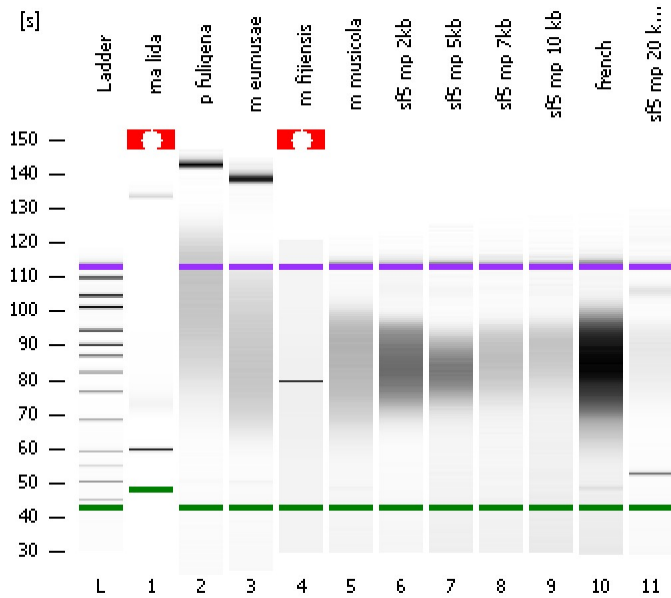


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electrophoresis File Run Summary



Instrument Information:

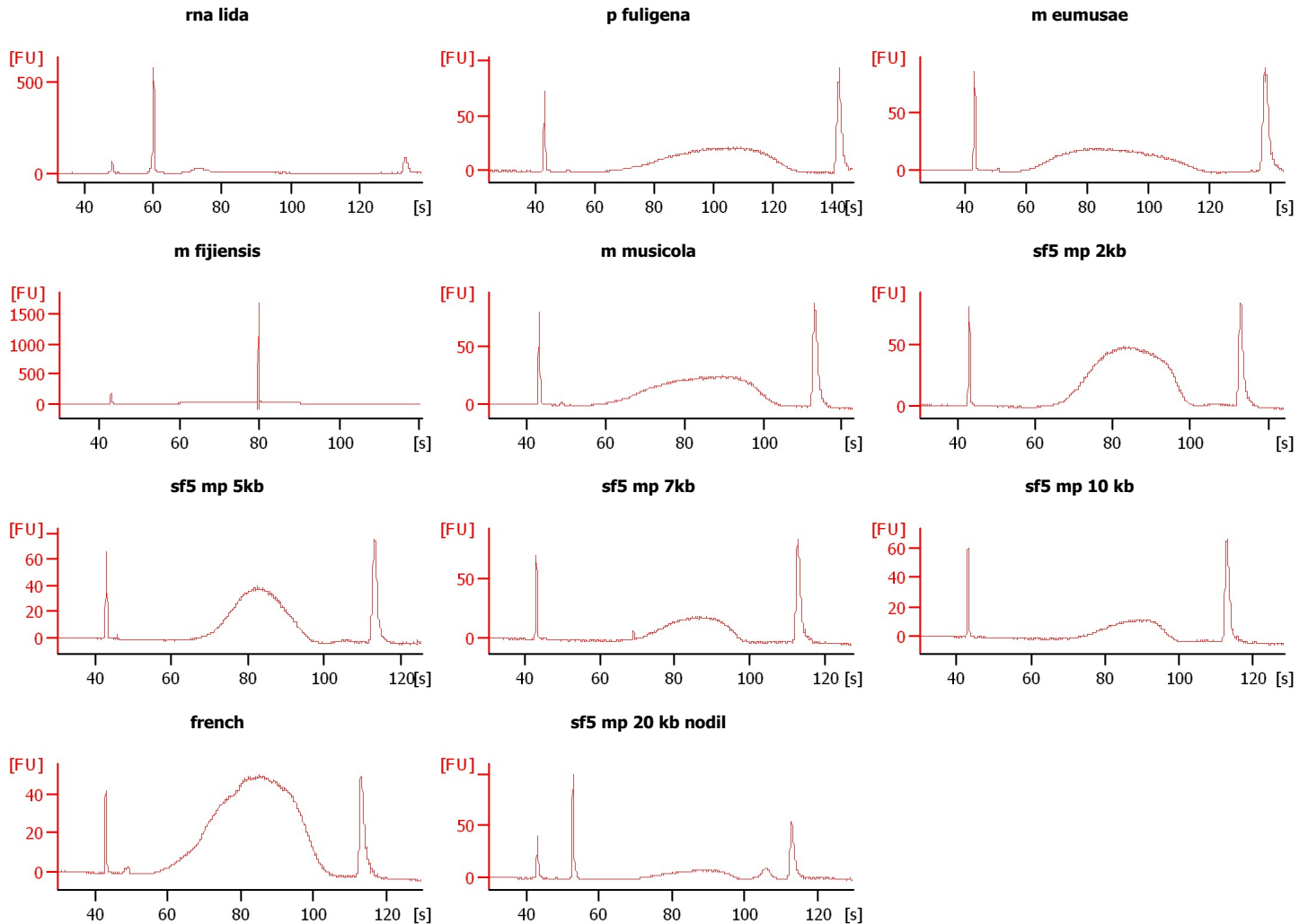
Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
rna lida		<input type="checkbox"/>	✓			
p fuligena		<input type="checkbox"/>	✓			
m eumusae		<input type="checkbox"/>	✓			
m fijiensis		<input type="checkbox"/>	⚠			
m musicola		<input type="checkbox"/>	✓			
sf5 mp 2kb		<input type="checkbox"/>	✓			
sf5 mp 5kb		<input type="checkbox"/>	✓			
sf5 mp 7kb		<input type="checkbox"/>	✓			
sf5 mp 10 kb		<input type="checkbox"/>	✓			
french		<input type="checkbox"/>	✓			
sf5 mp 20 kb nodil		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
Modified: 10/4/2013 5:42:34 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

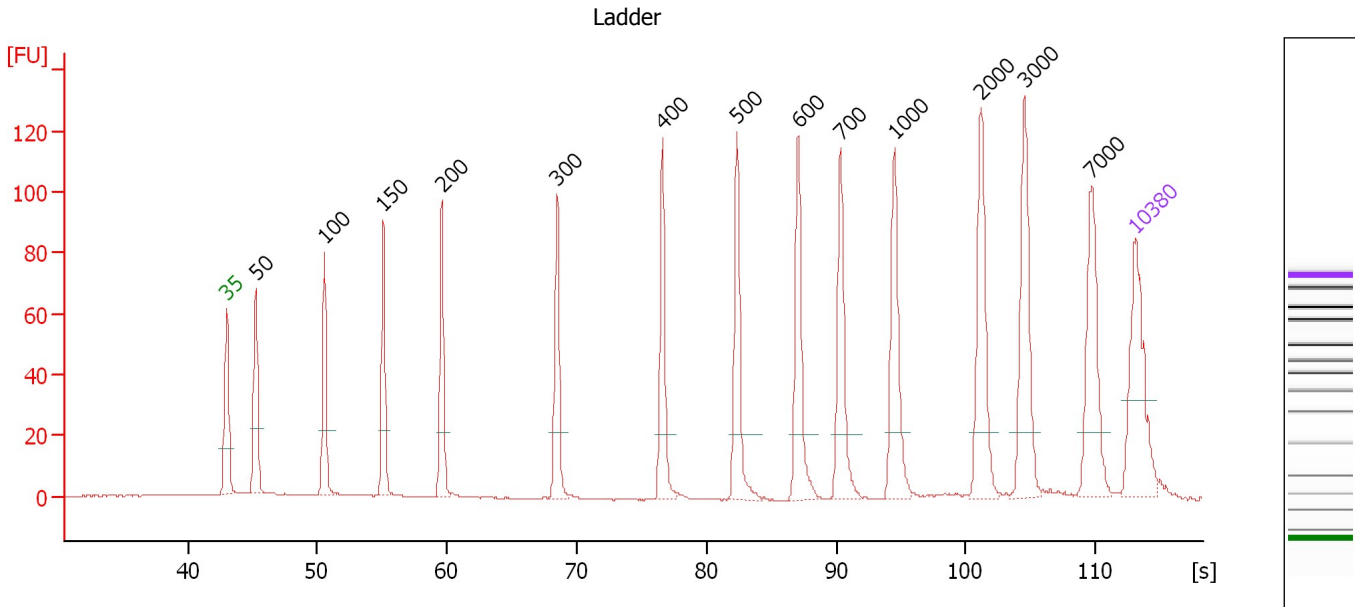
Ladder

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:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

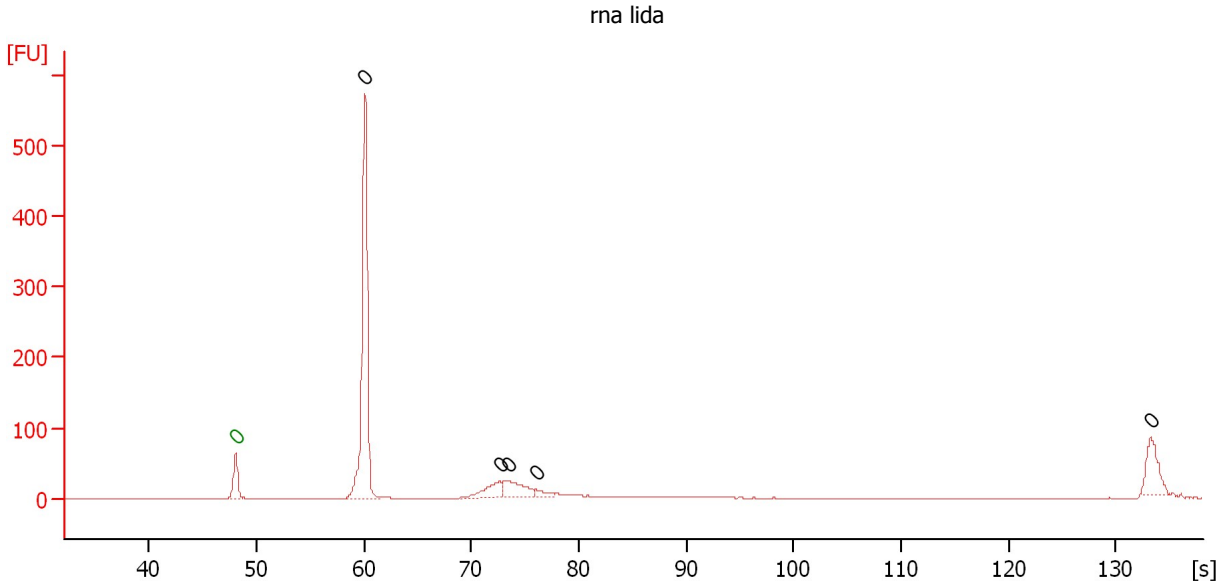
Peak table for Ladder

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:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : rna lida

Height Threshold [FU] : 2

Overall Results for sample 1 : rna lida

Number of peaks found: 5 Noise: 0.2

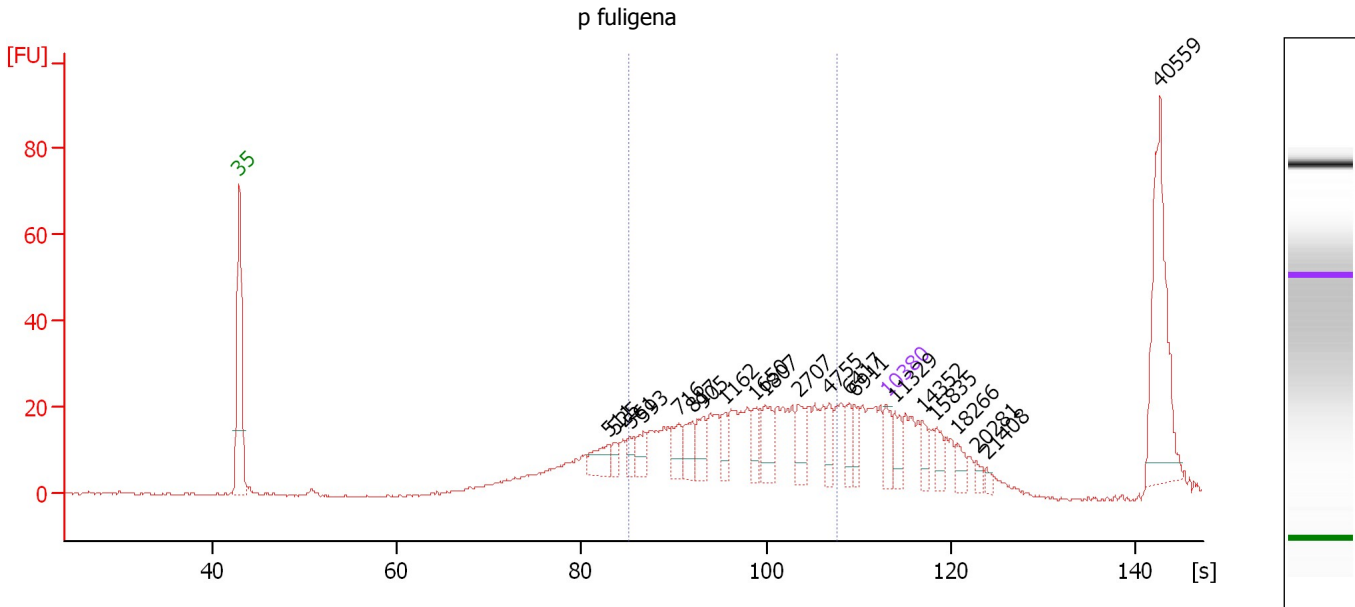
Peak table for sample 1 : rna lida

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : p fuligena

Number of peaks found: 21 Corr. Area 1: 342.7
 Noise: 0.2

Peak table for sample 2 : p fuligena

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	511	109.26	323.7	
3	525	40.24	116.1	
4	561	51.96	140.4	
5	593	79.50	203.2	
6	716	94.05	199.0	
7	817	106.96	198.4	
8	905	97.65	163.4	
9	1,162	66.01	86.1	
10	1,650	61.57	56.6	
11	1,807	116.87	98.0	
12	2,707	91.79	51.4	
13	4,755	65.61	20.9	
14	6,417	61.88	14.6	
15	6,911	61.06	13.4	
16	10,380	75.00	10.9	Upper Marker
17	11,329	0.00	0.0	
18	14,352	0.00	0.0	
19	15,835	0.00	0.0	
20	18,266	0.00	0.0	
21	20,281	0.00	0.0	
22	21,408	0.00	0.0	
23	40,559	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...

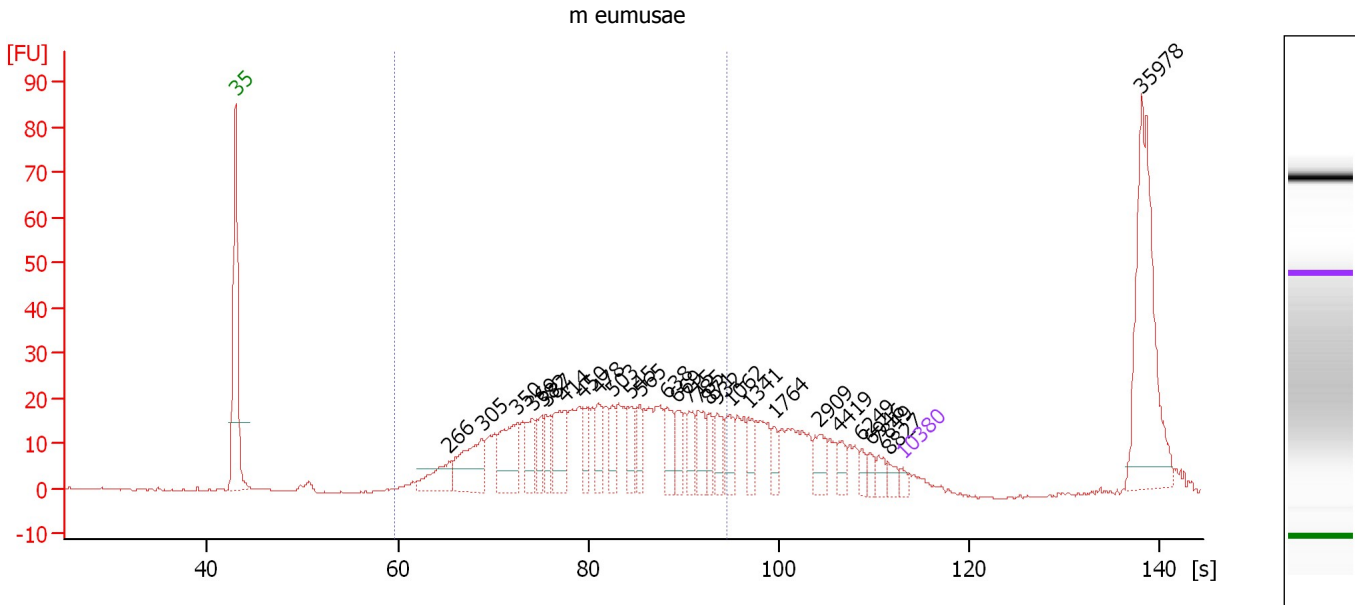
... Region table for sample 2 : p fuligena

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
560	5,389	1,801	2,605.9	1,938.06	342.7	48	68.1	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : m eumusae

Number of peaks found: 28 Corr. Area 1: 507.5
 Noise: 0.2

Peak table for sample 3 : m eumusae

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	266	618.74	3,530.6	
3	305	1,072.34	5,334.8	
4	350	1,018.44	4,412.5	
5	369	425.73	1,747.3	
6	382	379.24	1,505.5	
7	387	359.39	1,406.2	
8	414	780.42	2,854.1	
9	450	400.96	1,351.3	
10	478	378.31	1,199.2	
11	503	366.15	1,102.9	
12	545	369.20	1,026.8	
13	565	332.74	892.2	
14	638	405.88	964.6	
15	669	353.84	801.9	
16	715	346.15	733.2	
17	785	421.58	813.9	
18	871	266.51	463.8	
19	932	353.49	574.8	
20	1,062	334.05	476.7	
21	1,341	255.87	289.1	
22	1,764	181.03	155.5	
23	2,909	310.18	161.6	
24	4,419	184.58	63.3	
25	6,249	112.06	27.2	
26	6,946	125.08	27.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : m eumusae

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	7,849	147.11	28.4	
28	8,827	122.01	20.9	
29	10,380	75.00	10.9	Upper Marker
30	35,978	0.00	0.0	

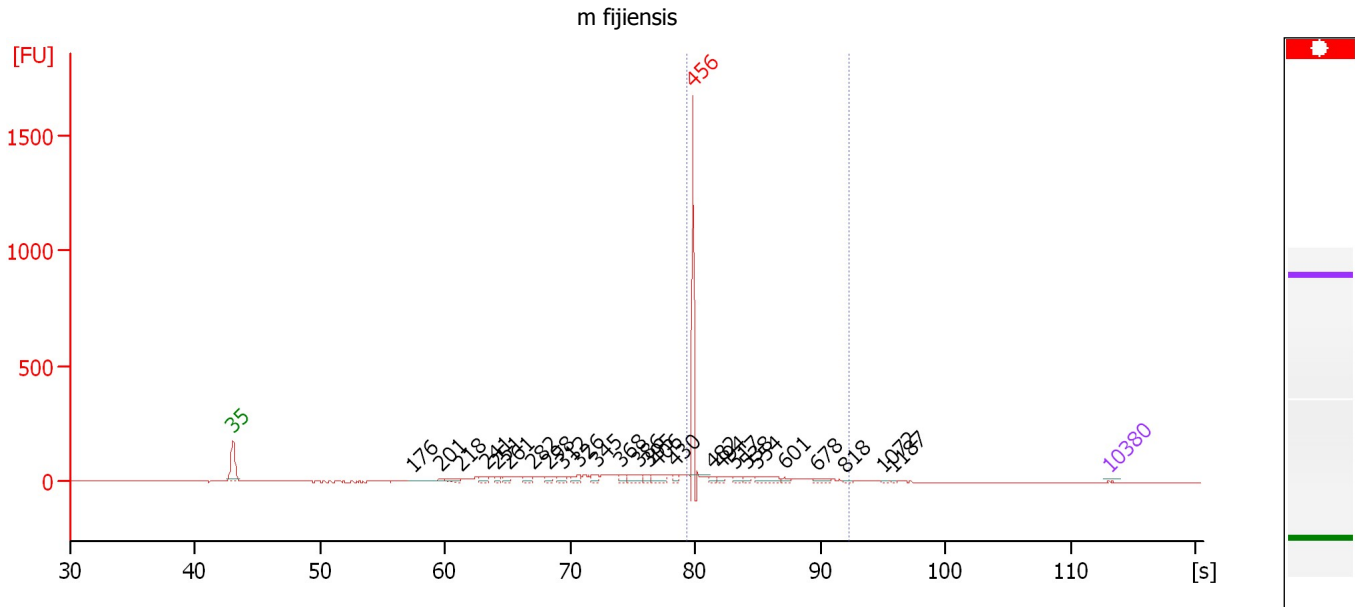
Region table for sample 3 : m eumusae

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	512	43,503.1	12,454.43	507.5	62	35.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : m fijiensis

Number of peaks found: 26 Corr. Area 1: 698.0
 Noise: 0.5

Peak table for sample 4 : m fijiensis


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	176	122.27	1,055.3	
3	201	694.00	5,240.8	
4	218	620.49	4,314.3	
5	241	566.75	3,563.9	
6	251	442.99	2,673.8	
7	261	550.59	3,200.9	
8	282	658.59	3,535.8	
9	298	465.36	2,365.7	
10	312	562.77	2,736.9	
11	326	671.64	3,123.8	
12	345	563.50	2,476.8	
13	368	561.45	2,312.4	
14	386	971.33	3,815.0	
15	395	562.23	2,158.2	
16	406	975.40	3,640.9	
17	430	468.82	1,650.4	
18	456	7,394.14	24,587.6	excluded peak
19	482	444.44	1,396.0	
20	494	444.18	1,361.7	
21	517	480.95	1,408.4	
22	538	379.80	1,069.2	
23	554	972.86	2,662.6	
24	601	326.53	823.2	
25	678	441.02	985.5	
26	818	160.24	296.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad


Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : m fijiensis

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,072	68.16	96.3	
28	1,187	56.73	72.4	
29	 10,380	75.00	10.9	Upper Marker

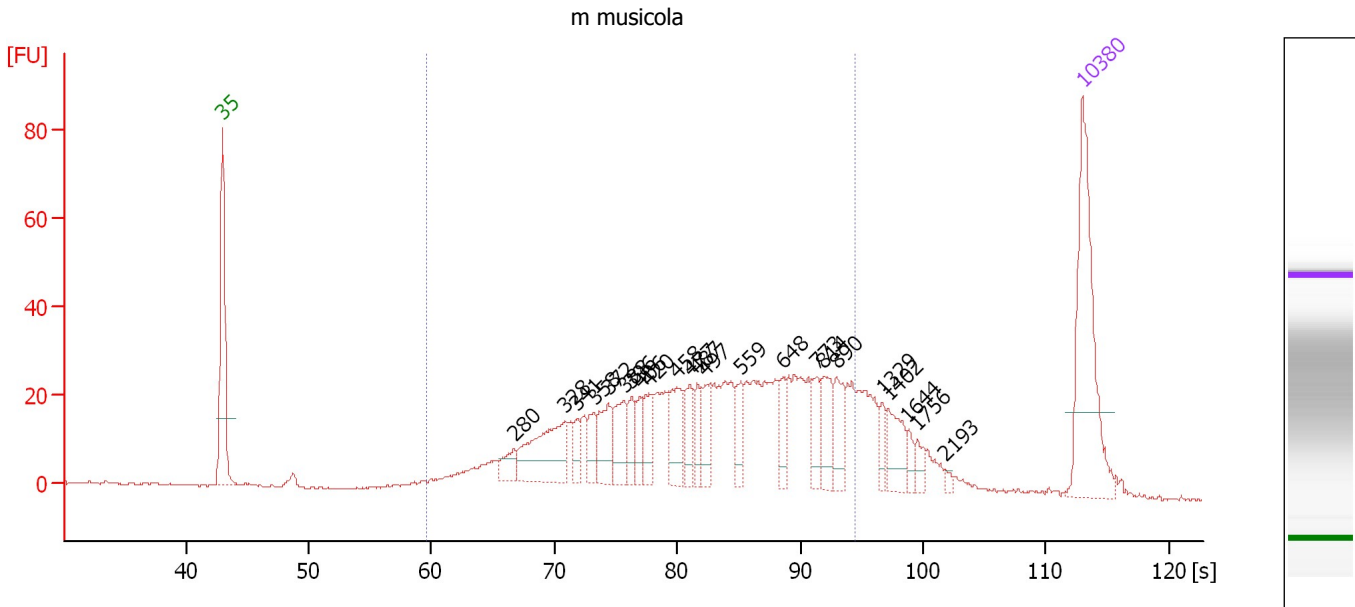
Region table for sample 4 : m fijiensis

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
447	837	505	40,515.9	13,135.46	698.0	48	16.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : m musicola

Number of peaks found: 23 Corr. Area 1: 794.7
 Noise: 0.2

Peak table for sample 5 : m musicola

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	280	14.27	77.3	
3	328	62.69	289.2	
4	341	11.28	50.1	
5	358	15.43	65.3	
6	372	26.61	108.4	
7	388	24.78	96.7	
8	396	15.35	58.7	
9	406	13.44	50.1	
10	420	18.03	65.0	
11	458	26.47	87.6	
12	477	20.03	63.6	
13	487	14.57	45.3	
14	497	19.12	58.2	
15	559	16.78	45.5	
16	648	13.74	32.1	
17	773	17.48	34.3	
18	814	23.08	43.0	
19	890	20.50	34.9	
20	1,329	8.46	9.6	
21	1,402	20.46	22.1	
22	1,644	5.64	5.2	
23	1,756	6.93	6.0	
24	2,193	2.29	1.6	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...

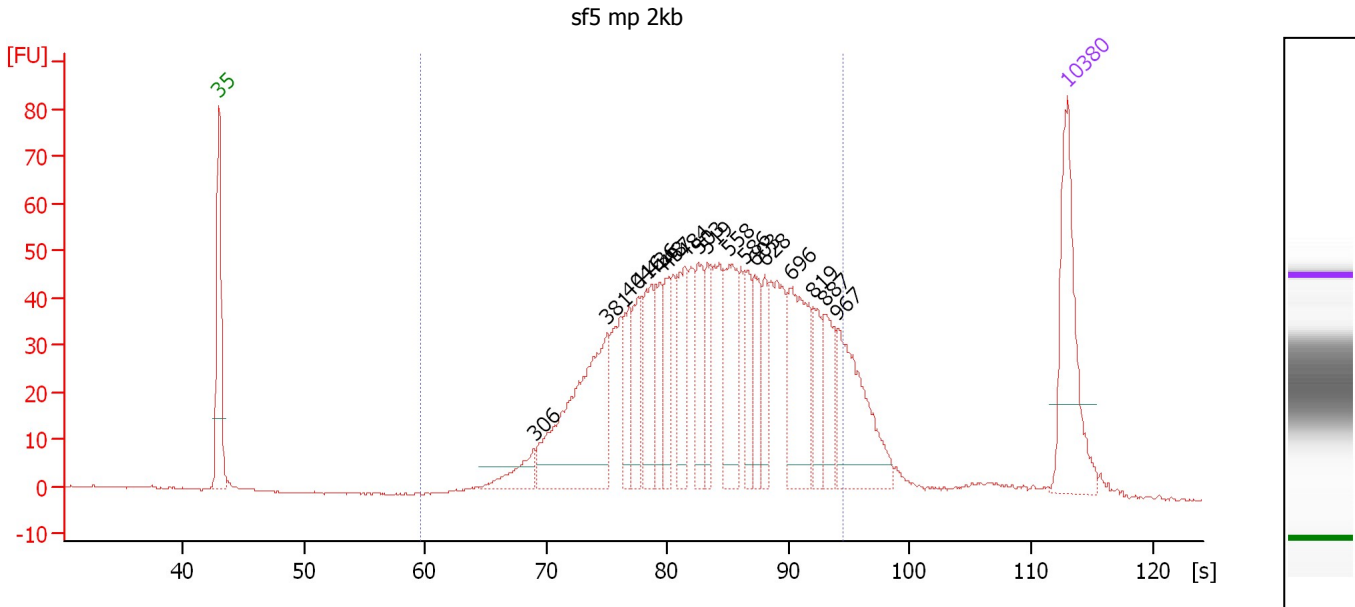
... Region table for sample 5 : m musicola

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	528	2,481.9	720.14	794.7	83	35.3	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sf5 mp 2kb

Number of peaks found: 18 Corr. Area 1: 1,225.4
 Noise: 0.1

Peak table for sample 6 : sf5 mp 2kb

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	306	27.10	134.3	
3	381	169.51	675.0	
4	404	35.08	131.5	
5	416	41.35	150.5	
6	436	50.65	175.8	
7	448	31.85	107.7	
8	457	32.40	107.4	
9	484	53.16	166.4	
10	503	45.81	137.9	
11	519	32.40	94.6	
12	558	62.95	171.0	
13	586	30.46	78.8	
14	603	33.21	83.5	
15	628	26.83	64.7	
16	696	89.24	194.3	
17	819	29.58	54.7	
18	887	34.69	59.3	
19	967	82.92	130.0	
20	10,380	75.00	10.9	Upper Marker

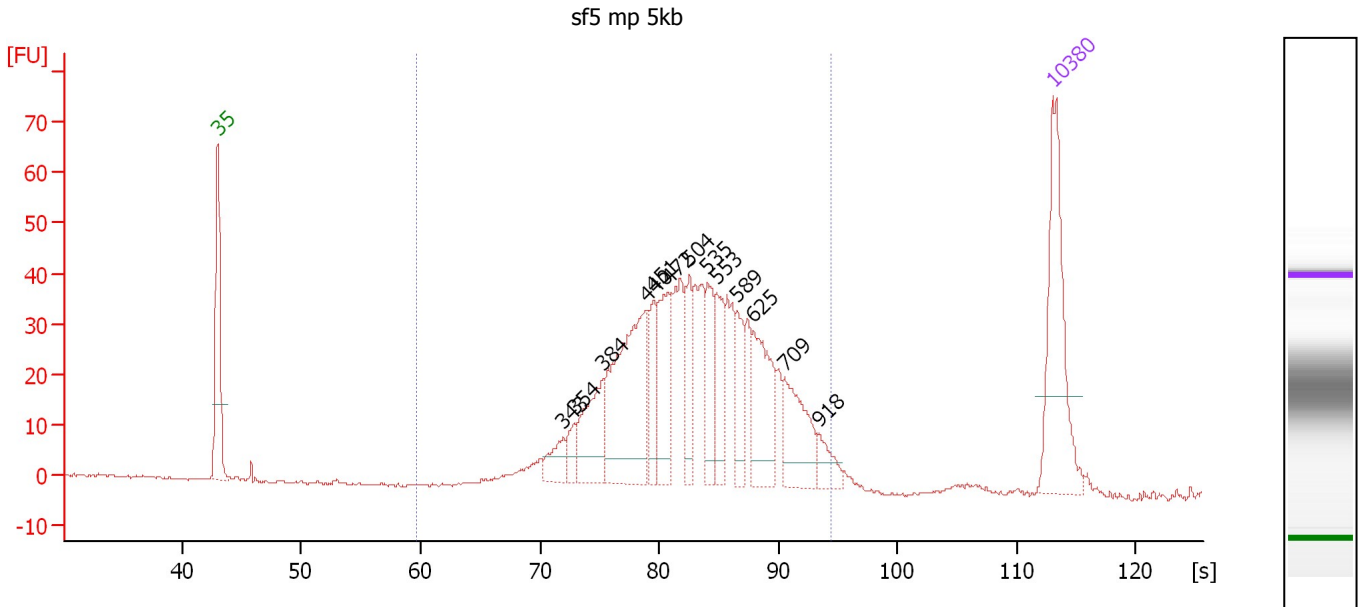
Region table for sample 6 : sf5 mp 2kb

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	548	3,700.0	1,185.97	1,225.4	90	30.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sf5 mp 5kb

Number of peaks found: 13 Corr. Area 1: 784.4
 Noise: 0.4

Peak table for sample 7 : sf5 mp 5kb

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	343	19.41	85.8	
3	354	13.36	57.1	
4	384	53.28	210.3	
5	440	131.34	452.5	
6	451	29.23	98.3	
7	472	55.64	178.7	
8	504	35.53	106.8	
9	535	37.52	106.2	
10	553	34.91	95.7	
11	589	28.05	72.2	
12	625	61.25	148.4	
13	709	52.10	111.4	
14	918	14.18	23.4	
15	10,380	75.00	10.9	Upper Marker

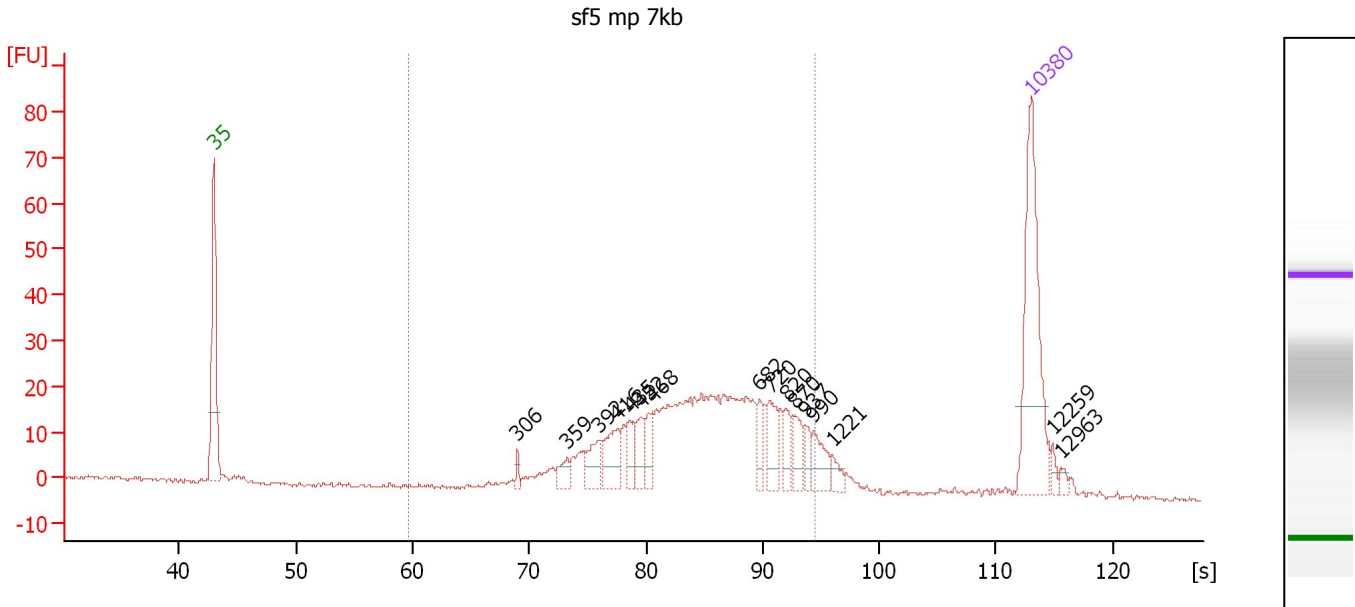
Region table for sample 7 : sf5 mp 5kb

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	529	2,426.5	780.94	784.4	97	25.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sf5 mp 7kb

Number of peaks found: 16 Corr. Area 1: 435.1
 Noise: 0.5

Peak table for sample 8 : sf5 mp 7kb

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	306	3.70	18.3	
3	359	9.82	41.4	
4	392	17.65	68.2	
5	416	22.93	83.6	
6	435	12.30	42.8	
7	452	16.34	54.8	
8	468	14.36	46.5	
9	682	12.41	27.6	
10	720	20.25	42.6	
11	820	12.01	22.2	
12	870	13.39	23.3	
13	937	8.29	13.4	
14	990	15.02	23.0	
15	1,221	6.17	7.7	
16	10,380	75.00	10.9	Upper Marker
17	12,259	0.00	0.0	
18	12,963	0.00	0.0	

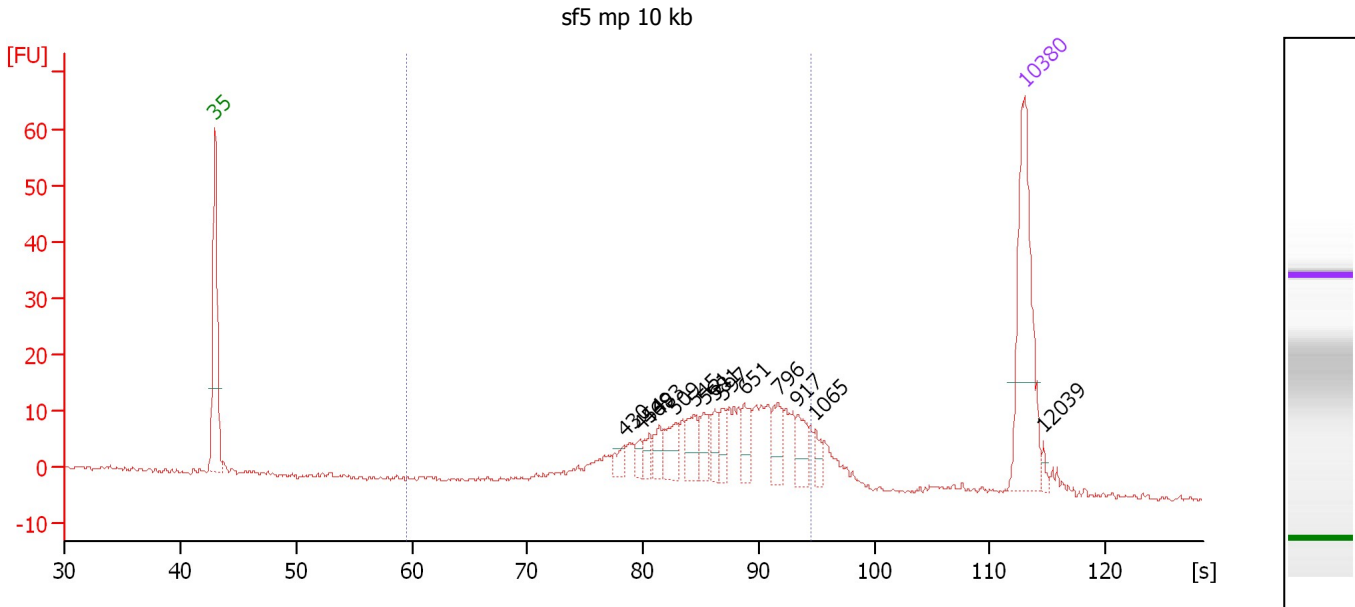
Region table for sample 8 : sf5 mp 7kb

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	575	1,246.0	426.26	435.1	87	28.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sf5 mp 10 kb

Number of peaks found: 14 Corr. Area 1: 243.2
 Noise: 0.4

Peak table for sample 9 : sf5 mp 10 kb

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	430	8.49	29.9	
3	454	6.54	21.8	
4	469	7.64	24.7	
5	483	11.38	35.7	
6	509	18.23	54.2	
7	545	17.59	48.9	
8	561	12.10	32.6	
9	581	10.79	28.1	
10	597	10.92	27.7	
11	651	15.64	36.4	
12	796	17.60	33.5	
13	917	14.64	24.2	
14	1,065	7.21	10.3	
15	10,380	75.00	10.9	Upper Marker
16	12,039	0.00	0.0	

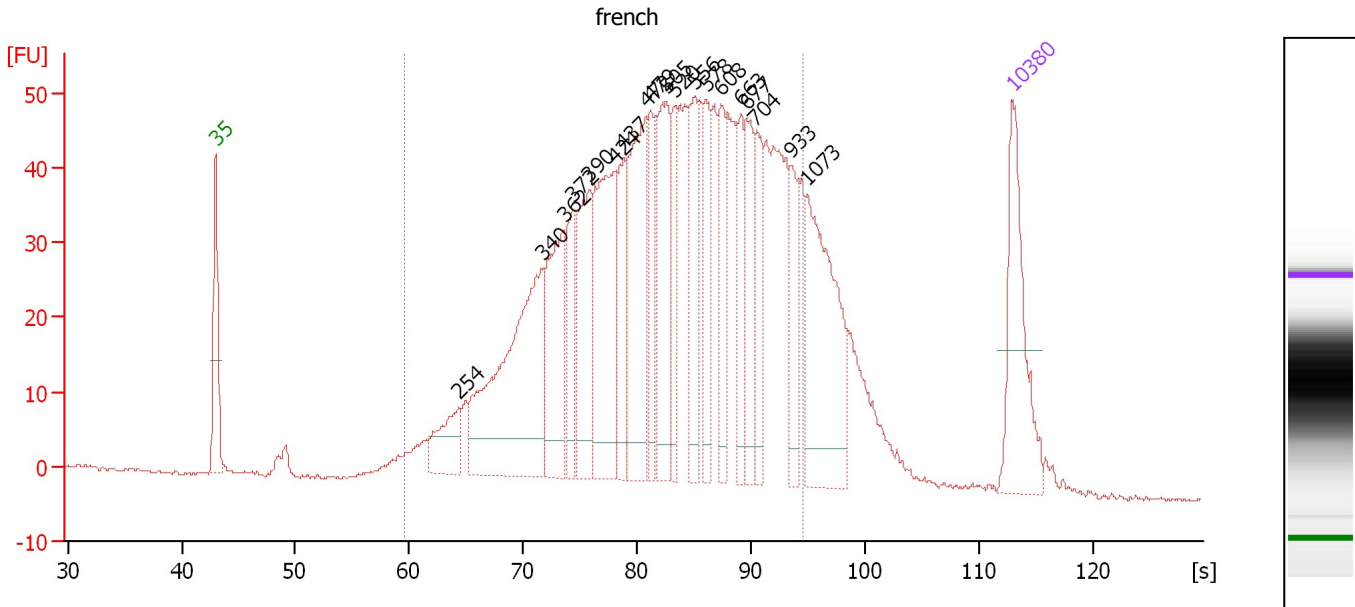
Region table for sample 9 : sf5 mp 10 kb

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	619	772.2	288.90	243.2	85	25.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : french

Number of peaks found: 19 Corr. Area 1: 1,433.2
 Noise: 0.3

Peak table for sample 10 : french

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	254	48.44	289.5	
3	340	236.65	1,055.3	
4	362	109.70	458.6	
5	372	56.27	229.0	
6	390	89.82	348.6	
7	424	152.60	545.2	
8	437	55.39	192.0	
9	472	138.67	444.7	
10	479	54.46	172.2	
11	505	104.23	312.5	
12	520	49.22	143.3	
13	556	62.17	169.3	
14	578	52.76	138.2	
15	608	53.81	134.1	
16	663	42.85	98.0	
17	677	58.83	131.7	
18	704	53.60	115.4	
19	933	42.35	68.8	
20	1,073	136.37	192.6	
21	10,380	75.00	10.9	Upper Marker

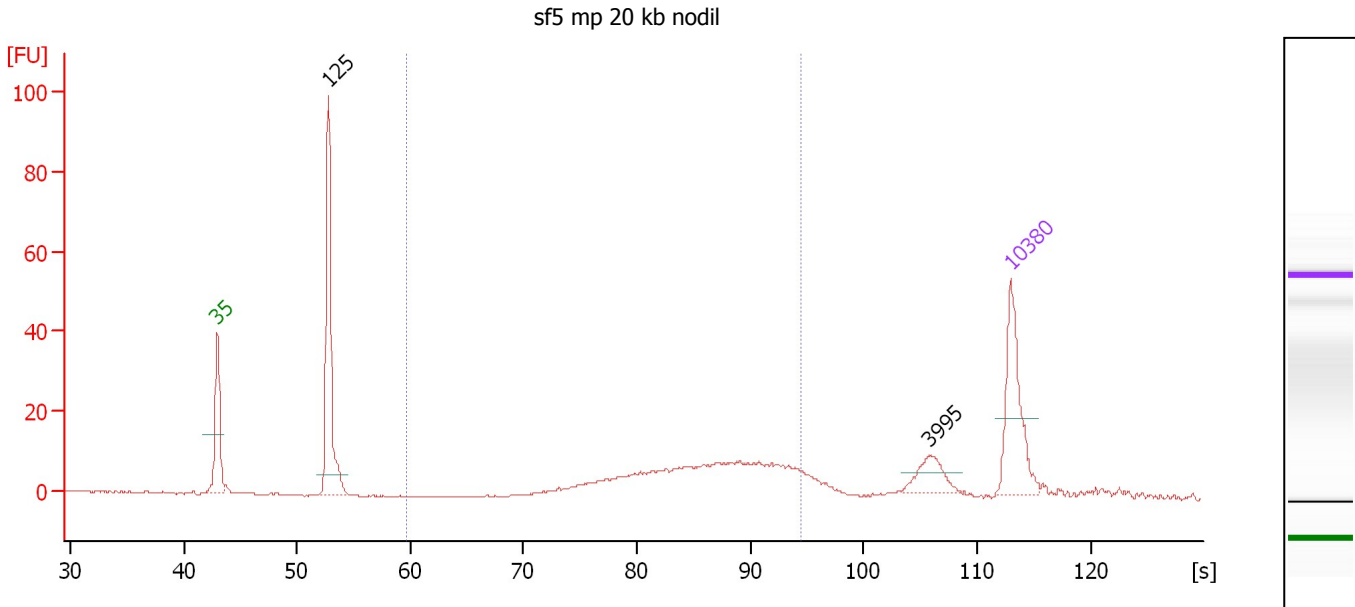
Region table for sample 10 : french

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	529	6,652.3	1,962.48	1,433.2	87	33.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
 Modified: 10/4/2013 5:42:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sf5 mp 20 kb nodil

Number of peaks found: 2 Corr. Area 1: 145.5
 Noise: 0.2

Peak table for sample 11 : sf5 mp 20 kb nodil

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	125	221.81	2,690.3	
3	3,995	28.56	10.8	
4	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : sf5 mp 20 kb nodil

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	609	602.6	221.37	145.5	49	26.4	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ettings\Bioanalyzer\2013-10-04\2013-10-04_004_R_GIL_RWM.xad

Created: 10/4/2013 5:00:22 PM
Modified: 10/4/2013 5:42:34 PM

Gel Image

