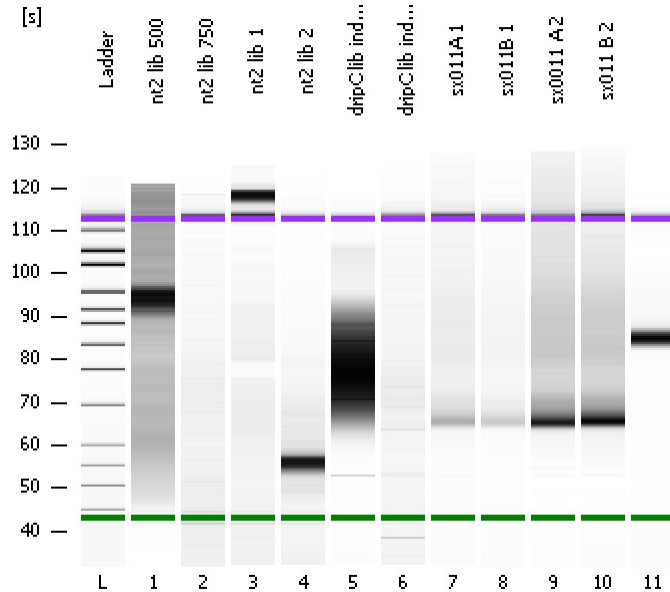


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
Modified: 5/14/2013 11:25:37 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

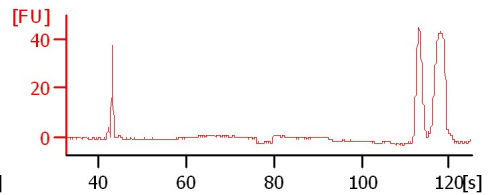
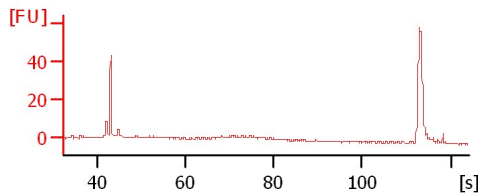
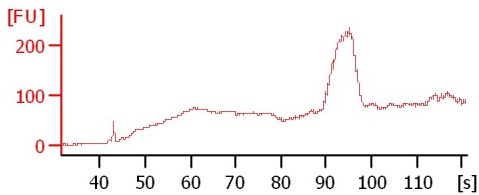
Chip Information:

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

nt2 lib 500

nt2 lib 750

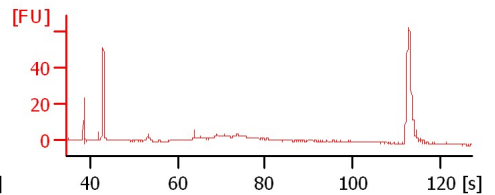
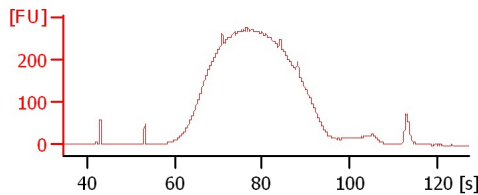
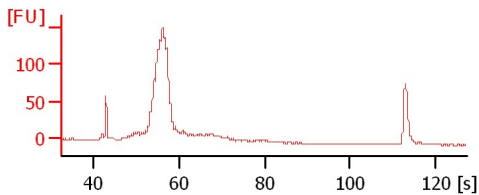
nt2 lib 1



nt2 lib 2

dripC lib index 1

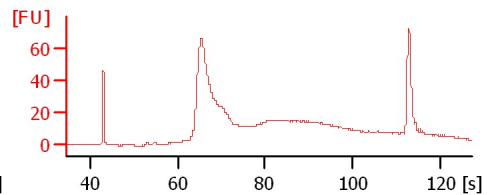
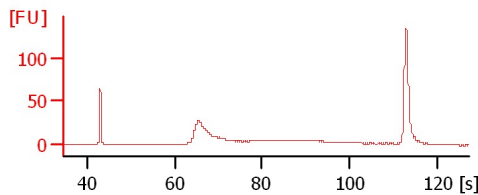
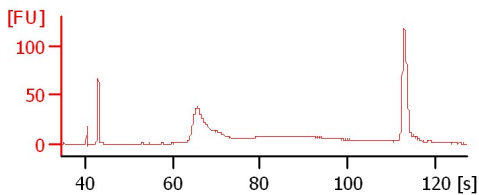
dripC lib index 27



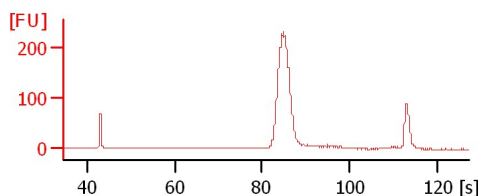
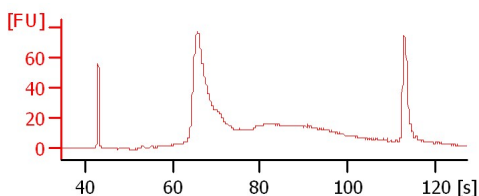
sx011A 1

sx011B 1

sx0011 A 2



sx011 B 2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
Modified: 5/14/2013 11:25:37 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
nt2 lib 500		<input type="checkbox"/>	✓			
nt2 lib 750		<input type="checkbox"/>	✓			
nt2 lib 1		<input type="checkbox"/>	✓			
nt2 lib 2		<input type="checkbox"/>	✓			
dripC lib index 1		<input type="checkbox"/>	✓			
dripC lib index 27		<input type="checkbox"/>	✓			
sx011A 1		<input type="checkbox"/>	✓			
sx011B 1		<input type="checkbox"/>	✓			
sx0011 A 2		<input type="checkbox"/>	✓			
sx011 B 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\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
Modified: 5/14/2013 11:25:37 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

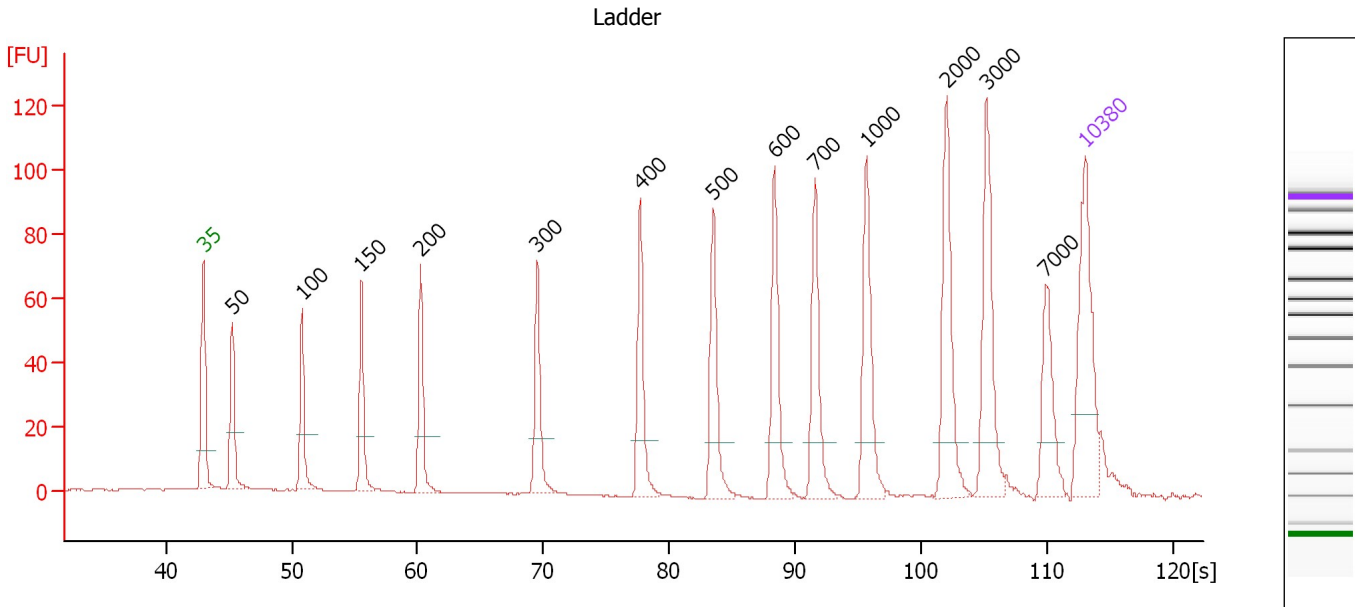
Ladder

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\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

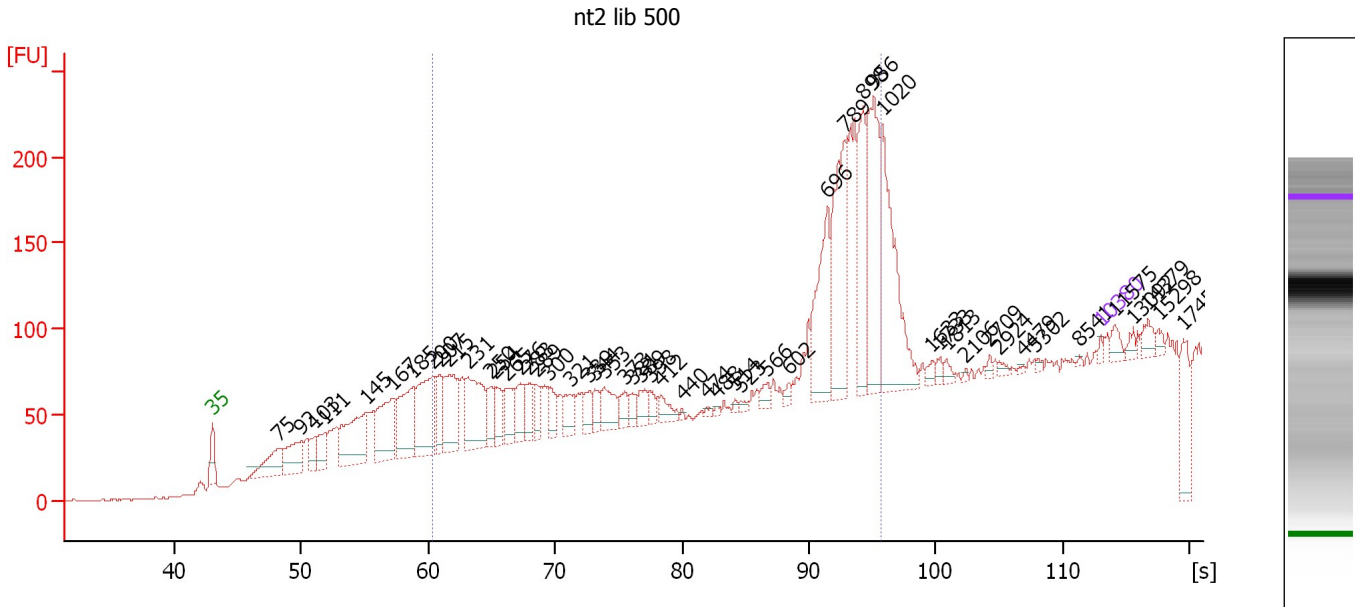
Peak table for Ladder

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\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : nt2 lib 500

Number of peaks found: 53 Corr. Area 1: 1,698.5
 Noise: 0.6

Peak table for sample 1 : nt2 lib 500

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	75	1,499.25	30,114.6	
3	92	1,363.71	22,495.6	
4	103	611.04	9,027.8	
5	111	854.88	11,656.0	
6	145	2,683.23	27,956.8	
7	167	2,416.55	21,875.8	
8	185	2,228.29	18,268.1	
9	200	2,623.25	19,825.9	
10	207	944.96	6,920.7	
11	215	1,938.37	13,681.8	
12	231	2,313.84	15,198.4	
13	250	689.35	4,172.2	
14	254	702.44	4,182.6	
15	265	799.43	4,579.0	
16	276	889.81	4,885.5	
17	283	617.09	3,305.9	
18	289	539.88	2,832.7	
19	300	550.79	2,779.6	
20	321	630.77	2,981.9	
21	339	512.93	2,291.0	
22	344	354.28	1,560.9	
23	353	824.75	3,537.5	
24	373	396.22	1,609.5	
25	381	276.29	1,099.3	
26	389	425.14	1,657.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 AM

Electropherogram Summary Continued ...

... Peak table for sample 1 : nt2 lib 500

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	398	284.06	1,081.5	
28	412	392.60	1,442.2	
29	440	46.39	159.7	
30	474	76.79	245.6	
31	488	54.37	168.9	
32	514	68.76	202.7	
33	523	94.28	272.9	
34	566	219.69	588.4	
35	602	132.77	334.4	
36	696	2,441.53	5,318.1	
37	789	2,999.82	5,761.0	
38	898	1,936.40	3,268.8	
39	956	2,898.10	4,590.8	
40	1,020	3,061.12	4,547.9	
41	1,633	145.97	135.5	
42	1,733	117.55	102.8	
43	1,813	127.73	106.8	
44	2,106	37.06	26.7	
45	2,709	71.58	40.0	
46	2,924	84.99	44.0	
47	4,479	35.51	12.0	
48	5,302	48.15	13.8	
49	8,541	29.49	5.2	
50	10,380	75.00	10.9	Upper Marker
51	11,575	0.00	0.0	
52	13,092	0.00	0.0	
53	14,379	0.00	0.0	
54	15,298	0.00	0.0	
55	17,459	0.00	0.0	

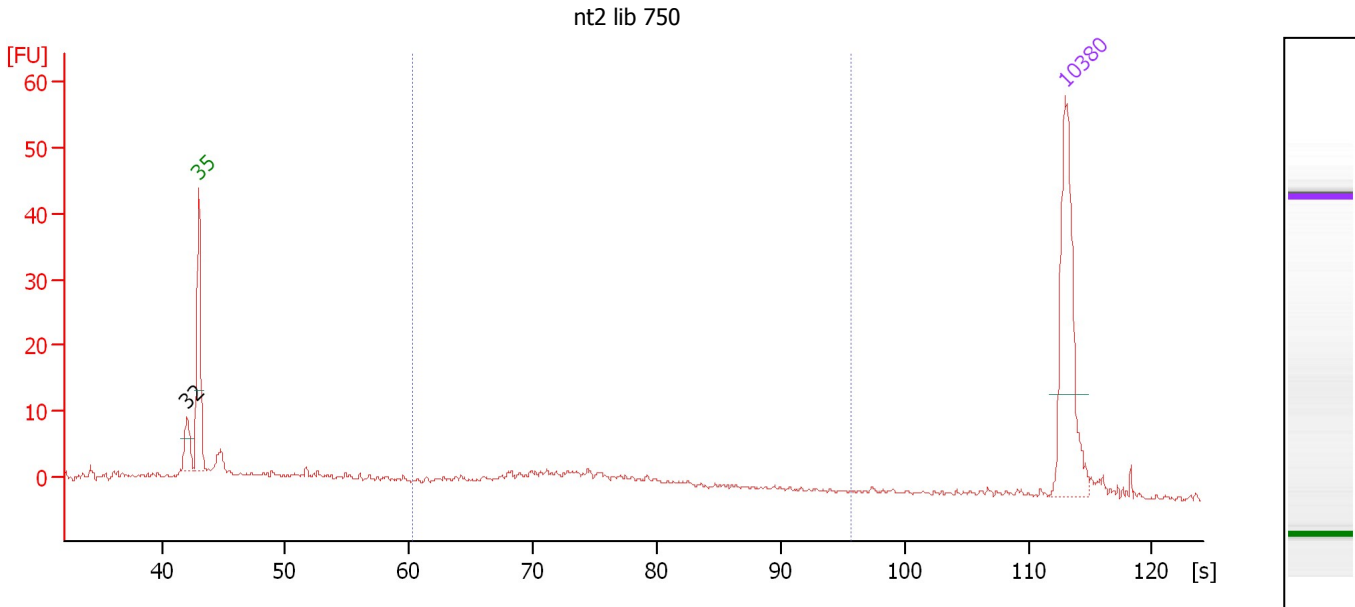
Region table for sample 1 : nt2 lib 500

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
60.27	95.65	601	116,761.5	29,956.91	1,698.5	63	45.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : nt2 lib 750

Number of peaks found: 1 Corr. Area 1: 43.5
 Noise: 0.3

Peak table for sample 2 : nt2 lib 750

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	10,380	75.00	10.9	Upper Marker

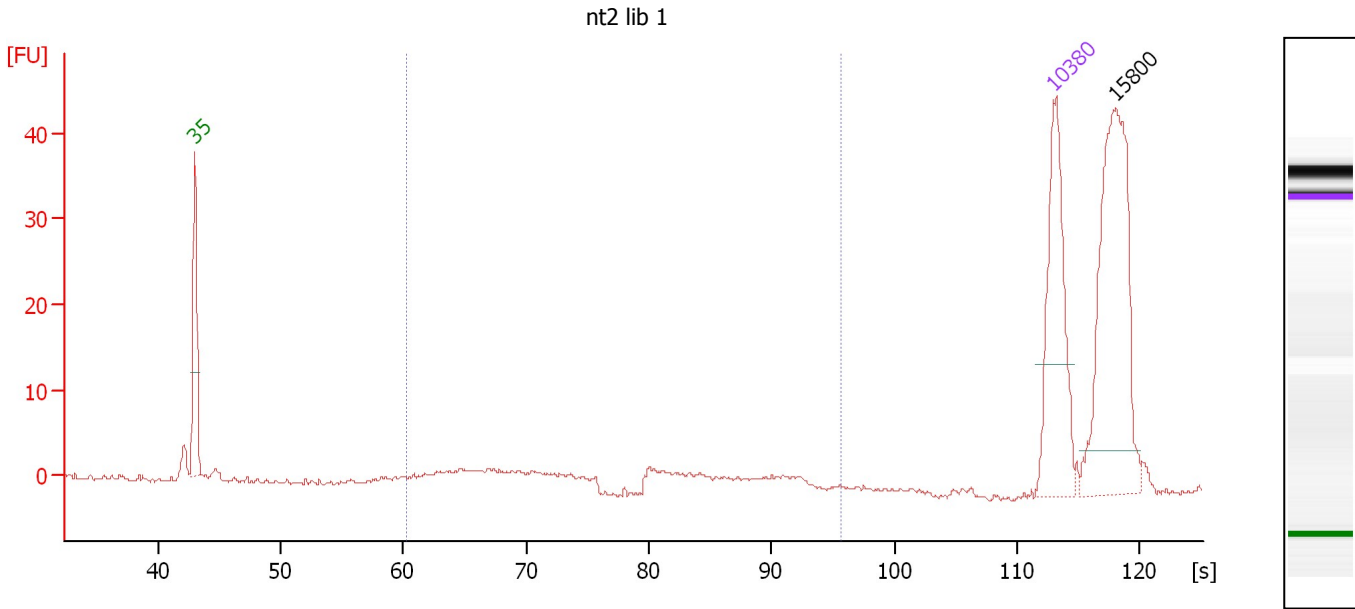
Region table for sample 2 : nt2 lib 750

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
60.27	95.65	347	358.1	76.23	43.5	35	23.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : nt2 lib 1

Number of peaks found: 1 Corr. Area 1: 36.8
 Noise: 0.2

Peak table for sample 3 : nt2 lib 1

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	15,800	0.00	0.0	

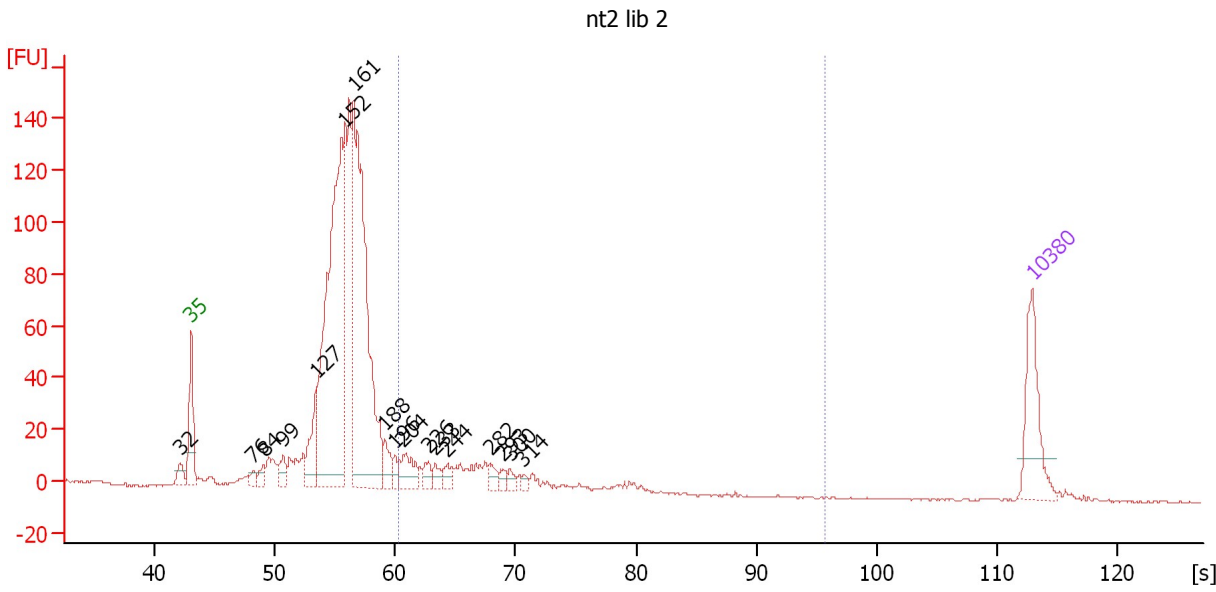
Region table for sample 3 : nt2 lib 1

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
60.27	95.65	413	278.1	61.97	36.8	24	37.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : nt2 lib 2

Number of peaks found: 17 Corr. Area 1: 177.8
 Noise: 0.3

Peak table for sample 4 : nt2 lib 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	76	11.73	233.8	
4	84	16.26	294.6	
5	99	26.80	412.1	
6	127	81.51	969.9	
7	152	660.49	6,579.9	
8	161	622.81	5,876.2	
9	188	31.94	256.8	
10	196	18.06	139.3	
11	204	46.13	343.3	
12	226	18.13	121.4	
13	233	16.13	104.8	
14	244	17.47	108.6	
15	282	16.04	86.2	
16	293	10.69	55.2	
17	300	10.46	52.8	
18	314	7.22	34.8	
19	10,380	75.00	10.9	Upper Marker

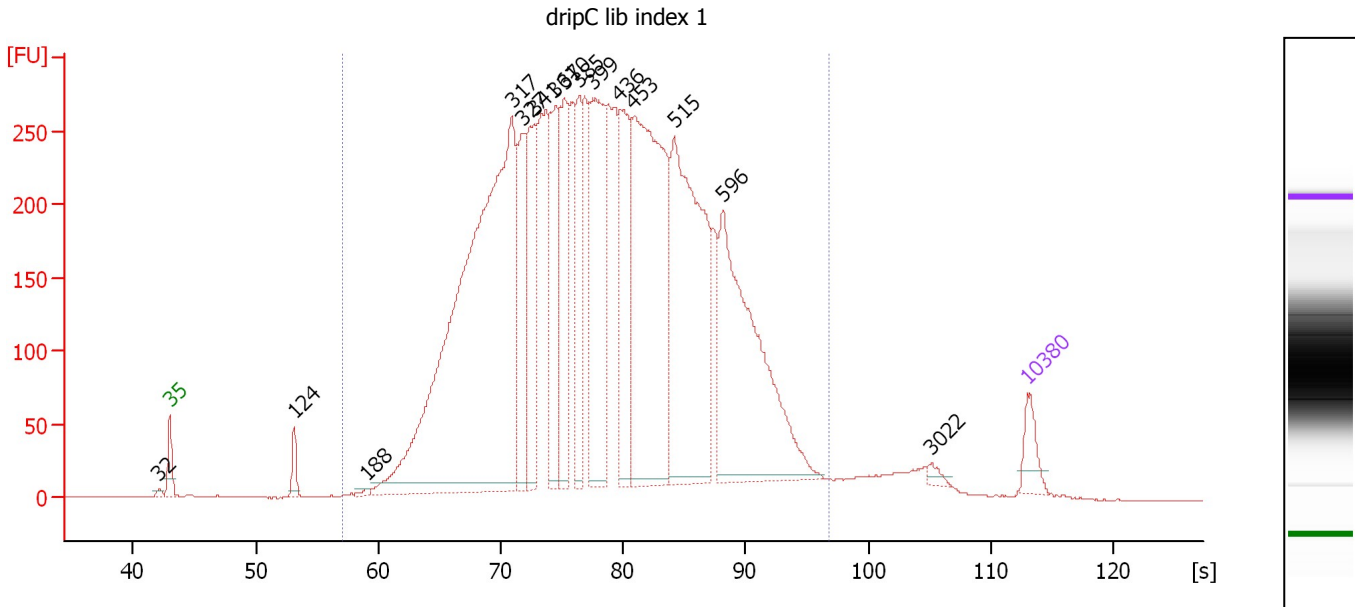
Region table for sample 4 : nt2 lib 2

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color	
60.27	95.65	278	1,394.4	243.78	177.8	13	22.2	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : dripC lib index 1

Number of peaks found: 15 Corr. Area 1: 8,391.3
 Noise: 0.2

Peak table for sample 5 : dripC lib index 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	124	77.46	943.1	
4	188	14.89	120.3	
5	317	3,186.28	15,224.3	
6	327	440.93	2,042.1	
7	341	489.26	2,176.8	
8	361	462.35	1,939.4	
9	370	434.71	1,782.2	
10	385	323.83	1,275.6	
11	399	742.18	2,821.1	
12	436	516.21	1,795.2	
13	453	1,373.67	4,595.3	
14	515	1,264.72	3,722.4	
15	596	1,061.07	2,695.7	
16	3,022	19.01	9.5	
17	10,380	75.00	10.9	Upper Marker

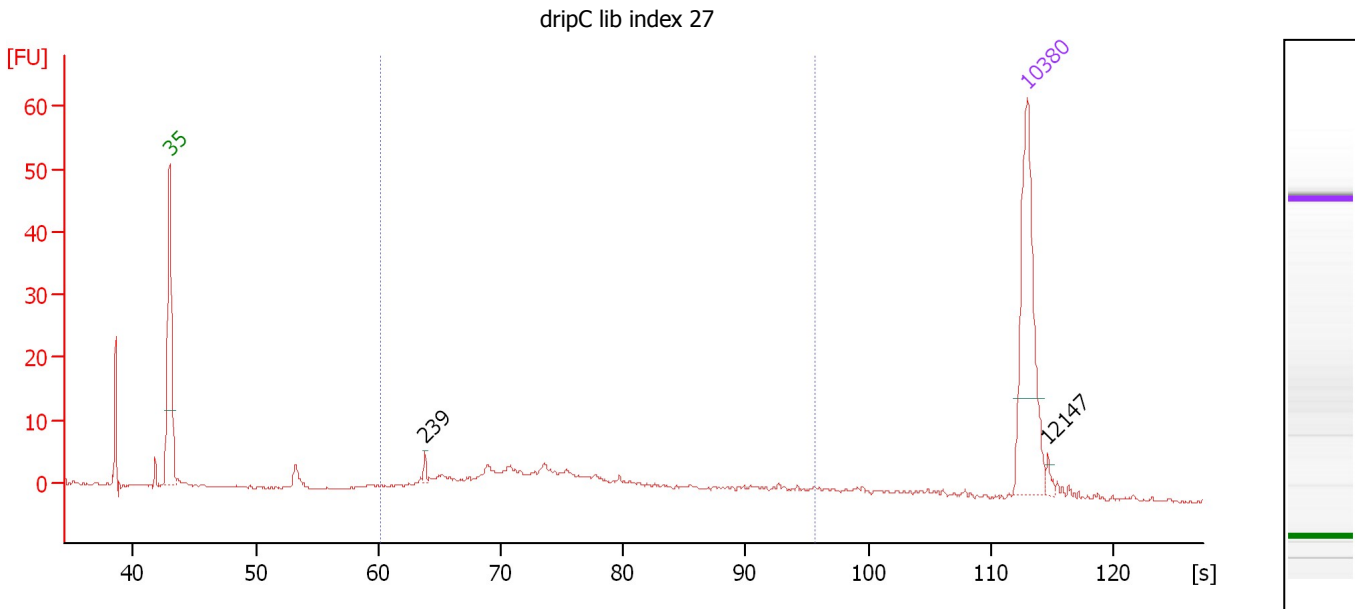
Region table for sample 5 : dripC lib index 1

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
57.15	96.82	433	51,373.5	12,872.91	8,391.3 97	31.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : dripC lib index 27

Number of peaks found: 2 Corr. Area 1: 84.4
 Noise: 0.2

Peak table for sample 6 : dripC lib index 27

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	239	4.00	25.4	
3	10,380	75.00	10.9	Upper Marker
4	12,147	0.00	0.0	

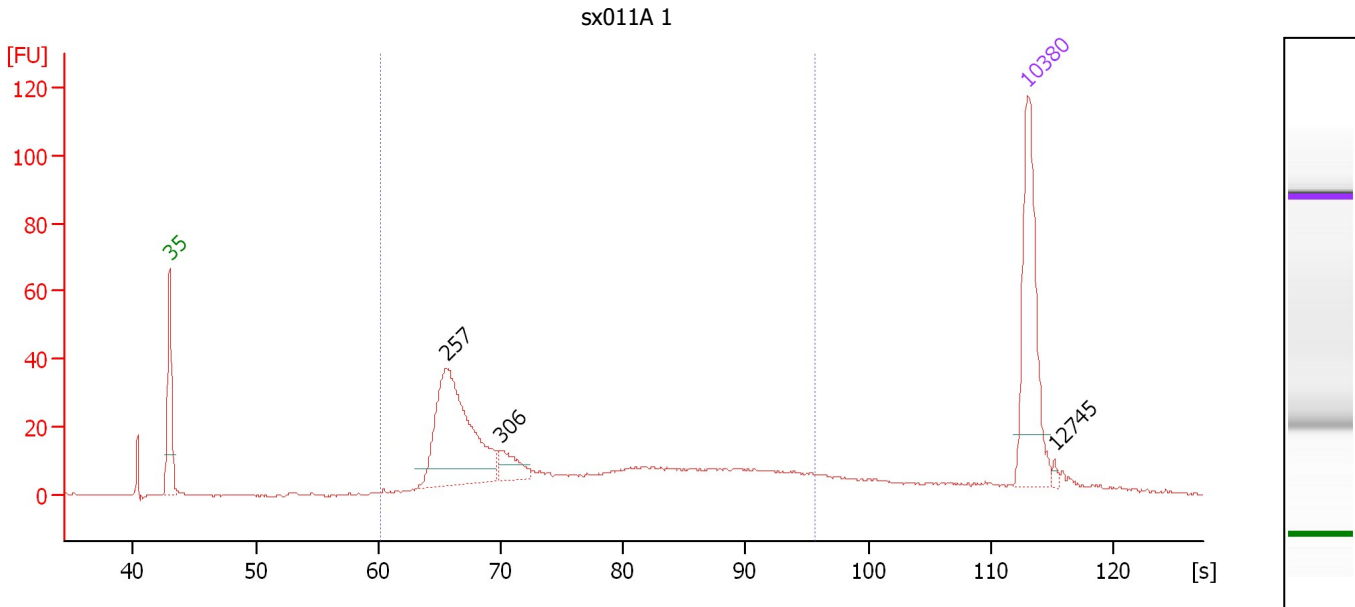
Region table for sample 6 : dripC lib index 27

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
60.27	95.65	411	598.9	137.36	84.4	67	39.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sx011A 1

Number of peaks found: 3 Corr. Area 1: 455.6
 Noise: 0.3

Peak table for sample 7 : sx011A 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	257	171.97	1,013.5	
3	306	20.21	100.1	
4	10,380	75.00	10.9	Upper Marker
5	12,745	0.00	0.0	

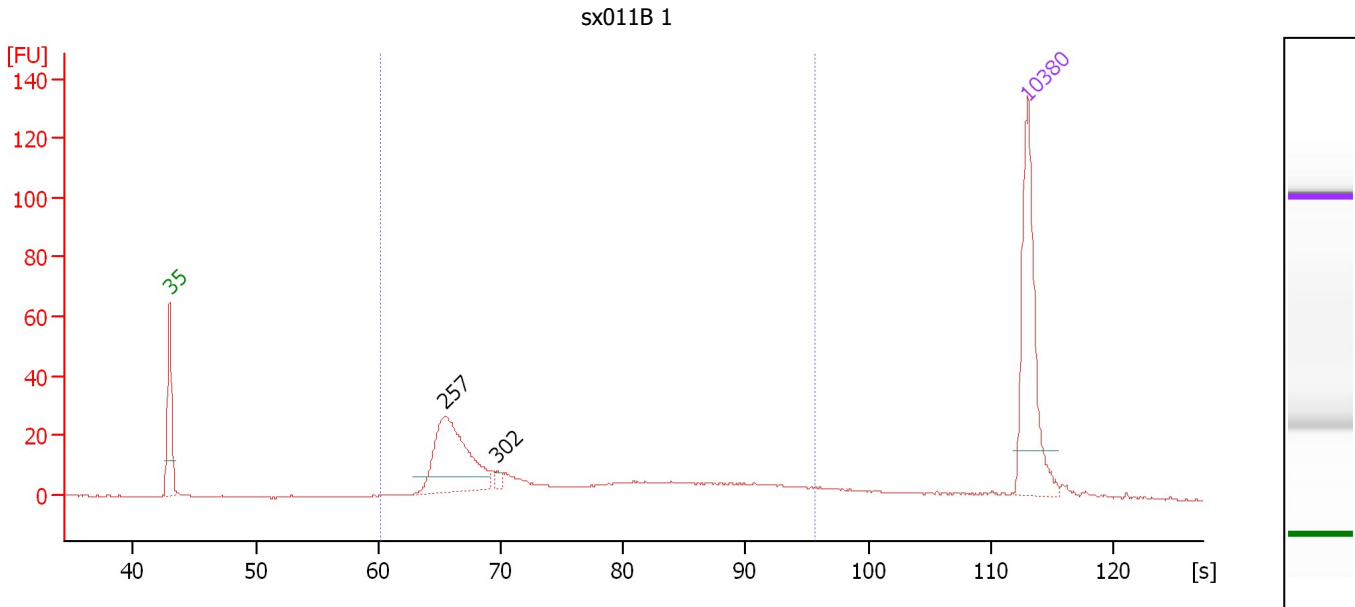
Region table for sample 7 : sx011A 1

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
60.27	95.65	411	1,759.8	385.35	455.6	82	44.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sx011B 1

Number of peaks found: 2 Corr. Area 1: 311.5
 Noise: 0.2

Peak table for sample 8 : sx011B 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	257	110.22	650.7	
3	302	4.49	22.5	
4	10,380	75.00	10.9	Upper Marker

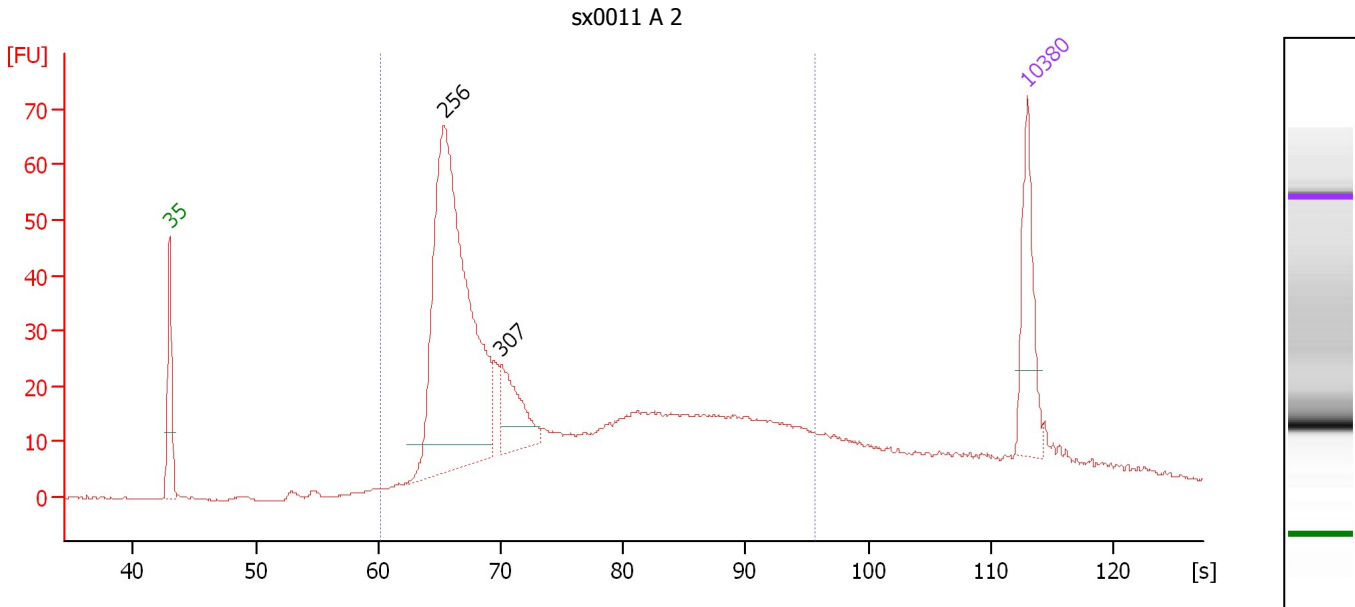
Region table for sample 8 : sx011B 1

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
60.27	95.65	404	1,130.1	244.14	311.5 86	43.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sx0011 A 2

Number of peaks found: 2 Corr. Area 1: 789.6
 Noise: 0.2

Peak table for sample 9 : sx0011 A 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	256	666.75	3,947.5	
3	307	83.42	411.8	
4	10,380	75.00	10.9	Upper Marker

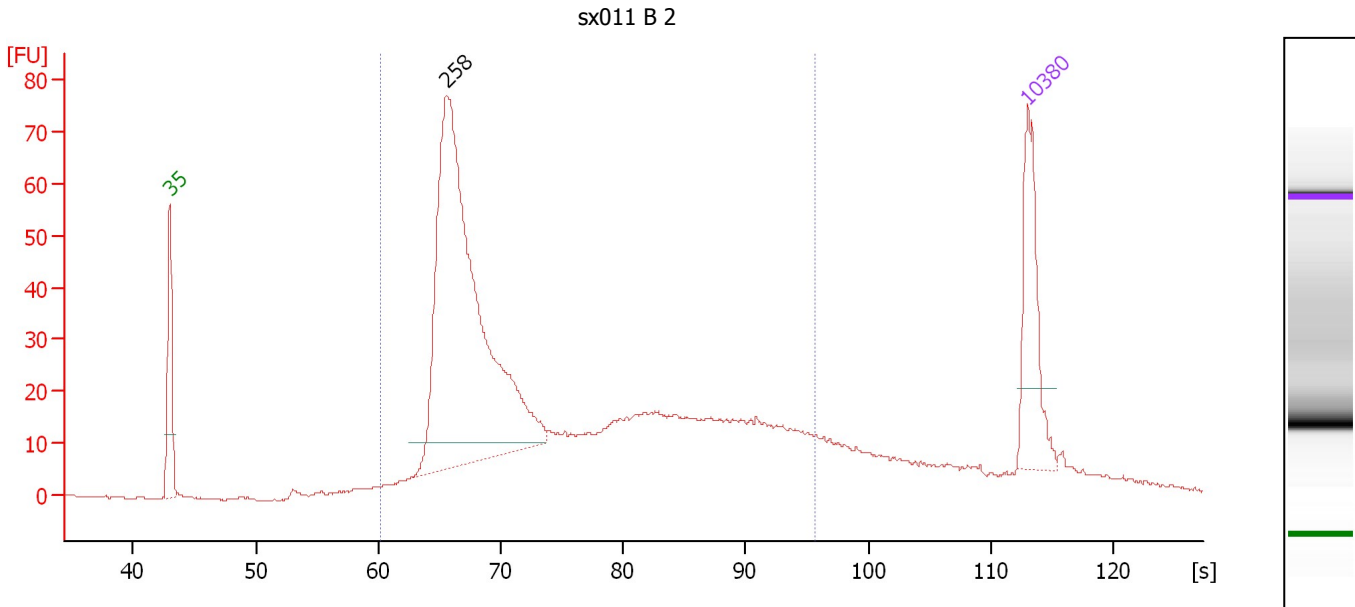
Region table for sample 9 : sx0011 A 2

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
60.27	95.65	409	6,785.0	1,478.59	789.6 85	43.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sx011 B 2

Number of peaks found: 1 Corr. Area 1: 904.0
 Noise: 0.2

Peak table for sample 10 : sx011 B 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	258	656.67	3,862.9	
3	10,380	75.00	10.9	Upper Marker

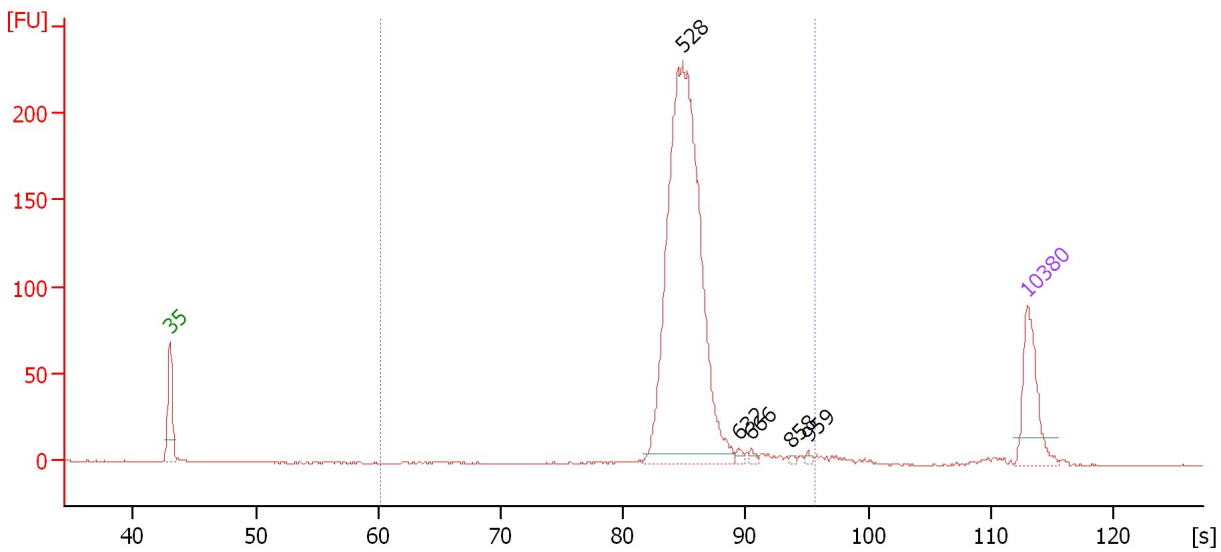
Region table for sample 10 : sx011 B 2

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
60.27	95.65	408	5,705.1	1,244.02	904.0	86	43.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 :

Number of peaks found: 5 Corr. Area 1: 923.8
 Noise: 0.2

Peak table for sample 11 :

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	528	819.68	2,350.1	
3	632	5.44	13.1	
4	666	5.28	12.0	
5	858	2.65	4.7	
6	959	3.44	5.4	
7	10,380	75.00	10.9	Upper Marker

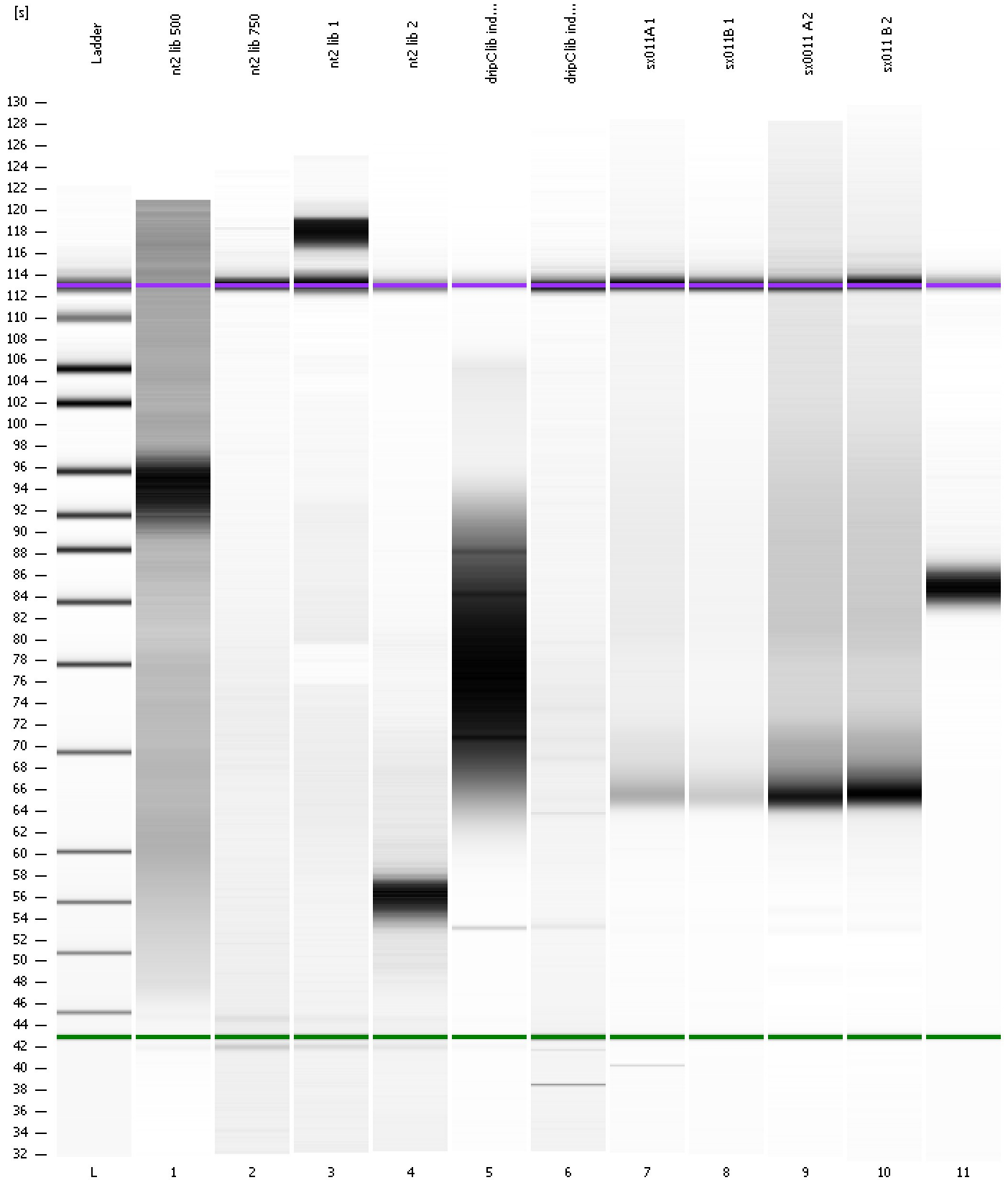
Region table for sample 11 :

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
60.27	95.65	542	2,402.9	851.88	923.8	97	10.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
Modified: 5/14/2013 11:25:37 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad

Created: 5/14/2013 10:44:15 AM
 Modified: 5/14/2013 11:25:37 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		5/14/2013 11:25:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-14\2013-05-14_002.xad)		Instrument	Run		5/14/2013 10:44:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/14/2013 10:44:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/14/2013 10:44:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/14/2013 10:44:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/14/2013 10:44:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/14/2013 10:44:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/14/2013 10:44:20 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1