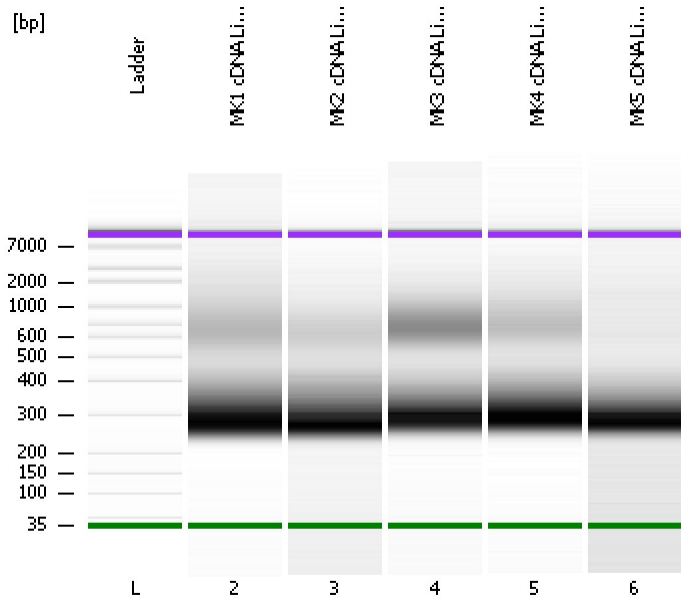


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ngs\Bioanalyzer\2013-07-03\2013-07-03_001_MM_cDNA_Lib-1.xad

Created: 7/3/2013 10:34:26 AM
Modified: 8/14/2013 2:25:31 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

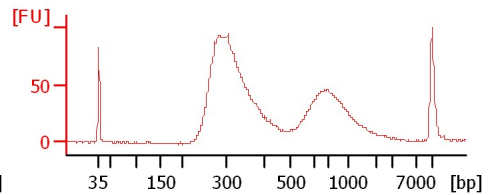
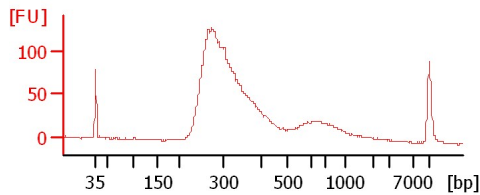
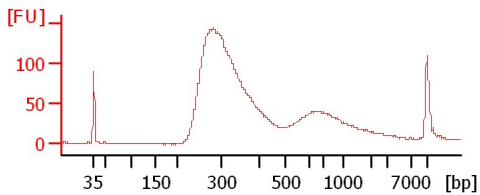
Chip Information:

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

MK1 cDNA Lib 1:8

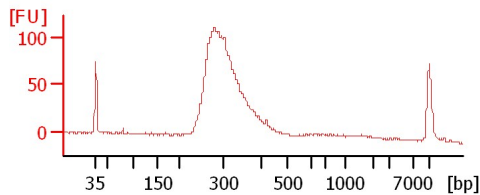
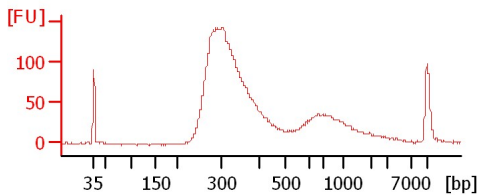
MK2 cDNA Lib 1:8

MK3 cDNA Lib 1:8



MK4 cDNA Lib 1:8

MK5 cDNA Lib 1:8



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-07-03\2013-07-03_001_MM_cDNA_Lib-1.xad

Created: 7/3/2013 10:34:26 AM
 Modified: 8/14/2013 2:25:31 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MK1 cDNA Lib 1:8		<input type="checkbox"/>	✓			
MK2 cDNA Lib 1:8		<input type="checkbox"/>	✓			
MK3 cDNA Lib 1:8		<input type="checkbox"/>	✓			
MK4 cDNA Lib 1:8		<input type="checkbox"/>	✓			
MK5 cDNA Lib 1:8		<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\2013-07-03\2013-07-03_001_MM_cDNA_Lib-1.xad

Created: 7/3/2013 10:34:26 AM
 Modified: 8/14/2013 2:25:31 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

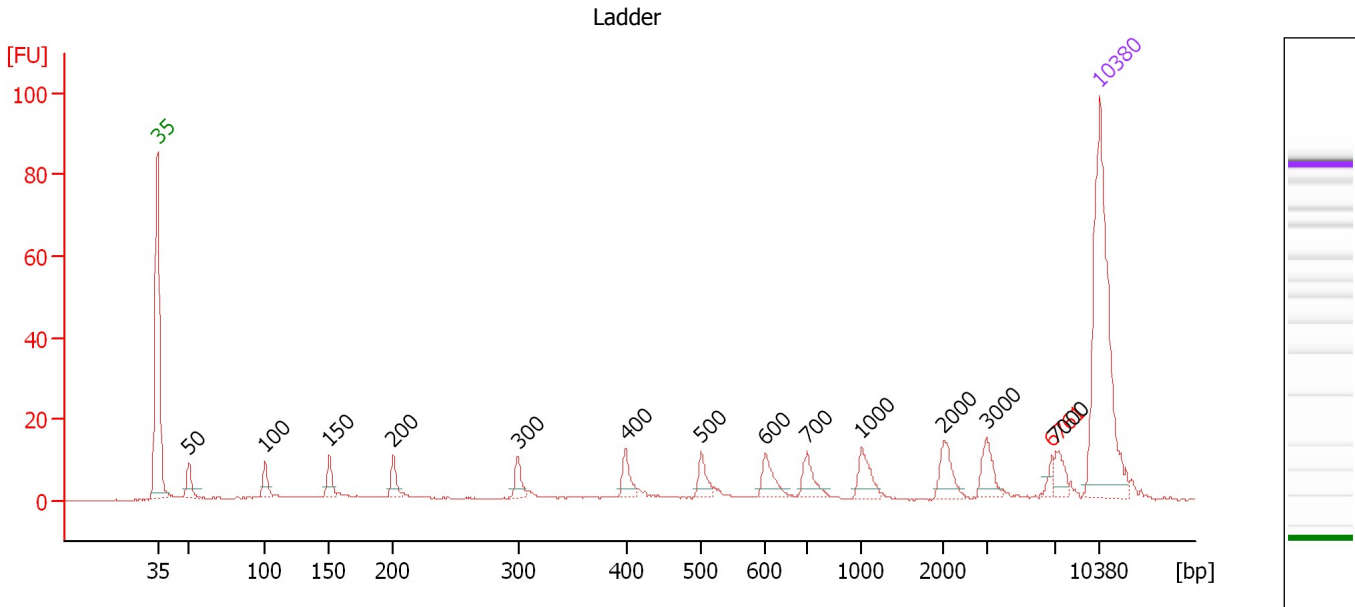
Ladder

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\2013-07-03\2013-07-03_001_MM_cDNA_Lib-1.xad

Created: 7/3/2013 10:34:26 AM
 Modified: 8/14/2013 2:25:31 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

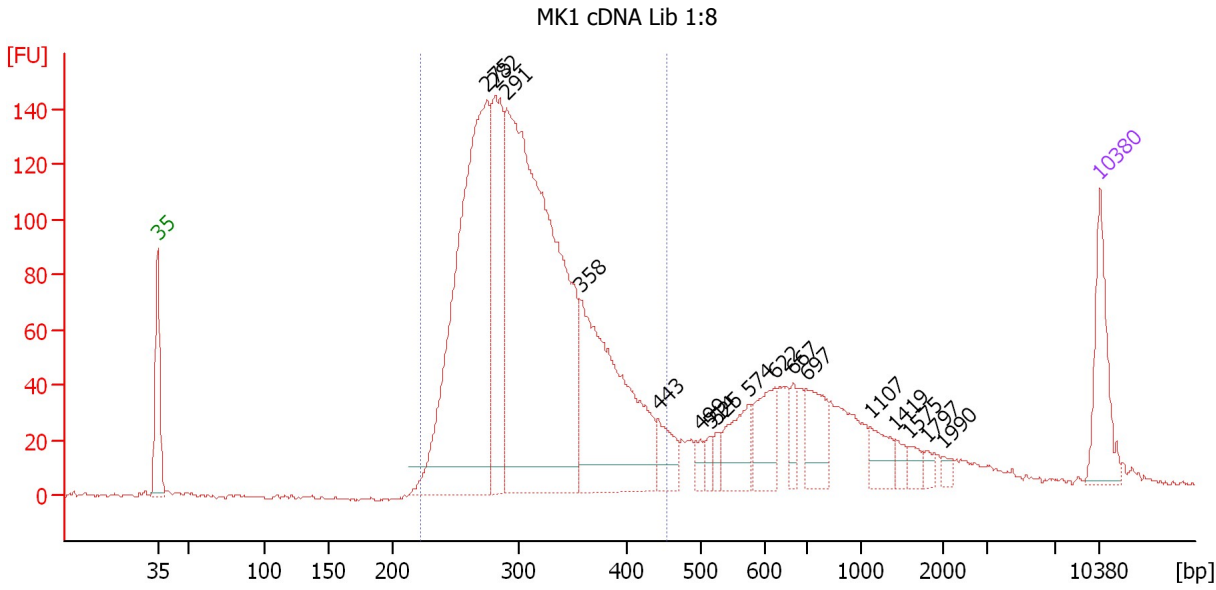
Peak table for Ladder

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	6,761	0.00	0.0	excluded peak
15	7,000	150.00	32.5	Ladder Peak
16	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-07-03\2013-07-03_001_MM_cDNA_Lib-1.xad

Created: 7/3/2013 10:34:26 AM
 Modified: 8/14/2013 2:25:31 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : MK1 cDNA Lib 1:8

Height Threshold [FU] : 10

Overall Results for sample 2 : MK1 cDNA Lib 1:8

Number of peaks found: 17 Corr. Area 1: 2,083.5
 Noise: 0.6

Peak table for sample 2 : MK1 cDNA Lib 1:8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	275	768.68	4,229.3	
3	282	259.60	1,396.2	
4	291	1,054.00	5,488.1	
5	358	395.44	1,674.9	
6	443	49.51	169.2	
7	499	15.81	48.0	
8	514	14.11	41.6	
9	525	15.11	43.6	
10	574	68.30	180.3	
11	622	68.94	167.8	
12	667	24.60	55.9	
13	697	68.50	148.8	
14	1,107	33.81	46.3	
15	1,419	12.64	13.5	
16	1,575	13.24	12.7	
17	1,797	8.03	6.8	
18	1,990	7.19	5.5	
19	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ngs\Bioanalyzer\2013-07-03\2013-07-03_001_MM_cDNA_Lib-1.xad

Created: 7/3/2013 10:34:26 AM
Modified: 8/14/2013 2:25:31 PM

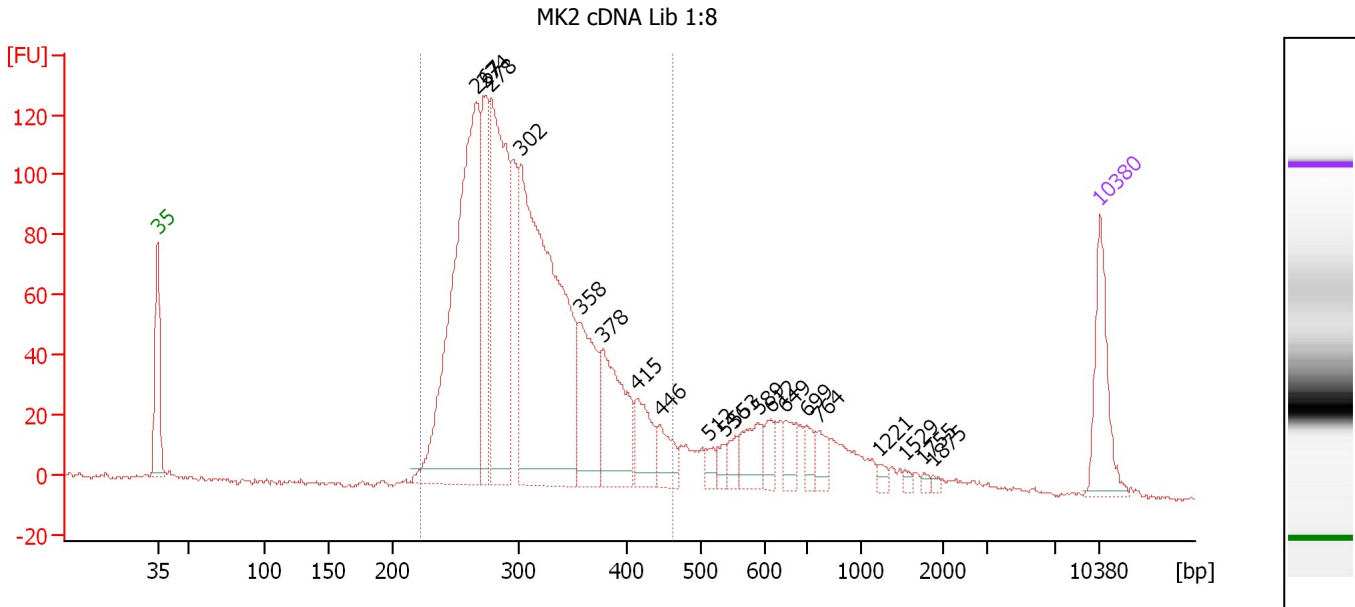
Electropherogram Summary Continued ...**... Region table for sample 2 : MK1 cDNA Lib 1:8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
221	456	312	12,186.7	2,433.80	2,083.5	77	15.9	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-07-03\2013-07-03_001_MM_cDNA_Lib-1.xad

Created: 7/3/2013 10:34:26 AM
 Modified: 8/14/2013 2:25:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : MK2 cDNA Lib 1:8

Number of peaks found: 20 Corr. Area 1: 1,767.1
 Noise: 0.9

Peak table for sample 3 : MK2 cDNA Lib 1:8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	267	614.95	3,490.0	
3	274	159.42	881.9	
4	278	377.83	2,056.7	
5	302	674.79	3,381.2	
6	358	139.70	591.7	
7	378	151.63	607.4	
8	415	64.51	235.8	
9	446	40.34	137.2	
10	512	14.56	43.1	
11	536	13.30	37.6	
12	553	20.09	55.0	
13	589	46.72	120.2	
14	612	25.77	63.8	
15	649	27.08	63.2	
16	699	21.43	46.5	
17	764	21.90	43.4	
18	1,221	7.27	9.0	
19	1,529	4.22	4.2	
20	1,755	3.74	3.2	
21	1,875	4.08	3.3	
22	10,380	75.00	10.9	Upper Marker

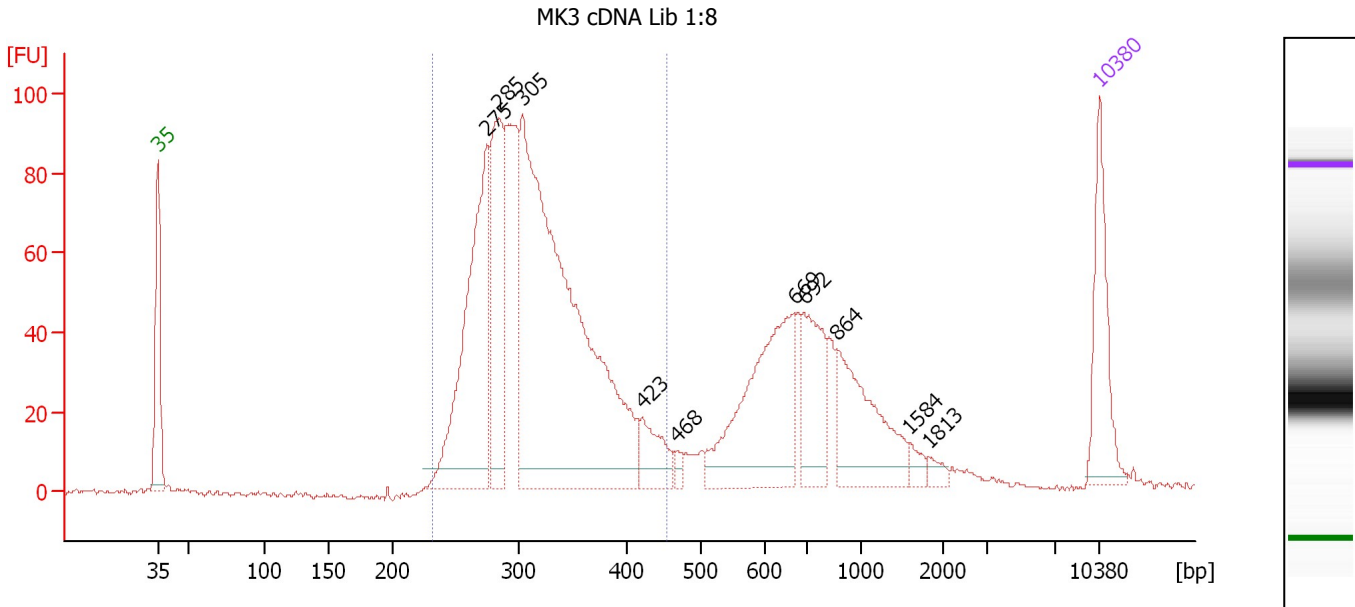
Region table for sample 3 : MK2 cDNA Lib 1:8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
222	464	311	11,691.1	2,318.52	1,767.1	83	16.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-07-03\2013-07-03_001_MM_cDNA_Lib-1.xad

Created: 7/3/2013 10:34:26 AM
 Modified: 8/14/2013 2:25:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MK3 cDNA Lib 1:8

Number of peaks found: 10 Corr. Area 1: 1,192.1
 Noise: 0.5

Peak table for sample 4 : MK3 cDNA Lib 1:8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	275	329.75	1,817.5	
3	285	198.50	1,055.5	
4	305	789.93	3,929.1	
5	423	48.78	174.9	
6	468	8.44	27.3	
7	669	211.61	479.6	
8	692	92.21	201.8	
9	864	124.78	218.7	
10	1,584	10.58	10.1	
11	1,813	8.31	6.9	
12	10,380	75.00	10.9	Upper Marker

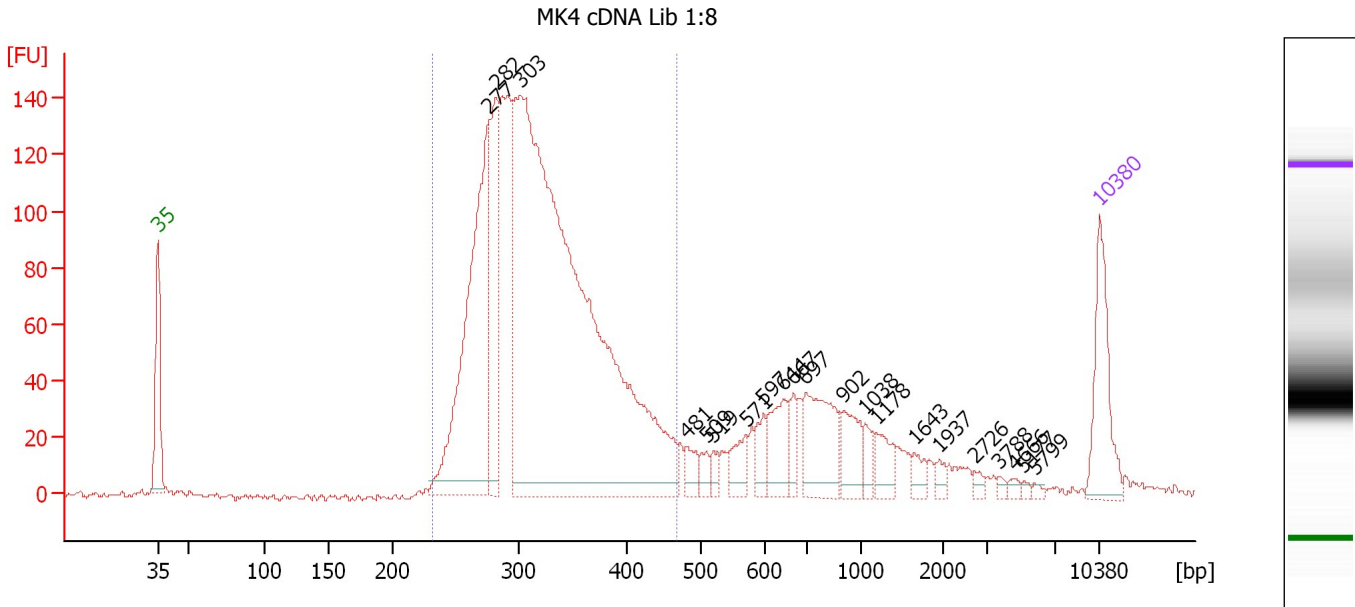
Region table for sample 4 : MK3 cDNA Lib 1:8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
232	455	316	7,339.4	1,494.71	1,192.1	69	14.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-07-03\2013-07-03_001_MM_cDNA_Lib-1.xad

Created: 7/3/2013 10:34:26 AM
 Modified: 8/14/2013 2:25:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : MK4 cDNA Lib 1:8

Number of peaks found: 21 Corr. Area 1: 1,921.0
 Noise: 1.1

Peak table for sample 5 : MK4 cDNA Lib 1:8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	277	430.63	2,357.4	
3	282	169.94	911.9	
4	303	1,428.02	7,150.8	
5	481	22.29	70.2	
6	509	15.00	44.6	
7	519	11.49	33.5	
8	571	30.57	81.2	
9	597	24.28	61.6	
10	644	54.74	128.7	
11	667	23.16	52.6	
12	697	101.68	221.0	
13	902	46.30	77.8	
14	1,038	16.69	24.4	
15	1,178	28.30	36.4	
16	1,643	13.56	12.5	
17	1,937	8.12	6.3	
18	2,726	5.93	3.3	
19	3,788	3.99	1.6	
20	4,666	5.02	1.6	
21	5,177	3.17	0.9	
22	5,799	3.20	0.8	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ngs\Bioanalyzer\2013-07-03\2013-07-03_001_MM_cDNA_Lib-1.xad

Created: 7/3/2013 10:34:26 AM
Modified: 8/14/2013 2:25:31 PM

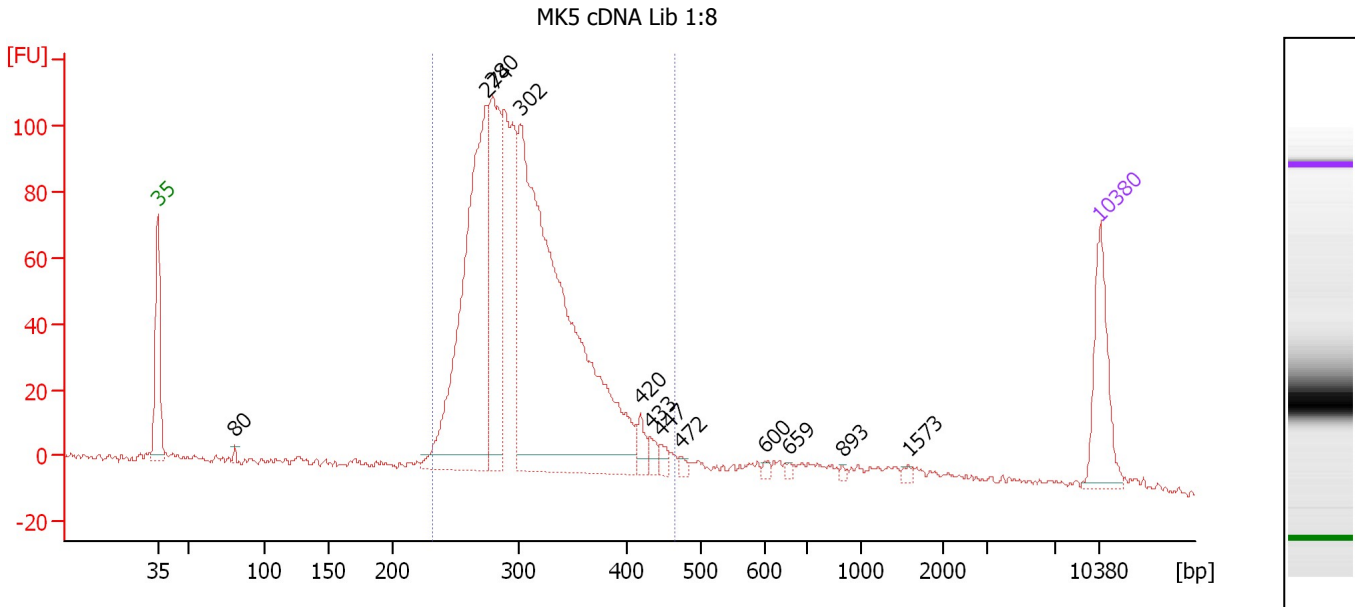
Electropherogram Summary Continued ...**... Region table for sample 5 : MK4 cDNA Lib 1:8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
232	467	322	10,337.6	2,134.52	1,921.0	77	15.2	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-07-03\2013-07-03_001_MM_cDNA_Lib-1.xad

Created: 7/3/2013 10:34:26 AM
 Modified: 8/14/2013 2:25:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : MK5 cDNA Lib 1:8

Number of peaks found: 12 Corr. Area 1: 1,348.2
 Noise: 1.1

Peak table for sample 6 : MK5 cDNA Lib 1:8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	80	5.47	103.3	
3	274	517.97	2,859.3	
4	280	239.81	1,299.5	
5	302	882.57	4,429.4	
6	420	21.16	76.4	
7	433	11.11	38.9	
8	447	10.38	35.2	
9	472	5.74	18.4	
10	600	4.70	11.9	
11	659	4.48	10.3	
12	893	2.93	5.0	
13	1,573	4.13	4.0	
14	10,380	75.00	10.9	Upper Marker

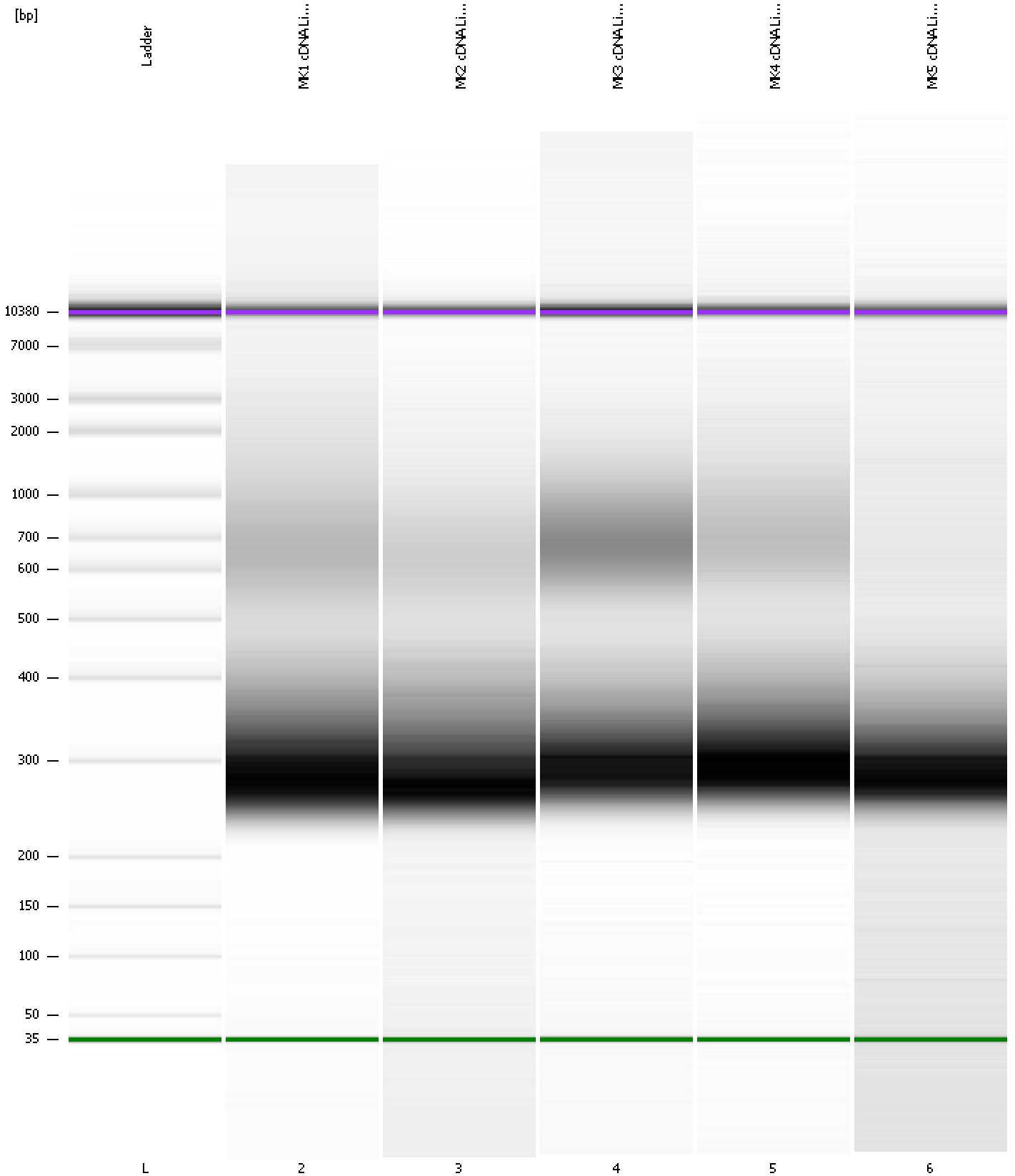
Region table for sample 6 : MK5 cDNA Lib 1:8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
232	466	310	9,415.3	1,877.29	1,348.2	89	14.6	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ngs\Bioanalyzer\2013-07-03\2013-07-03_001_MM_cDNA_Lib-1.xad

Created: 7/3/2013 10:34:26 AM
Modified: 8/14/2013 2:25:31 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-07-03\2013-07-03_001_MM_cDNA_Lib-1.xad

Created: 7/3/2013 10:34:26 AM
 Modified: 8/14/2013 2:25:31 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		7/3/2013 11:14:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-03\2013-07-03_001.xad)		Instrument	Run		7/3/2013 10:34:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/3/2013 10:34:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/3/2013 10:34:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/3/2013 10:34:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/3/2013 10:34:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/3/2013 10:34:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/3/2013 10:34:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1