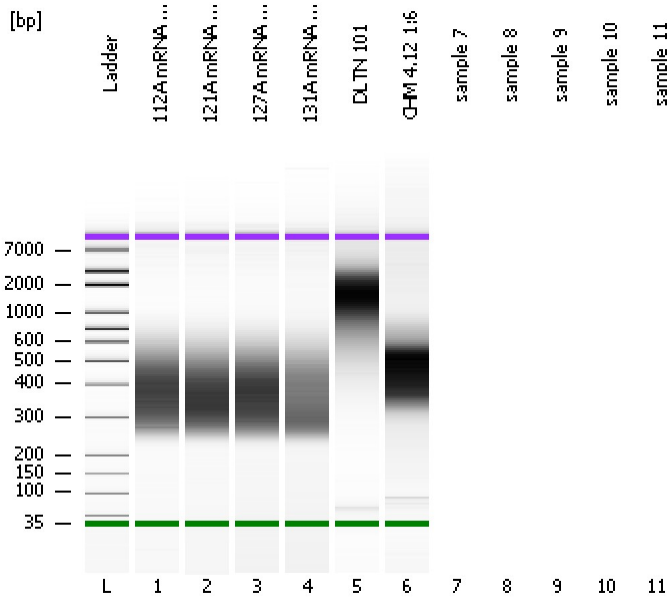


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_005.xad

Created: 2/14/2014 2:28:40 PM
Modified: 2/14/2014 3:20:46 PM

Electrophoresis File Run Summary



Instrument Information:

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

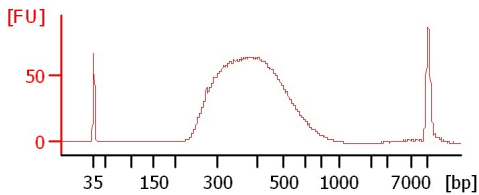
Assay Information:

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

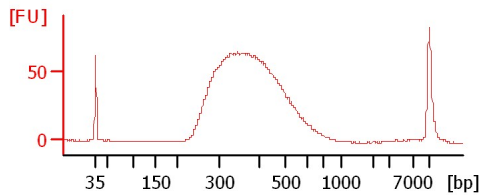
Chip Information:

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

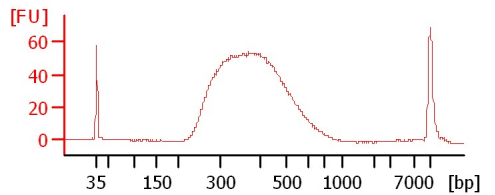
112A mRNA Lib 1:12



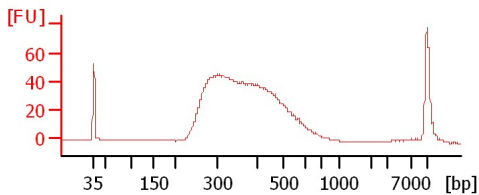
121A mRNA Lib 1:11



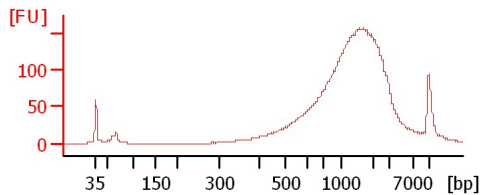
127A mRNA Lib 1:11



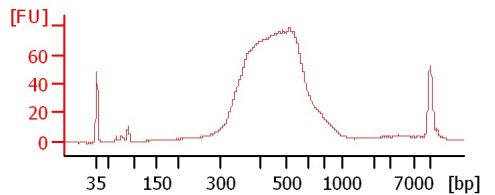
131A mRNA Lib 1:12



DLTN 101



CHM 4.12 1:6



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_005.xad

Created: 2/14/2014 2:28:40 PM
 Modified: 2/14/2014 3:20:46 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
112A mRNA Lib 1:12		<input type="checkbox"/>	✓			
121A mRNA Lib 1:11		<input type="checkbox"/>	✓			
127A mRNA Lib 1:11		<input type="checkbox"/>	✓			
131A mRNA Lib 1:12		<input type="checkbox"/>	✓			
DLTN 101		<input type="checkbox"/>	✓			
CHM 4.12 1:6		<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\2014-02-14\2014-02-14_005.xad

Created: 2/14/2014 2:28:40 PM
Modified: 2/14/2014 3:20:46 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

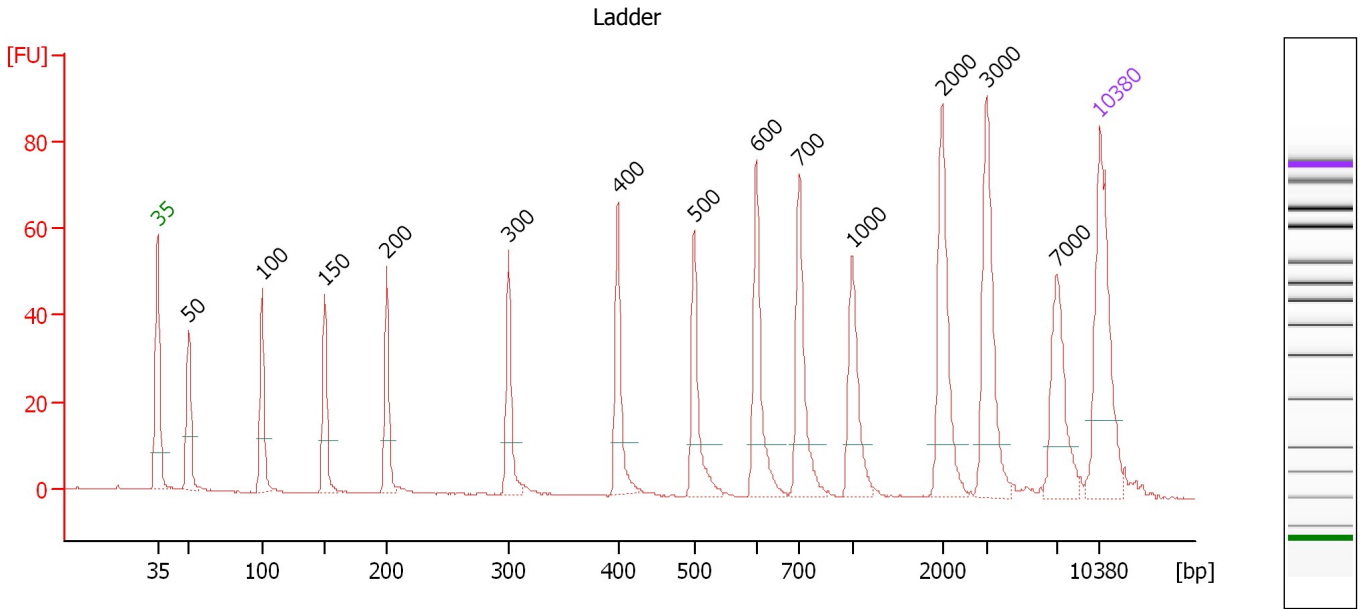
Ladder

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:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_005.xad

Created: 2/14/2014 2:28:40 PM
 Modified: 2/14/2014 3:20:46 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

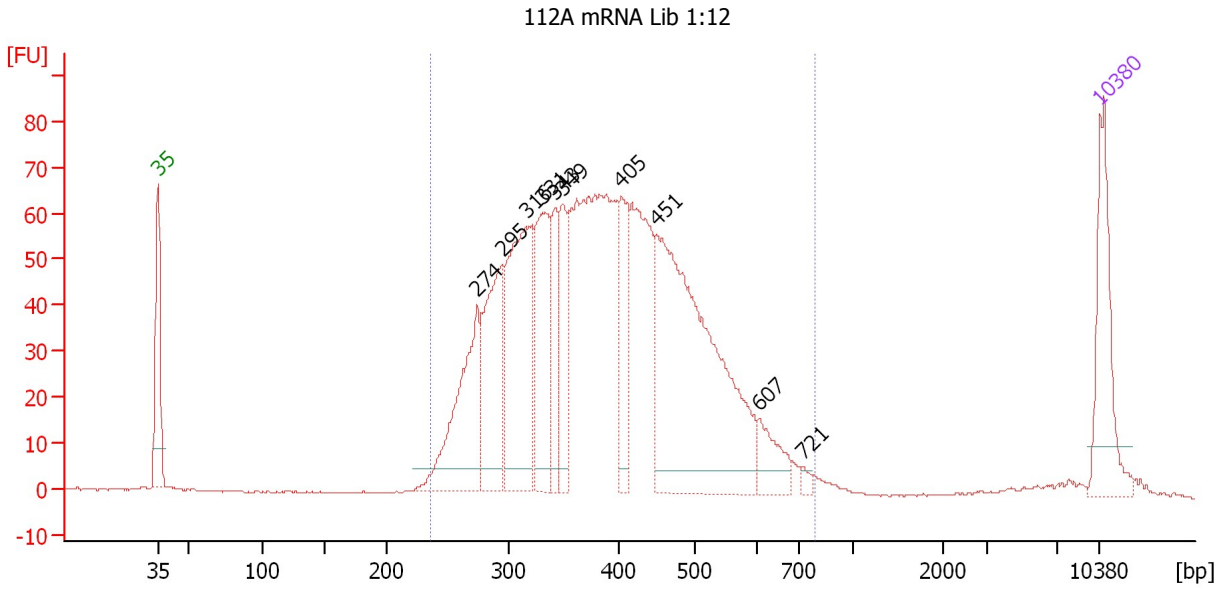
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.29	50	150.00	4,545.5	Ladder Peak
3	50.77	100	150.00	2,272.7	Ladder Peak
4	55.40	150	150.00	1,515.2	Ladder Peak
5	60.03	200	150.00	1,136.4	Ladder Peak
6	69.06	300	150.00	757.6	Ladder Peak
7	77.19	400	150.00	568.2	Ladder Peak
8	82.85	500	150.00	454.5	Ladder Peak
9	87.48	600	150.00	378.8	Ladder Peak
10	90.67	700	150.00	324.7	Ladder Peak
11	94.58	1,000	150.00	227.3	Ladder Peak
12	101.27	2,000	150.00	113.6	Ladder Peak
13	104.55	3,000	150.00	75.8	Ladder Peak
14	109.77	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_005.xad

Created: 2/14/2014 2:28:40 PM
 Modified: 2/14/2014 3:20:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 112A mRNA Lib 1:12

Number of peaks found: 10 Corr. Area 1: 1,569.5
 Noise: 0.2

Peak table for sample 1 : 112A mRNA Lib 1:12

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	66.70	274	163.48	904.5	
3	68.57	295	146.17	751.9	
4	70.34	316	219.93	1,055.2	
5	71.62	331	126.15	576.6	
6	72.53	343	65.11	287.9	
7	73.08	349	69.83	302.8	
8	77.45	405	81.68	305.8	
9	80.05	451	419.76	1,411.7	
10	87.71	607	37.48	93.5	
11	90.94	721	5.28	11.1	
12	113.00	10,380	75.00	10.9	Upper Marker

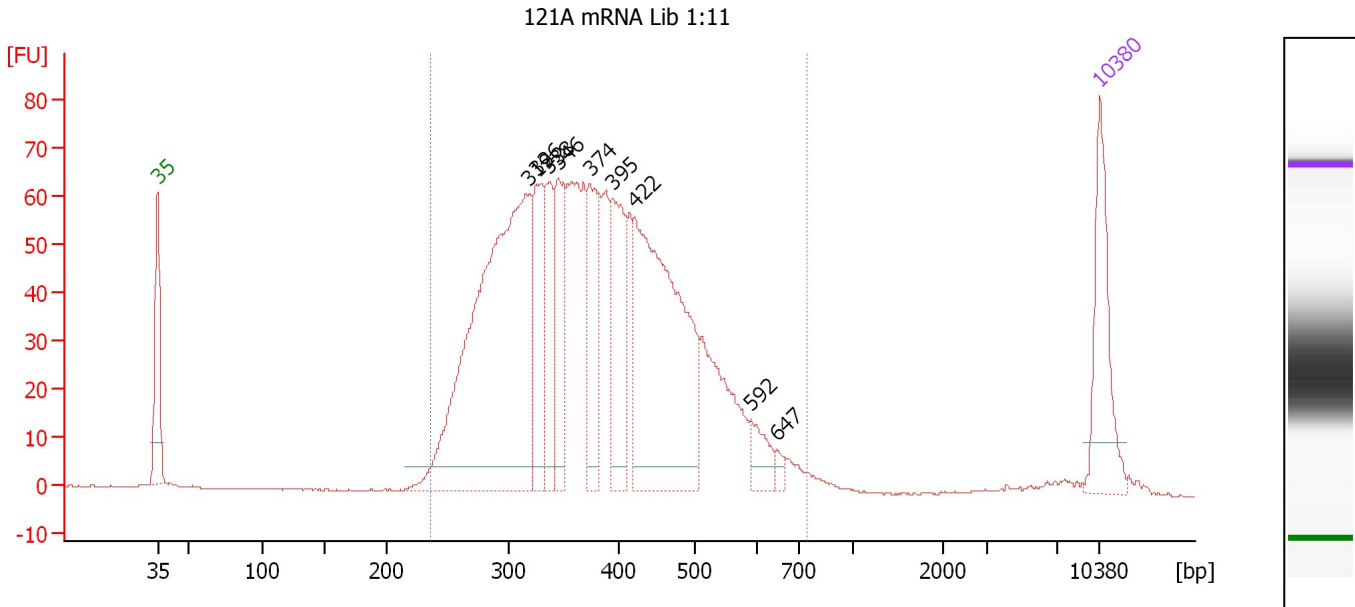
Region table for sample 1 : 112A mRNA Lib 1:12

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
236	787	399	7,965.1	1,941.49	1,569.5	97	24.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_005.xad

Created: 2/14/2014 2:28:40 PM
 Modified: 2/14/2014 3:20:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 121A mRNA Lib 1:11

Number of peaks found: 9 Corr. Area 1: 1,524.3
 Noise: 0.2

Peak table for sample 2 : 121A mRNA Lib 1:11

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	70.60	319	577.80	2,744.3	
3	71.16	326	100.31	466.5	
4	72.12	338	76.41	342.9	
5	72.76	346	96.85	424.7	
6	75.11	374	103.62	419.4	
7	76.81	395	115.88	444.2	
8	78.46	422	351.63	1,261.3	
9	87.09	592	28.27	72.4	
10	88.98	647	7.95	18.6	
11	113.00	10,380	75.00	10.9	Upper Marker

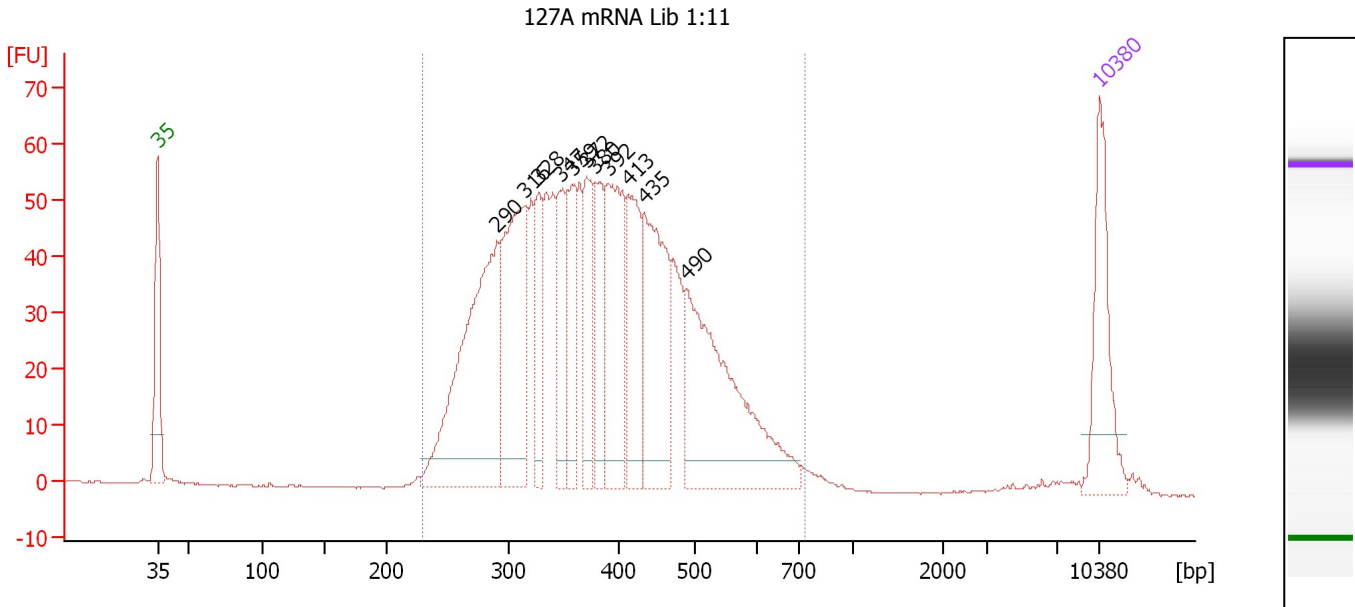
Region table for sample 2 : 121A mRNA Lib 1:11

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
235	741	389	8,205.0	1,953.95	1,524.3	96	23.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_005.xad

Created: 2/14/2014 2:28:40 PM
 Modified: 2/14/2014 3:20:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 127A mRNA Lib 1:11

Number of peaks found: 11 Corr. Area 1: 1,333.4
 Noise: 0.2

Peak table for sample 3 : 127A mRNA Lib 1:11

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	68.18	290	316.96	1,654.5	
3	70.32	316	208.11	999.4	
4	71.30	328	66.49	307.6	
5	72.88	347	84.42	368.6	
6	73.86	359	73.71	311.1	
7	74.88	372	72.85	297.0	
8	75.53	380	75.70	302.2	
9	76.56	392	144.72	559.1	
10	77.95	413	105.21	385.5	
11	79.16	435	172.56	601.3	
12	82.28	490	253.85	785.1	
13	113.00	10,380	75.00	10.9	Upper Marker

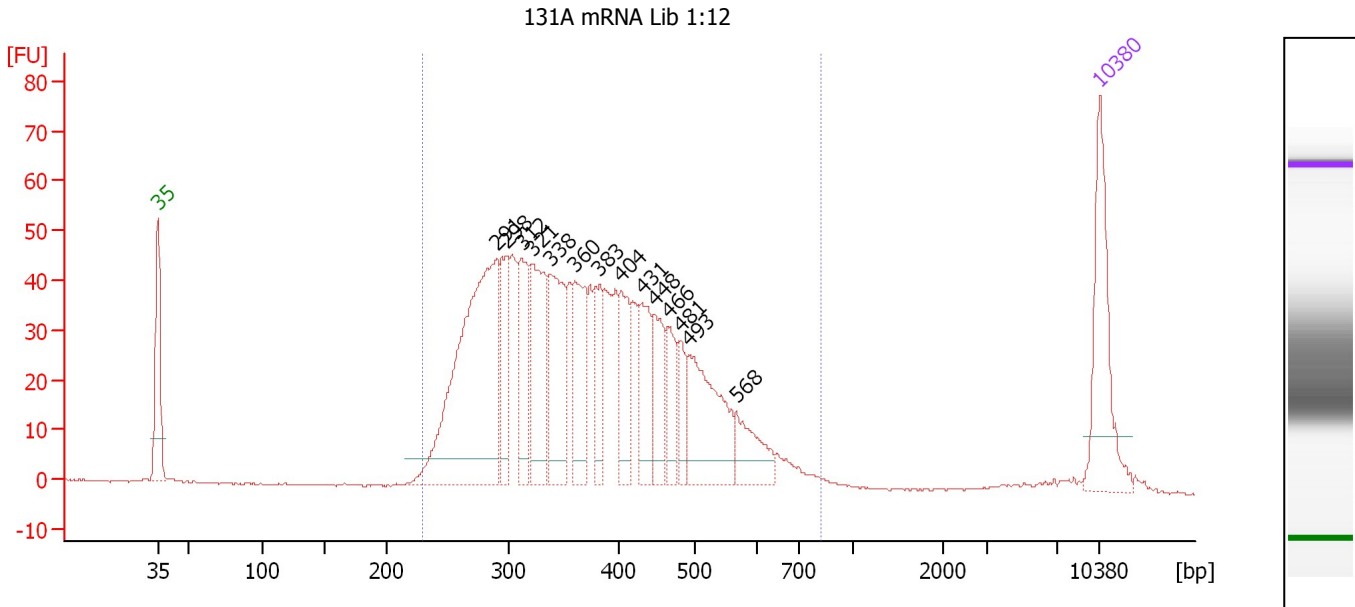
Region table for sample 3 : 127A mRNA Lib 1:11

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
230	729	392	7,932.4	1,898.79	1,333.4	97	23.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_005.xad

Created: 2/14/2014 2:28:40 PM
 Modified: 2/14/2014 3:20:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 131A mRNA Lib 1:12

Number of peaks found: 14 Corr. Area 1: 1,137.1
 Noise: 0.2

Peak table for sample 4 : 131A mRNA Lib 1:12

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	68.21	291	326.83	1,704.3	
3	68.87	298	58.54	297.7	
4	70.05	312	76.75	372.6	
5	70.80	321	108.56	511.7	
6	72.17	338	106.97	479.1	
7	73.96	360	74.99	315.4	
8	75.81	383	47.87	189.4	
9	77.41	404	55.70	209.0	
10	78.97	431	56.86	199.7	
11	79.91	448	52.16	176.4	
12	80.90	466	38.20	124.3	
13	81.80	481	26.46	83.3	
14	82.46	493	109.10	335.2	
15	86.00	568	42.06	112.2	
16	113.00	10,380	75.00	10.9	Upper Marker

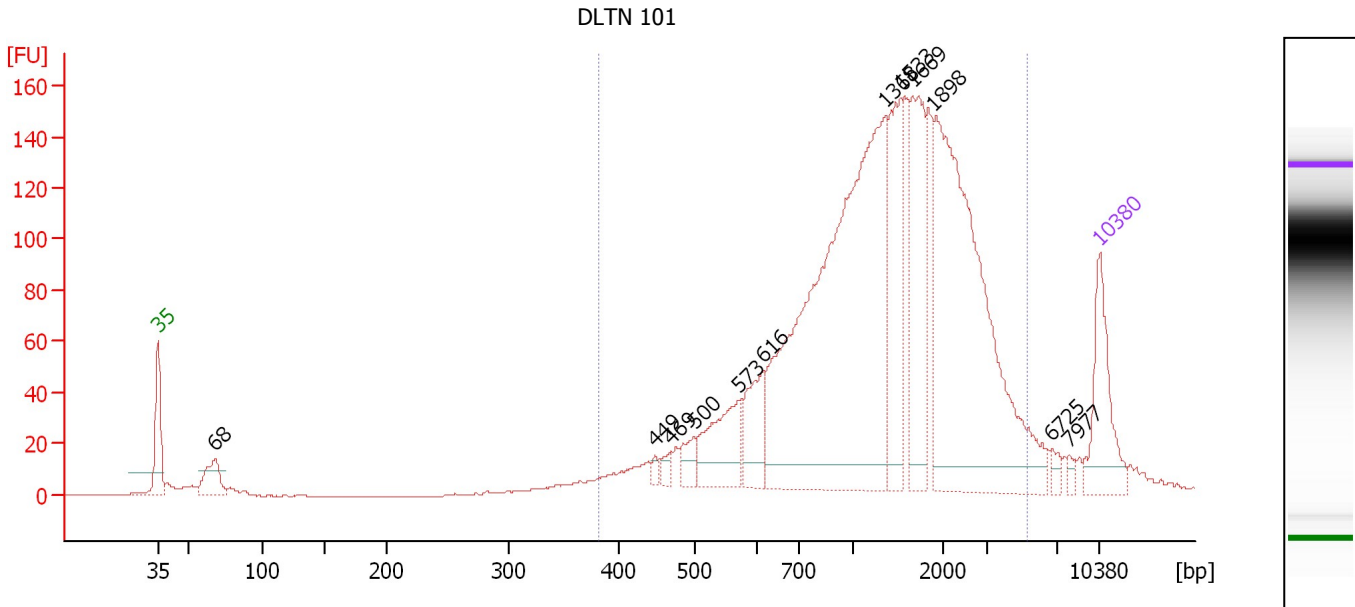
Region table for sample 4 : 131A mRNA Lib 1:12

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
229	820	384	6,478.1	1,505.14	1,137.1	97	26.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_005.xad

Created: 2/14/2014 2:28:40 PM
 Modified: 2/14/2014 3:20:46 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : DLTN 101

Height Threshold [FU] : 10

Overall Results for sample 5 : DLTN 101

Number of peaks found: 12 Corr. Area 1: 2,426.4
 Noise: 0.2

Peak table for sample 5 : DLTN 101

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	47.26	68	51.97	1,158.1	
3	79.94	449	7.45	25.2	
4	81.09	469	11.47	37.1	
5	82.86	500	23.85	72.2	
6	86.22	573	86.73	229.5	
7	87.99	616	62.85	154.6	
8	97.05	1,368	642.43	711.3	
9	98.15	1,533	131.73	130.2	
10	99.06	1,669	135.15	122.7	
11	100.59	1,898	439.09	350.5	
12	109.41	6,725	8.86	2.0	
13	110.70	7,977	6.34	1.2	
14	113.00	10,380	75.00	10.9	Upper Marker

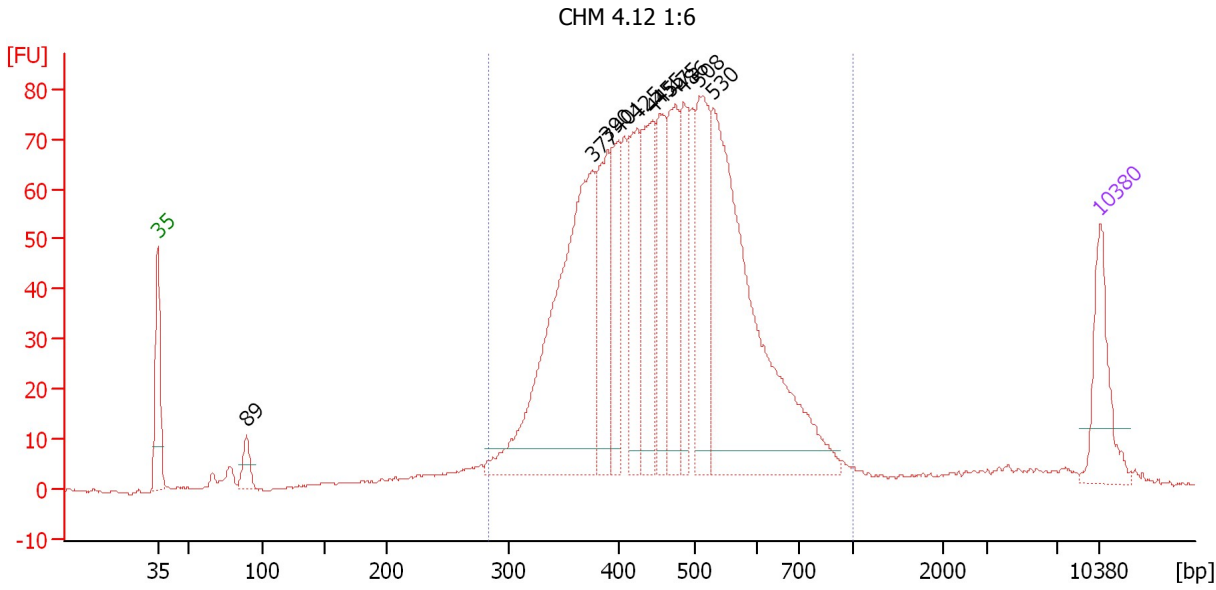
Region table for sample 5 : DLTN 101

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
382	5,288	1,532	2,687.5	1,826.00	2,426.4	92	58.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_005.xad

Created: 2/14/2014 2:28:40 PM
 Modified: 2/14/2014 3:20:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CHM 4.12 1:6

Number of peaks found: 11 Corr. Area 1: 1,499.0
 Noise: 0.3

Peak table for sample 6 : CHM 4.12 1:6

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	49.61	89	34.62	586.7	
3	75.33	377	546.91	2,197.6	
4	76.40	390	152.99	594.0	
5	77.22	401	112.18	424.4	
6	78.63	425	144.31	513.9	
7	79.75	445	160.51	546.3	
8	80.28	455	116.85	389.4	
9	81.45	475	163.62	521.6	
10	82.08	486	109.26	340.4	
11	83.20	508	185.57	554.0	
12	84.22	530	568.49	1,626.4	
13	113.00	10,380	75.00	10.9	Upper Marker

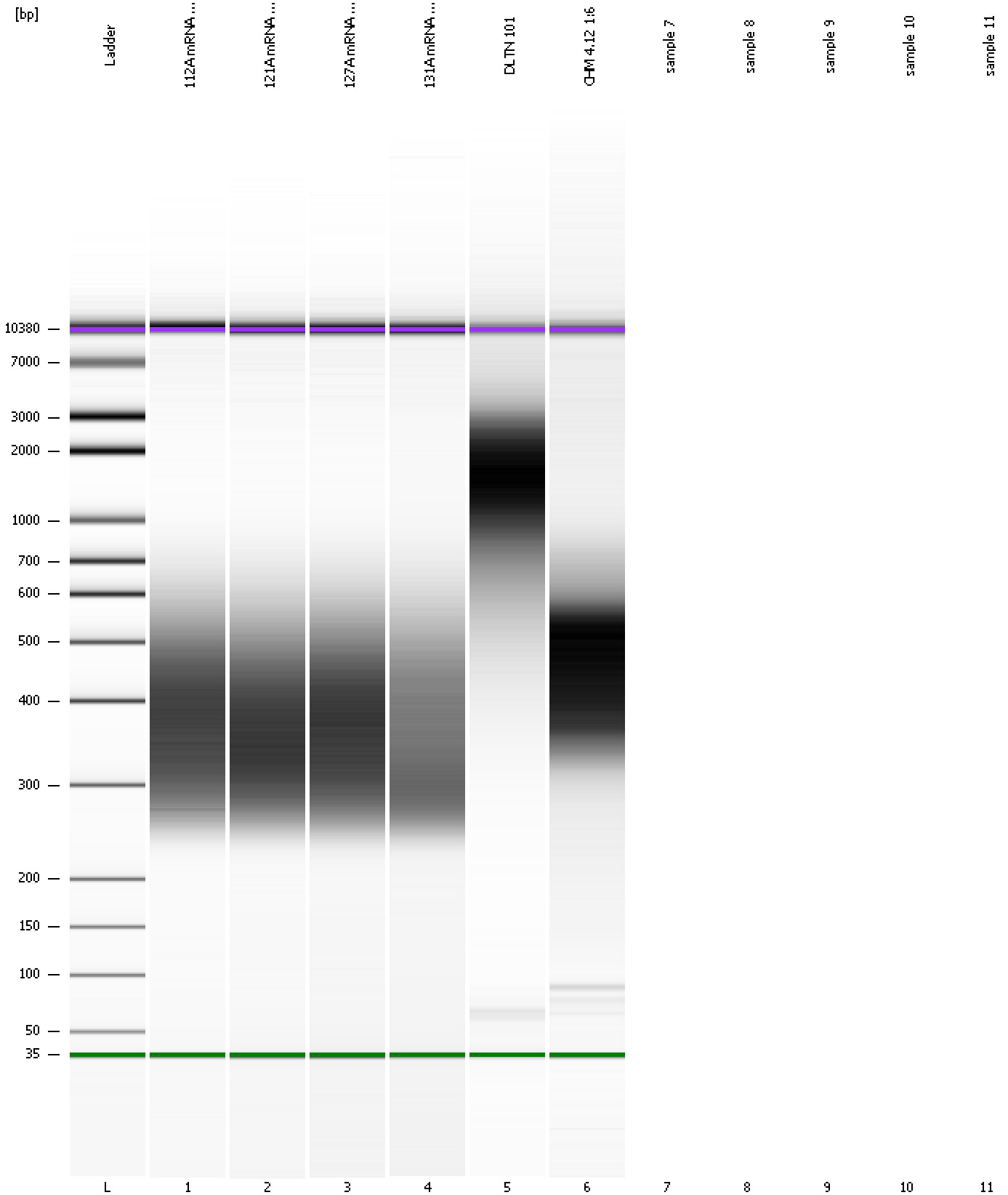
Region table for sample 6 : CHM 4.12 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
284	1,000	472	9,161.6	2,674.53	1,499.0	89	23.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_005.xad

Created: 2/14/2014 2:28:40 PM
Modified: 2/14/2014 3:20:46 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-02-14\2014-02-14_005.xad

Created: 2/14/2014 2:28:40 PM
Modified: 2/14/2014 3:20:46 PM

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.