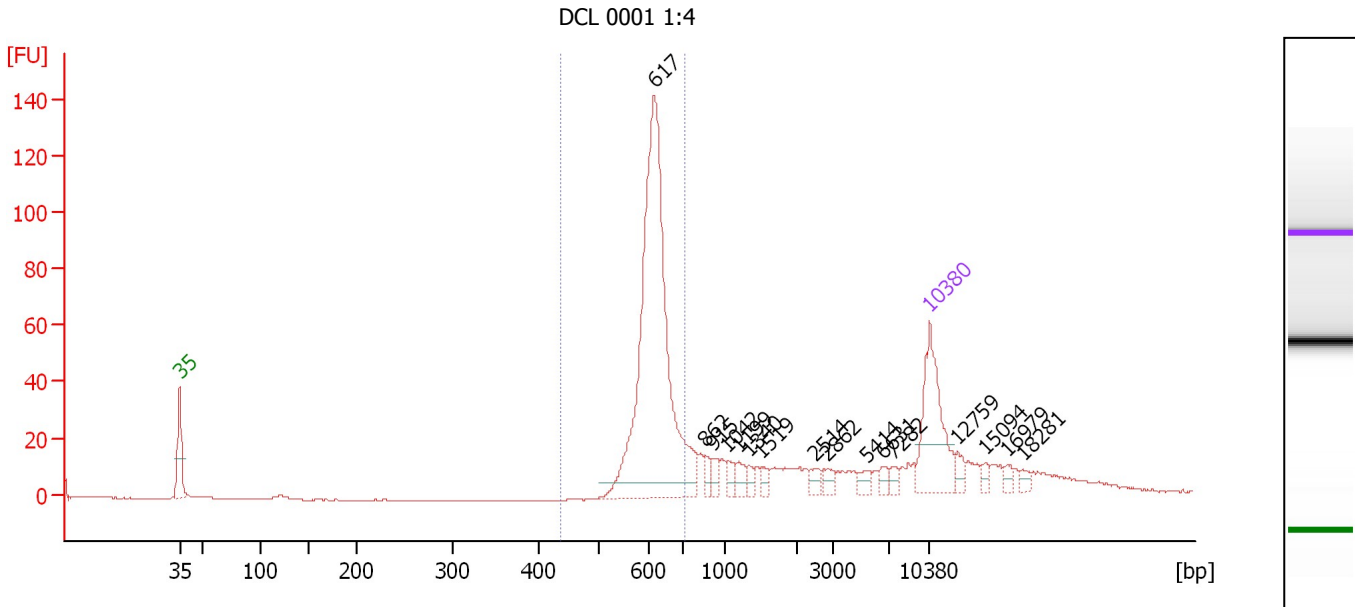
Region table for sample 7 : Cyp-1-2-ASE

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
161	335	556	481.1	3,928.0	92	21.3	820.34	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
 Modified: 4/30/2015 11:00:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : DCL 0001 1:4

Number of peaks found: 16 Corr. Area 1: 412.2
 Noise: 0.1

Peak table for sample 8 : DCL 0001 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	617	430.23	1,056.3		87.31
3	862	9.19	16.1		92.09
4	915	9.84	16.3		92.79
5	1,042	10.19	14.8		94.18
6	1,199	10.78	13.6		95.23
7	1,340	6.04	6.8		96.17
8	1,519	5.87	5.9		97.37
9	2,514	7.42	4.5		102.35
10	2,862	8.11	4.3		103.54
11	5,414	7.54	2.1		107.17
12	6,631	6.71	1.5		108.77
13	7,282	6.08	1.3		109.56
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,759	0.00	0.0		115.64
16	15,094	0.00	0.0		118.23
17	16,979	0.00	0.0		120.32
18	18,281	0.00	0.0		121.76

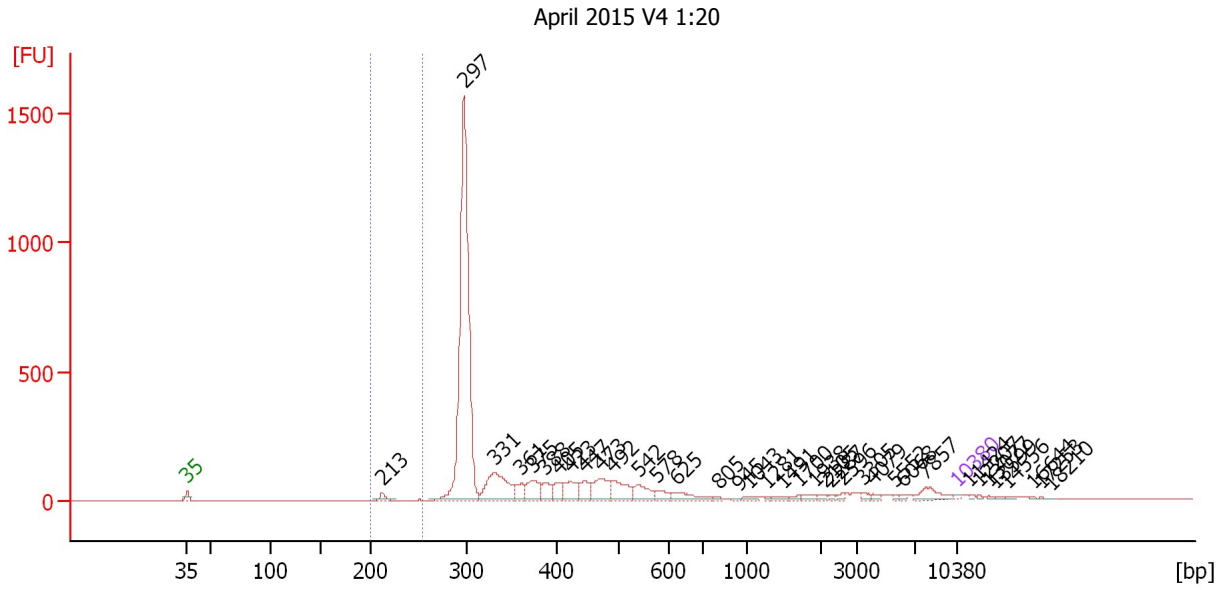
Region table for sample 8 : DCL 0001 1:4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
435	617	712	412.2	982.3	57	5.5	399.03	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
 Modified: 4/30/2015 11:00:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : April 2015 V4 1:20

Number of peaks found: 37 Corr. Area 1: 39.1
 Noise: 0.4

Peak table for sample 9 : April 2015 V4 1:20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	213	360.56	2,567.1		60.75
3	297	20,221.14	103,248.0		68.18
4	331	3,147.46	14,405.5		70.98
5	361	723.95	3,039.4		73.39
6	375	1,193.60	4,827.6		74.50
7	388	705.45	2,756.6		75.56
8	405	694.50	2,600.4		76.82
9	423	1,055.88	3,777.9		77.88
10	447	795.38	2,698.8		79.18
11	473	1,440.47	4,614.0		80.68
12	492	1,353.76	4,170.4		81.74
13	542	900.38	2,518.3		84.10
14	578	453.60	1,189.7		85.74
15	625	677.60	1,641.6		87.58
16	805	82.85	156.0		91.34
17	945	51.54	82.7		93.17
18	1,043	126.07	183.1		94.19
19	1,281	54.32	64.2		95.78
20	1,491	135.89	138.1		97.18
21	1,700	113.13	100.8		98.58
22	1,938	175.12	136.9		100.17
23	2,105	118.83	85.6		100.94
24	2,287	83.15	55.1		101.57
25	2,596	94.94	55.4		102.63

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad


Created: 4/30/2015 8:28:02 AM
 Modified: 4/30/2015 11:00:57 AM

Electropherogram Summary Continued ...

... Peak table for sample 9 : April 2015 V4 1:20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,305	138.82	63.6		104.41
27	4,079	117.42	43.6		105.43
28	5,552	69.24	18.9		107.36
29	6,068	65.86	16.4		108.03
30	7,857	608.08	117.3		110.20
31	10,380	75.00	10.9	Upper Marker	113.00
32	11,424	0.00	0.0		114.16
33	12,207	0.00	0.0		115.03
34	13,077	0.00	0.0		115.99
35	13,599	0.00	0.0		116.57
36	14,556	0.00	0.0		117.63
37	16,644	0.00	0.0		119.95
38	17,253	0.00	0.0		120.62
39	18,210	0.00	0.0		121.68

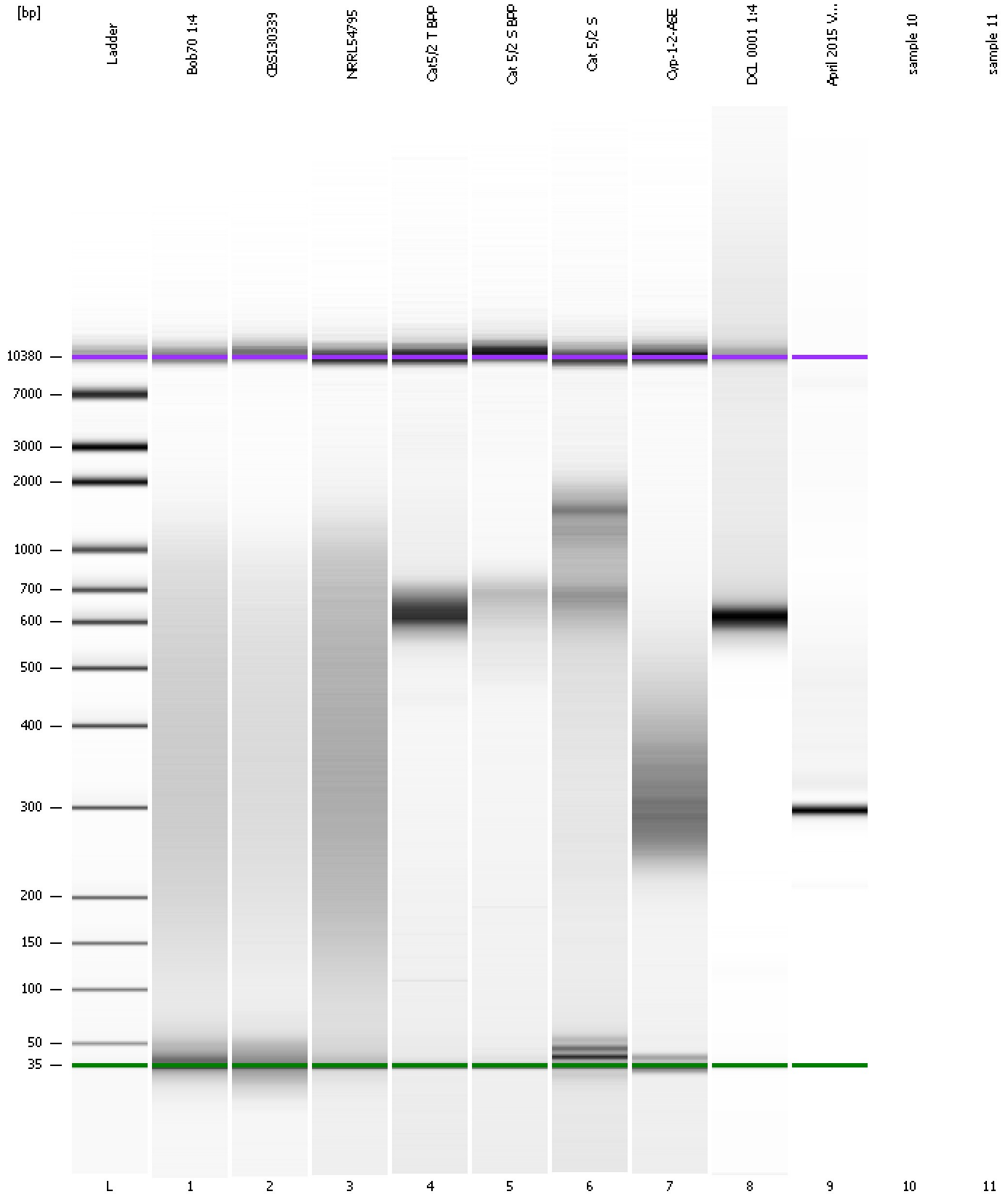
Region table for sample 9 : April 2015 V4 1:20

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	218	255	39.1	2,772.0	1	5.1	398.60	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
Modified: 4/30/2015 11:00:57 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30_001.xad

Created: 4/30/2015 8:28:02 AM
Modified: 4/30/2015 11:00:57 AM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.