

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30\_002.xad

Created: 4/30/2015 10:06:20 AM  
Modified: 4/30/2015 10:43:19 AM

**Electrophoresis File Run Summary**

Instrument Information:

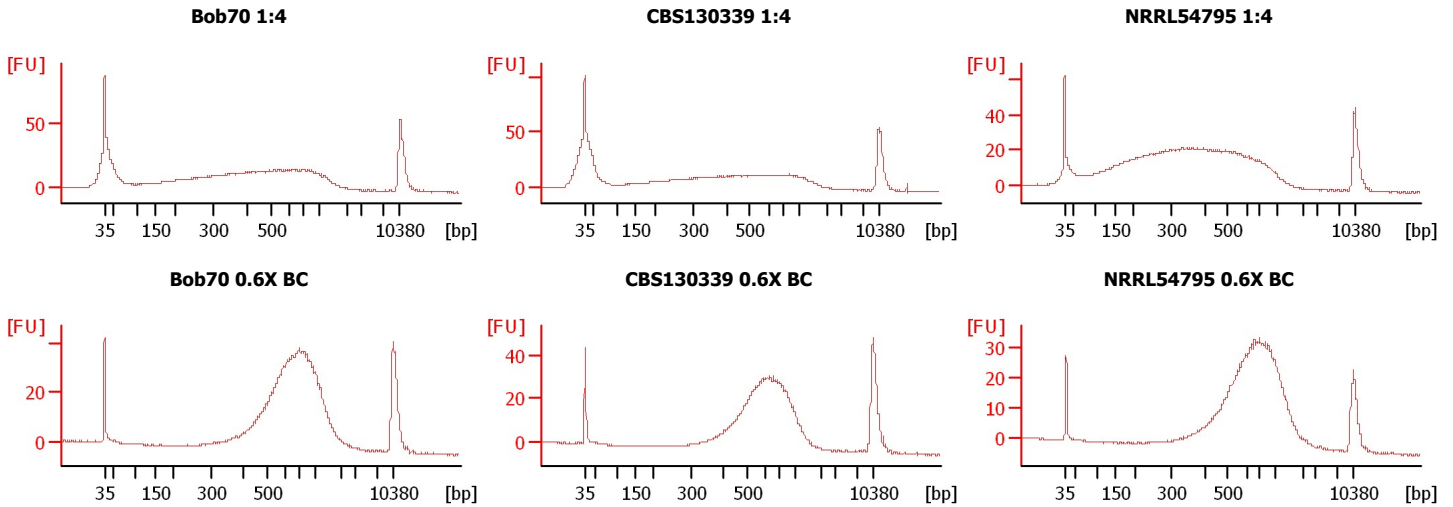
Instrument Name: DE13701086                      Firmware: C.01.069  
Serial#: DE13701086                              Type: G2938B

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:



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**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 1:4		<input type="checkbox"/>	✓			
NRRL54795 1:4		<input type="checkbox"/>	✓			
Bob70 0.6X BC		<input type="checkbox"/>	✓			
CBS130339 0.6X BC		<input type="checkbox"/>	✓			
NRRL54795 0.6X BC		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>				
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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**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

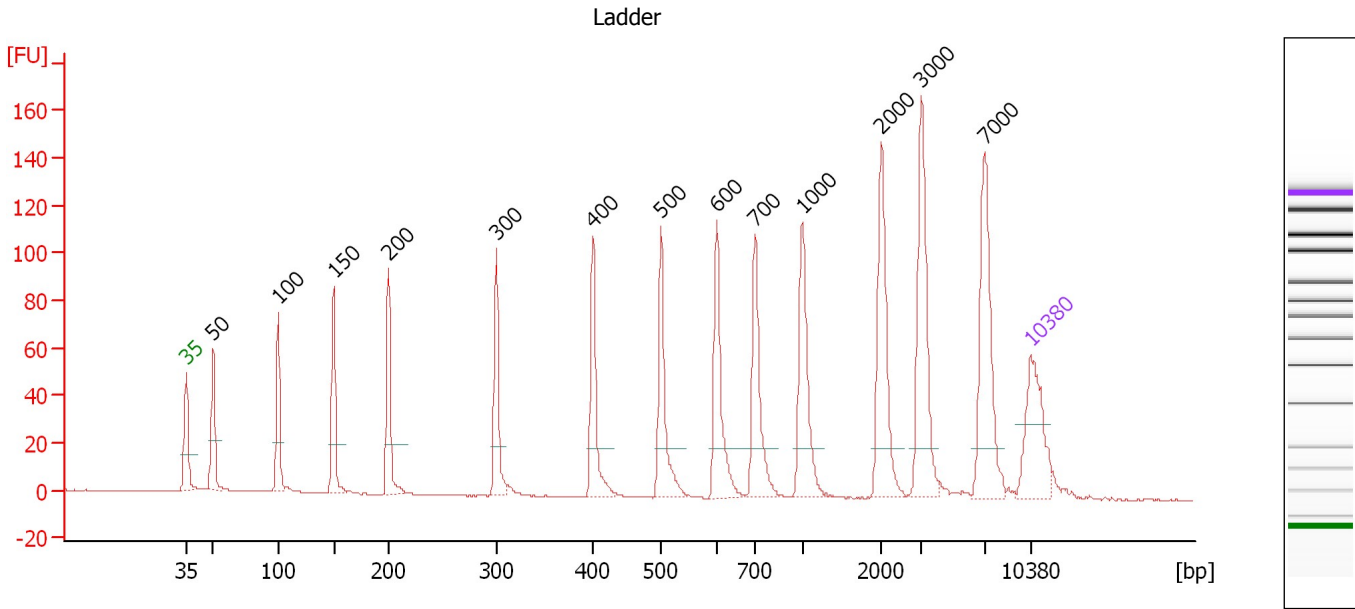
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

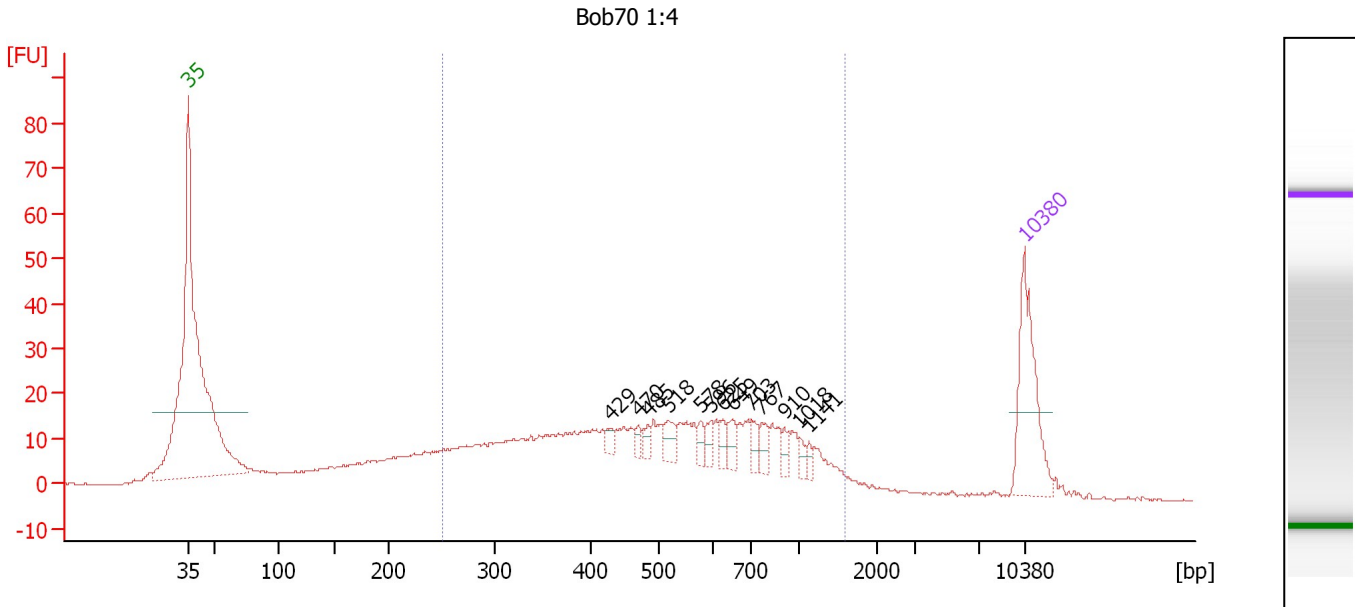
**Peak table for Ladder**

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	45.25
3	100	150.00	2,272.7	Ladder Peak	50.65
4	150	150.00	1,515.2	Ladder Peak	55.24
5	200	150.00	1,136.4	Ladder Peak	59.79
6	300	150.00	757.6	Ladder Peak	68.72
7	400	150.00	568.2	Ladder Peak	76.76
8	500	150.00	454.5	Ladder Peak	82.38
9	600	150.00	378.8	Ladder Peak	86.97
10	700	150.00	324.7	Ladder Peak	90.15
11	1,000	150.00	227.3	Ladder Peak	94.09
12	2,000	150.00	113.6	Ladder Peak	100.63
13	3,000	150.00	75.8	Ladder Peak	103.94
14	7,000	150.00	32.5	Ladder Peak	109.16
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Bob70 1:4**

Number of peaks found: 13                      Corr. Area 1: 563.8  
 Noise: 0.3

**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	429	8.13	28.7		78.40
3	470	7.01	22.6		80.68
4	485	8.42	26.3		81.53
5	518	15.21	44.4		83.22
6	578	8.54	22.4		85.95
7	596	10.09	25.6		86.79
8	625	9.30	22.5		87.78
9	649	13.82	32.3		88.54
10	703	12.14	26.2		90.19
11	767	13.02	25.7		91.04
12	910	8.17	13.6		92.91
13	1,018	6.19	9.2		94.21
14	1,141	5.55	7.4		95.01
15	10,380	75.00	10.9	Upper Marker	113.00

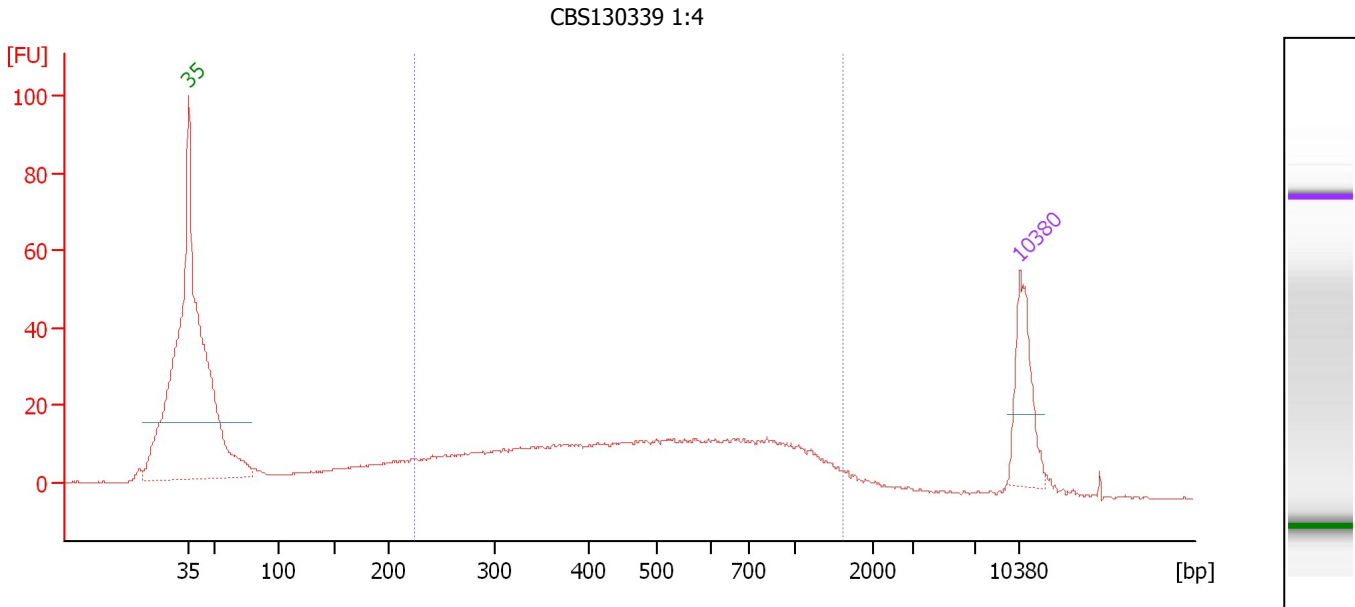
**Region table for sample 1 : Bob70 1:4**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
250	566	1,589	563.8	2,708.5	75	47.6	786.37	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : CBS130339 1:4**

Number of peaks found: 0                      Corr. Area 1: 522.1  
 Noise: 0.3

**Peak table for sample 2 : CBS130339 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

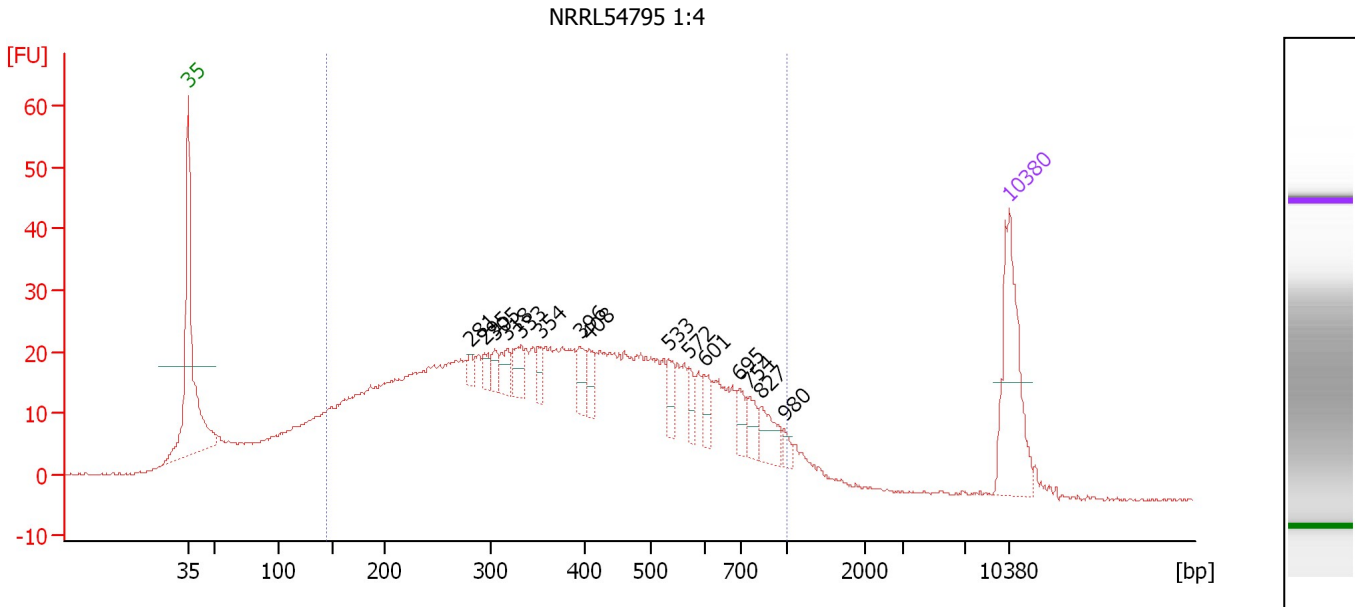
**Region table for sample 2 : CBS130339 1:4**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
224	565	1,624	522.1	2,569.8	78	52.1	707.98	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : NRRL54795 1:4**

Number of peaks found: 15                      Corr. Area 1: 1,051.0  
 Noise: 0.2

**Peak table for sample 3 : NRRL54795 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	281	7.93	42.7		67.05
3	295	11.13	57.2		68.27
4	305	11.78	58.5		69.14
5	318	18.02	86.0		70.14
6	333	21.25	96.7		71.36
7	354	12.88	55.1		73.09
8	396	19.02	72.8		76.41
9	408	14.64	54.3		77.23
10	533	16.82	47.8		83.91
11	572	12.27	32.5		85.68
12	601	14.93	37.7		87.00
13	695	14.59	31.8		90.00
14	754	15.61	31.4		90.86
15	827	23.22	42.5		91.82
16	980	7.15	11.1		93.82
17	10,380	75.00	10.9	Upper Marker	113.00

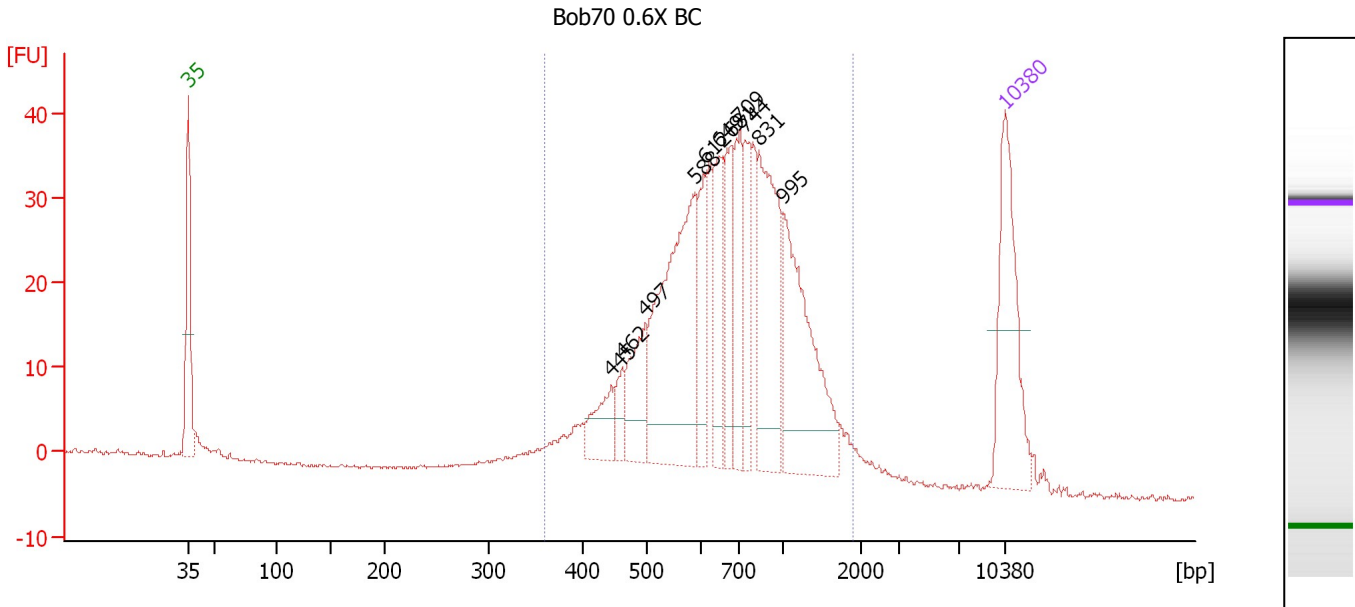
**Region table for sample 3 : NRRL54795 1:4**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
144	407	1,000	1,051.0	8,999.4	85	44.2	1,806.87	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Bob70 0.6X BC**

Number of peaks found: 11                      Corr. Area 1: 646.0  
 Noise: 0.2

**Peak table for sample 4 : Bob70 0.6X BC**

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	445	31.92	108.6		79.30
3	462	17.27	56.6		80.26
4	497	46.75	142.6		82.18
5	588	180.03	463.6		86.44
6	612	40.76	100.9		87.35
7	649	52.68	122.9		88.54
8	681	51.74	115.1		89.54
9	709	53.18	113.6		90.28
10	744	43.31	88.2		90.73
11	831	112.48	205.0		91.88
12	995	121.11	184.3		94.03
13	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : Bob70 0.6X BC**

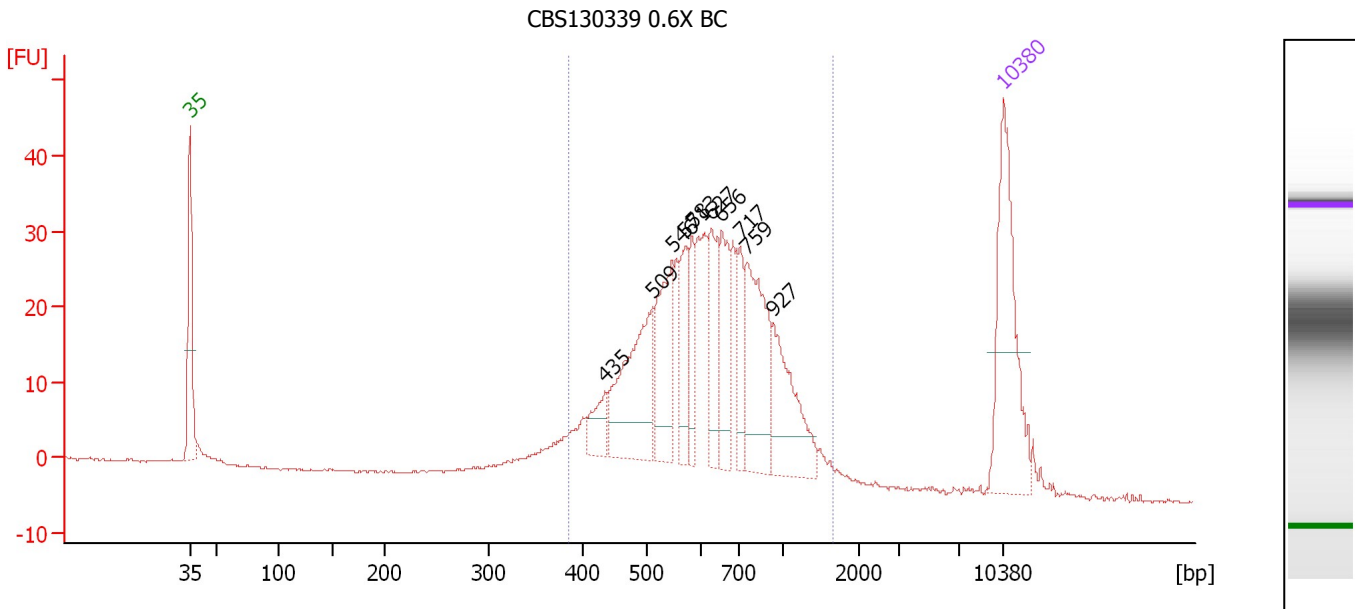
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
360	764	1,901	646.0	2,102.3	95	39.2	908.93	Blue



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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : CBS130339 0.6X BC**

Number of peaks found: 10                      Corr. Area 1: 535.5  
 Noise: 0.2

**Peak table for sample 5 : CBS130339 0.6X BC**

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	435	20.04	69.8		78.71
3	509	89.48	266.3		82.80
4	546	59.37	164.7		84.50
5	571	30.65	81.3		85.64
6	583	25.42	66.1		86.19
7	627	40.04	96.7		87.85
8	656	41.37	95.5		88.76
9	717	24.11	51.0		90.37
10	759	75.97	151.7		90.92
11	927	57.77	94.5		93.12
12	10,380	75.00	10.9	Upper Marker	113.00

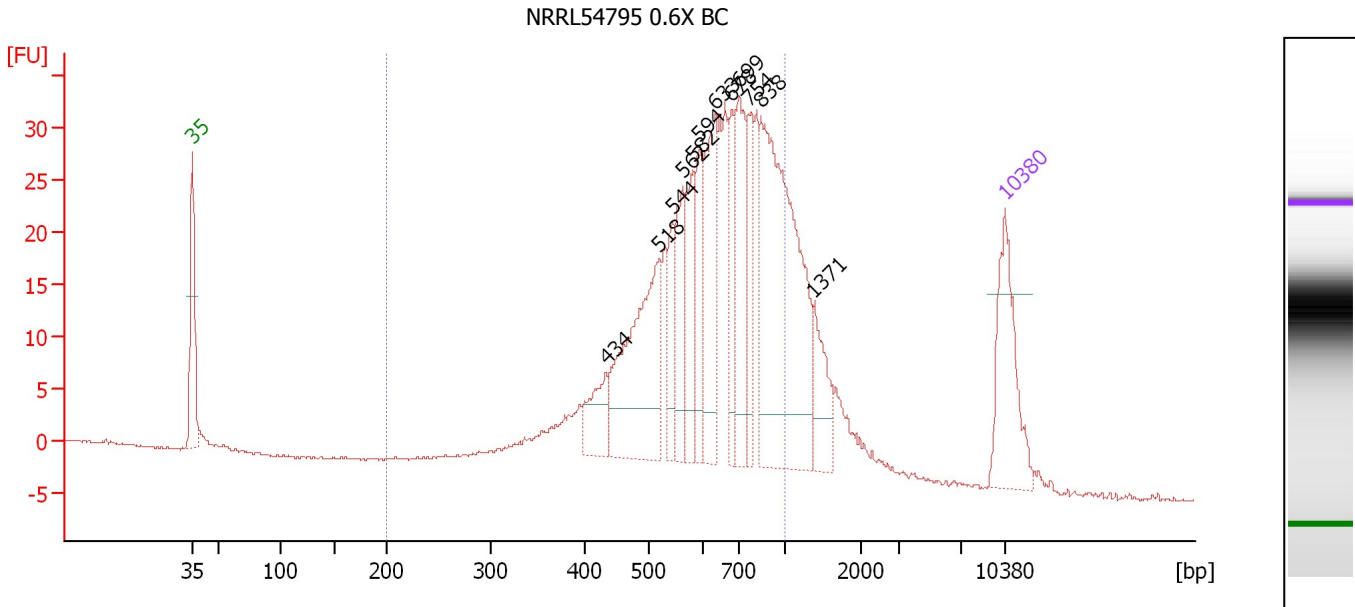
**Region table for sample 5 : CBS130339 0.6X BC**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
385	672	1,646	535.5	1,645.9	90	32.8	656.20	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : NRRL54795 0.6X BC**

Number of peaks found: 12                      Corr. Area 1: 525.4  
 Noise: 0.1

**Peak table for sample 6 : NRRL54795 0.6X BC**

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	434	45.75	159.9		78.64
3	518	177.89	520.6		83.19
4	544	37.96	105.8		84.38
5	562	60.88	164.2		85.21
6	582	57.78	150.5		86.13
7	594	61.62	157.2		86.68
8	633	100.56	240.8		88.01
9	678	54.16	121.1		89.44
10	699	89.15	193.2		90.13
11	754	56.62	113.8		90.86
12	838	292.70	529.1		91.96
13	1,371	43.43	48.0		96.51
14	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 6 : NRRL54795 0.6X BC**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	636	1,000	525.4	3,250.9	82	25.7	1,235.01	Blue

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**Gel Image**

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**Invalid Samples**

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-30\2015-04-30\_002.xad

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**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		4/30/2015 10:33:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-04-30\2015-04-30_002.xad)		Instrument	Run		4/30/2015 10:06:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/30/2015 10:06:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/30/2015 10:06:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/30/2015 10:06:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/30/2015 10:06:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/30/2015 10:06:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/30/2015 10:06:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1