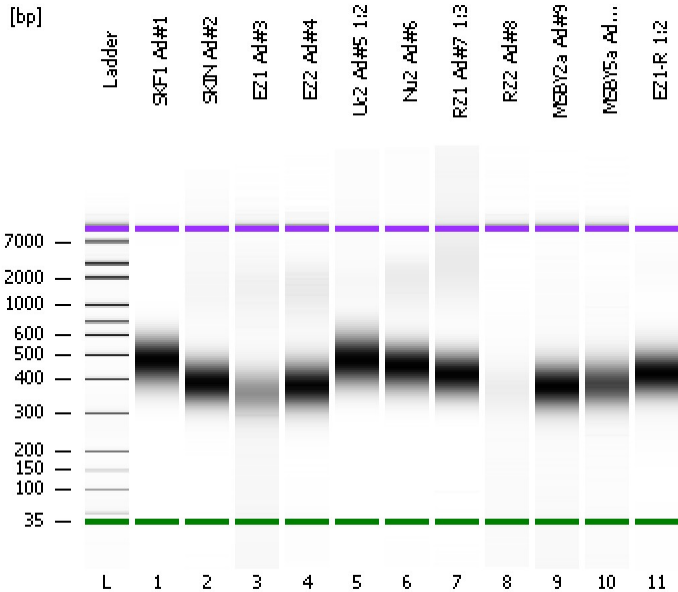


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
Modified: 11/30/2012 3:00:54 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

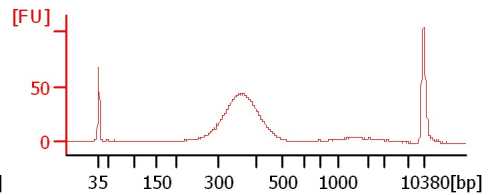
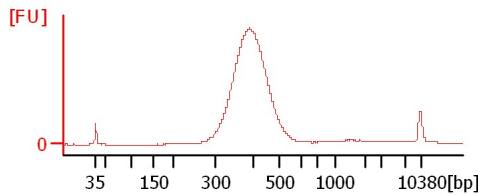
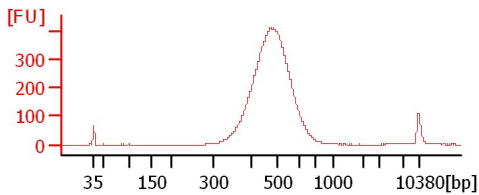
Chip Information:

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

SKF1 Ad#1

SKIN Ad#2

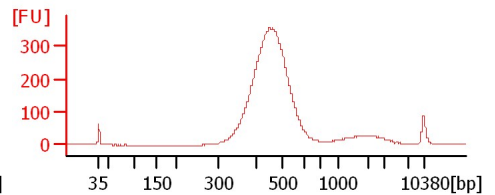
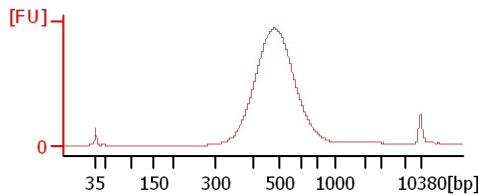
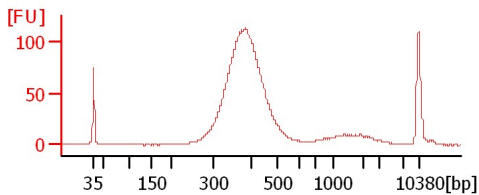
EZ1 Ad#3



EZ2 Ad#4

Uc2 Ad#5 1:2

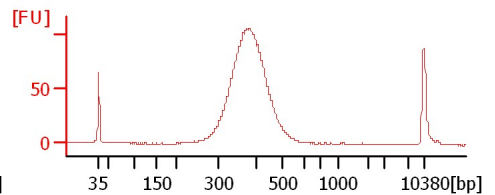
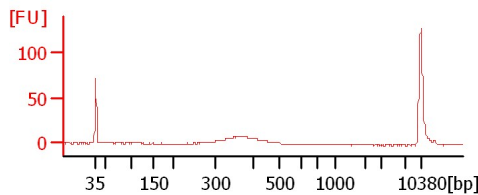
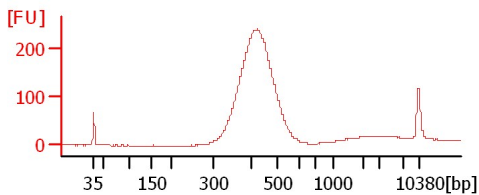
Nu2 Ad#6



RZ1 Ad#7 1:3

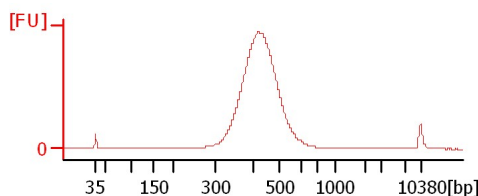
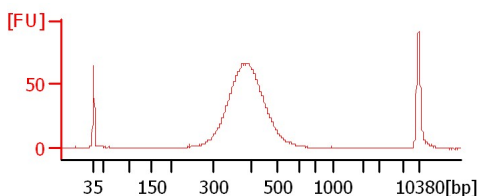
RZ2 Ad#8

MSBY2a Ad#9



MSBY5a Ad#10

EZ1-R 1:2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
Modified: 11/30/2012 3:00:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SKF1 Ad#1		<input type="checkbox"/>	✓			
SKIN Ad#2		<input type="checkbox"/>	✓			
EZ1 Ad#3		<input type="checkbox"/>	✓			
EZ2 Ad#4		<input type="checkbox"/>	✓			
Uc2 Ad#5 1:2		<input type="checkbox"/>	✓			
Nu2 Ad#6		<input type="checkbox"/>	✓			
RZ1 Ad#7 1:3		<input type="checkbox"/>	✓			
RZ2 Ad#8		<input type="checkbox"/>	✓			
MSBY2a Ad#9		<input type="checkbox"/>	✓			
MSBY5a Ad#10		<input type="checkbox"/>	✓			
EZ1-R 1:2		<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\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
Modified: 11/30/2012 3:00:54 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

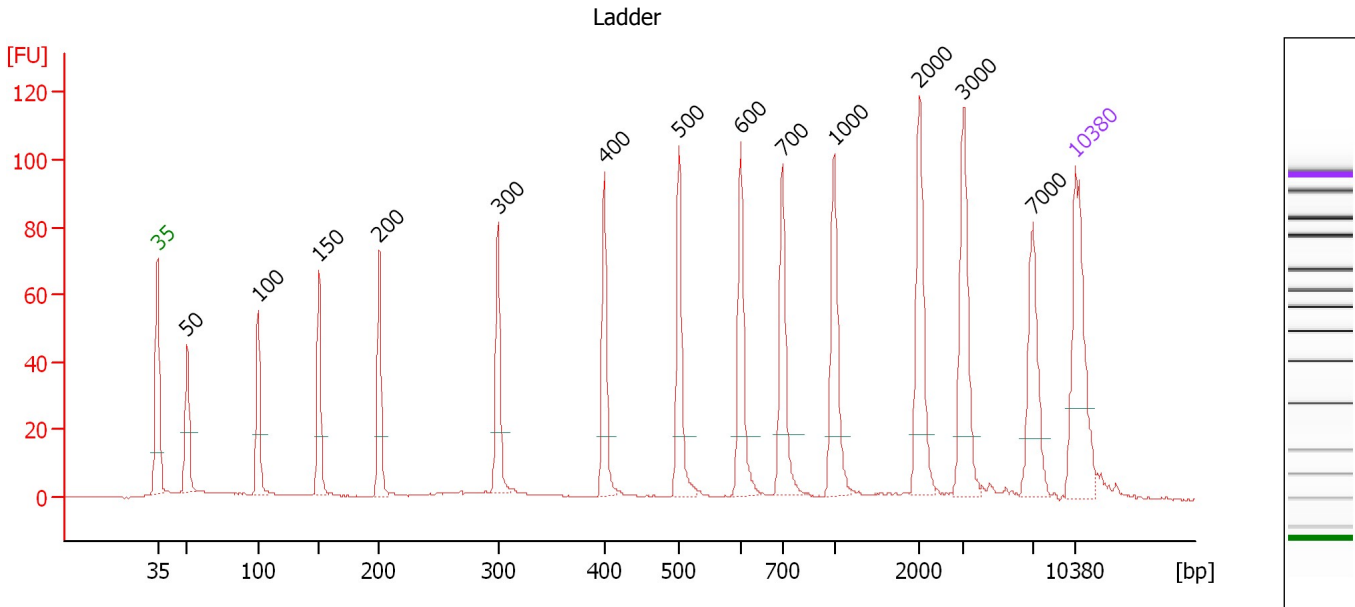
Ladder

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\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
 Modified: 11/30/2012 3:00:54 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

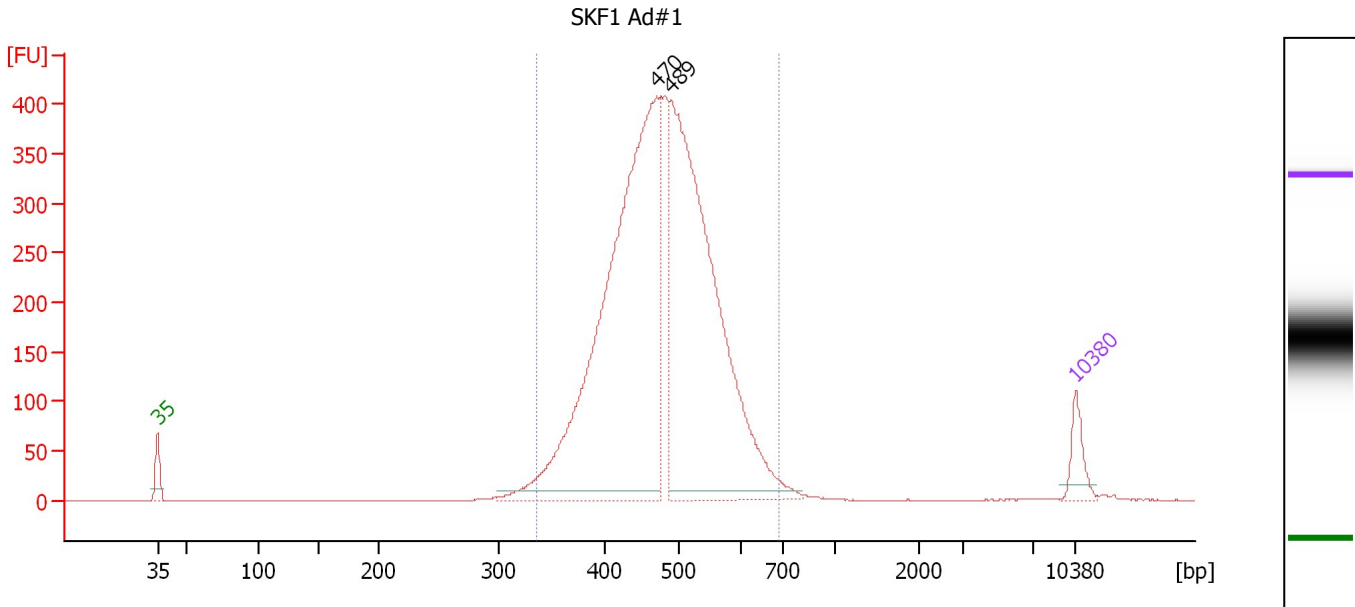
Peak table for Ladder

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:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
 Modified: 11/30/2012 3:00:54 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : SKF1 Ad#1

Height Threshold [FU] : 10

Overall Results for sample 1 : SKF1 Ad#1

Number of peaks found: 2 Corr. Area 1: 4,847.4
 Noise: 0.2

Peak table for sample 1 : SKF1 Ad#1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	470	2,561.15	8,250.5	
3	489	2,175.54	6,742.0	
4	10,380	75.00	10.9	Upper Marker

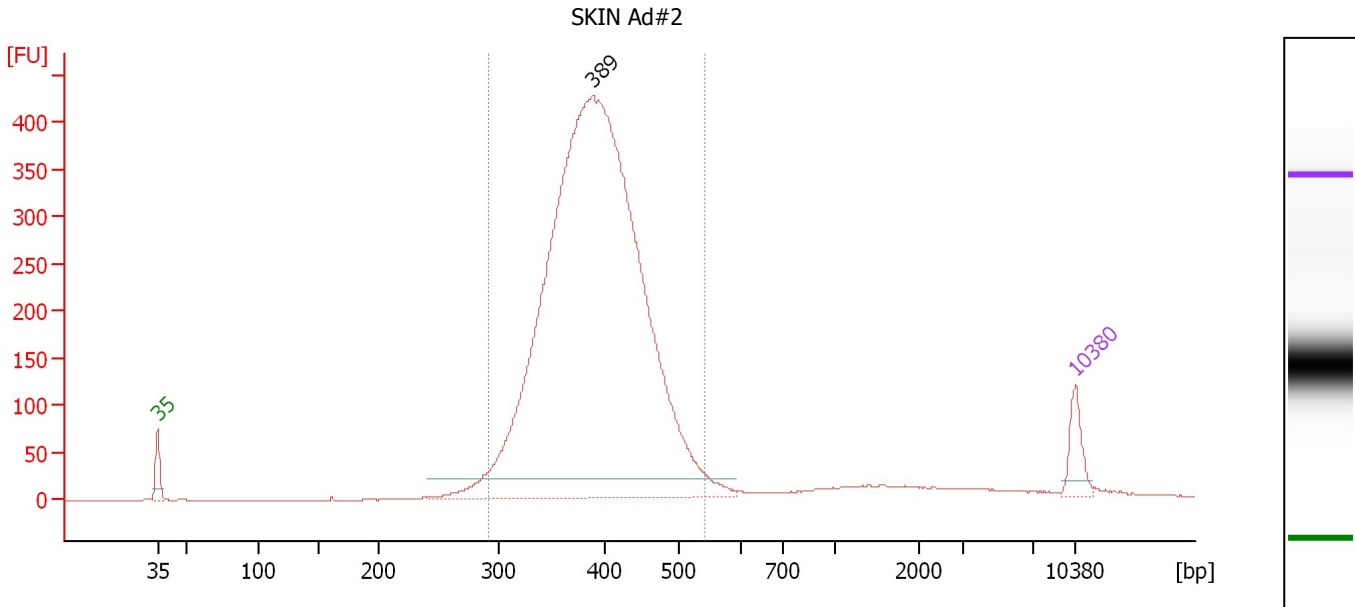
Region table for sample 1 : SKF1 Ad#1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
336	694	479	16,275.1	5,018.84	4,847.4	98	13.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
 Modified: 11/30/2012 3:00:54 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : SKIN Ad#2

Height Threshold [FU] : 20

Overall Results for sample 2 : SKIN Ad#2

Number of peaks found: 1 Corr. Area 1: 4,939.0
 Noise: 0.2

Peak table for sample 2 : SKIN Ad#2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	389	4,622.98	17,983.4	
3	10,380	75.00	10.9	Upper Marker

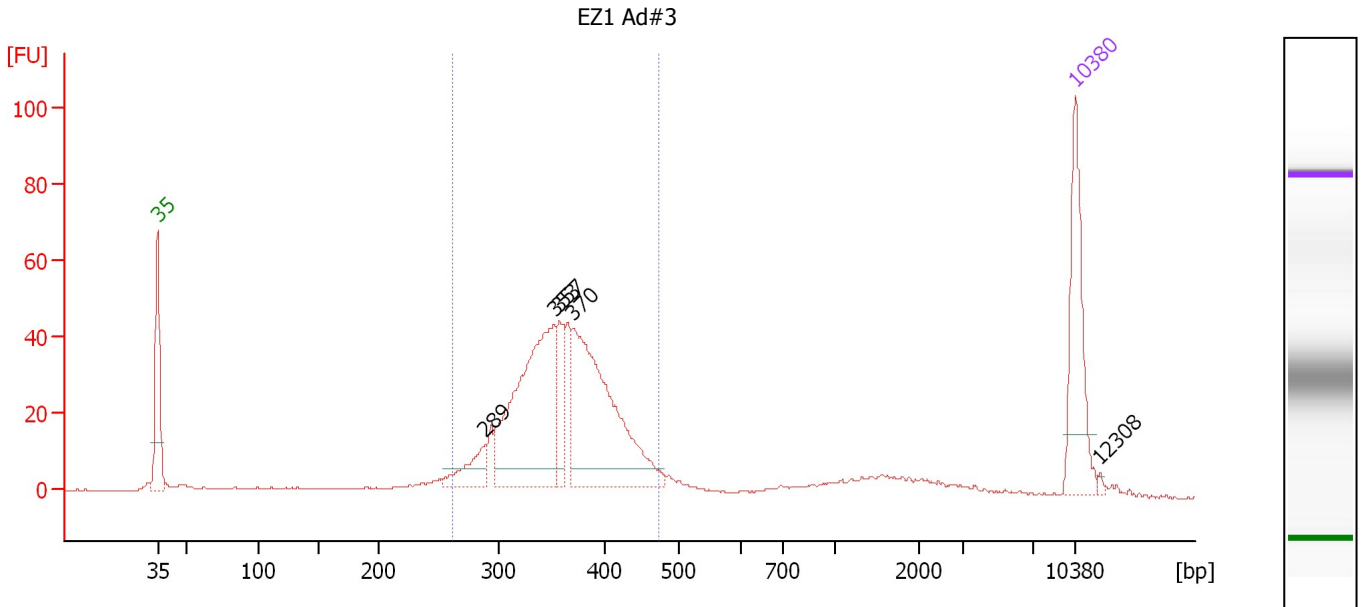
Region table for sample 2 : SKIN Ad#2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
292	543	396	17,893.5	4,599.96	4,939.0	93	12.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
 Modified: 11/30/2012 3:00:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : EZ1 Ad#3

Number of peaks found: 5 Corr. Area 1: 560.0
 Noise: 0.2

Peak table for sample 3 : EZ1 Ad#3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	289	37.29	195.3	
3	353	231.70	994.7	
4	357	43.98	186.5	
5	370	234.11	958.1	
6	10,380	75.00	10.9	Upper Marker
7	12,308	0.00	0.0	

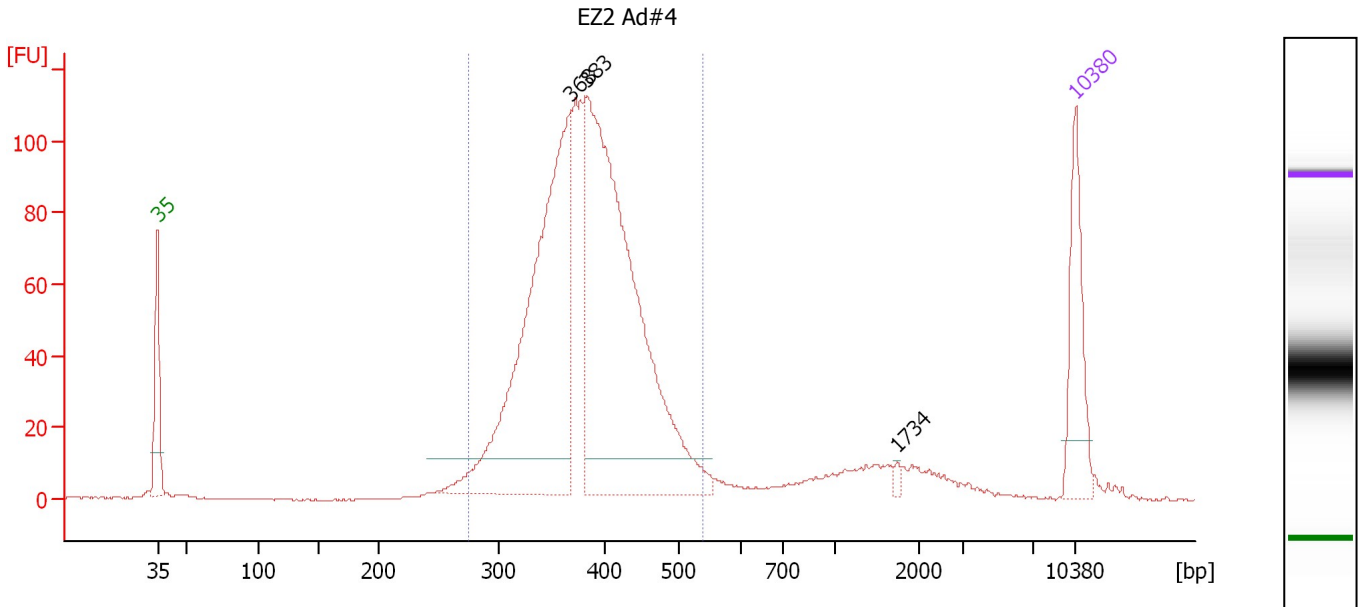
Region table for sample 3 : EZ1 Ad#3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
262	473	360	2,738.5	639.12	560.0	78	12.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
 Modified: 11/30/2012 3:00:54 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : EZ2 Ad#4

Height Threshold [FU] : 10

Overall Results for sample 4 : EZ2 Ad#4

Number of peaks found: 3 Corr. Area 1: 1,368.3
 Noise: 0.1

Peak table for sample 4 : EZ2 Ad#4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	368	552.92	2,275.7	
3	383	685.27	2,707.9	
4	1,734	4.23	3.7	
5	10,380	75.00	10.9	Upper Marker

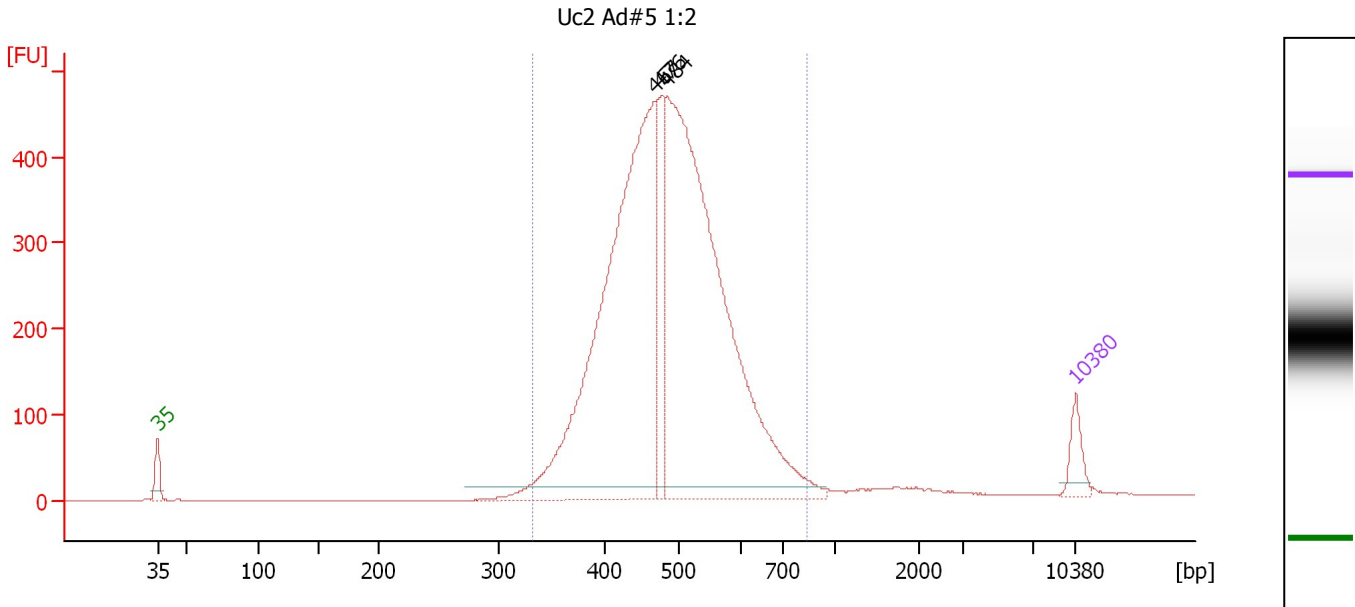
Region table for sample 4 : EZ2 Ad#4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
276	540	386	5,670.7	1,415.90	1,368.3	88	13.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
 Modified: 11/30/2012 3:00:54 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : Uc2 Ad#5 1:2

Height Threshold [FU] : 15

Overall Results for sample 5 : Uc2 Ad#5 1:2

Number of peaks found: 3 Corr. Area 1: 5,880.3
 Noise: 0.2

Peak table for sample 5 : Uc2 Ad#5 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	467	2,528.02	8,209.2	
3	476	374.45	1,192.7	
4	484	2,817.13	8,819.8	
5	10,380	75.00	10.9	Upper Marker

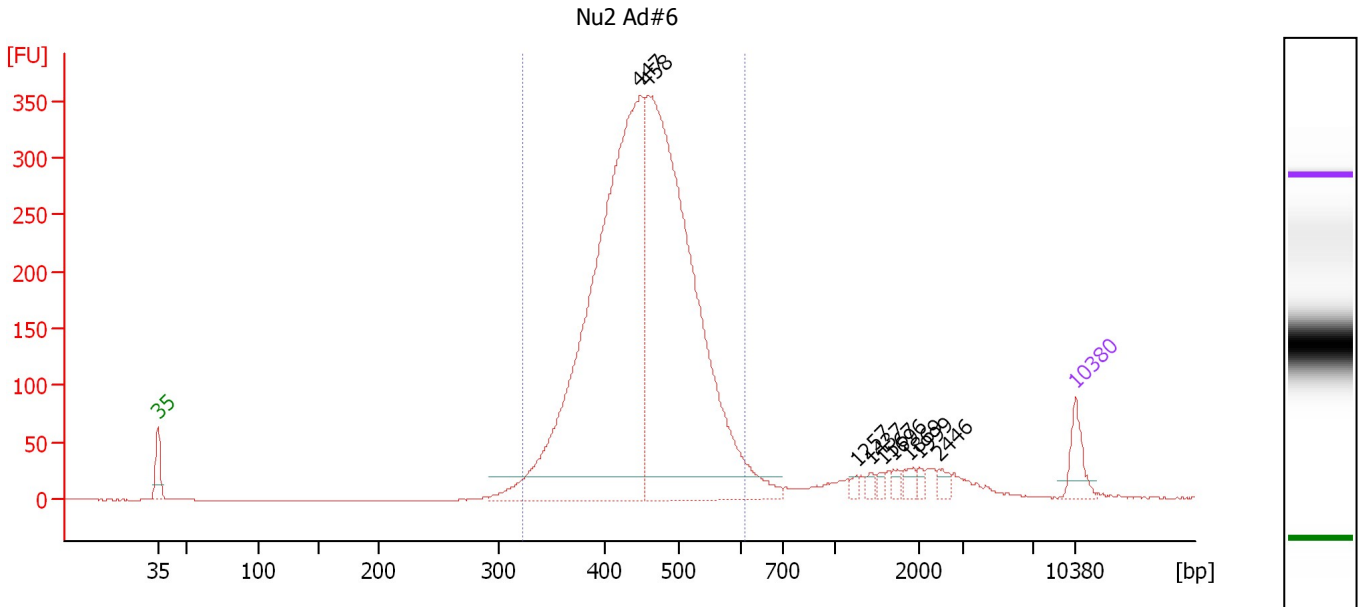
Region table for sample 5 : Uc2 Ad#5 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
332	838	489	17,855.6	5,586.00	5,880.3	97	15.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
 Modified: 11/30/2012 3:00:54 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : Nu2 Ad#6

Height Threshold [FU] : 20

Overall Results for sample 6 : Nu2 Ad#6

Number of peaks found: 9 Corr. Area 1: 3,986.4
 Noise: 0.3

Peak table for sample 6 : Nu2 Ad#6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	447	2,754.09	9,328.9	
3	458	2,596.54	8,587.9	
4	1,257	15.08	18.2	
5	1,437	17.51	18.5	
6	1,567	15.97	15.4	
7	1,696	20.68	18.5	
8	1,869	28.40	23.0	
9	1,999	15.74	11.9	
10	2,446	27.01	16.7	
11	10,380	75.00	10.9	Upper Marker

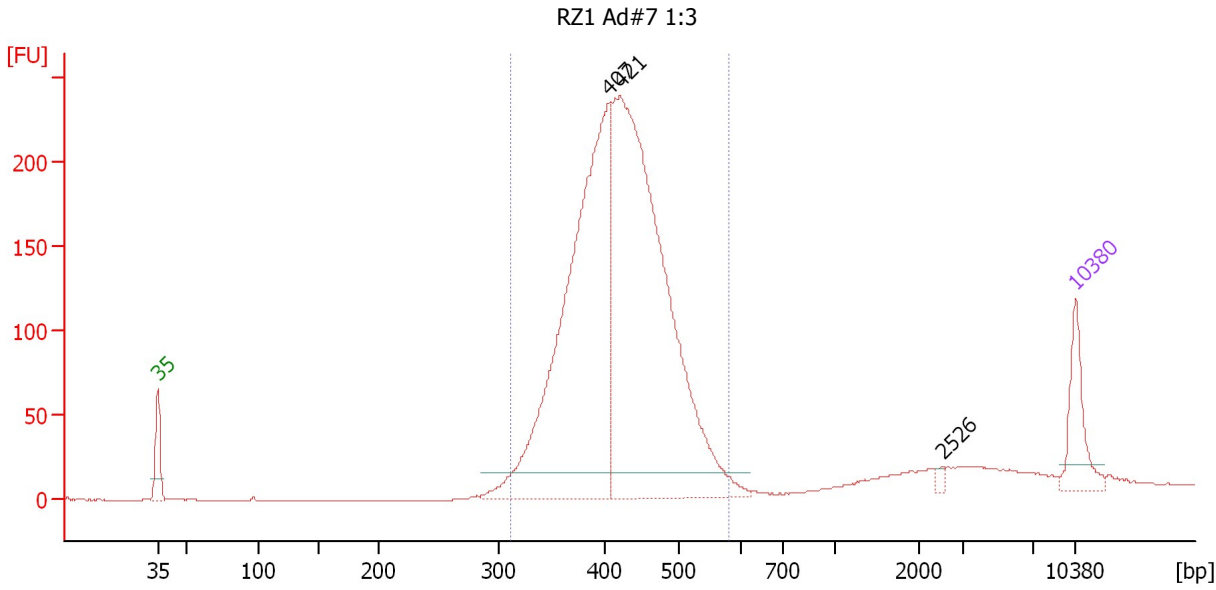
Region table for sample 6 : Nu2 Ad#6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
323	612	453	17,709.8	5,192.03	3,986.4	91	12.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
 Modified: 11/30/2012 3:00:54 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : RZ1 Ad#7 1:3

Height Threshold [FU] : 15

Overall Results for sample 7 : RZ1 Ad#7 1:3

Number of peaks found: 3 Corr. Area 1: 2,585.3
 Noise: 0.2

Peak table for sample 7 : RZ1 Ad#7 1:3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	407	1,040.18	3,872.7	
3	421	1,260.08	4,533.1	
4	2,526	6.37	3.8	
5	10,380	75.00	10.9	Upper Marker

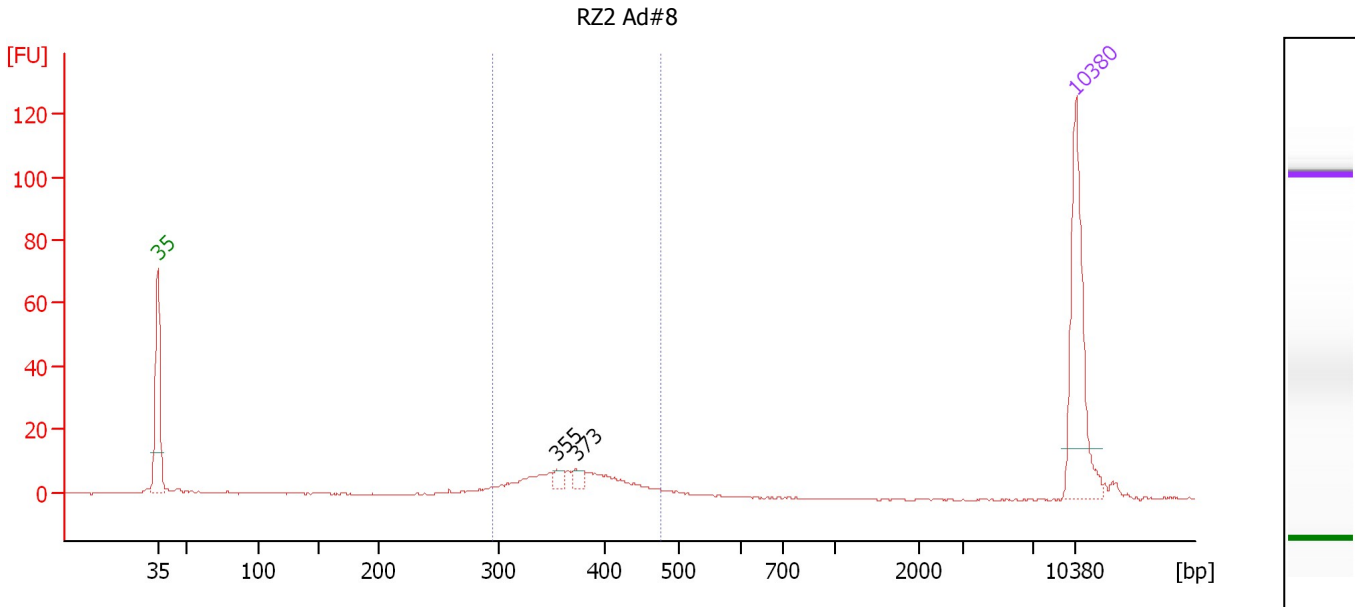
Region table for sample 7 : RZ1 Ad#7 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
311	581	422	8,230.0	2,256.14	2,585.3	91	12.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
 Modified: 11/30/2012 3:00:54 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : RZ2 Ad#8

Height Threshold [FU] : 6

Overall Results for sample 8 : RZ2 Ad#8

Number of peaks found: 2 Corr. Area 1: 94.5
 Noise: 0.2

Peak table for sample 8 : RZ2 Ad#8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	355	6.84	29.2	
3	373	6.98	28.3	
4	10,380	75.00	10.9	Upper Marker

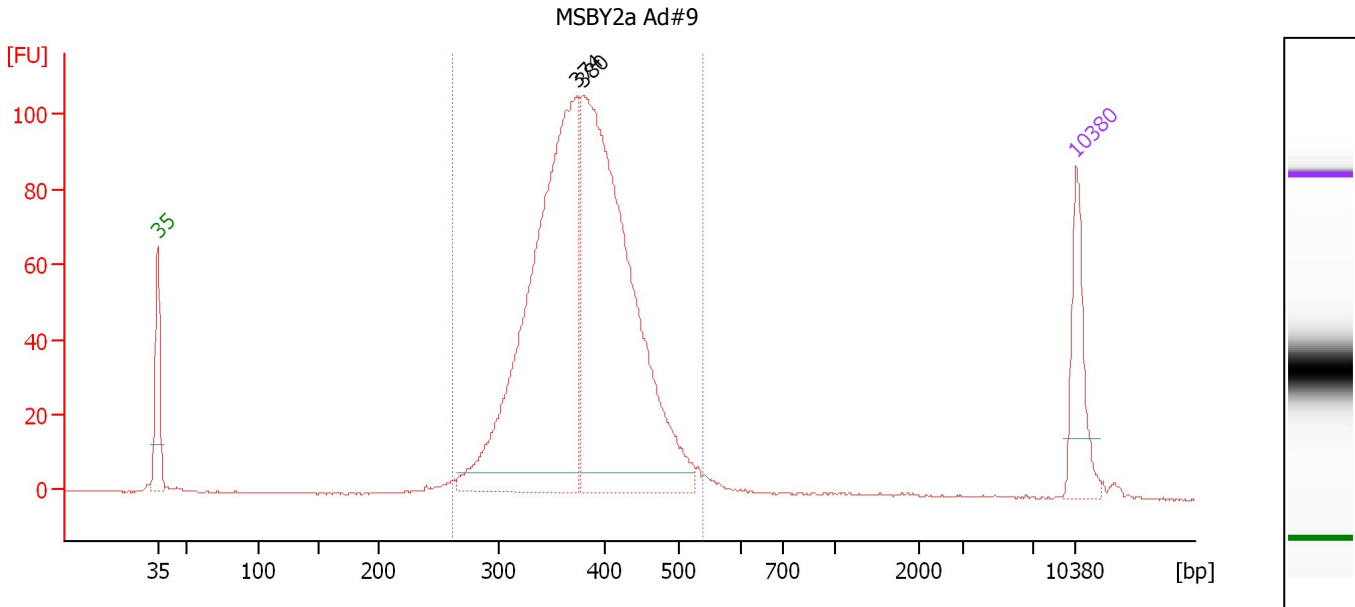
Region table for sample 8 : RZ2 Ad#8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
295	476	373	357.8	86.97	94.5	74	11.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
 Modified: 11/30/2012 3:00:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MSBY2a Ad#9

Number of peaks found: 2 Corr. Area 1: 1,276.4
 Noise: 0.1

Peak table for sample 9 : MSBY2a Ad#9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	374	767.75	3,112.2	
3	380	791.65	3,155.1	
4	10,380	75.00	10.9	Upper Marker

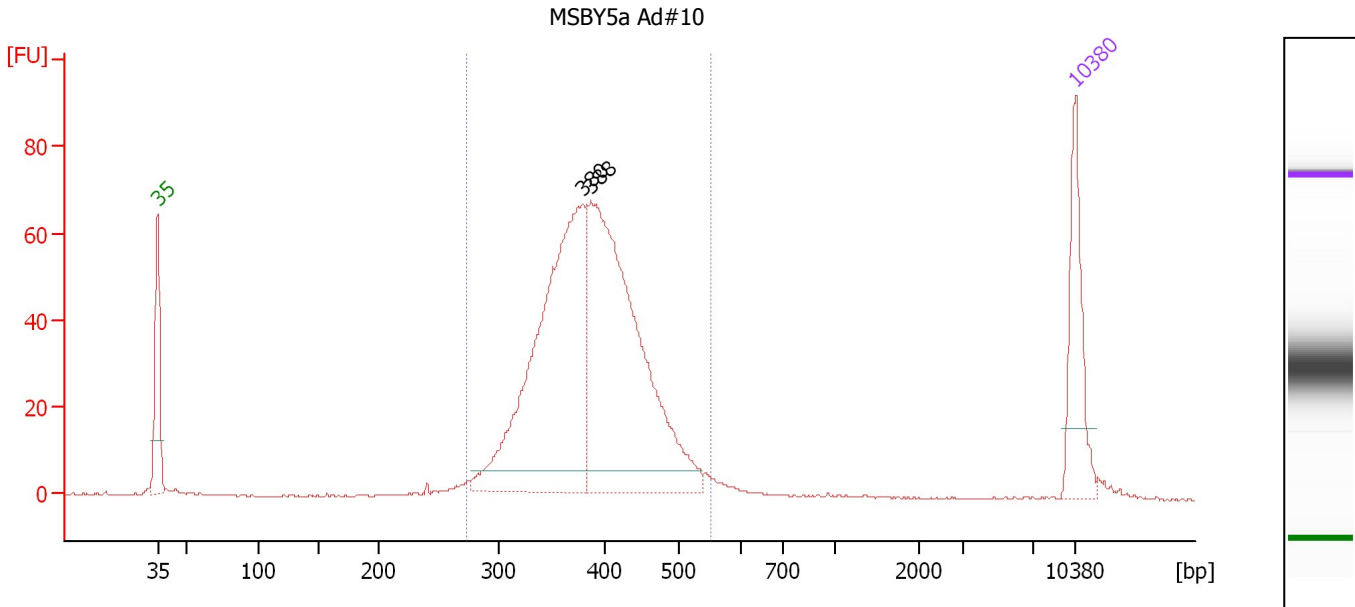
Region table for sample 9 : MSBY2a Ad#9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
262	540	382	6,660.2	1,648.34	1,276.4	96	12.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
 Modified: 11/30/2012 3:00:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : MSBY5a Ad#10

Number of peaks found: 2 Corr. Area 1: 818.5
 Noise: 0.1

Peak table for sample 10 : MSBY5a Ad#10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	380	469.75	1,872.2	
3	388	497.51	1,944.2	
4	10,380	75.00	10.9	Upper Marker

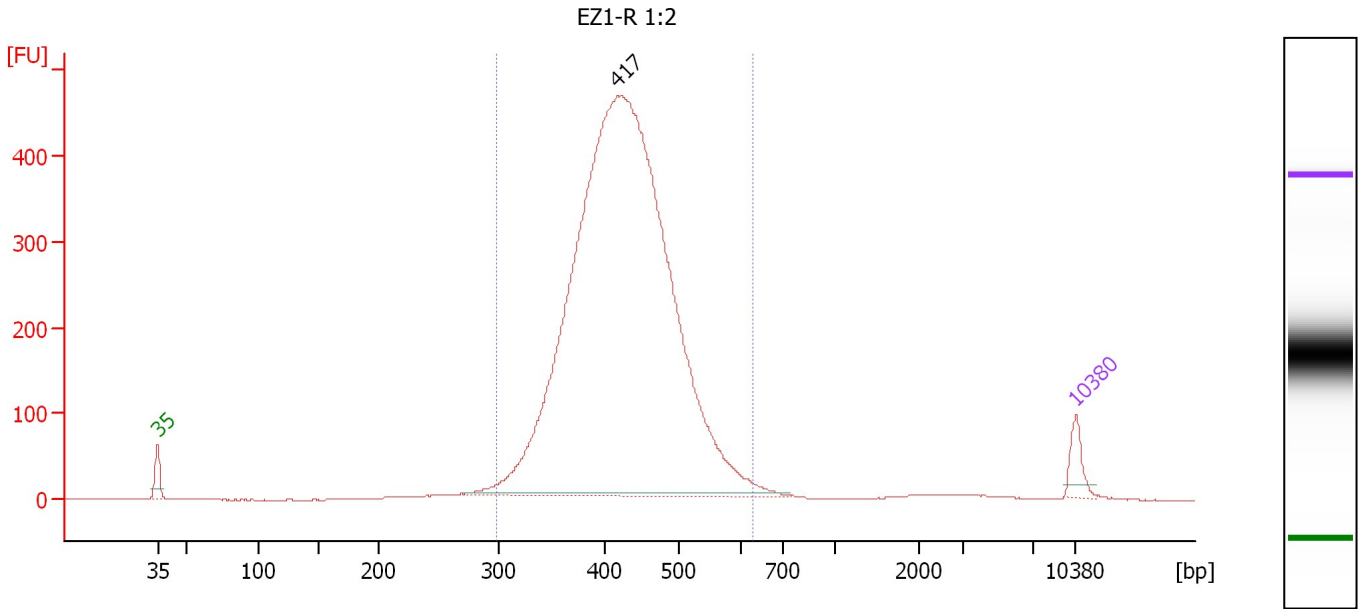
Region table for sample 10 : MSBY5a Ad#10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
274	552	391	4,055.3	1,025.40	818.5	96	13.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
 Modified: 11/30/2012 3:00:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : EZ1-R 1:2

Number of peaks found: 1 Corr. Area 1: 5,392.7
 Noise: 0.1

Peak table for sample 11 : EZ1-R 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	417	6,424.62	23,367.4	
3	10,380	75.00	10.9	Upper Marker

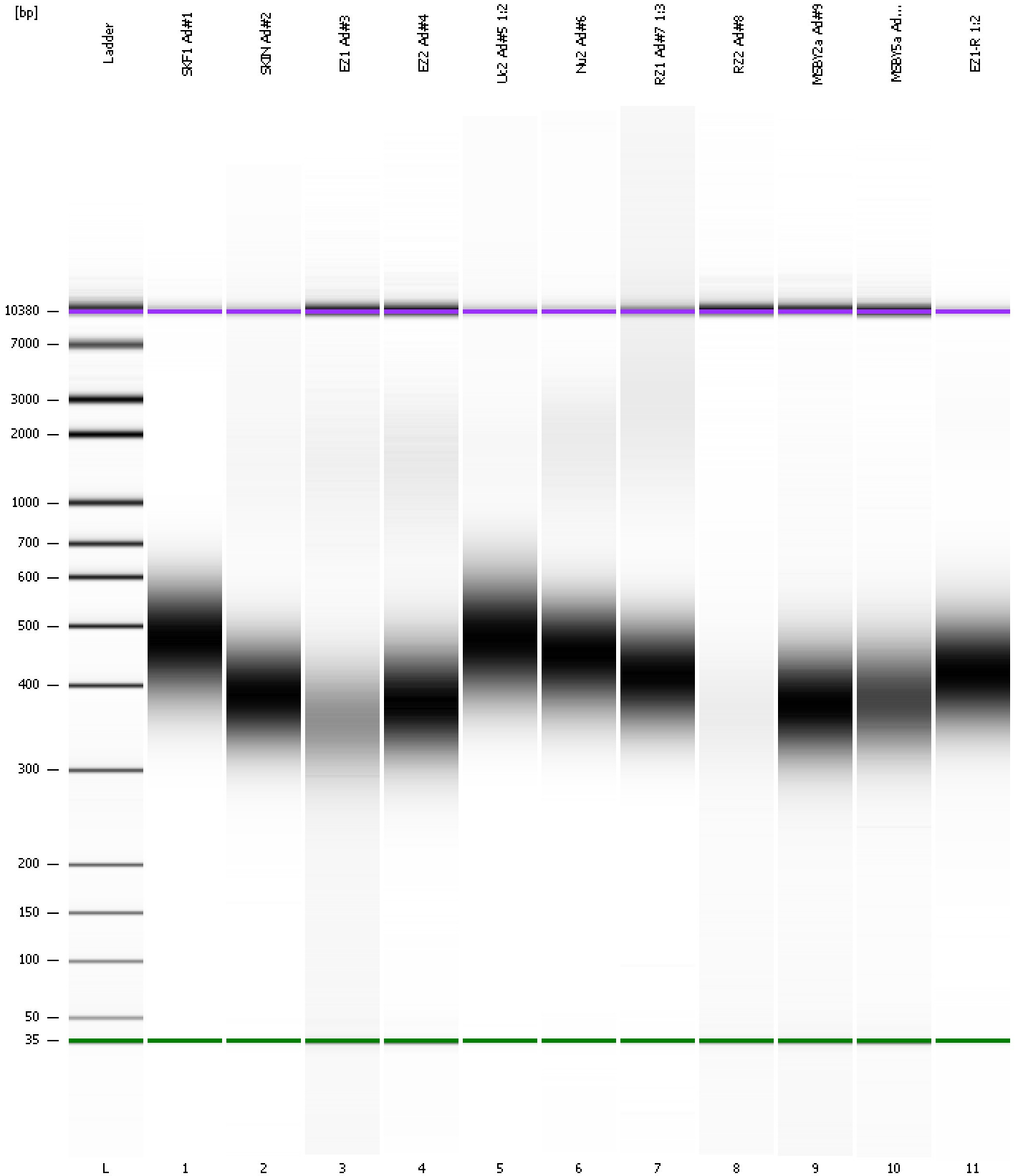
Region table for sample 11 : EZ1-R 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
299	631	429	23,614.3	6,540.01	5,392.7	96	13.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
Modified: 11/30/2012 3:00:54 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad

Created: 11/28/2012 11:54:03 AM
 Modified: 11/30/2012 3:00:54 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		11/28/2012 12:35:22 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-11-28\2012-11-28_001.xad)		Instrument	Run		11/28/2012 11:54:09 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/28/2012 11:54:09 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/28/2012 11:54:09 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/28/2012 11:54:09 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/28/2012 11:54:09 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/28/2012 11:54:09 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/28/2012 11:54:09 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1