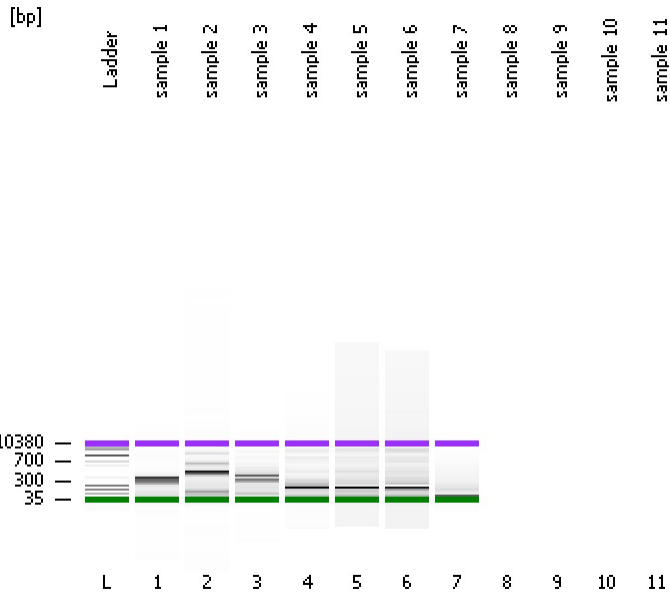


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09\_002.xad

Created: 10/9/2013 10:25:51 AM  
Modified: 10/9/2013 11:03:17 AM

**Electrophoresis File Run Summary**



Instrument Information:

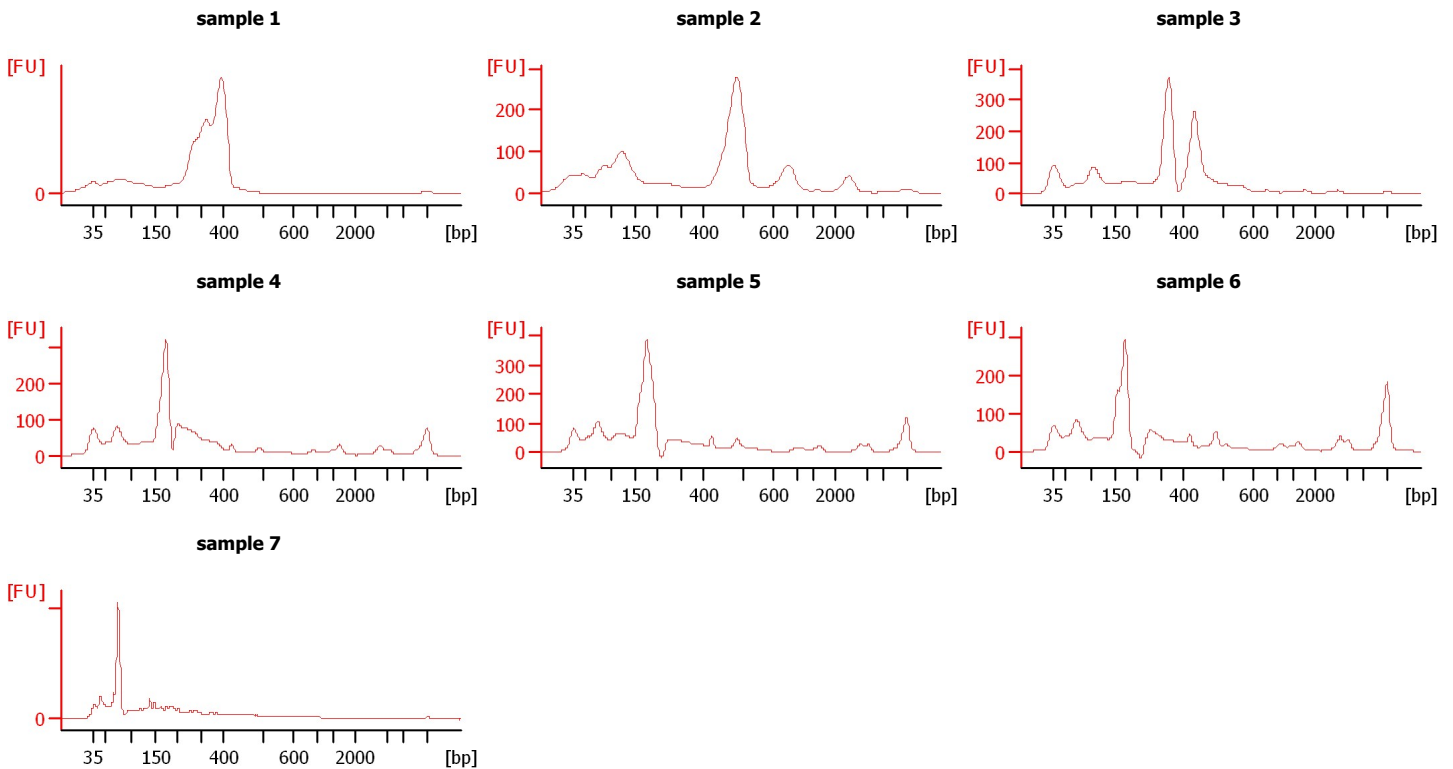
Instrument Name: DE13701086 Firmware: C.01.069  
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09\_002.xad

Created: 10/9/2013 10:25:51 AM  
 Modified: 10/9/2013 11:03:17 AM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<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 :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09\_002.xad

Created: 10/9/2013 10:25:51 AM  
Modified: 10/9/2013 11:03:17 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

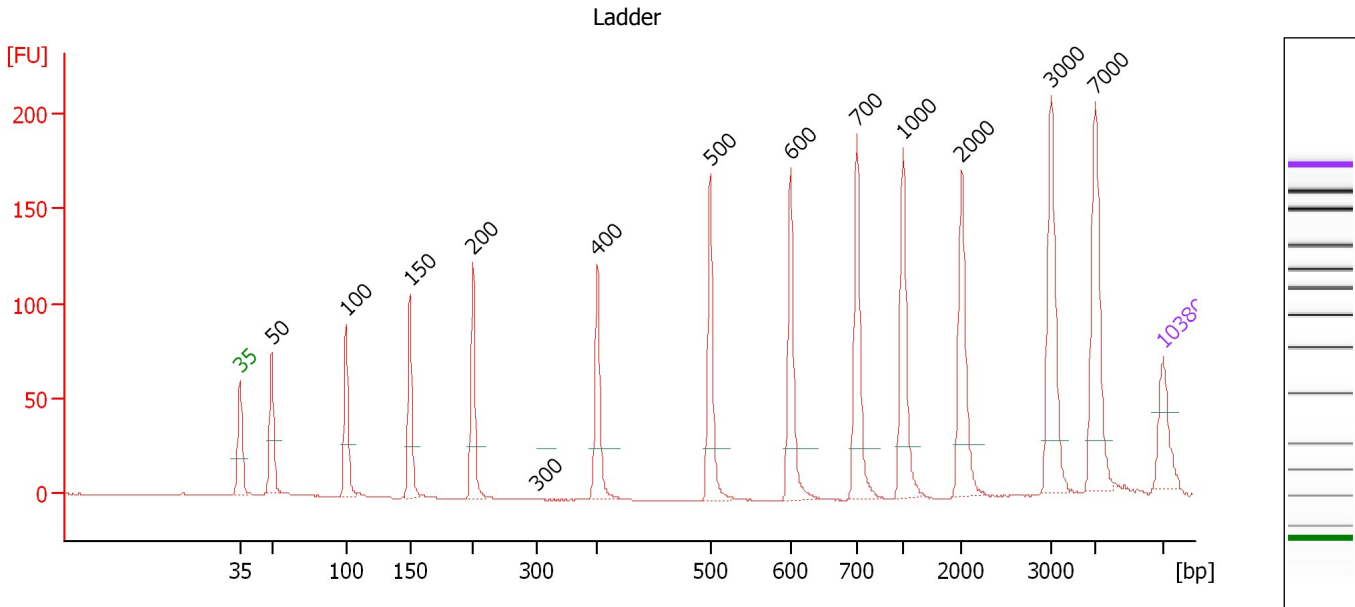
**Ladder**

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\2013-10-09\2013-10-09\_002.xad

Created: 10/9/2013 10:25:51 AM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

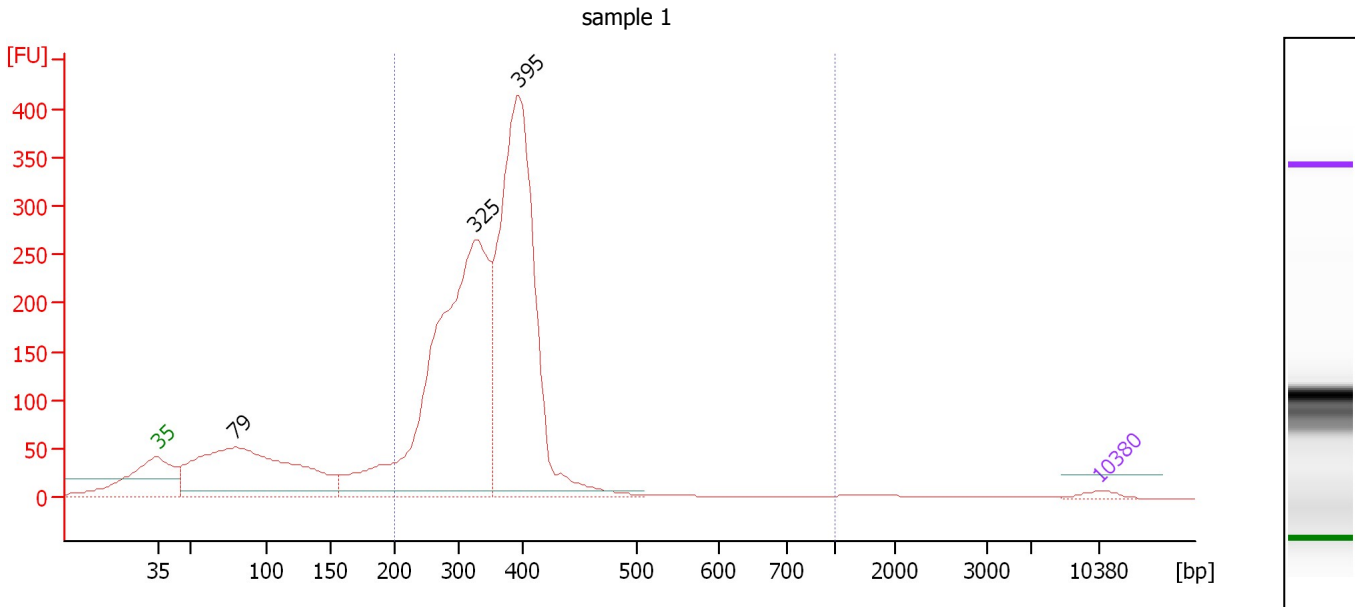
**Peak table for Ladder**

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\2013-10-09\2013-10-09\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 1**

Number of peaks found: 3                      Corr. Area 1: 1,103.1  
 Noise: 0.2

**Peak table for sample 1 : sample 1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	79	3,611.82	69,079.7	
3	325	7,300.54	34,001.6	
4	395	6,500.63	24,955.0	
5	10,380	75.00	10.9	Upper Marker

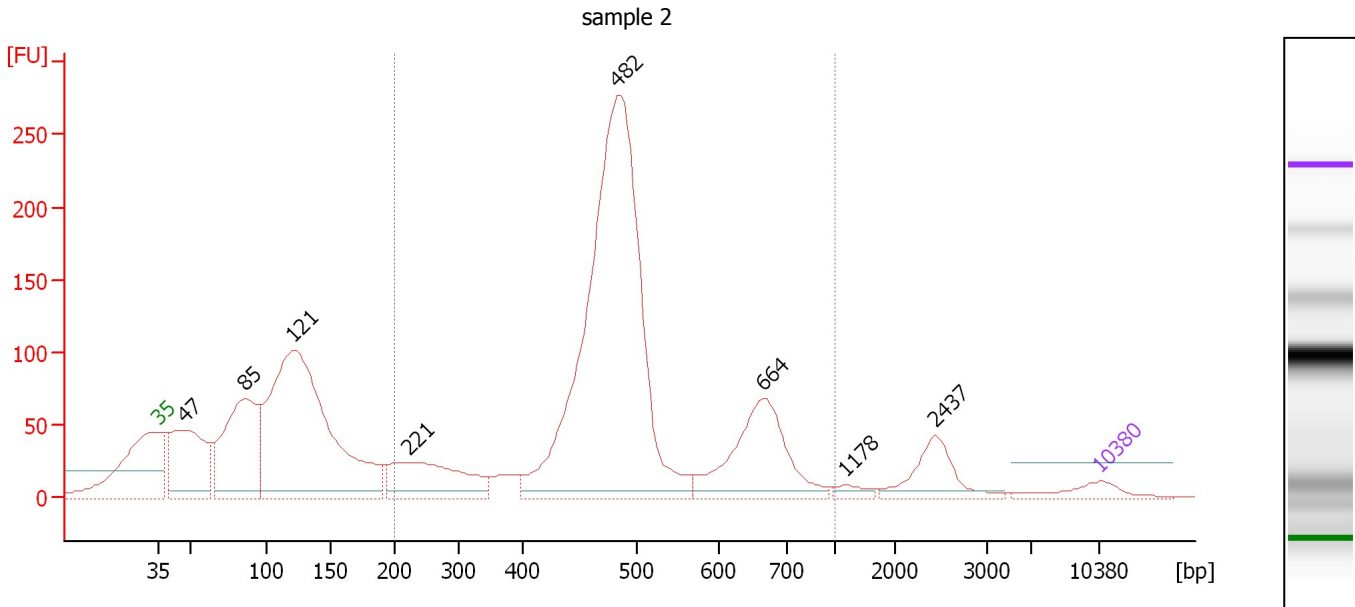
**Region table for sample 1 : sample 1**

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	350	62,459.1	13,839.18	1,103.1	79	19.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09\_002.xad

Created: 10/9/2013 10:25:51 AM  
 Modified: 10/9/2013 11:03:17 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 2**

Number of peaks found: 8                      Corr. Area 1: 647.0  
 Noise: 0.1

**Peak table for sample 2 : sample 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	465.44	14,894.9	
3	85	644.00	11,439.8	
4	121	1,652.51	20,700.0	
5	221	413.55	2,829.2	
6	482	2,545.91	7,997.2	
7	664	570.90	1,303.5	
8	1,178	37.04	47.6	
9	2,437	199.73	124.2	
10	10,380	75.00	10.9	Upper Marker

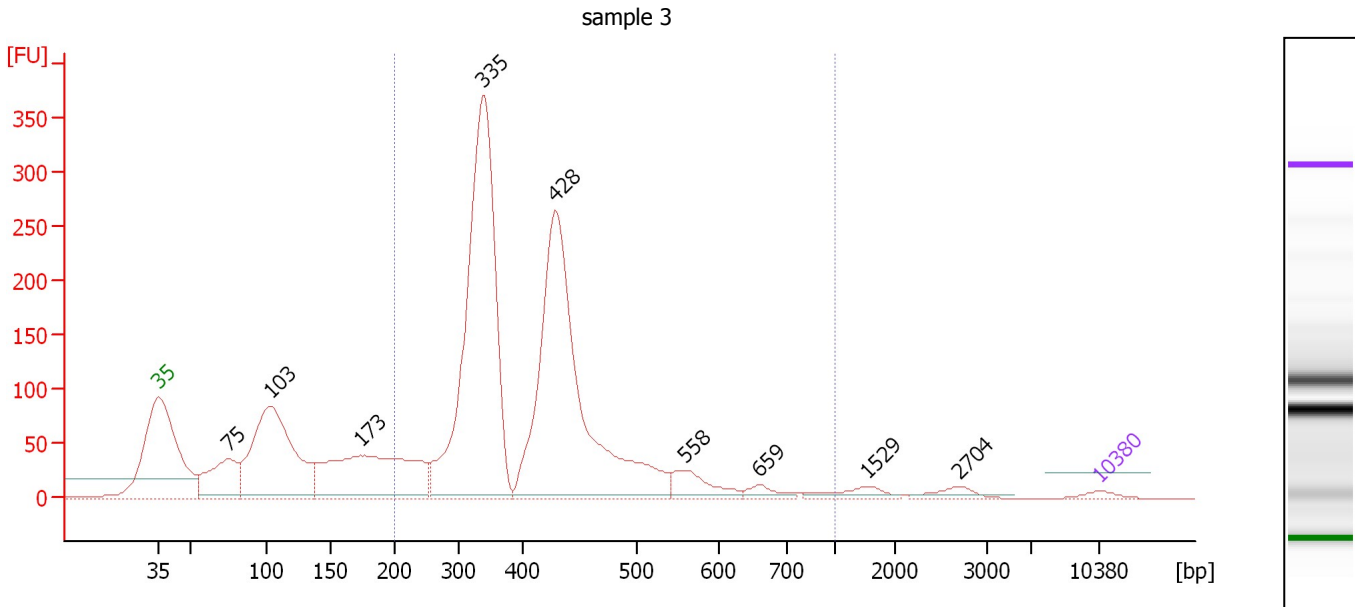
**Region table for sample 2 : sample 2**

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	492	11,724.4	3,531.11	647.0	60	22.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09\_002.xad

Created: 10/9/2013 10:25:51 AM  
 Modified: 10/9/2013 11:03:17 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 3**

Number of peaks found: 9                      Corr. Area 1: 1,201.2  
 Noise: 0.2

**Peak table for sample 3 : sample 3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	75	777.02	15,669.0	
3	103	2,432.22	35,652.1	
4	173	2,133.92	18,640.0	
5	335	4,833.52	21,830.3	
6	428	4,552.91	16,132.9	
7	558	387.80	1,053.1	
8	659	141.00	324.1	
9	1,529	181.13	179.5	
10	2,704	139.31	78.1	
11	10,380	75.00	10.9	Upper Marker

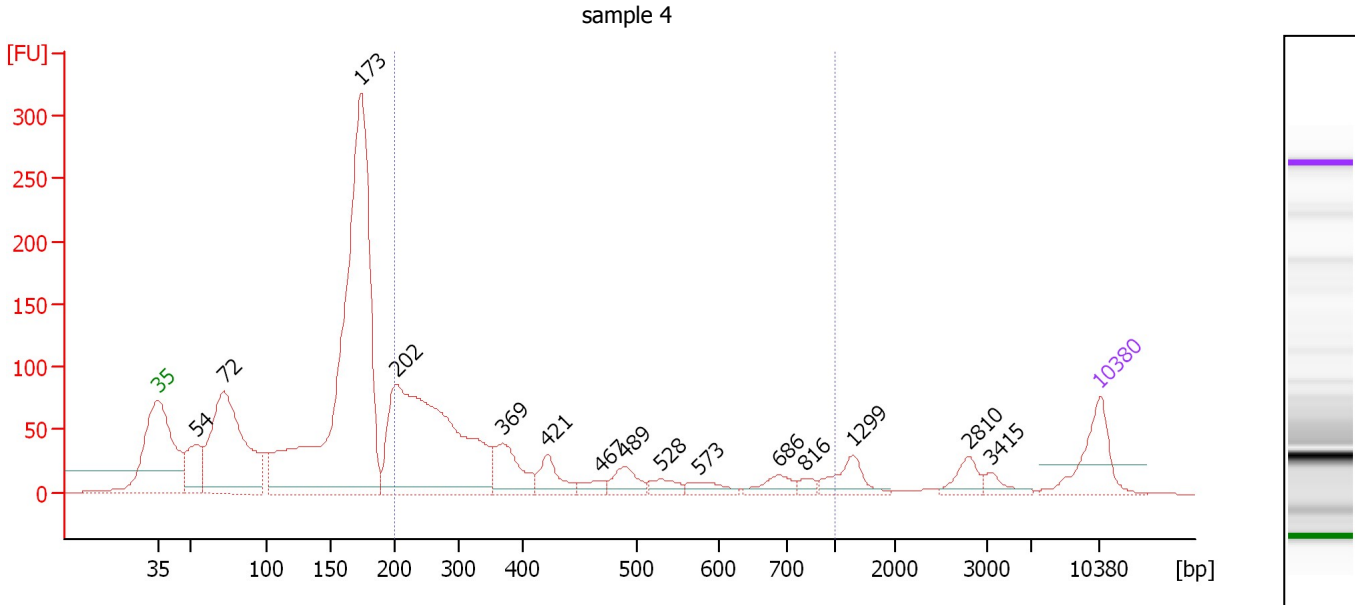
**Region table for sample 3 : sample 3**

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	395	42,998.5	10,466.17	1,201.2	74	24.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09\_002.xad

Created: 10/9/2013 10:25:51 AM  
 Modified: 10/9/2013 11:03:17 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 4**

Number of peaks found: 15                      Corr. Area 1: 638.5  
 Noise: 0.1

**Peak table for sample 4 : sample 4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	77.26	2,155.9	
3	72	336.36	7,037.8	
4	173	944.65	8,261.0	
5	202	550.95	4,124.2	
6	369	74.70	306.6	
7	421	43.11	155.0	
8	467	16.70	54.1	
9	489	35.58	110.3	
10	528	20.33	58.3	
11	573	21.39	56.5	
12	686	26.64	58.8	
13	816	10.89	20.2	
14	1,299	41.65	48.6	
15	2,810	27.82	15.0	
16	3,415	15.97	7.1	
17	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : sample 4**

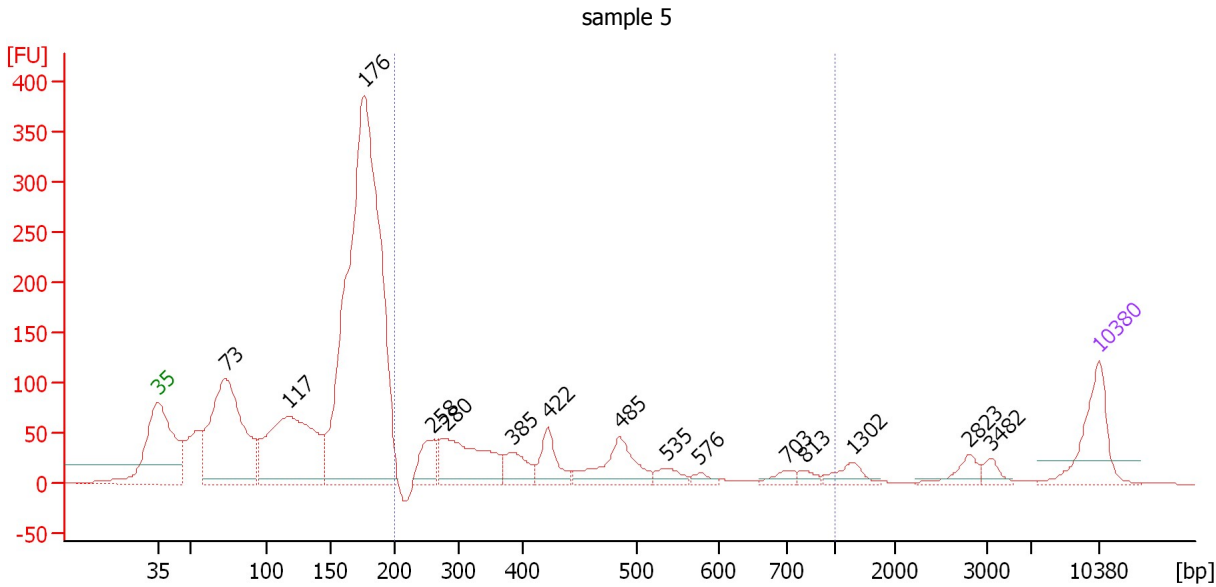
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	379	3,483.5	717.15	638.5	35	44.7	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09\_002.xad

Created: 10/9/2013 10:25:51 AM  
 Modified: 10/9/2013 11:03:17 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 5**

Number of peaks found: 15                      Corr. Area 1: 497.0  
 Noise: 0.2

**Peak table for sample 5 : sample 5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	73	299.94	6,185.7	
3	117	264.09	3,428.0	
4	176	923.96	7,952.8	
5	258	43.37	254.9	
6	280	123.95	670.2	
7	385	37.15	146.2	
8	422	43.99	157.9	
9	485	72.36	226.1	
10	535	17.81	50.4	
11	576	8.21	21.6	
12	703	12.80	27.6	
13	813	8.97	16.7	
14	1,302	20.19	23.5	
15	2,823	20.25	10.9	
16	3,482	12.41	5.4	
17	10,380	75.00	10.9	Upper Marker

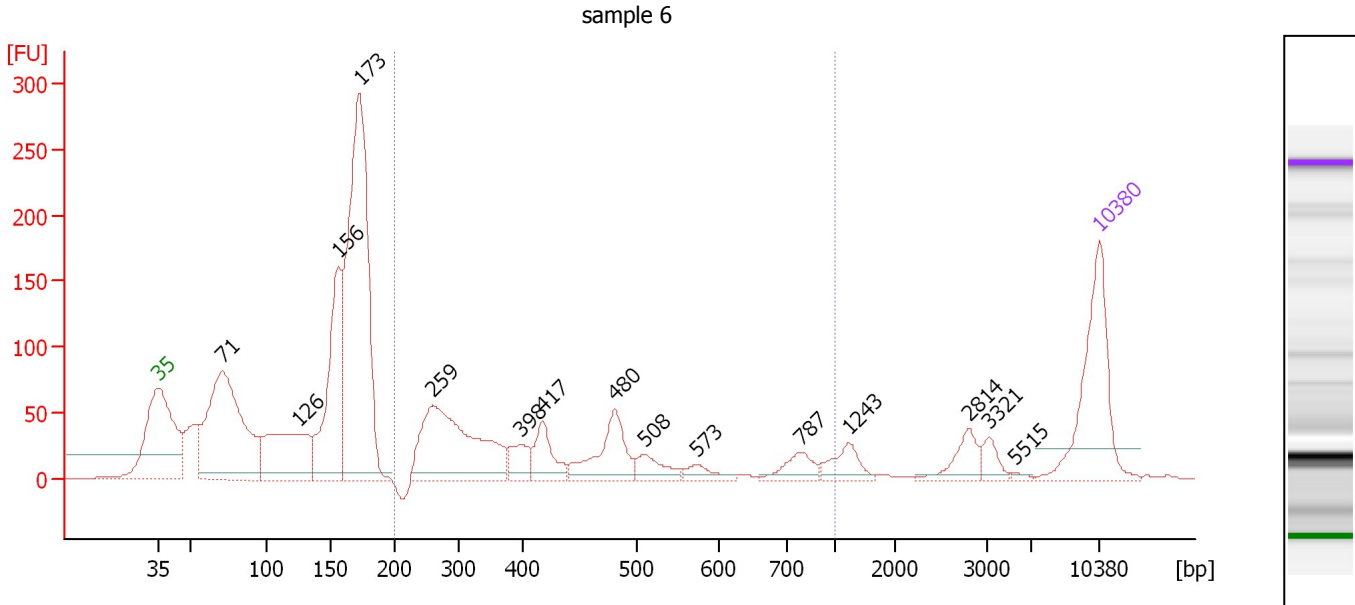
**Region table for sample 5 : sample 5**

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	428	1,566.5	383.88	497.0	23	35.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09\_002.xad

Created: 10/9/2013 10:25:51 AM  
 Modified: 10/9/2013 11:03:17 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 6**

Number of peaks found: 15                      Corr. Area 1: 526.3  
 Noise: 0.3

**Peak table for sample 6 : sample 6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	71	171.72	3,644.8	
3	126	81.13	976.8	
4	156	112.96	1,099.6	
5	173	284.68	2,496.2	
6	259	127.09	742.9	
7	398	16.26	61.9	
8	417	25.89	94.1	
9	480	43.85	138.3	
10	508	16.76	50.0	
11	573	9.68	25.6	
12	787	16.52	31.8	
13	1,243	17.31	21.1	
14	2,814	17.68	9.5	
15	3,321	10.32	4.7	
16	5,515	1.84	0.5	
17	10,380	75.00	10.9	Upper Marker

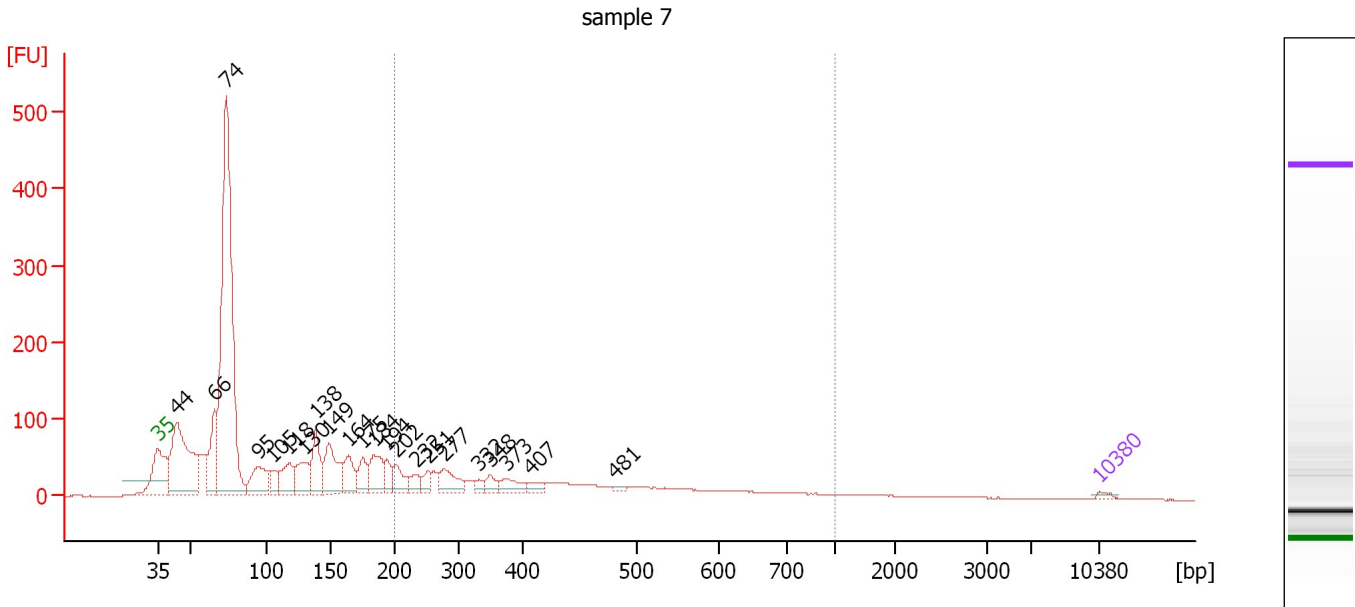
**Region table for sample 6 : sample 6**

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	439	1,081.5	266.88	526.3	30	37.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09\_002.xad

Created: 10/9/2013 10:25:51 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 7**

Number of peaks found: 22                      Corr. Area 1: 768.1  
 Noise: 0.2

**Peak table for sample 7 : sample 7**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	5,701.70	196,364.0	
3	66	2,065.49	47,423.1	
4	74	15,442.74	316,216.6	
5	95	1,624.23	25,890.4	
6	105	596.14	8,595.7	
7	118	1,191.58	15,305.0	
8	130	1,366.47	15,944.0	
9	138	1,610.55	17,647.2	
10	149	1,981.92	20,196.6	
11	164	1,148.95	10,636.6	
12	175	808.70	6,995.5	
13	184	1,299.25	10,719.0	
14	194	582.68	4,559.1	
15	202	739.37	5,538.1	
16	232	454.03	2,961.8	
17	251	348.46	2,101.4	
18	277	911.08	4,979.3	
19	332	200.94	917.8	
20	348	350.73	1,527.0	
21	373	507.27	2,058.2	
22	407	242.93	904.0	
23	481	89.73	282.7	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09\_002.xad

Created: 10/9/2013 10:25:51 AM  
Modified: 10/9/2013 11:03:17 AM

**Electropherogram Summary Continued ...**

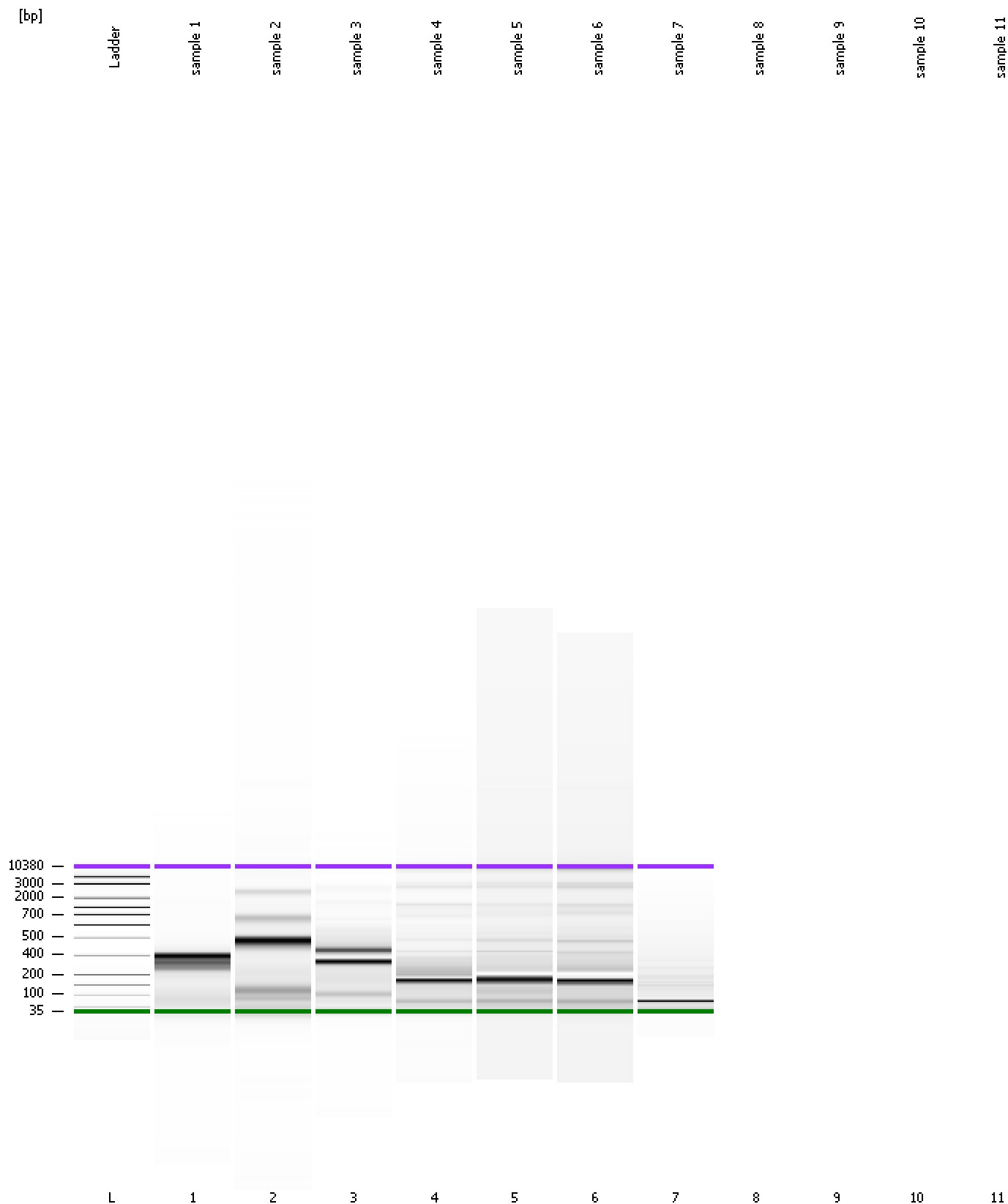
... Region table for sample 7 : sample 7

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	422	38,784.7	8,920.01	768.1	24	37.1	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09\_002.xad

Created: 10/9/2013 10:25:51 AM  
Modified: 10/9/2013 11:03:17 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09\_002.xad

Created: 10/9/2013 10:25:51 AM  
Modified: 10/9/2013 11:03:17 AM

**Invalid Samples**

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.