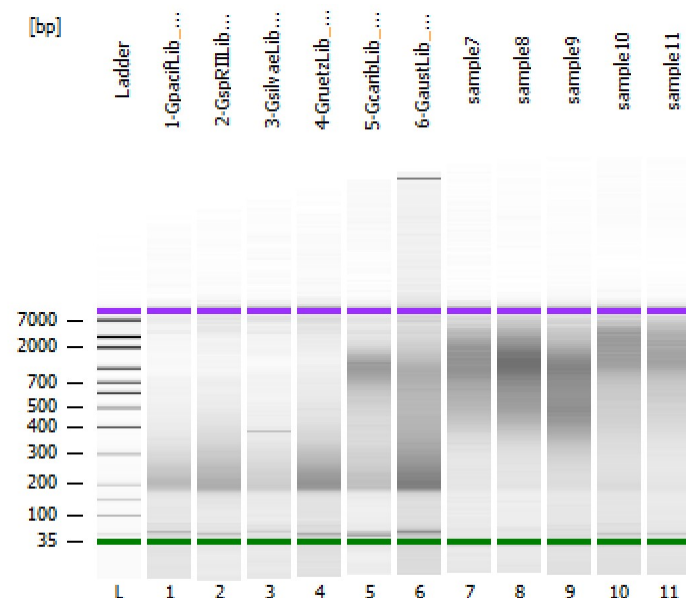


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
Modified: 6/22/2017 1:51:27 PM

### Electrophoresis File Run Summary



#### Instrument Information:

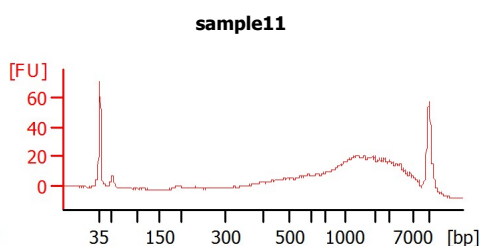
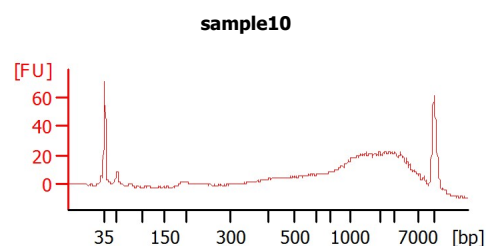
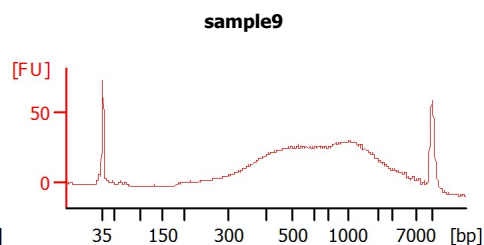
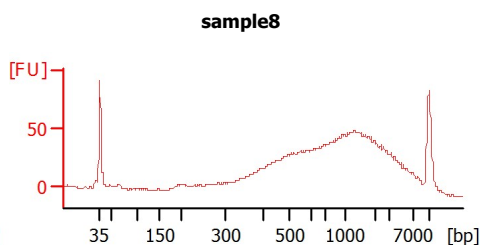
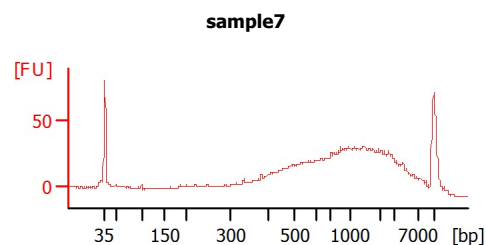
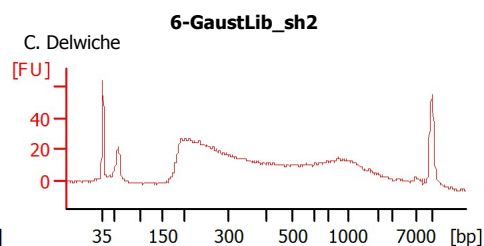
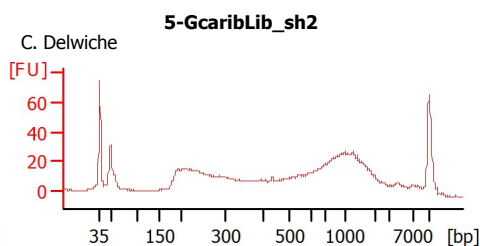
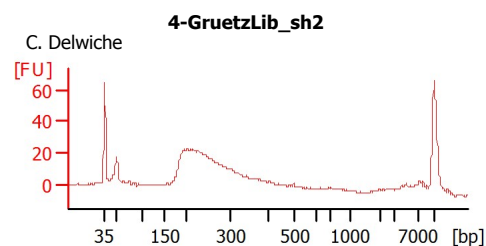
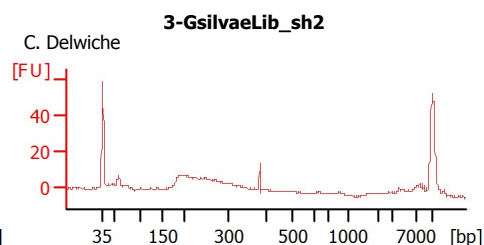
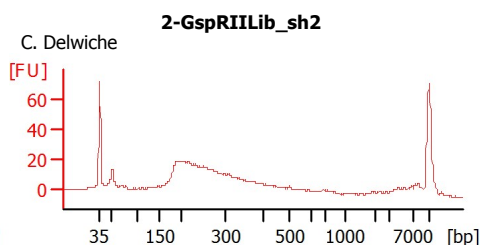
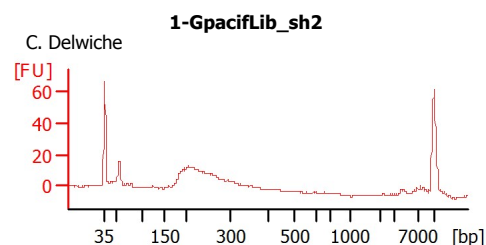
Instrument Name: DE24802100      Firmware: C.01.069  
Serial#: DE24802100      Type: G2938B

#### Assay Information:

Assay Origin Path: C:\Program Files (x86)\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:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
Modified: 6/22/2017 1:51:27 PM

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

Sample Name	Sample Comment	Rest. Digest	Status Observation	Result Label	Result Color
1-GpacifLib_sh2	C. Delwiche	<input type="checkbox"/>	✓		
2-GspRIILib_sh2	C. Delwiche	<input type="checkbox"/>	✓		
3-GsilvaeLib_sh2	C. Delwiche	<input type="checkbox"/>	✓		
4-GruetzLib_sh2	C. Delwiche	<input type="checkbox"/>	✓		
5-GcaribLib_sh2	C. Delwiche	<input type="checkbox"/>	✓		
6-GaustLib_sh2	C. Delwiche	<input type="checkbox"/>	✓		
sample7		<input type="checkbox"/>	✓		
sample8		<input type="checkbox"/>	✓		
sample9		<input type="checkbox"/>	✓		
sample10		<input type="checkbox"/>	✓		
sample11		<input type="checkbox"/>	✓		
Ladder		<input type="checkbox"/>	✓		

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

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
Modified: 6/22/2017 1:51:27 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

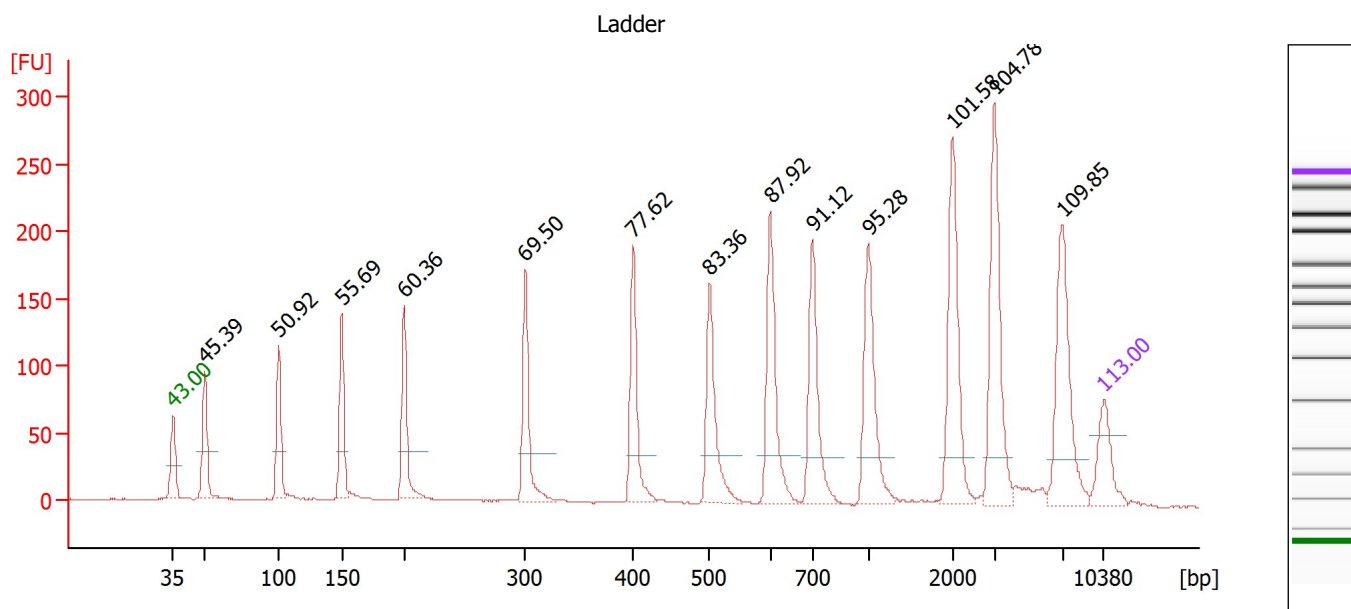
### Ladder

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:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
 Modified: 6/22/2017 1:51:27 PM

### Electropherogram Summary



### Overall Results for Ladder

Noise: 0.5

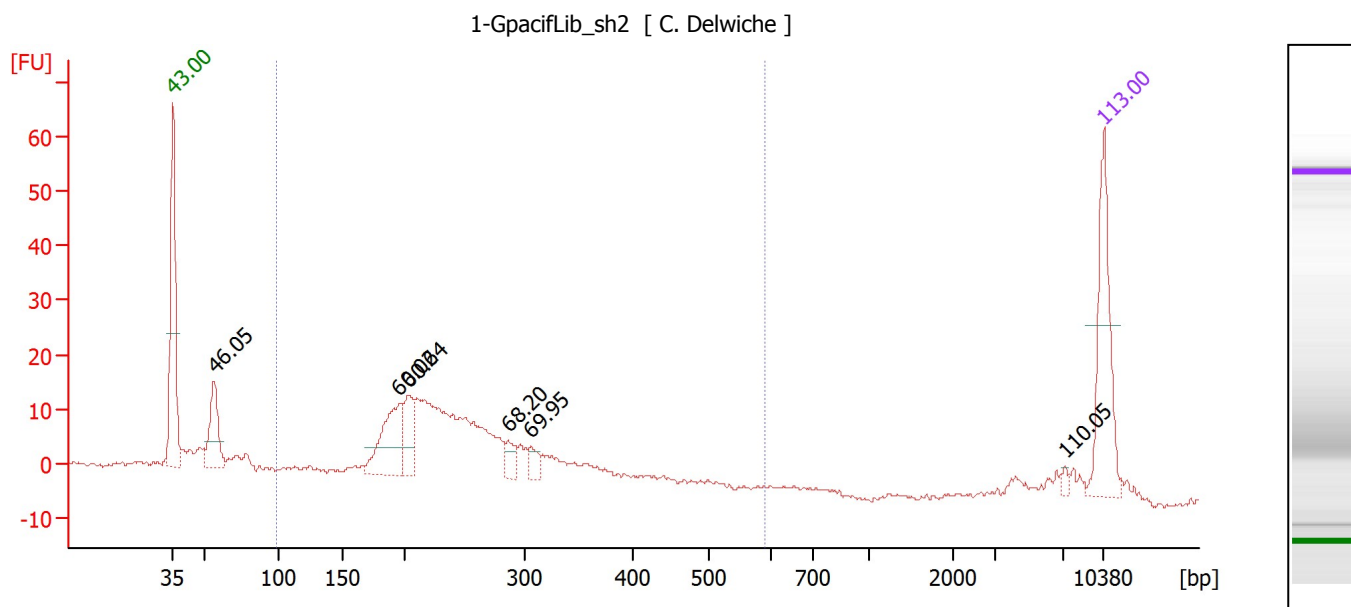
### Peak table for Ladder

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:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
 Modified: 6/22/2017 1:51:27 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 1 : 1-GpacifLib\_sh2

Number of peaks found: 6      Corr. Area 1: 226.2  
 Noise: 0.4

### Peak table for sample 1 : 1-GpacifLib\_sh2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	56	67.18	1,816.9	
3	196	83.49	644.2	
4	203	42.39	316.3	
5	286	15.83	83.9	
6	306	14.11	70.0	
7	7,213	3.67	0.8	Upper Marker
8	10,380	75.00	10.9	

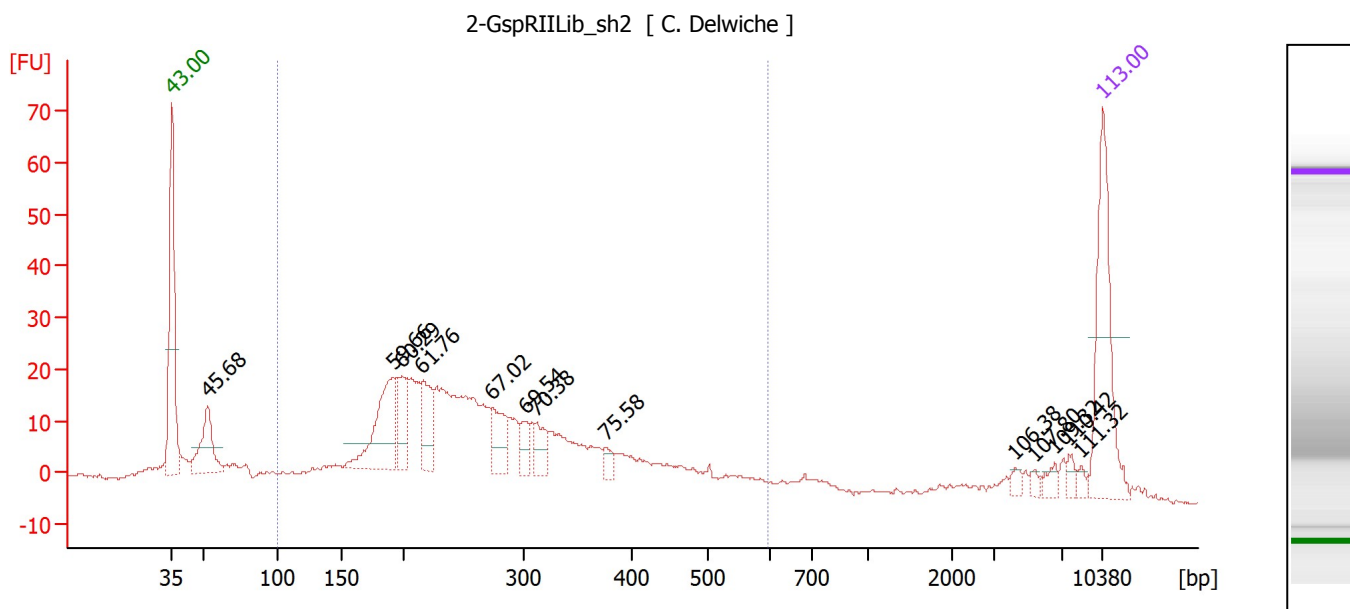
### Region table for sample 1 : 1-GpacifLib\_sh2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
98	592	226.2	74	249	24.4	487.81	3,198.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
 Modified: 6/22/2017 1:51:27 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 2 : 2-GspRIILib\_sh2

Number of peaks found: 13      Corr. Area 1: 453.7  
 Noise: 0.4

### Peak table for sample 2 : 2-GspRIILib\_sh2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	55.24	1,589.5	
3	192	83.67	658.6	
4	199	37.03	281.6	
5	215	40.27	283.4	
6	273	35.15	195.2	
7	301	15.33	77.3	
8	311	21.27	103.7	
9	375	8.76	35.4	
10	4,262	4.29	1.5	
11	5,380	3.62	1.0	
12	6,581	6.31	1.5	
13	7,614	5.22	1.0	
14	8,574	3.68	0.7	
15	10,380	75.00	10.9	Upper Marker

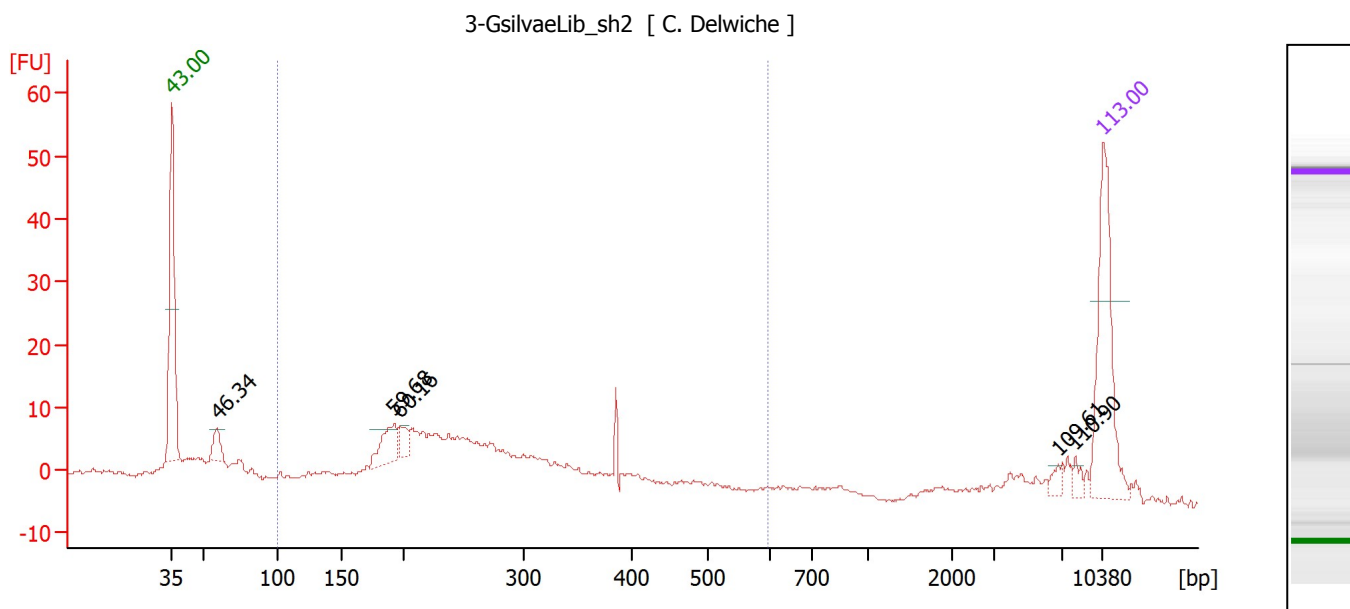
### Region table for sample 2 : 2-GspRIILib\_sh2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
100	597	453.7	81	278	33.2	739.83	4,643.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
 Modified: 6/22/2017 1:51:27 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 3 : 3-GsilvaeLib\_sh2

Number of peaks found: 5      Corr. Area 1: 148.3  
 Noise: 0.4

### Peak table for sample 3 : 3-GsilvaeLib\_sh2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	59	17.91	463.3	
3	193	30.66	241.1	
4	198	11.69	89.5	
5	6,809	5.65	1.3	
6	8,126	4.94	0.9	
7	10,380	75.00	10.9	Upper Marker

### Region table for sample 3 : 3-GsilvaeLib\_sh2

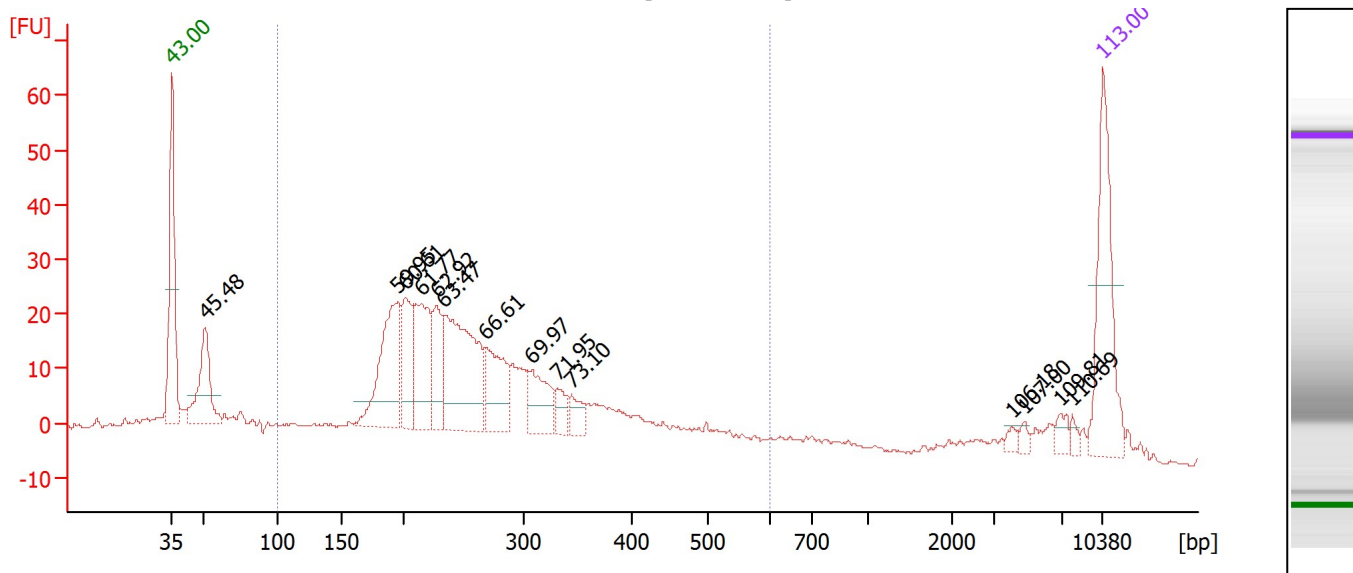
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
101	599	148.3	73	255	25.4	320.94	2,078.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
 Modified: 6/22/2017 1:51:27 PM

**Electropherogram Summary Continued ...**

4-GruetzLib\_sh2 [ C. Delwiche ]

**Overall Results for sample 4 : 4-GruetzLib\_sh2**

Number of peaks found: 14      Corr. Area 1: 469.3  
 Noise: 0.4

**Peak table for sample 4 : 4-GruetzLib\_sh2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	51	76.84	2,290.9	
3	196	117.11	907.1	
4	203	59.44	444.2	
5	215	86.71	610.0	
6	228	49.15	326.6	
7	234	149.16	965.6	
8	268	62.10	350.6	
9	306	43.21	214.1	
10	330	13.78	63.2	
11	344	16.05	70.6	
12	4,103	4.00	1.5	
13	4,753	4.03	1.3	
14	6,965	7.10	1.5	
15	7,898	3.83	0.7	
16	10,380	75.00	10.9	Upper Marker

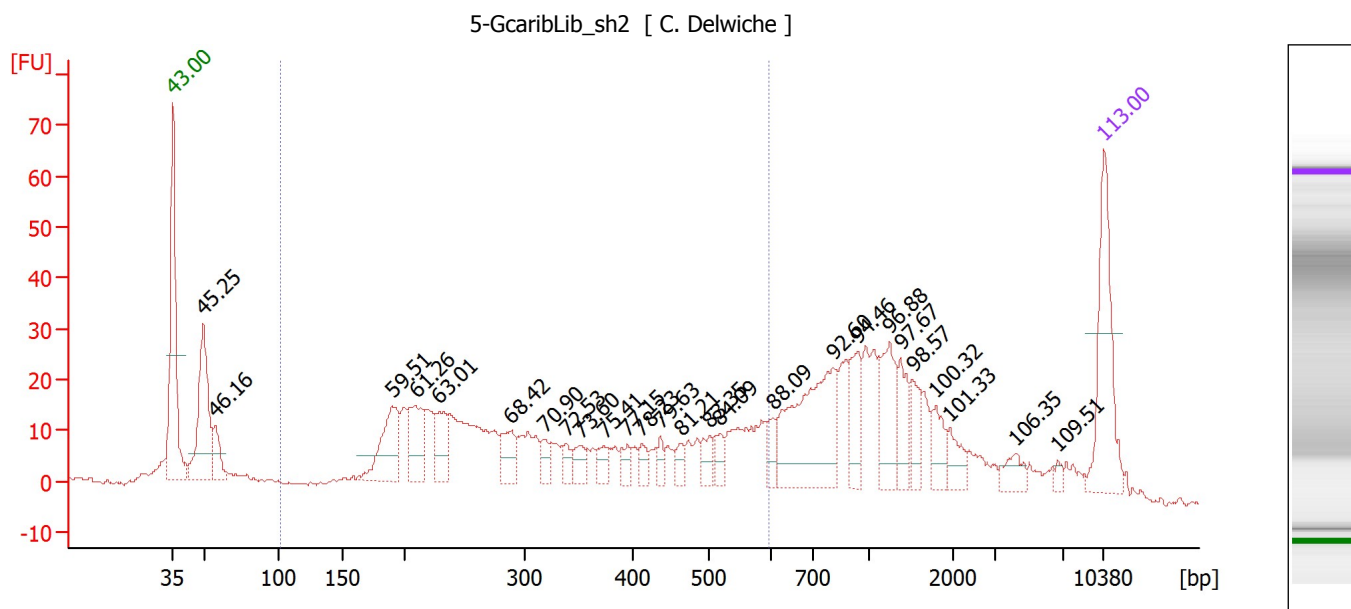
**Region table for sample 4 : 4-GruetzLib\_sh2**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
101	599	469.3	79	272	31.3	811.55	5,088.6	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
 Modified: 6/22/2017 1:51:27 PM

**Electropherogram Summary Continued ...****Overall Results for sample 5 : 5-GcaribLib\_sh2**

Number of peaks found: 26      Corr. Area 1: 409.1  
 Noise: 0.5

**Peak table for sample 5 : 5-GcaribLib\_sh2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	130.35	4,016.5	
3	57	30.95	823.4	
4	191	76.52	607.2	
5	210	54.75	395.3	
6	229	39.47	261.2	
7	288	33.34	175.3	
8	317	14.99	71.6	
9	337	12.74	57.2	
10	351	18.41	79.6	
11	373	13.28	54.0	
12	394	11.20	43.0	
13	411	11.82	43.6	
14	435	11.69	40.7	
15	463	11.18	36.6	
16	500	15.92	48.2	
17	516	13.58	39.9	
18	605	17.19	43.0	
19	806	132.13	248.3	
20	940	31.85	51.3	
21	1,254	45.87	55.4	
22	1,379	28.79	31.6	
23	1,522	20.54	20.4	
24	1,800	19.60	16.5	
25	1,961	16.76	12.9	
26	4,239	14.36	5.1	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
Modified: 6/22/2017 1:51:27 PM

**Electropherogram Summary Continued ...****... Peak table for sample 5 : 5-GcaribLib\_sh2**

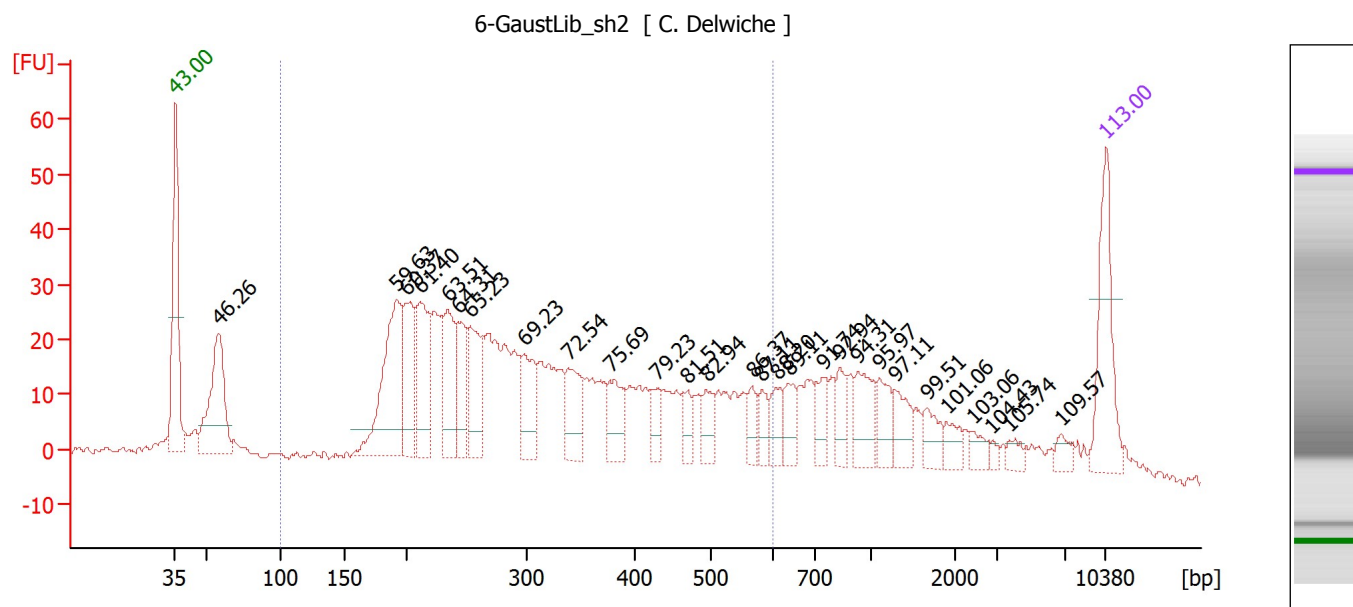
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	6,726	4.28	1.0	
28	10,380	75.00	10.9	Upper Marker

**Region table for sample 5 : 5-GcaribLib\_sh2**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
102	597	409.1	49	343	36.4	751.22	4,017.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
 Modified: 6/22/2017 1:51:27 PM

**Electropherogram Summary Continued ...****Overall Results for sample 6 : 6-GaustLib\_sh2**

Number of peaks found: 28      Corr. Area 1: 743.5  
 Noise: 0.6

**Peak table for sample 6 : 6-GaustLib\_sh2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	58	148.15	3,878.7	
3	192	174.75	1,377.9	
4	200	92.93	703.6	
5	211	99.89	716.0	
6	235	84.07	543.2	
7	243	59.57	371.0	
8	253	80.40	481.0	
9	297	63.21	322.4	
10	337	57.85	259.7	
11	376	44.39	178.8	
12	428	22.16	78.4	
13	468	20.55	66.6	
14	493	25.18	77.4	
15	566	19.26	51.6	
16	582	20.94	54.5	
17	609	25.81	64.3	
18	637	26.11	62.1	
19	745	24.39	49.6	
20	831	25.14	45.8	
21	930	41.51	67.6	
22	1,109	29.21	39.9	
23	1,291	28.87	33.9	
24	1,672	20.57	18.6	
25	1,917	15.48	12.2	
26	2,462	10.80	6.6	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
Modified: 6/22/2017 1:51:27 PM

**Electropherogram Summary Continued ...****... Peak table for sample 6 : 6-GaustLib\_sh2**

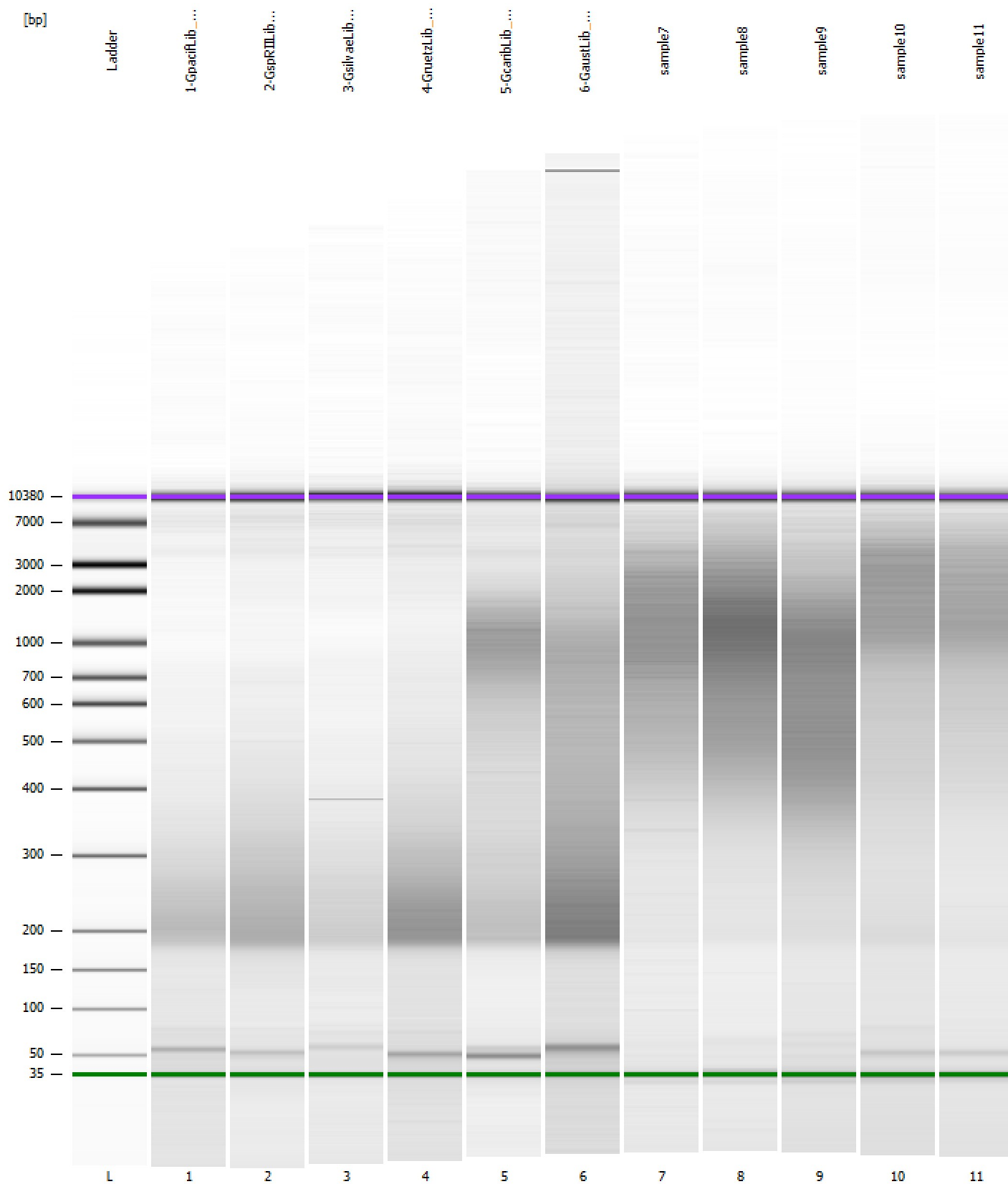
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,891	4.64	2.4	
28	3,761	8.96	3.6	
29	6,778	10.77	2.4	
30	10,380	75.00	10.9	Upper Marker

**Region table for sample 6 : 6-GaustLib\_sh2**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
100	600	743.5	68	327	35.1	1,553.76	8,524.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
Modified: 6/22/2017 1:51:27 PM

**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE24802100\_2017-06-21\_15-55-56.xad

Created: 6/21/2017 3:55:56 PM  
Modified: 6/22/2017 1:51:27 PM

## Curves

### Standard Curve

