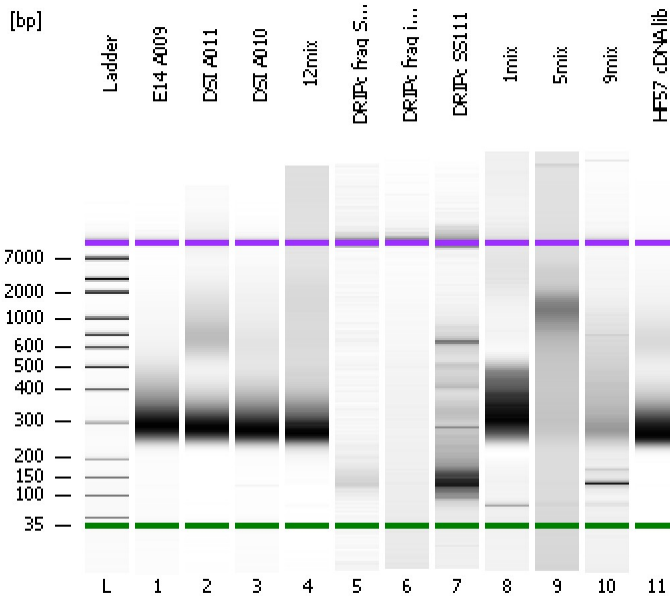


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
Modified: 3/22/2012 11:02:52 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

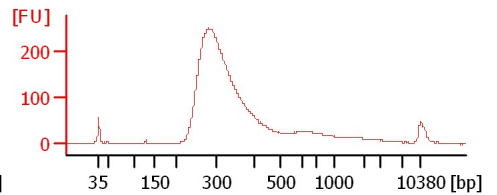
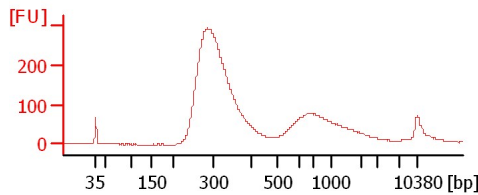
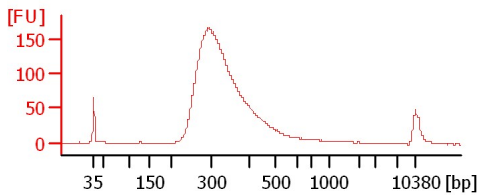
Chip Information:

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

E14 A009

DSI A011

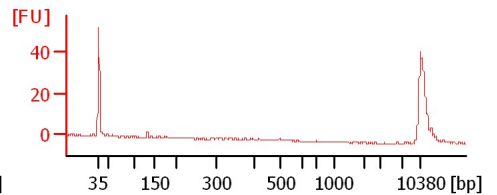
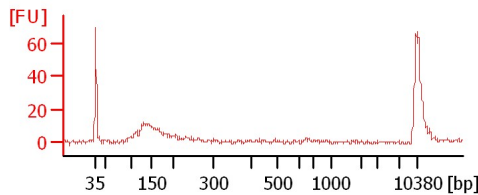
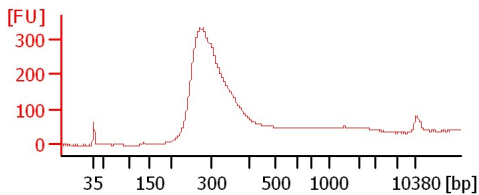
DSI A010



12mix

DRIPc frag SS111

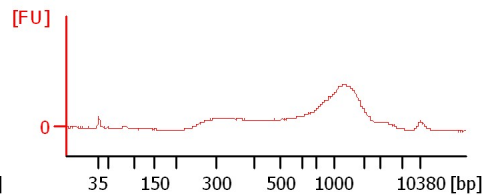
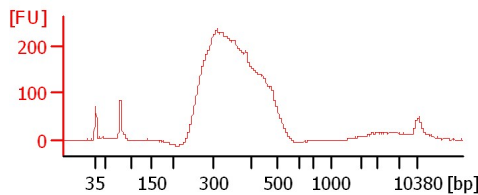
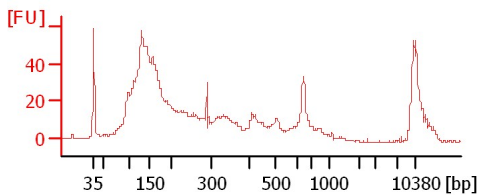
DRIPc frag iscript



DRIPc SS111

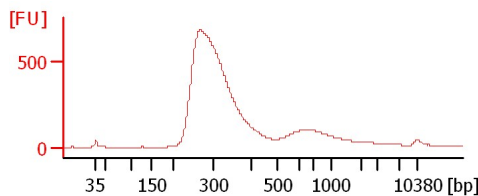
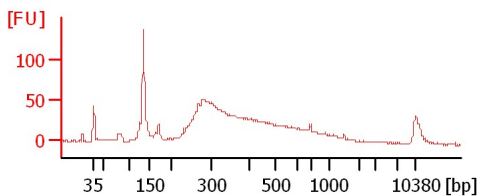
1mix

5mix



9mix

HF57 cDNA lib



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
Modified: 3/22/2012 11:02:52 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
E14 A009		<input type="checkbox"/>	✓			
DSI A011		<input type="checkbox"/>	✓			
DSI A010		<input type="checkbox"/>	✓			
12mix		<input type="checkbox"/>	✓			
DRIPc frag SS111		<input type="checkbox"/>	✓			
DRIPc frag iscript		<input type="checkbox"/>	✓			
DRIPc SS111		<input type="checkbox"/>	✓			
1mix		<input type="checkbox"/>	✓			
5mix		<input type="checkbox"/>	✓			
9mix		<input type="checkbox"/>	✓			
HF57 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:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
Modified: 3/22/2012 11:02:52 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

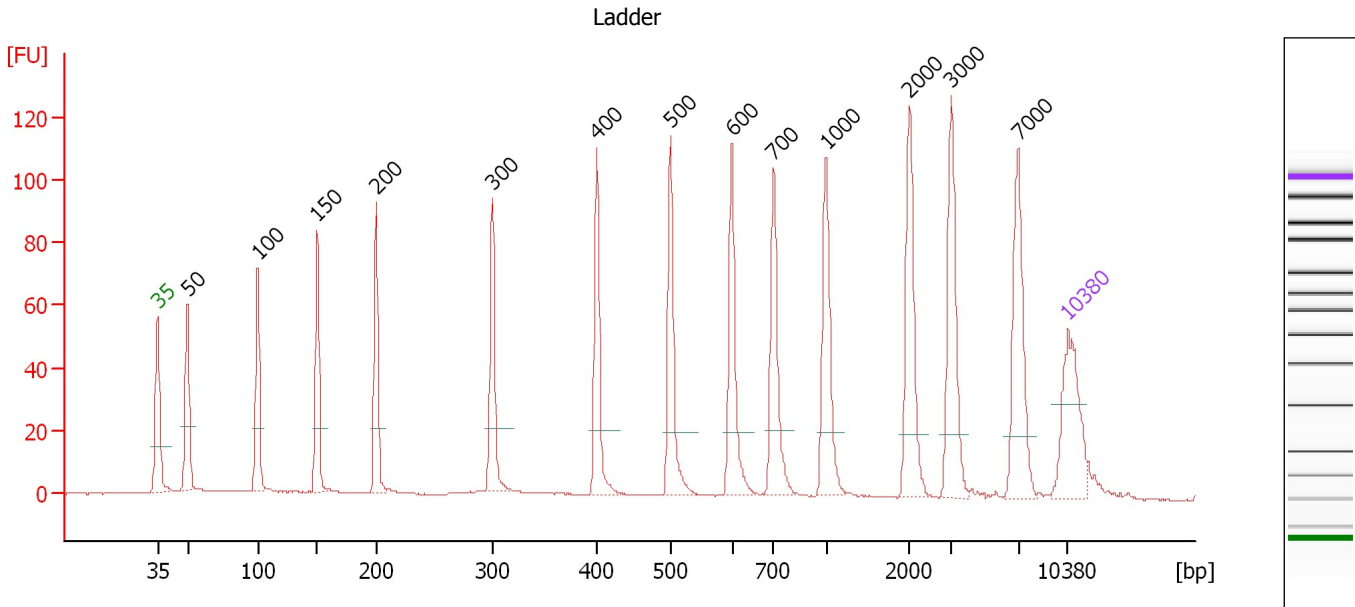
Ladder

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:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

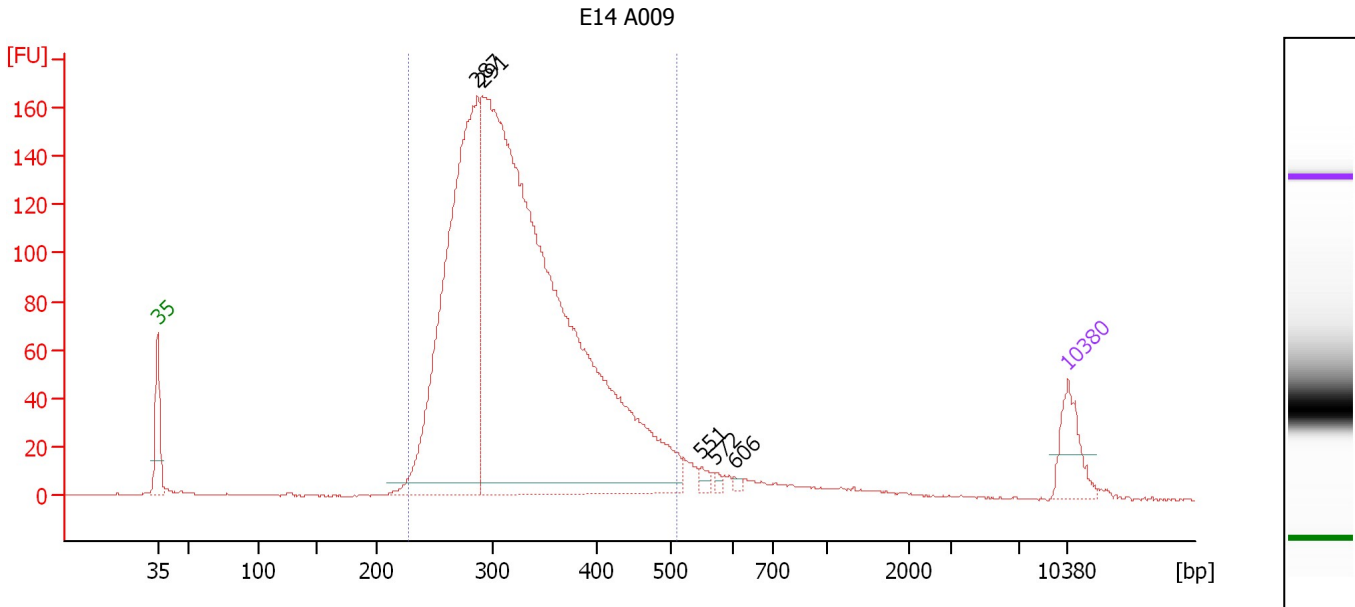
Peak table for Ladder

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:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : E14 A009

Number of peaks found: 5 Corr. Area 1: 2,507.6
 Noise: 0.2

Peak table for sample 1 : E14 A009

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	287	1,278.48	6,752.2	
3	291	2,923.34	15,205.9	
4	551	14.59	40.2	
5	572	7.82	20.7	
6	606	5.89	14.7	
7	10,380	75.00	10.9	Upper Marker

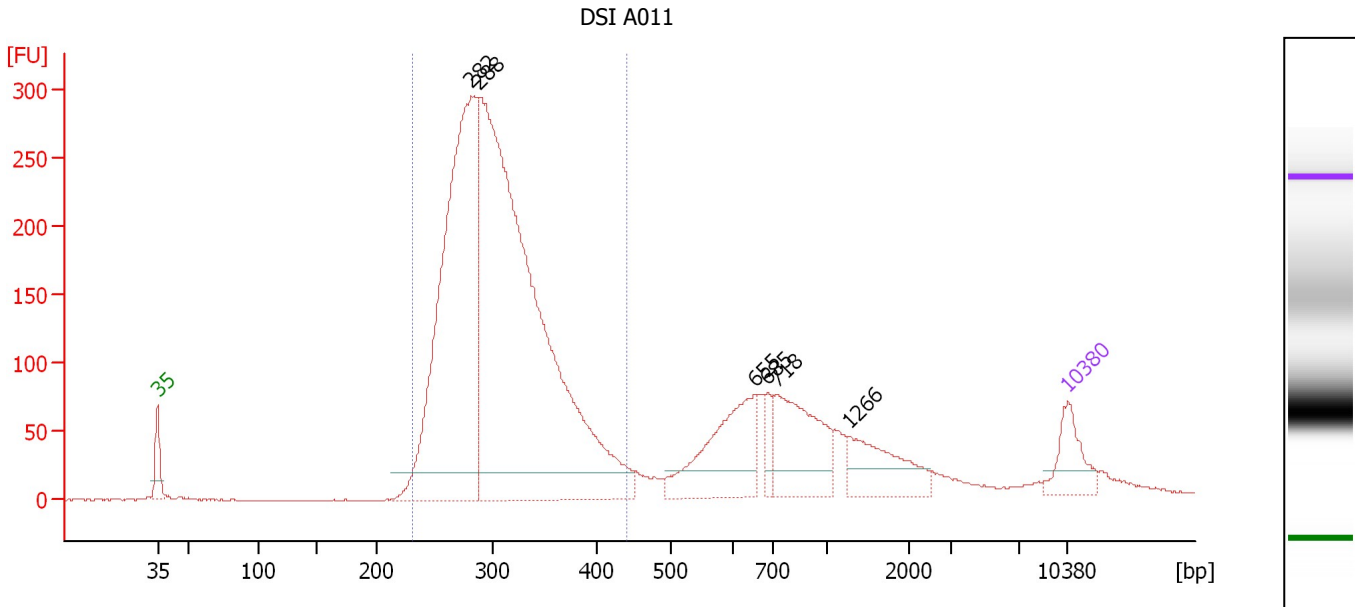
Region table for sample 1 : E14 A009

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
227	19,079.7	328	3,967.63	510	2,507.6	92	17.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : DSI A011

Height Threshold [FU] : 20

Overall Results for sample 2 : DSI A011

Number of peaks found: 6 Corr. Area 1: 3,595.3
 Noise: 0.2

Peak table for sample 2 : DSI A011

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	282	1,372.17	7,379.6	
3	288	2,253.68	11,866.2	
4	655	283.20	655.4	
5	685	43.12	95.3	
6	718	262.10	552.8	
7	1,266	144.09	172.4	
8	10,380	75.00	10.9	Upper Marker

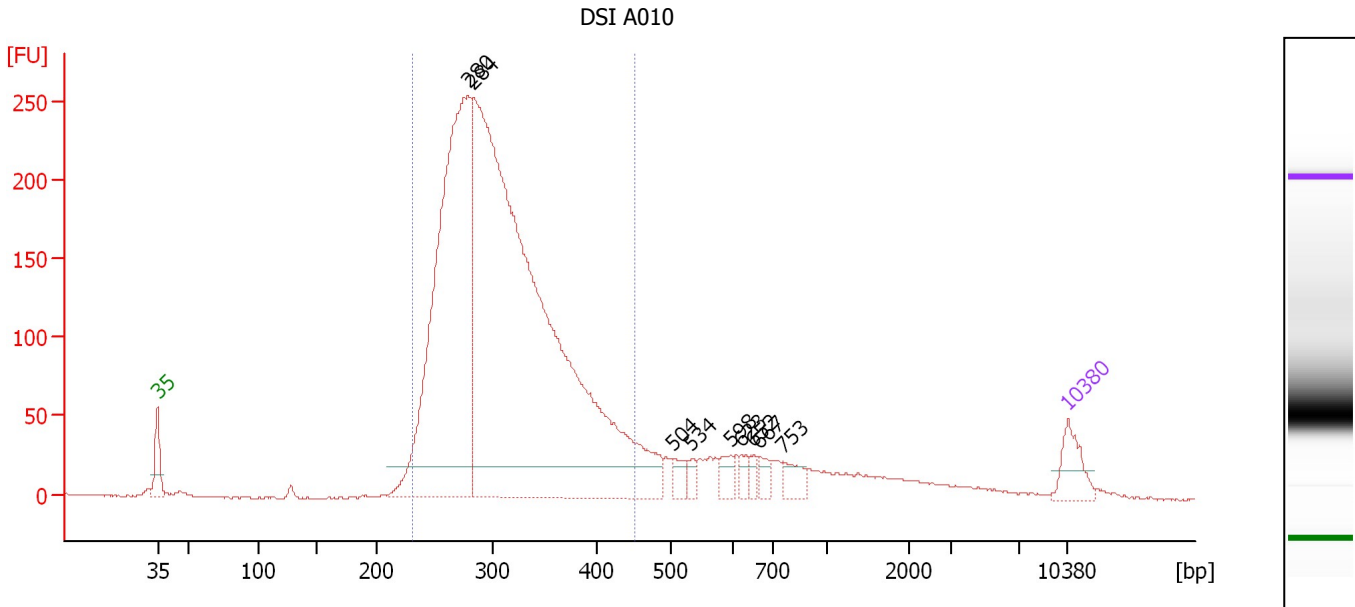
Region table for sample 2 : DSI A011

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
230	17,070.5	307	3,382.20	441	3,595.3	75	13.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : DSI A010

Height Threshold [FU] : 20

Overall Results for sample 3 : DSI A010

Number of peaks found: 9 Corr. Area 1: 3,453.1
 Noise: 0.6

Peak table for sample 3 : DSI A010

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	280	1,913.77	10,374.3	
3	284	3,881.43	20,736.9	
4	504	48.67	146.4	
5	534	25.15	71.4	
6	598	46.33	117.4	
7	623	32.82	79.9	
8	652	23.65	54.9	
9	667	35.90	81.6	
10	753	55.46	111.6	
11	10,380	75.00	10.9	Upper Marker

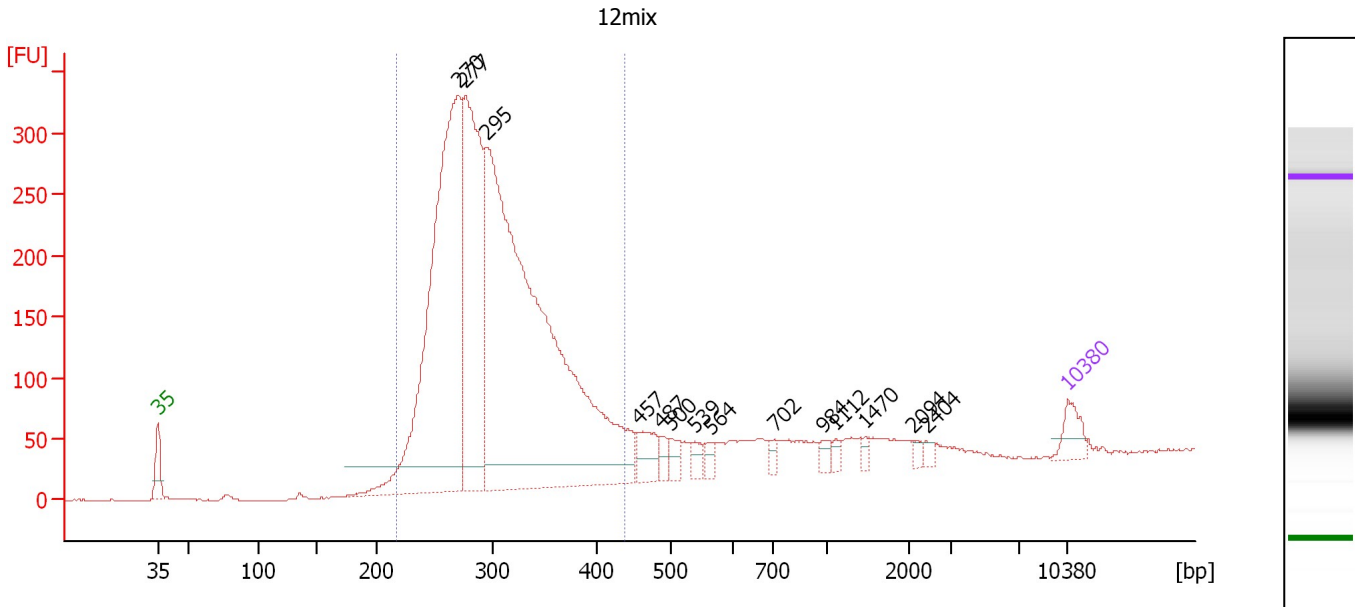
Region table for sample 3 : DSI A010

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
232	26,305.7	311	5,237.16	452	3,453.1	84	15.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : 12mix

Height Threshold [FU] : 20

Overall Results for sample 4 : 12mix

Number of peaks found: 14 Corr. Area 1: 4,076.7
 Noise: 0.4

Peak table for sample 4 : 12mix

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	270	2,561.55	14,354.0	
3	277	1,402.03	7,677.0	
4	295	3,962.01	20,375.4	
5	457	130.02	431.2	
6	487	49.76	154.9	
7	500	62.84	190.4	
8	539	50.79	142.8	
9	564	38.51	103.4	
10	702	33.99	73.4	
11	984	37.82	58.3	
12	1,112	23.52	32.0	
13	1,470	21.16	21.8	
14	2,094	20.19	14.6	
15	2,404	19.79	12.5	
16	10,380	75.00	10.9	Upper Marker

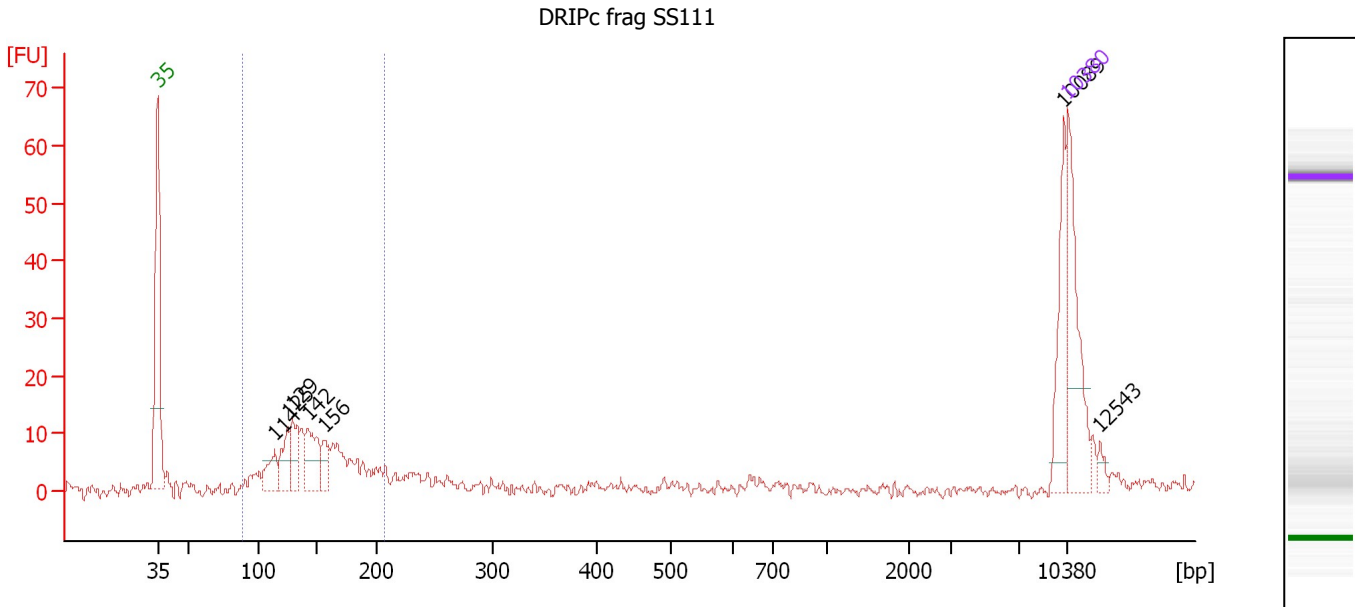
Region table for sample 4 : 12mix

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
218	36,779.8	303	7,163.06	437	4,076.7	83	15.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : DRIPc frag SS111

Number of peaks found: 7 Corr. Area 1: 114.6
 Noise: 0.8

Peak table for sample 5 : DRIPc frag SS111

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	114	31.92	423.5	
3	125	35.11	425.4	
4	129	39.85	467.4	
5	142	56.02	597.5	
6	156	24.70	240.6	
7	10,089	49.51	7.4	
8	10,380	75.00	10.9	Upper Marker
9	12,543	0.00	0.0	

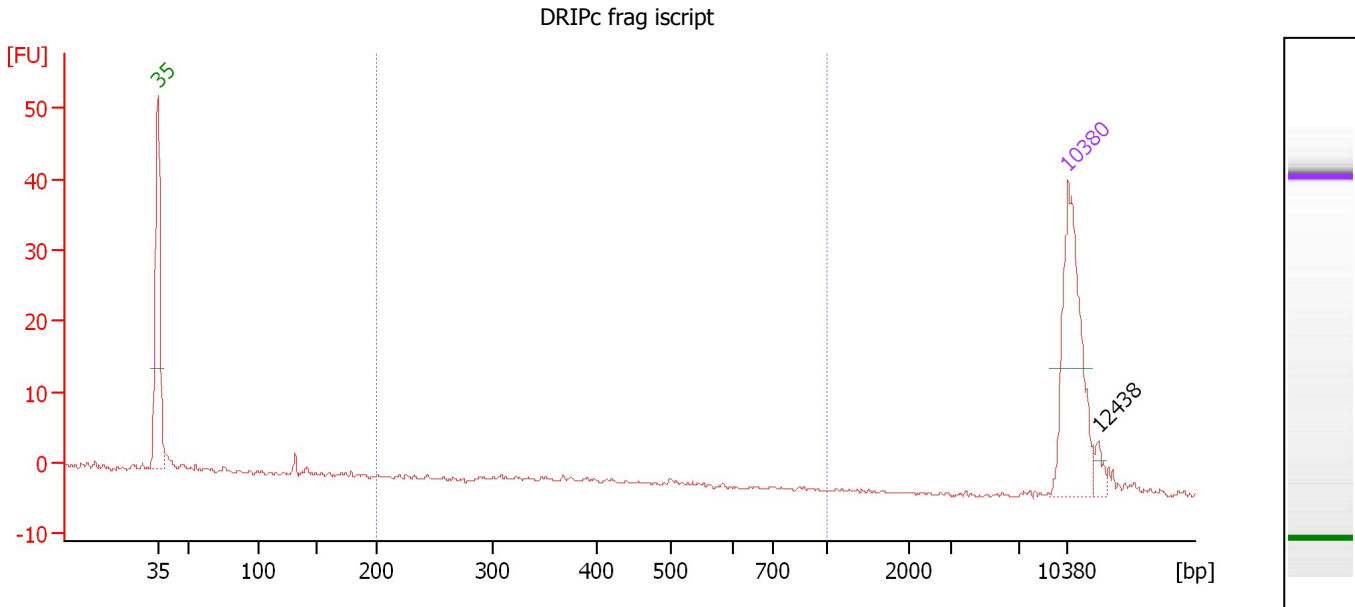
Region table for sample 5 : DRIPc frag SS111

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
90	3,078.7	147	287.95	208	114.6	55	18.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : DRIPc frag iscript

Number of peaks found: 1 Corr. Area 1: 0.9
 Noise: 0.2

Peak table for sample 6 : DRIPc frag iscript

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	12,438	0.00	0.0	

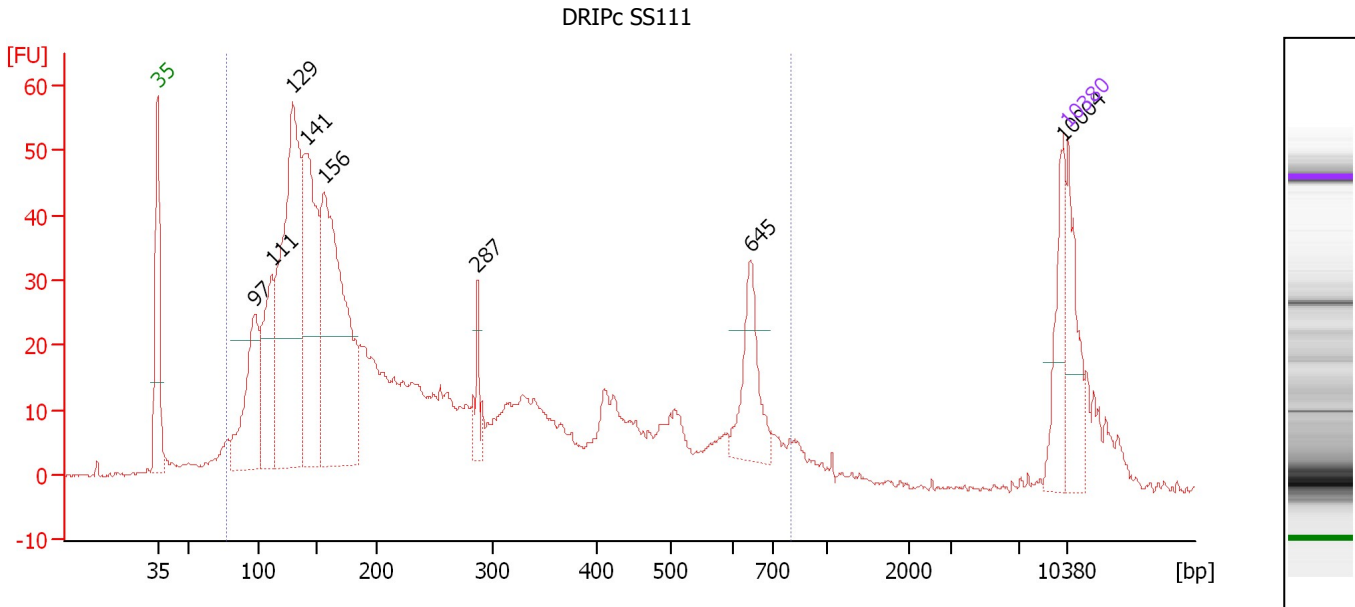
Region table for sample 6 : DRIPc frag iscript

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	5.8	405	1.48	1,000	0.9	4	17.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : DRIPc SS111

Height Threshold [FU] : 20

Overall Results for sample 7 : DRIPc SS111

Number of peaks found: 8 Corr. Area 1: 1,182.3
 Noise: 0.2

Peak table for sample 7 : DRIPc SS111

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	97	209.66	3,260.9	
3	111	180.42	2,453.0	
4	129	576.94	6,774.7	
5	141	343.17	3,689.4	
6	156	533.63	5,183.0	
7	287	34.67	183.2	
8	645	103.51	243.1	
9	10,004	68.98	10.4	
10	10,380	75.00	10.9	Upper Marker

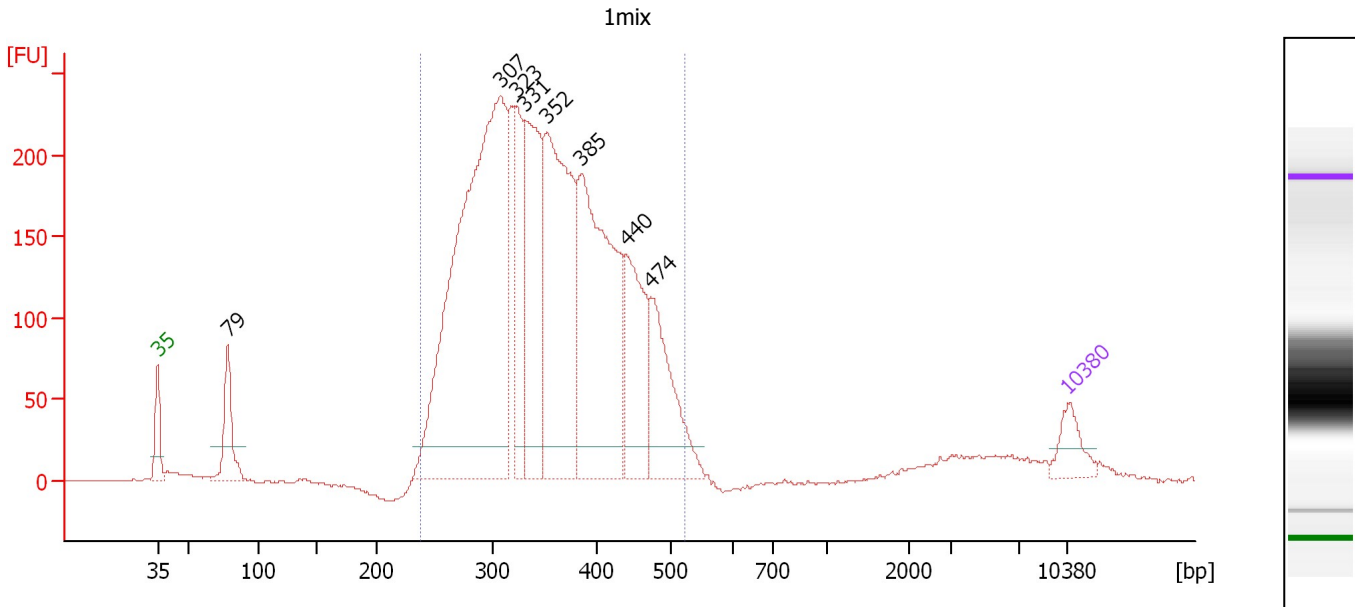
Region table for sample 7 : DRIPc SS111

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
78	29,803.8	276	3,376.21	793	1,182.3	88	63.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : 1mix

Height Threshold [FU] : 20

Overall Results for sample 8 : 1mix

Number of peaks found: 8
 Noise: 0.5
 Corr. Area 1: 4,372.7

Peak table for sample 8 : 1mix

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	224.03	4,319.5	
3	307	2,225.96	10,990.2	
4	323	367.73	1,722.8	
5	331	606.27	2,772.1	
6	352	983.15	4,229.8	
7	385	1,050.14	4,130.4	
8	440	373.70	1,287.6	
9	474	398.86	1,276.3	
10	10,380	75.00	10.9	Upper Marker

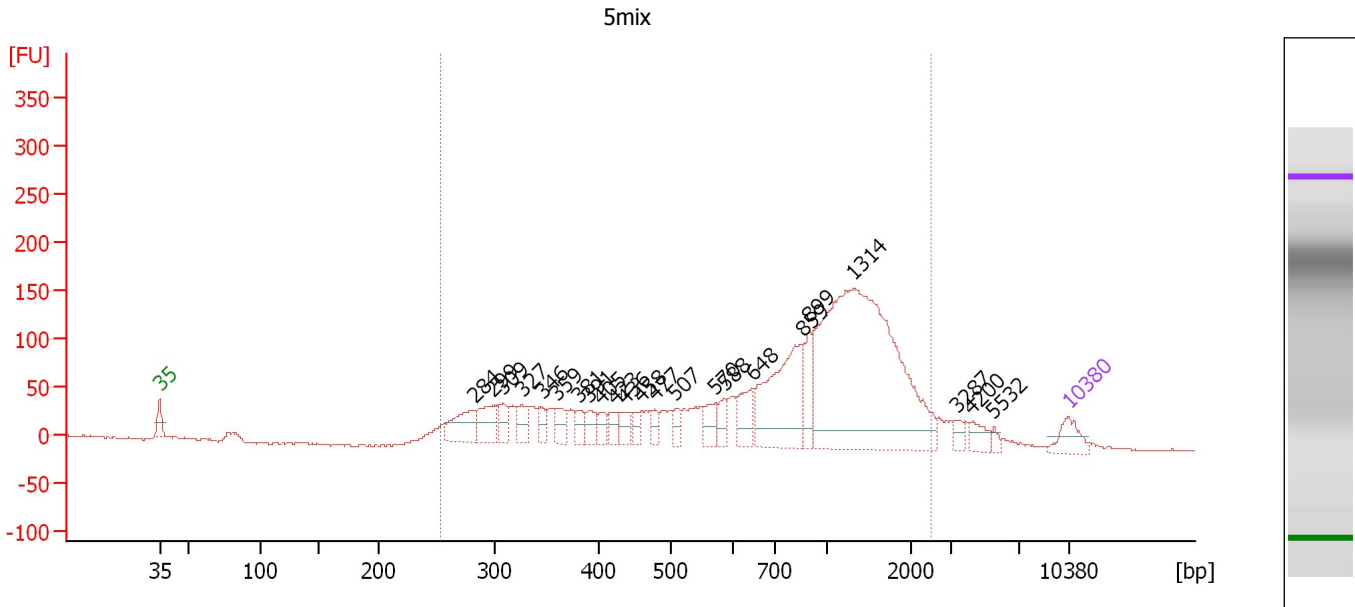
Region table for sample 8 : 1mix

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
239	27,900.0	355	6,235.96	523	4,372.7	93	18.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : 5mix

Height Threshold [FU] : 20

Overall Results for sample 9 : 5mix

Number of peaks found: 23 Corr. Area 1: 2,799.2
 Noise: 1.1

Peak table for sample 9 : 5mix

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	284	191.51	1,022.5	
3	299	156.11	790.7	
4	309	85.04	417.3	
5	327	88.89	411.8	
6	346	62.92	275.6	
7	359	85.80	361.7	
8	381	62.31	247.6	
9	391	67.49	261.5	
10	405	56.35	211.0	
11	423	63.38	227.1	
12	436	68.14	236.9	
13	458	46.72	154.5	
14	477	51.93	164.9	
15	507	52.66	157.4	
16	570	78.89	209.6	
17	588	67.81	174.7	
18	648	133.74	312.9	
19	859	511.47	902.2	
20	899	126.78	213.6	
21	1,314	1,624.21	1,872.2	
22	3,287	31.77	14.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad


Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary Continued ...

... Peak table for sample 9 : 5mix

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
23	4,200	52.28	18.9	
24	5,532	21.01	5.8	
25	10,380	75.00	10.9	Upper Marker

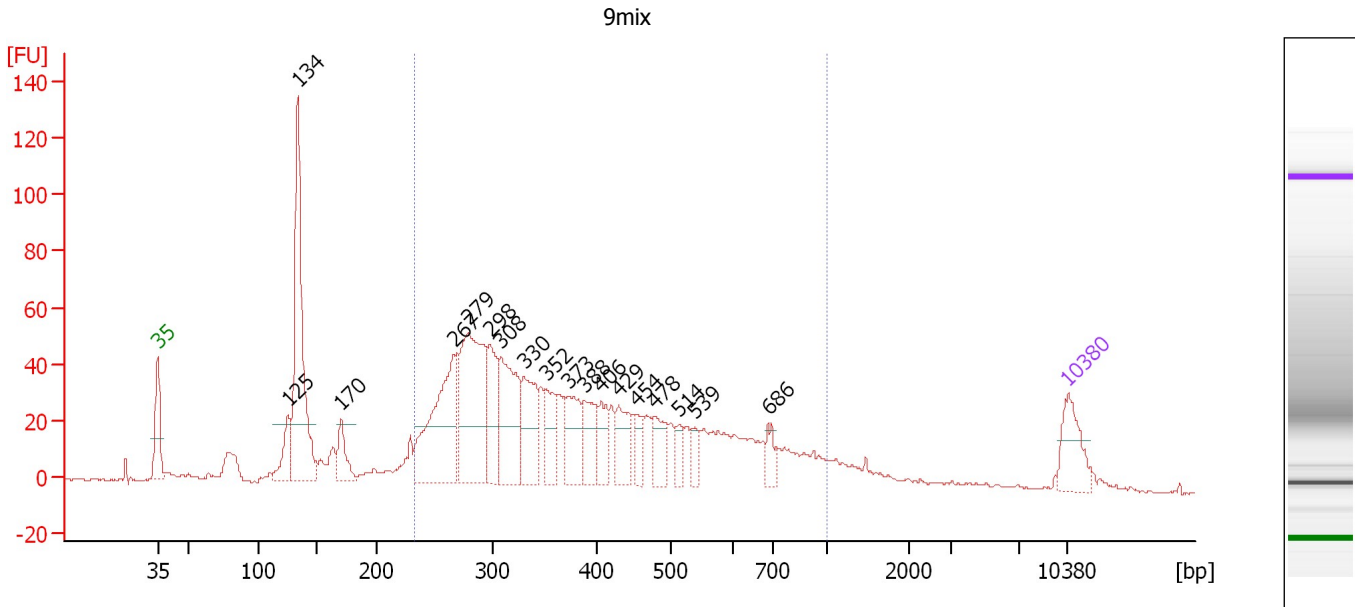
Region table for sample 9 : 5mix

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
254	11,060.9	962	4,312.19	2,501	2,799.2	89	55.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : 9mix

Height Threshold [FU] : 20

Overall Results for sample 10 : 9mix

Number of peaks found: 18 Corr. Area 1: 1,148.5
 Noise: 0.7

Peak table for sample 10 : 9mix

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	125	89.32	1,081.6	
3	134	509.01	5,768.3	
4	170	76.14	677.1	
5	267	352.85	2,005.2	
6	279	410.59	2,232.1	
7	298	144.59	735.3	
8	308	238.78	1,174.2	
9	330	149.44	685.9	
10	352	88.30	380.5	
11	373	113.84	462.5	
12	388	96.83	377.9	
13	406	67.88	253.4	
14	429	86.77	306.2	
15	454	45.35	151.5	
16	478	71.25	225.9	
17	514	33.99	100.2	
18	539	33.90	95.3	
19	686	37.79	83.5	
20	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary Continued ...

... Region table for sample 10 :

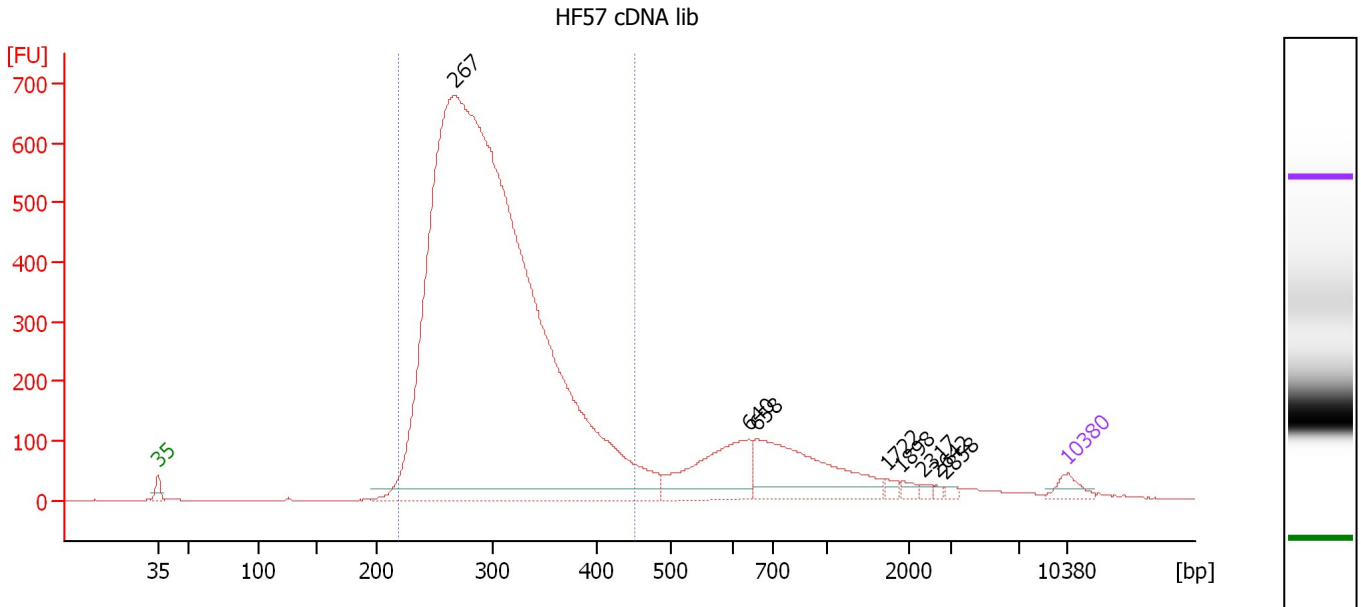
9mix

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
234	10,907.9	415	2,549.24	1,000	1,148.5	74	37.7	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 11 : HF57 cDNA lib

Height Threshold [FU] : 20

Overall Results for sample 11 : HF57 cDNA lib

Number of peaks found: 8 Corr. Area 1: 9,151.0
 Noise: 0.4

Peak table for sample 11 : HF57 cDNA lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	267	15,440.03	87,503.8	
3	640	716.71	1,697.2	
4	658	957.19	2,203.7	
5	1,722	37.46	33.0	
6	1,898	39.30	31.4	
7	2,317	24.43	16.0	
8	2,642	15.89	9.1	
9	2,858	21.30	11.3	
10	10,380	75.00	10.9	Upper Marker

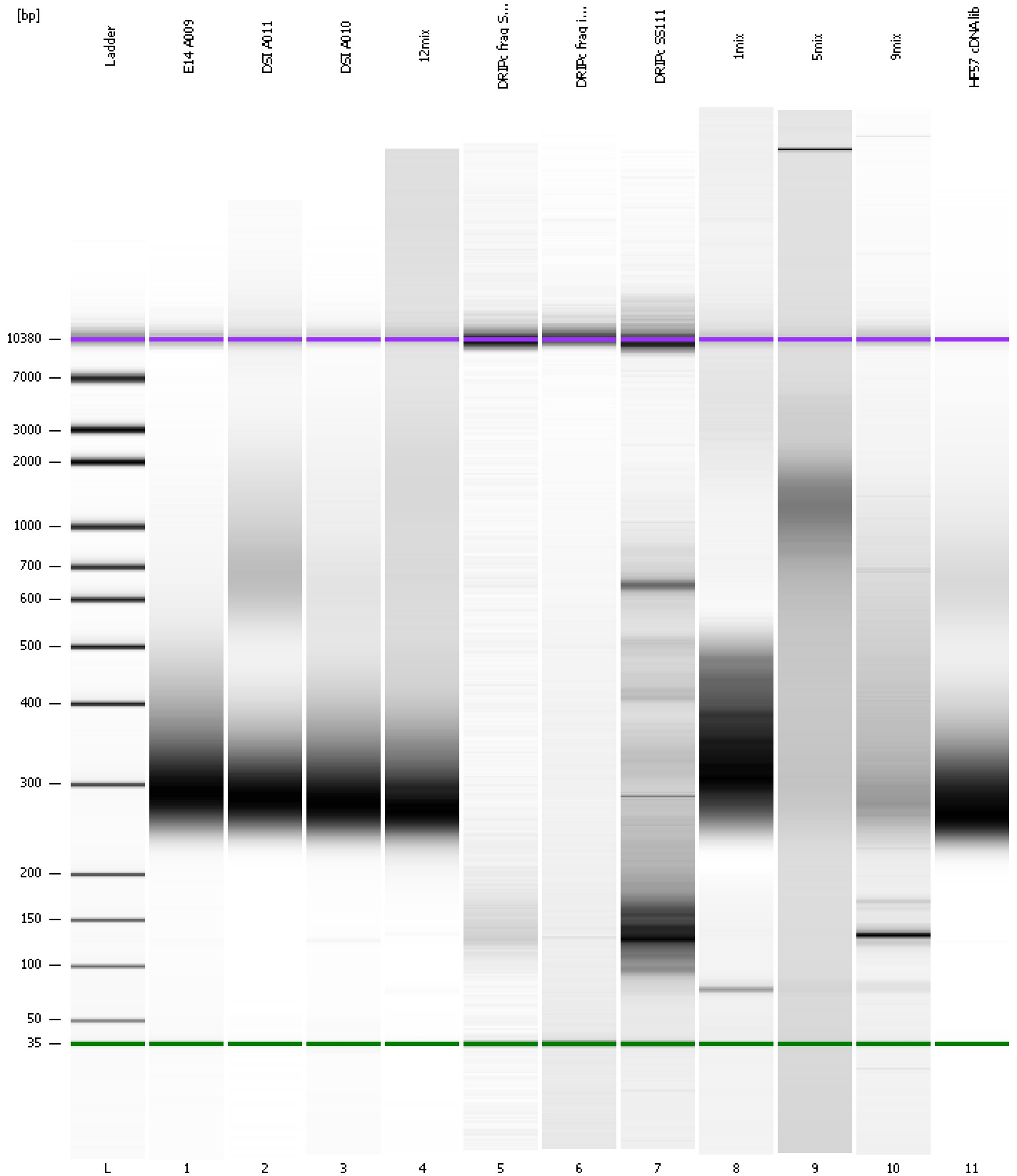
Region table for sample 11 : HF57 cDNA lib

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
218	72,548.9	302	14,037.44	452	9,151.0	83	15.6	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
Modified: 3/22/2012 11:02:52 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad

Created: 3/22/2012 10:19:05 AM
 Modified: 3/22/2012 11:02:52 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		3/22/2012 11:00:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-03-22\2012-03-22_001.xad)		Instrument	Run		3/22/2012 10:19:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/22/2012 10:19:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/22/2012 10:19:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/22/2012 10:19:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/22/2012 10:19:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/22/2012 10:19:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/22/2012 10:19:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1