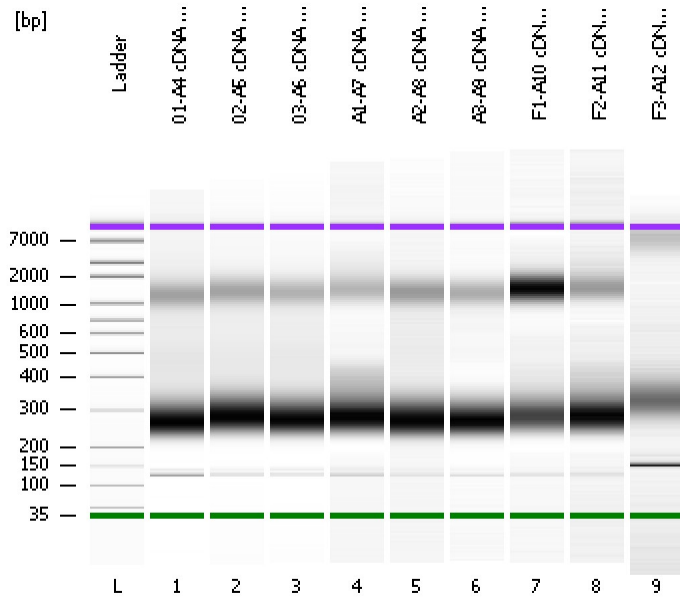


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
 Modified: 3/4/2013 11:37:22 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

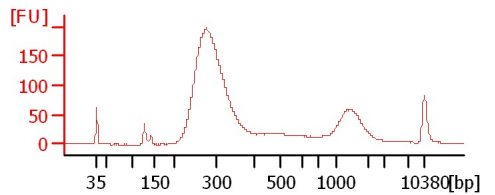
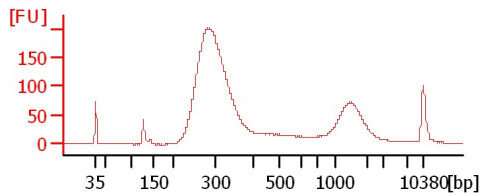
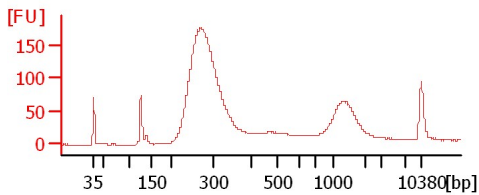
Chip Information:

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

01-A4 cDNA Lib 1:3

02-A5 cDNA Lib 1:3

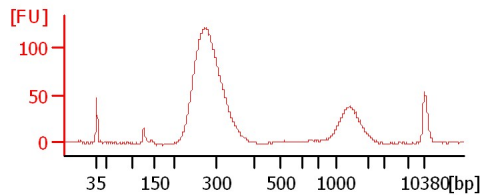
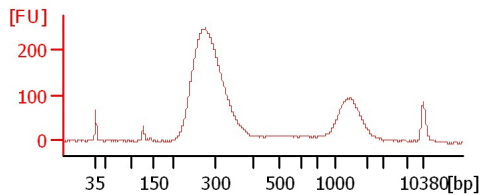
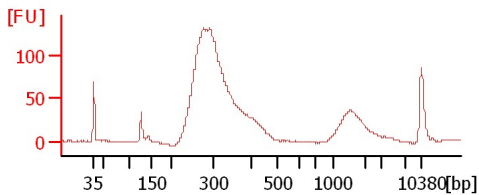
03-A6 cDNA Lib 1:3



A1-A7 cDNA Lib 1:4

A2-A8 cDNA Lib 1:3

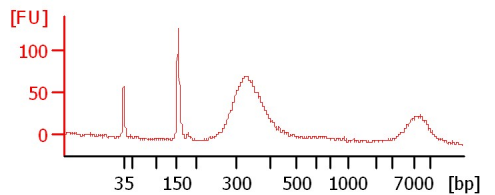
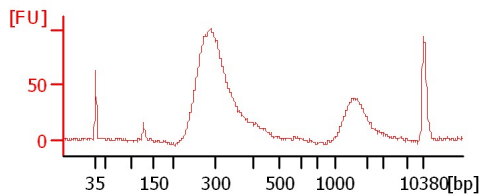
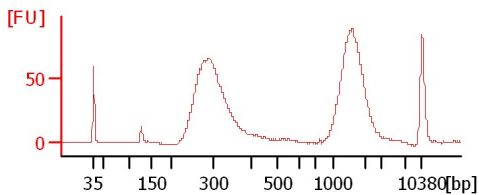
A3-A9 cDNA Lib 1:3



F1-A10 cDNA Lib 1:3

F2-A11 cDNA Lib 1:4

F3-A12 cDNA Lib



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
 Modified: 3/4/2013 11:37:22 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
01-A4 cDNA Lib 1:3		<input type="checkbox"/>	✓			
02-A5 cDNA Lib 1:3		<input type="checkbox"/>	✓			
03-A6 cDNA Lib 1:3		<input type="checkbox"/>	✓			
A1-A7 cDNA Lib 1:4		<input type="checkbox"/>	✓			
A2-A8 cDNA Lib 1:3		<input type="checkbox"/>	✓			
A3-A9 cDNA Lib 1:3		<input type="checkbox"/>	✓			
F1-A10 cDNA Lib 1:3		<input type="checkbox"/>	✓			
F2-A11 cDNA Lib 1:4		<input type="checkbox"/>	✓			
F3-A12 cDNA Lib		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
Modified: 3/4/2013 11:37:22 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

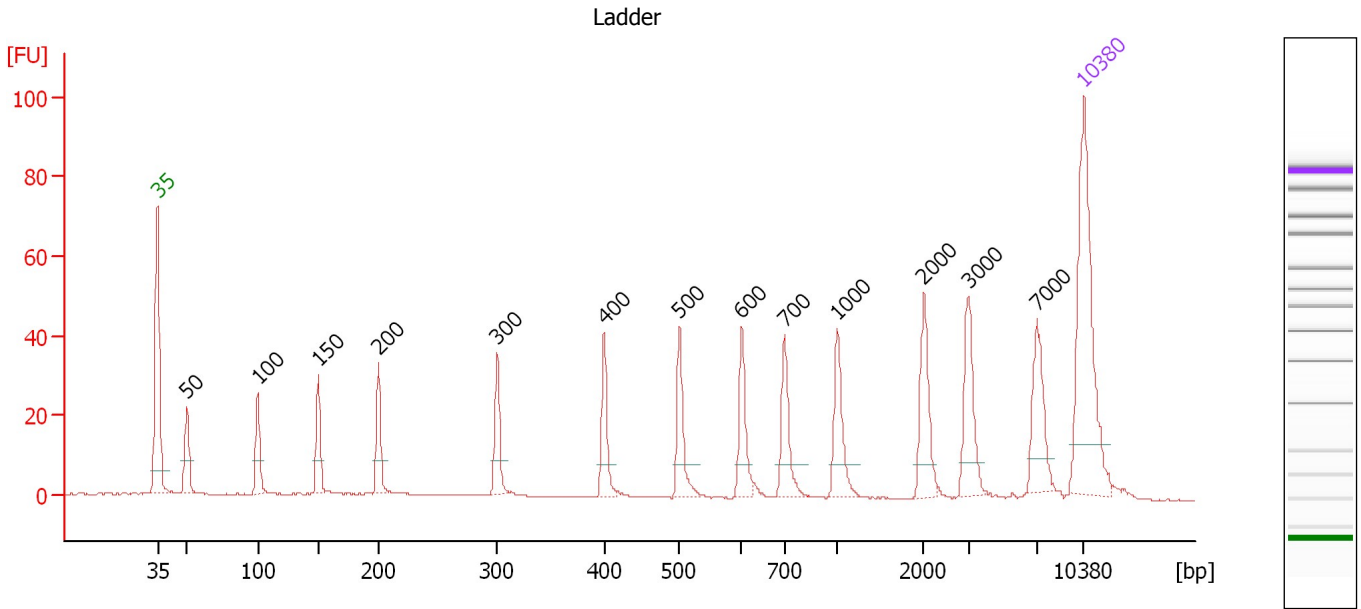
Ladder

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:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
 Modified: 3/4/2013 11:37:22 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

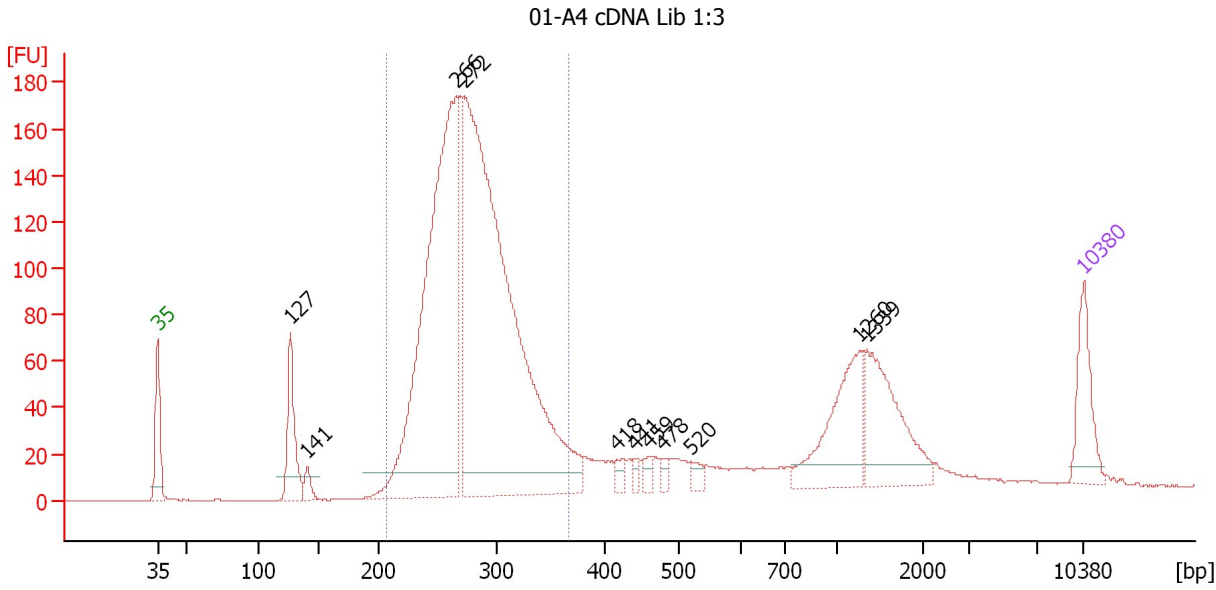
Peak table for Ladder

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:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
 Modified: 3/4/2013 11:37:22 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : 01-A4 cDNA Lib 1:3

Height Threshold [FU] : 10

Overall Results for sample 1 : 01-A4 cDNA Lib 1:3

Number of peaks found: 11 Corr. Area 1: 1,919.4
 Noise: 0.1

Peak table for sample 1 : 01-A4 cDNA Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	127	145.55	1,733.9	
3	141	26.12	281.2	
4	266	1,076.53	6,140.0	
5	272	1,552.93	8,654.0	
6	418	18.23	66.1	
7	441	12.36	42.5	
8	459	16.42	54.2	
9	478	12.96	41.1	
10	520	17.39	50.7	
11	1,260	173.55	208.6	
12	1,339	177.62	201.0	
13	10,380	75.00	10.9	Upper Marker

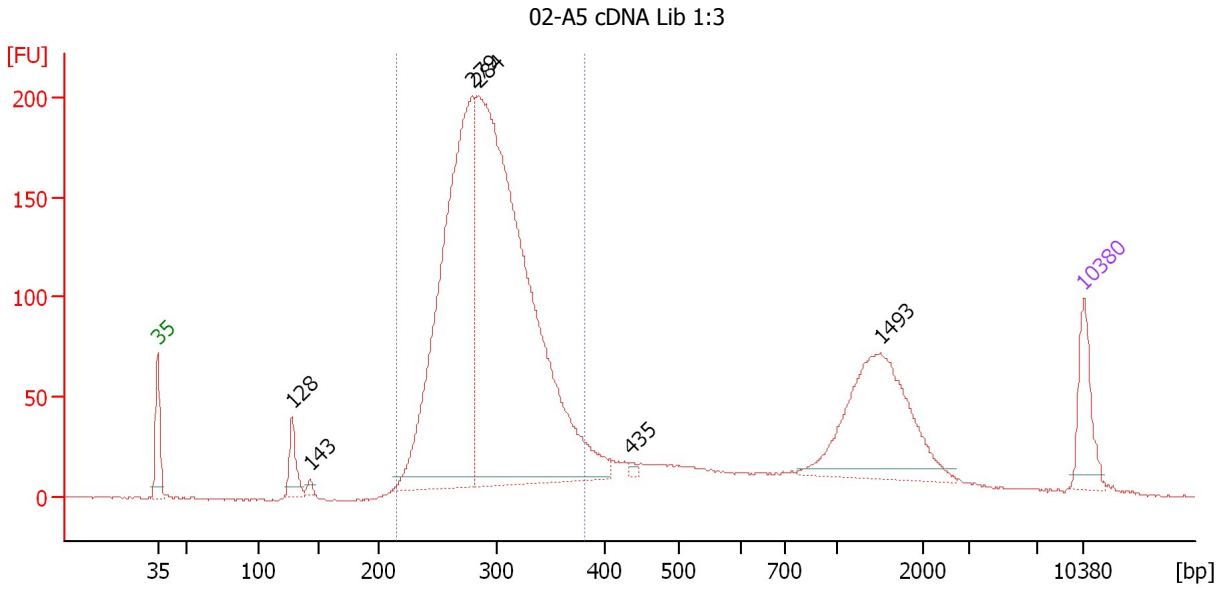
Region table for sample 1 : 01-A4 cDNA Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
207	367	280	14,144.3	2,578.67	1,919.4	70	11.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
 Modified: 3/4/2013 11:37:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 02-A5 cDNA Lib 1:3

Number of peaks found: 6 Corr. Area 1: 2,352.6
 Noise: 0.5

Peak table for sample 2 : 02-A5 cDNA Lib 1:3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	71.52	844.2	
3	143	11.48	121.5	
4	279	1,149.45	6,241.4	
5	284	1,734.93	9,257.6	
6	435	6.11	21.3	
7	1,493	324.82	329.5	
8	10,380	75.00	10.9	Upper Marker

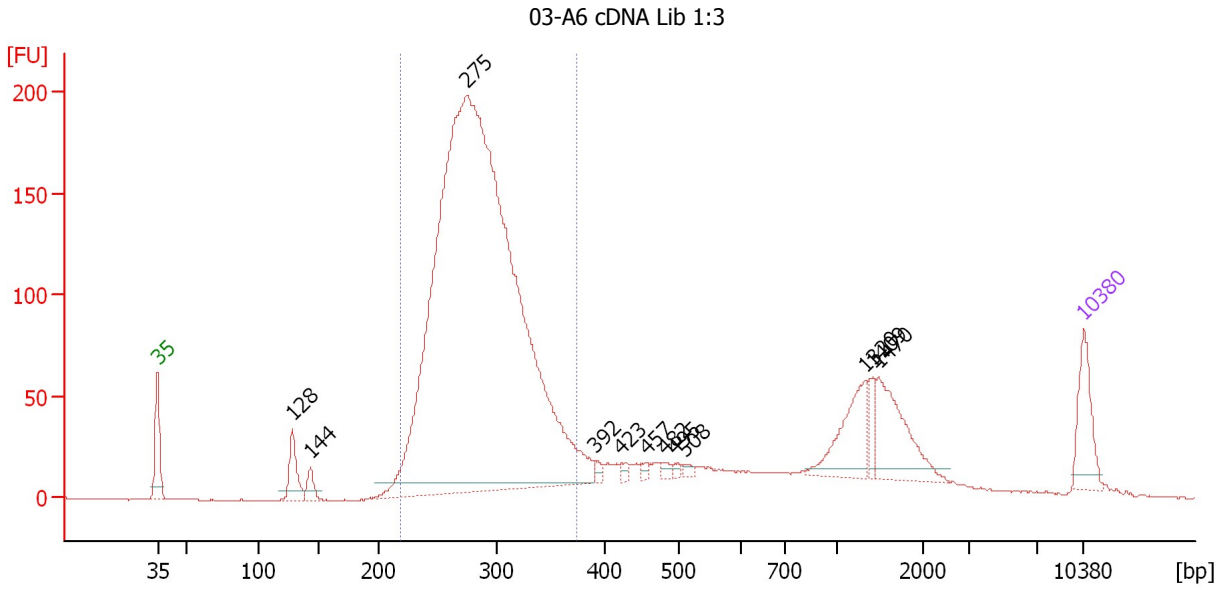
Region table for sample 2 : 02-A5 cDNA Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
215	381	294	15,251.3	2,916.72	2,352.6	72	11.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
 Modified: 3/4/2013 11:37:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 03-A6 cDNA Lib 1:3

Number of peaks found: 12 Corr. Area 1: 2,215.6
 Noise: 0.3

Peak table for sample 3 : 03-A6 cDNA Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	84.45	996.1	
3	144	34.35	362.6	
4	275	3,393.12	18,697.6	
5	392	11.89	46.0	
6	423	10.25	36.7	
7	457	8.82	29.2	
8	482	11.45	36.0	
9	495	7.50	22.9	
10	508	8.97	26.7	
11	1,320	113.76	130.5	
12	1,409	31.85	34.2	
13	1,470	142.48	146.8	
14	10,380	75.00	10.9	Upper Marker

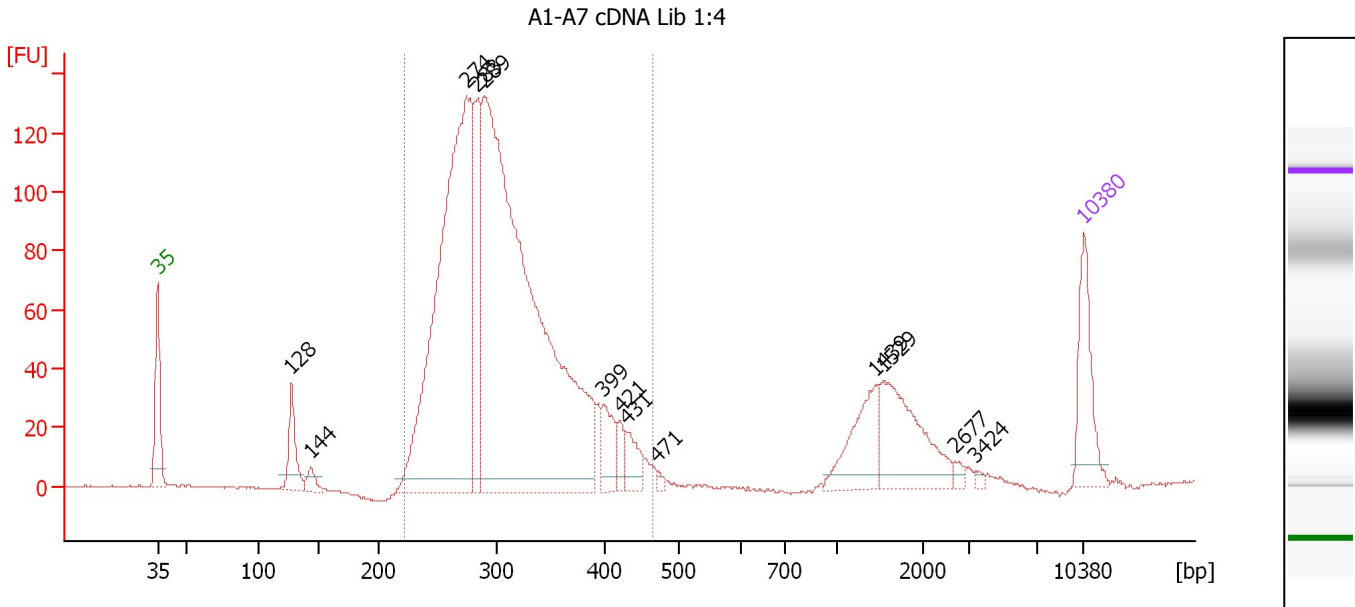
Region table for sample 3 : 03-A6 cDNA Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
218	375	287	17,957.7	3,353.32	2,215.6	72	11.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
 Modified: 3/4/2013 11:37:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : A1-A7 cDNA Lib 1:4

Number of peaks found: 13 Corr. Area 1: 1,715.1
 Noise: 0.3

Peak table for sample 4 : A1-A7 cDNA Lib 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	72.91	863.5	
3	144	20.21	212.9	
4	274	907.33	5,015.0	
5	283	174.98	935.7	
6	289	1,329.56	6,971.7	
7	399	49.69	188.6	
8	421	24.00	86.3	
9	431	37.53	132.0	
10	471	5.79	18.6	
11	1,439	83.16	87.6	
12	1,529	135.07	133.8	
13	2,677	6.77	3.8	
14	3,424	3.57	1.6	
15	10,380	75.00	10.9	Upper Marker

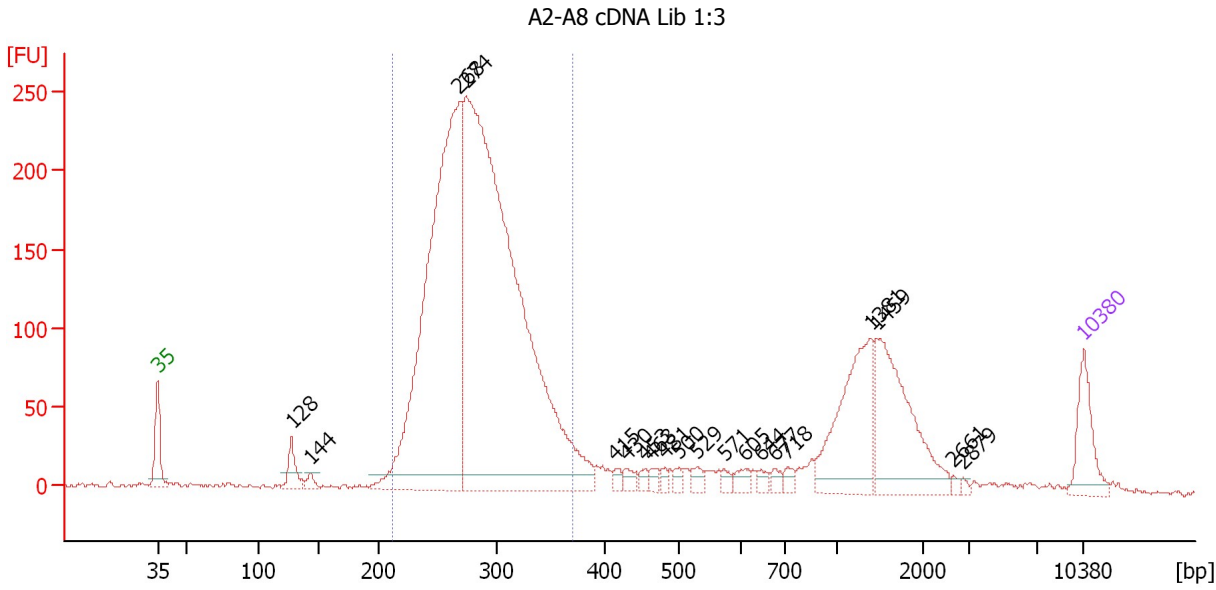
Region table for sample 4 : A1-A7 cDNA Lib 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
222	464	307	12,168.9	2,393.47	1,715.1	85	15.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
 Modified: 3/4/2013 11:37:22 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : A2-A8 cDNA Lib 1:3

Height Threshold [FU] : 10

Overall Results for sample 5 : A2-A8 cDNA Lib 1:3

Number of peaks found: 20 Corr. Area 1: 2,900.2
 Noise: 1.7

Peak table for sample 5 : A2-A8 cDNA Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	55.41	655.5	
3	144	16.07	169.4	
4	268	1,357.24	7,666.2	
5	274	2,090.11	11,537.8	
6	415	12.59	45.9	
7	430	18.82	66.3	
8	453	12.74	42.6	
9	463	16.32	53.4	
10	481	10.92	34.4	
11	500	12.46	37.8	
12	529	18.46	52.9	
13	571	12.42	32.9	
14	605	21.03	52.6	
15	644	12.52	29.4	
16	677	13.82	30.9	
17	718	15.50	32.7	
18	1,381	231.88	254.5	
19	1,459	253.83	263.7	
20	2,661	5.56	3.2	
21	2,879	4.73	2.5	
22	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
Modified: 3/4/2013 11:37:22 AM

Electropherogram Summary Continued ...

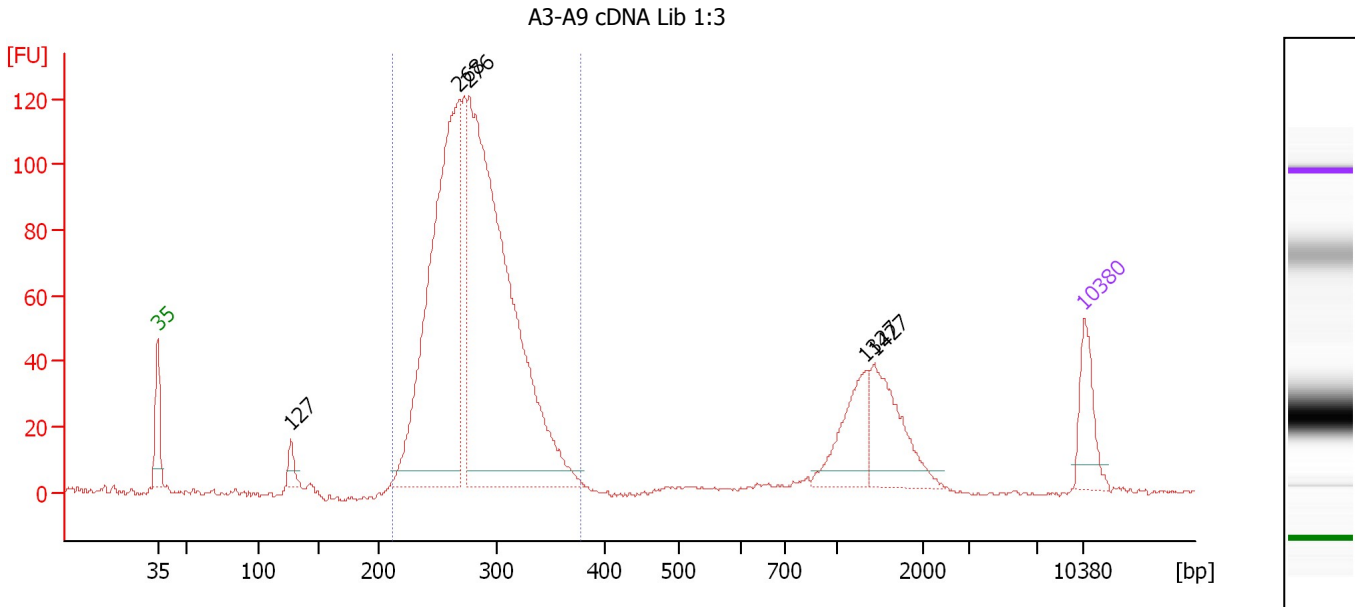
... Region table for sample 5 : A2-A8 cDNA Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
211	371	284	17,790.6	3,284.16	2,900.2	71	11.8	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
 Modified: 3/4/2013 11:37:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : A3-A9 cDNA Lib 1:3

Number of peaks found: 5 Corr. Area 1: 1,266.2
 Noise: 0.5

Peak table for sample 6 : A3-A9 cDNA Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	127	39.87	474.3	
3	268	1,075.56	6,080.1	
4	276	1,458.61	7,995.9	
5	1,327	126.05	143.9	
6	1,427	162.48	172.5	
7	10,380	75.00	10.9	Upper Marker

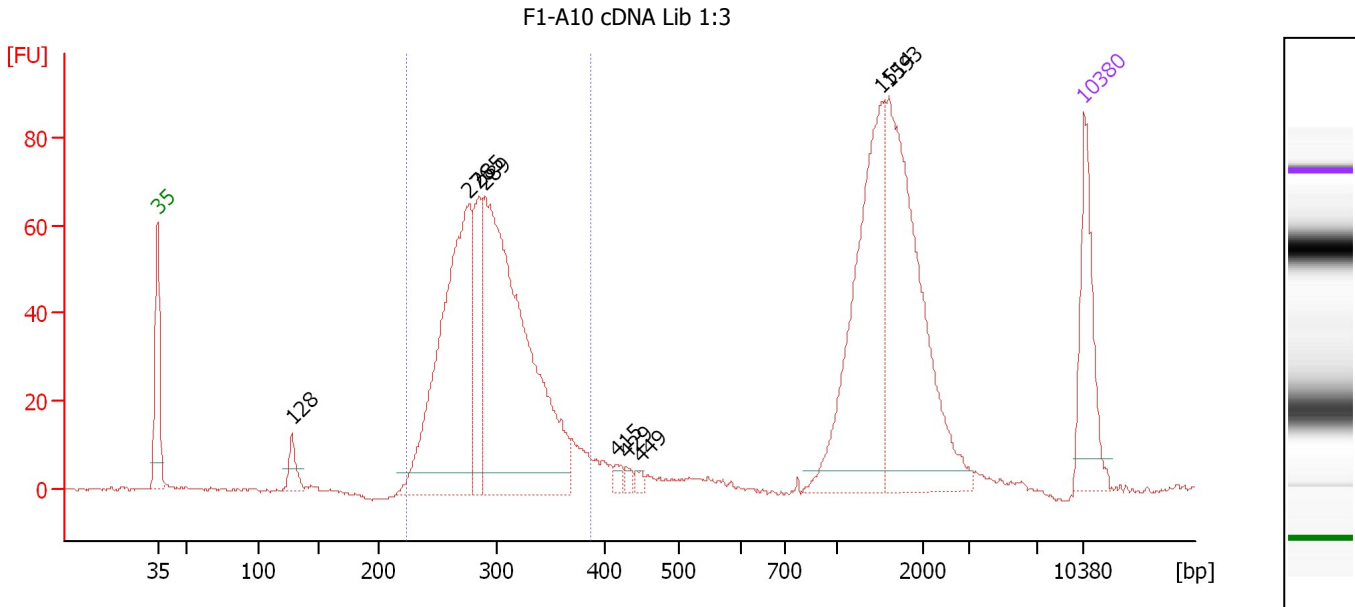
Region table for sample 6 : A3-A9 cDNA Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
211	377	281	14,966.7	2,746.30	1,266.2	82	11.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
 Modified: 3/4/2013 11:37:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : F1-A10 cDNA Lib 1:3

Number of peaks found: 9 Corr. Area 1: 729.3
 Noise: 0.3

Peak table for sample 7 : F1-A10 cDNA Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	27.70	328.0	
3	276	413.70	2,269.2	
4	285	96.54	513.9	
5	289	554.61	2,909.2	
6	415	8.91	32.5	
7	429	6.00	21.2	
8	449	6.42	21.7	
9	1,514	241.64	241.8	
10	1,593	269.71	256.5	
11	10,380	75.00	10.9	Upper Marker

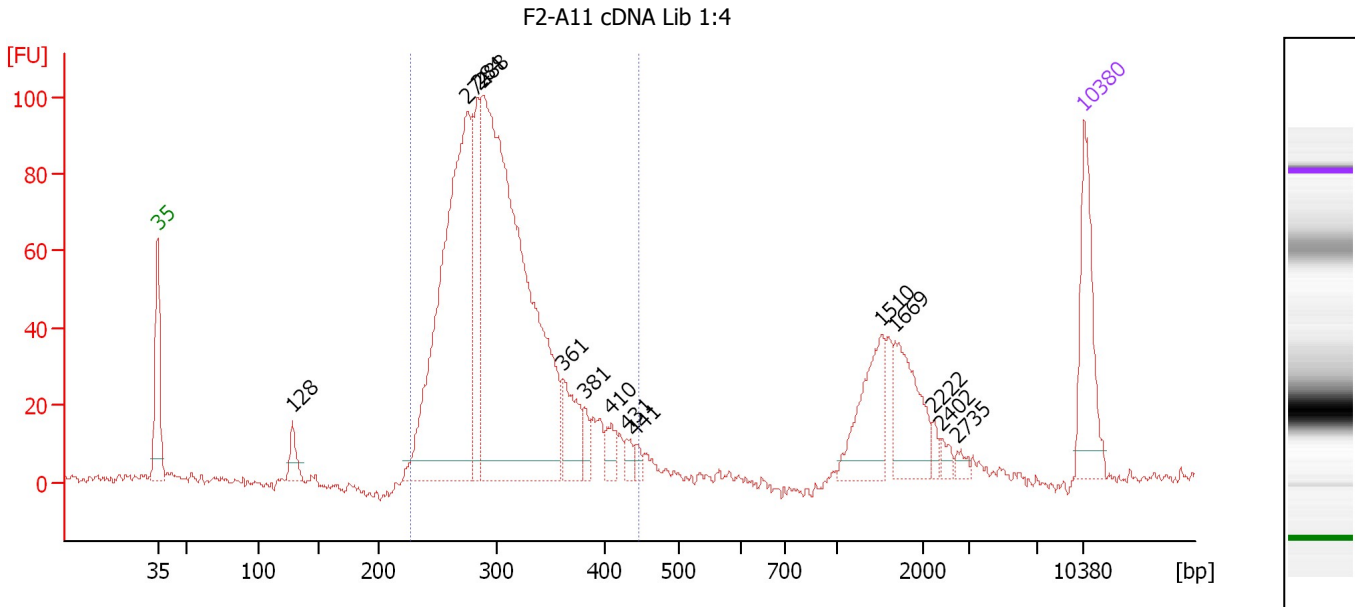
Region table for sample 7 : F1-A10 cDNA Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
223	388	295	5,404.6	1,037.48	729.3	56	11.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
 Modified: 3/4/2013 11:37:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : F2-A11 cDNA Lib 1:4

Number of peaks found: 14 Corr. Area 1: 1,161.5
 Noise: 1.4

Peak table for sample 8 : F2-A11 cDNA Lib 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	27.26	321.5	
3	274	534.39	2,951.8	
4	284	123.01	656.7	
5	288	783.84	4,123.3	
6	361	58.94	247.3	
7	381	17.66	70.1	
8	410	17.97	66.4	
9	431	11.65	41.0	
10	441	7.92	27.2	
11	1,510	76.61	76.9	
12	1,669	73.49	66.7	
13	2,222	7.17	4.9	
14	2,402	7.95	5.0	
15	2,735	6.45	3.6	
16	10,380	75.00	10.9	Upper Marker

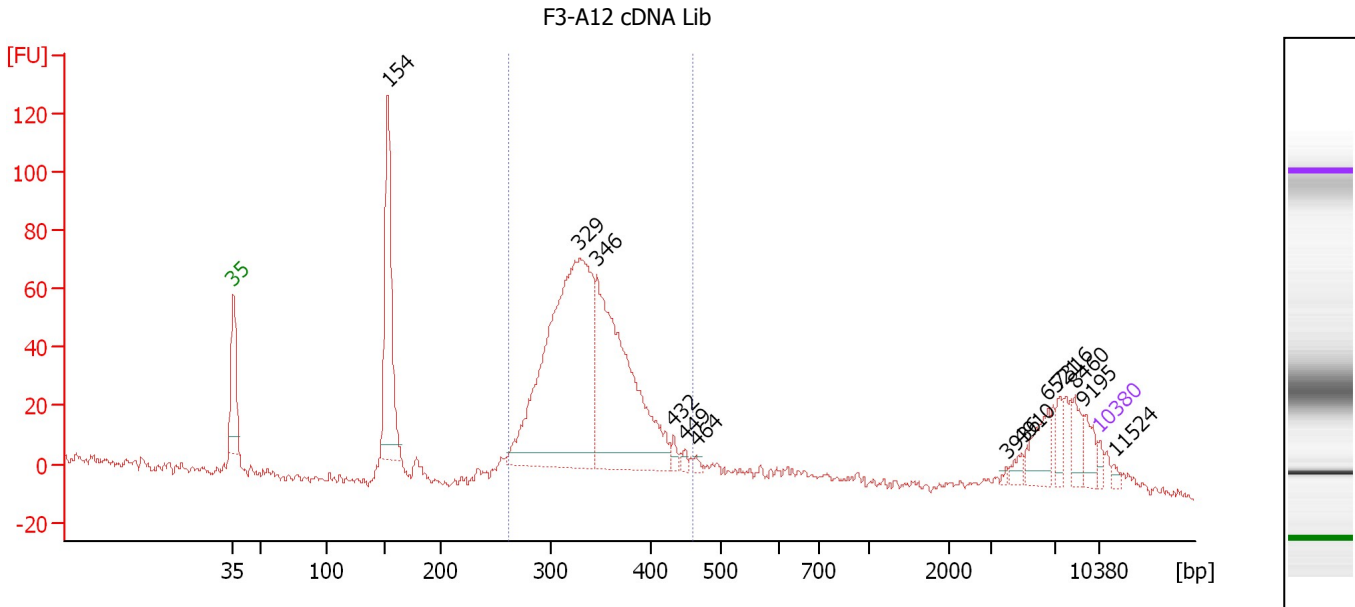
Region table for sample 8 : F2-A11 cDNA Lib 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
227	445	304	7,874.7	1,542.25	1,161.5	81	14.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
 Modified: 3/4/2013 11:37:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : F3-A12 cDNA Lib

Number of peaks found: 13 Corr. Area 1: 822.1
 Noise: 1.8

Peak table for sample 9 : F3-A12 cDNA Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	154	2,863.12	28,184.1	
3	329	6,857.68	31,601.9	
4	346	4,432.38	19,390.8	
5	432	114.72	402.5	
6	449	77.32	261.2	
7	464	57.04	186.1	
8	3,936	24.57	9.5	
9	4,910	100.07	30.9	
10	6,521	404.78	94.1	
11	7,316	202.03	41.8	
12	8,460	274.51	49.2	
13	9,195	223.30	36.8	
14	10,380	75.00	10.9	Upper Marker
15	11,524	0.00	0.0	

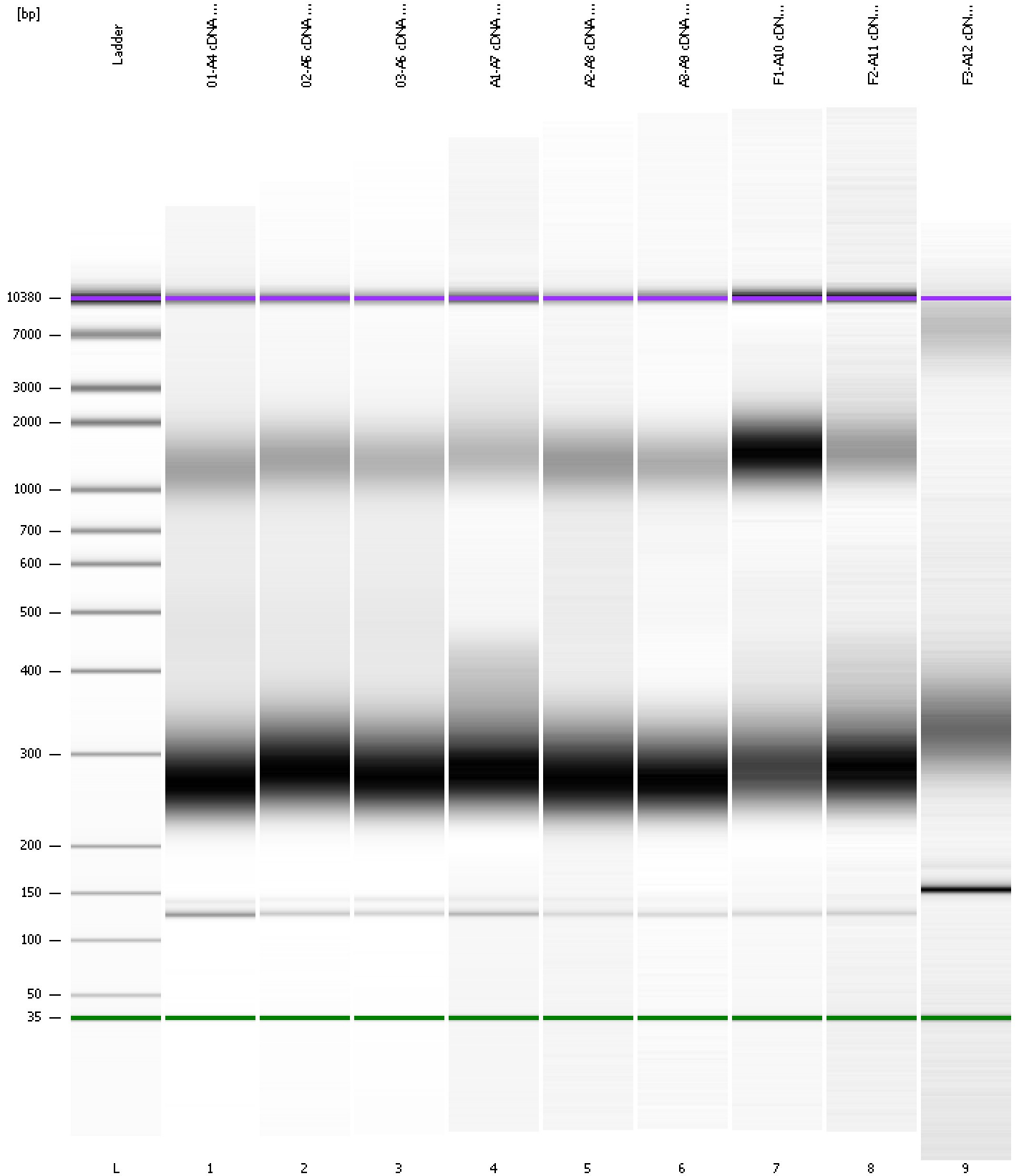
Region table for sample 9 : F3-A12 cDNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
261	459	340	56,522.4	12,507.49	822.1	66	11.6	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad

Created: 3/4/2013 10:48:24 AM
Modified: 3/4/2013 11:37:22 AM

Gel Image



Assay Class: High Sensitivity DNA Assay Created: 3/4/2013 10:48:24 AM
 Data Path: C:\...tings\Bioanalyzer\2013-03-04\2013-03-04_001_CS_cDNA_Lib.xad Modified: 3/4/2013 11:37:22 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		3/4/2013 11:29:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-04\2013-03-04_001.xad)		Instrument	Run		3/4/2013 10:48:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/4/2013 10:48:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/4/2013 10:48:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/4/2013 10:48:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/4/2013 10:48:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/4/2013 10:48:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/4/2013 10:48:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1