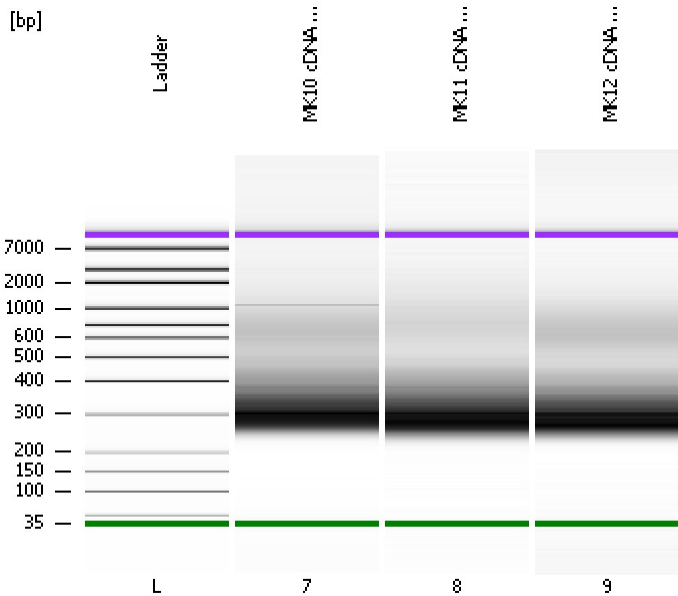


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ngs\Bioanalyzer\2013-07-08\2013-07-08_007_MM_cDNA_Lib-3.xad

Created: 7/8/2013 4:17:01 PM
Modified: 8/14/2013 2:41:53 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

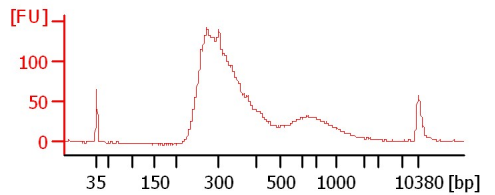
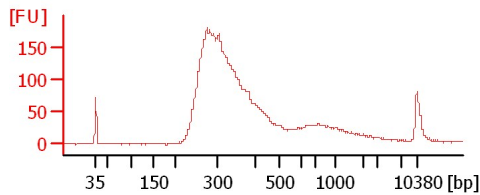
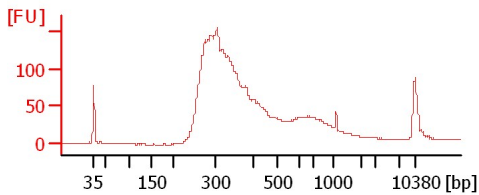
Chip Information:

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

MK10 cDNA Lib 1:6

MK11 cDNA Lib 1:6

MK12 cDNA Lib 1:6



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-07-08\2013-07-08_007_MM_cDNA_Lib-3.xad

Created: 7/8/2013 4:17:01 PM
 Modified: 8/14/2013 2:41:53 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MK10 cDNA Lib 1:6		<input type="checkbox"/>	✓			
MK11 cDNA Lib 1:6		<input type="checkbox"/>	✓			
MK12 cDNA Lib 1:6		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ngs\Bioanalyzer\2013-07-08\2013-07-08_007_MM_cDNA_Lib-3.xad

Created: 7/8/2013 4:17:01 PM
Modified: 8/14/2013 2:41:53 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

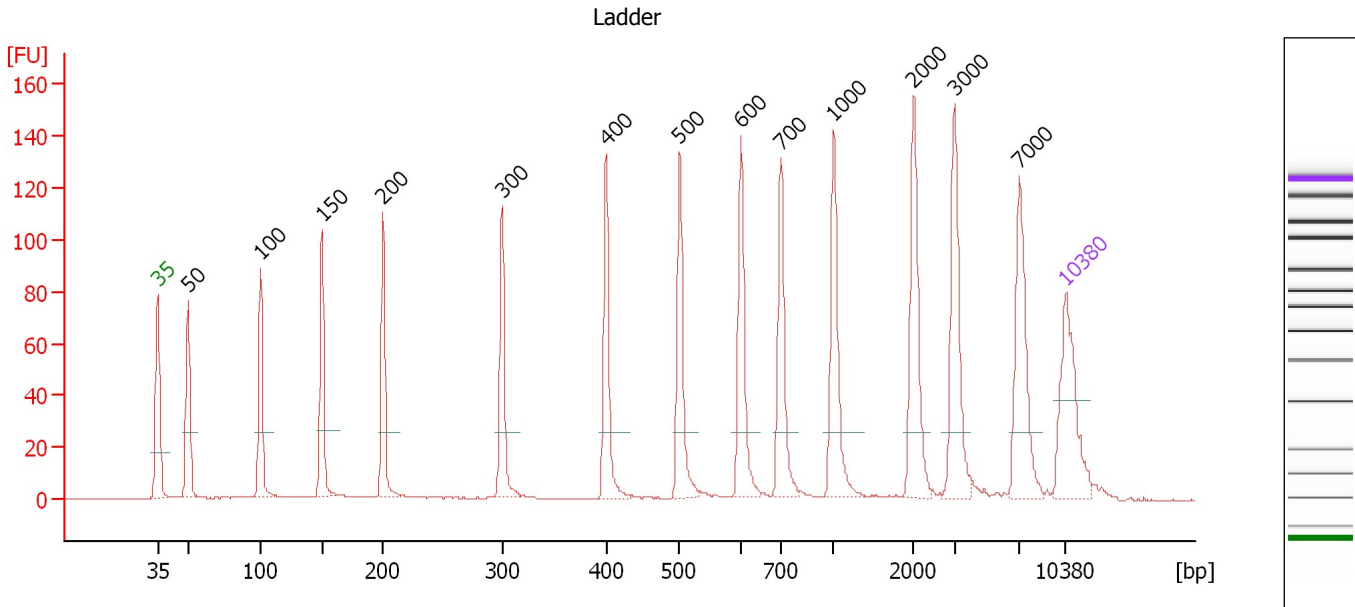
Ladder

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:\...ngs\Bioanalyzer\2013-07-08\2013-07-08_007_MM_cDNA_Lib-3.xad

Created: 7/8/2013 4:17:01 PM
 Modified: 8/14/2013 2:41:53 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

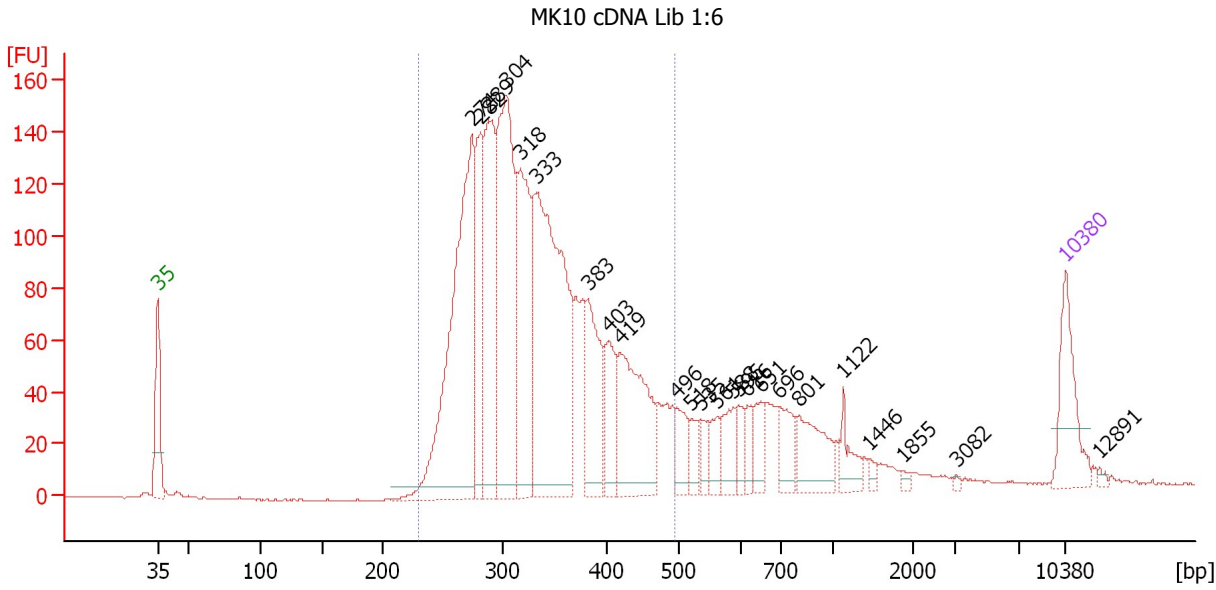
Peak table for Ladder

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:\...ngs\Bioanalyzer\2013-07-08\2013-07-08_007_MM_cDNA_Lib-3.xad

Created: 7/8/2013 4:17:01 PM
 Modified: 8/14/2013 2:41:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : MK10 cDNA Lib 1:6

Number of peaks found: 24 Corr. Area 1: 2,206.6
 Noise: 0.2


Peak table for sample 7 : MK10 cDNA Lib 1:6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	274	541.15	2,988.1	
3	282	160.48	863.4	
4	289	249.87	1,310.8	
5	304	409.12	2,036.8	
6	318	237.98	1,134.1	
7	333	526.35	2,392.6	
8	383	136.03	538.2	
9	403	81.49	306.6	
10	419	193.87	701.7	
11	496	41.77	127.5	
12	518	26.22	76.7	
13	535	21.86	61.9	
14	561	31.27	84.5	
15	588	43.35	111.8	
16	595	25.44	64.8	
17	616	23.53	57.8	
18	651	35.54	82.8	
19	696	46.39	101.0	
20	801	80.37	151.9	
21	1,122	30.03	40.5	
22	1,446	6.82	7.1	
23	1,855	4.92	4.0	
24	3,082	2.56	1.3	
25	10,380	75.00	10.9	Upper Marker
26	12,891	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ngs\Bioanalyzer\2013-07-08\2013-07-08_007_MM_cDNA_Lib-3.xad

Created: 7/8/2013 4:17:01 PM
Modified: 8/14/2013 2:41:53 PM

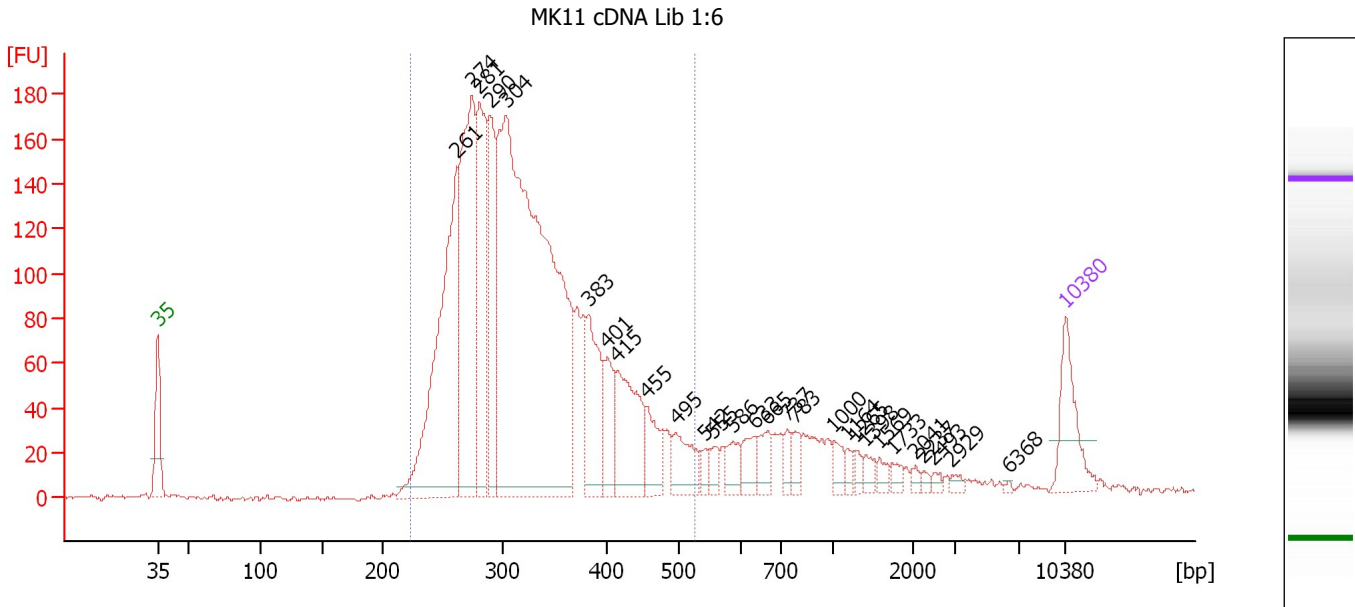
Electropherogram Summary Continued ...**... Region table for sample 7 : MK10 cDNA Lib 1:6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
230	493	333	12,409.1	2,622.77	2,206.6	81	17.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-07-08\2013-07-08_007_MM_cDNA_Lib-3.xad

Created: 7/8/2013 4:17:01 PM
 Modified: 8/14/2013 2:41:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MK11 cDNA Lib 1:6

Number of peaks found: 28 Corr. Area 1: 2,750.8
 Noise: 0.9

Peak table for sample 8 : MK11 cDNA Lib 1:6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	261	529.64	3,069.1	
3	274	436.85	2,411.3	
4	281	286.04	1,543.7	
5	290	210.77	1,102.7	
6	304	1,366.02	6,817.1	
7	383	148.94	589.1	
8	401	78.99	298.2	
9	415	159.08	580.9	
10	455	61.08	203.5	
11	495	67.54	206.6	
12	542	17.31	48.4	
13	555	20.14	55.0	
14	586	29.89	77.3	
15	633	36.51	87.4	
16	665	35.04	79.9	
17	737	21.48	44.2	
18	783	20.74	40.1	
19	1,000	19.72	29.9	
20	1,164	12.57	16.4	
21	1,265	10.61	12.7	
22	1,398	14.02	15.2	
23	1,569	12.65	12.2	
24	1,733	11.17	9.8	
25	2,041	6.81	5.1	
26	2,237	5.94	4.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-07-08\2013-07-08_007_MM_cDNA_Lib-3.xad


Created: 7/8/2013 4:17:01 PM
 Modified: 8/14/2013 2:41:53 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : MK11 cDNA Lib 1:6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,493	6.44	3.9	
28	2,929	7.30	3.8	
29	6,368	2.11	0.5	
30	10,380	75.00	10.9	Upper Marker

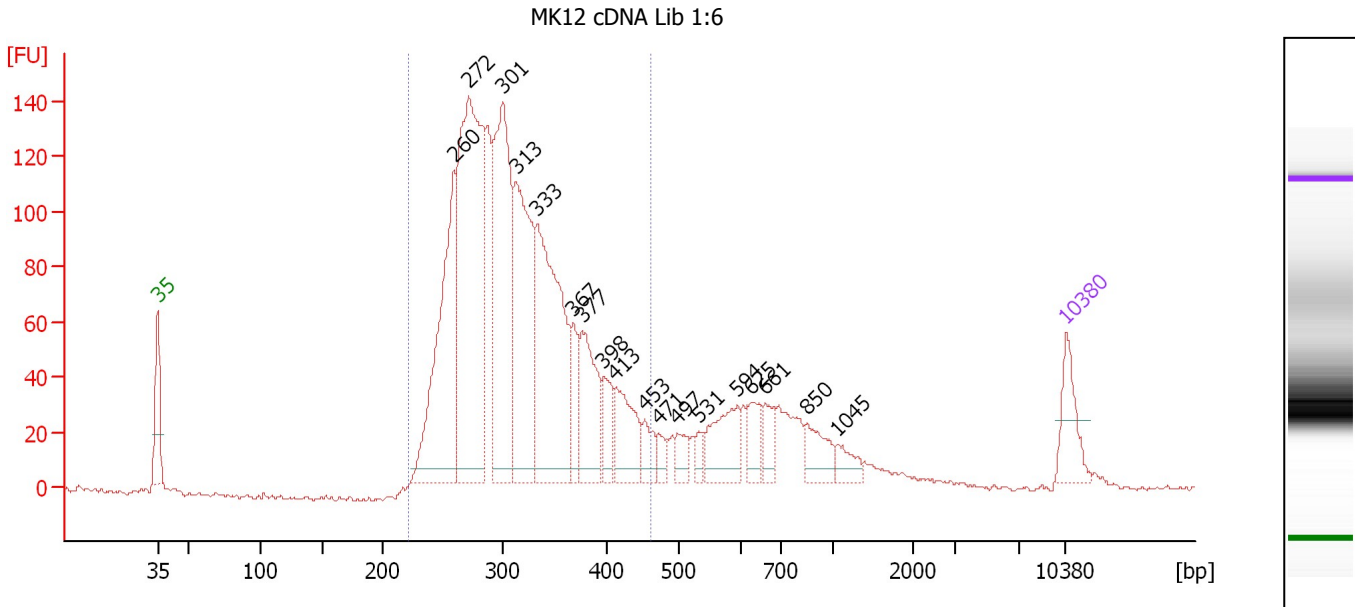
Region table for sample 8 : MK11 cDNA Lib 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
223	524	327	16,538.0	3,406.79	2,750.8	84	19.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-07-08\2013-07-08_007_MM_cDNA_Lib-3.xad

Created: 7/8/2013 4:17:01 PM
 Modified: 8/14/2013 2:41:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MK12 cDNA Lib 1:6

Number of peaks found: 18 Corr. Area 1: 1,928.6
 Noise: 1.0

Peak table for sample 9 : MK12 cDNA Lib 1:6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	260	536.54	3,132.5	
3	272	865.98	4,821.6	
4	301	597.79	3,013.2	
5	313	468.13	2,264.3	
6	333	558.92	2,542.0	
7	367	87.36	360.2	
8	377	200.86	808.3	
9	398	79.15	301.6	
10	413	138.03	506.6	
11	453	51.38	171.9	
12	471	32.09	103.3	
13	497	37.57	114.5	
14	531	23.14	66.0	
15	594	126.38	322.1	
16	625	59.09	143.3	
17	661	52.59	120.5	
18	850	69.88	124.5	
19	1,045	36.24	52.6	
20	10,380	75.00	10.9	Upper Marker

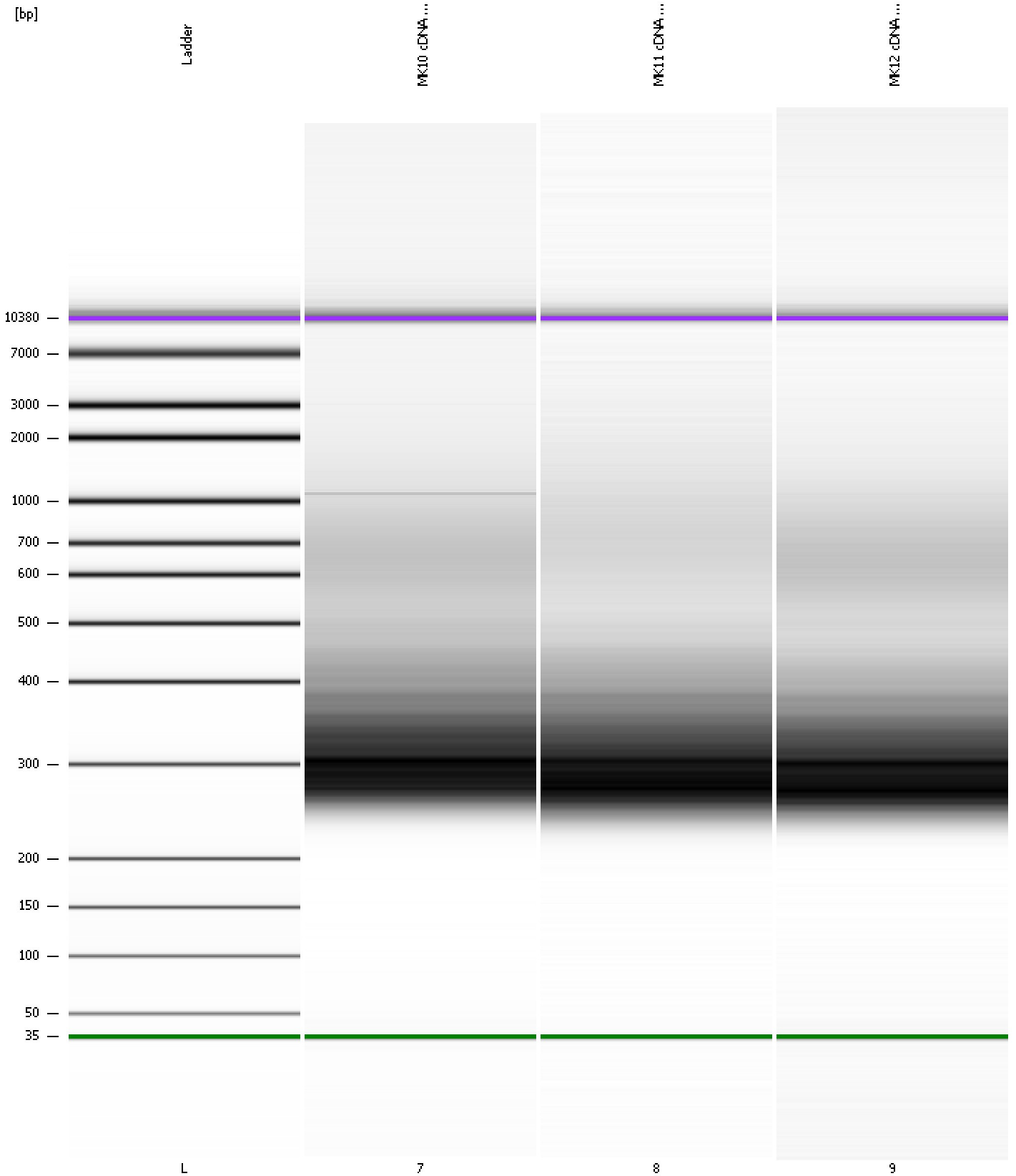
Region table for sample 9 : MK12 cDNA Lib 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
221	462	315	19,023.0	3,827.44	1,928.6	83	16.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ngs\Bioanalyzer\2013-07-08\2013-07-08_007_MM_cDNA_Lib-3.xad

Created: 7/8/2013 4:17:01 PM
Modified: 8/14/2013 2:41:53 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-07-08\2013-07-08_007_MM_cDNA_Lib-3.xad

Created: 7/8/2013 4:17:01 PM
 Modified: 8/14/2013 2:41:53 PM

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		7/8/2013 4:57:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-08\2013-07-08_007.xad)		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1