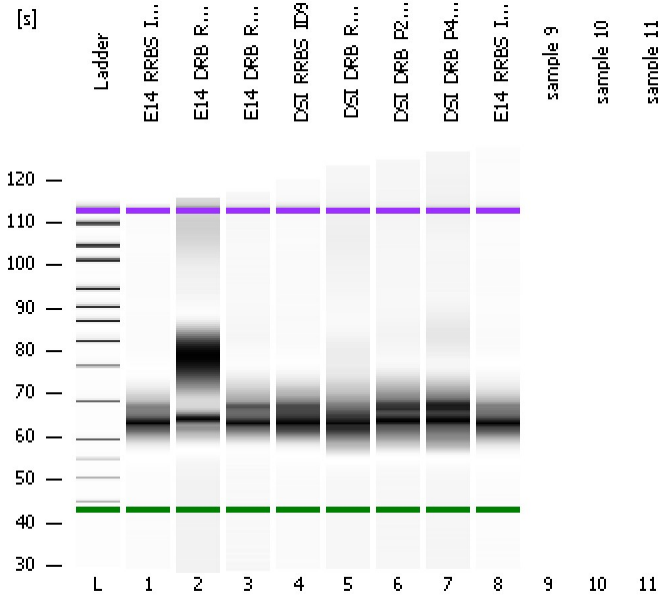


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
Modified: 11/1/2013 10:48:45 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

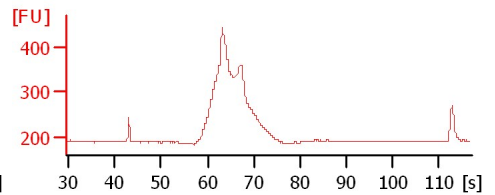
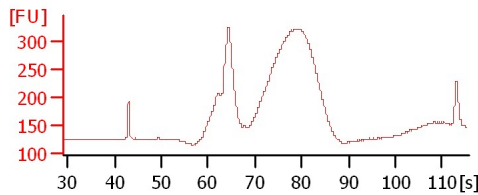
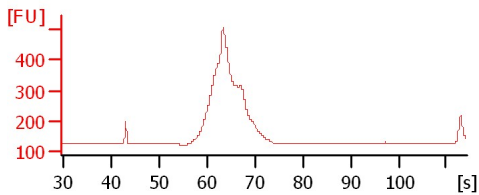
Chip Information:

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

E14\_RRBS\_ID2

E14\_DRB\_RRBS\_ID3

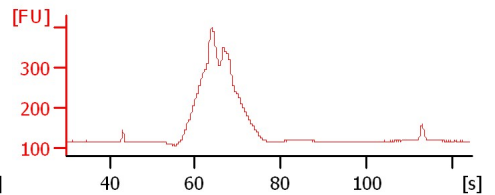
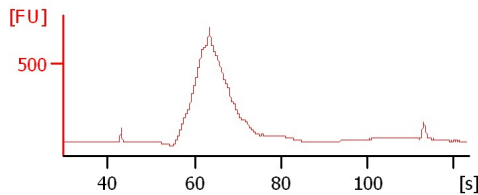
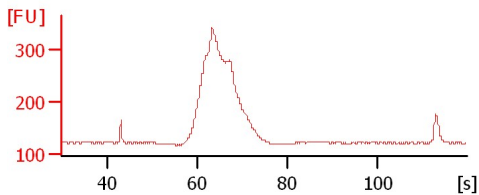
E14\_DRB\_RRBS\_ID5



DSI\_RRBS\_ID9

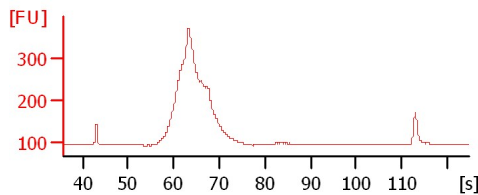
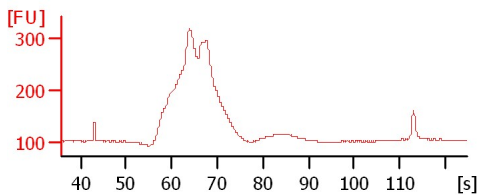
DSI\_DRB\_RRBS\_ID12

DSI\_DRB\_P2H\_RRBS\_ID4



DSI\_DRB\_P4H\_RRBS\_ID6

E14\_RRBS\_ID2



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
Modified: 11/1/2013 10:48:45 AM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
E14_RRBS_ID2		<input type="checkbox"/>	✓			
E14_DRB_RRBS_ID3		<input type="checkbox"/>	✓			
E14_DRB_RRBS_ID5		<input type="checkbox"/>	✓			
DSI_RRBS_ID9		<input type="checkbox"/>	✓			
DSI_DRB_RRBS_ID12		<input type="checkbox"/>	✓			
DSI_DRB_P2H_RRBS_ID4		<input type="checkbox"/>	✓			
DSI_DRB_P4H_RRBS_ID6		<input type="checkbox"/>	✓			
E14_RRBS_ID2		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<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\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
Modified: 11/1/2013 10:48:45 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

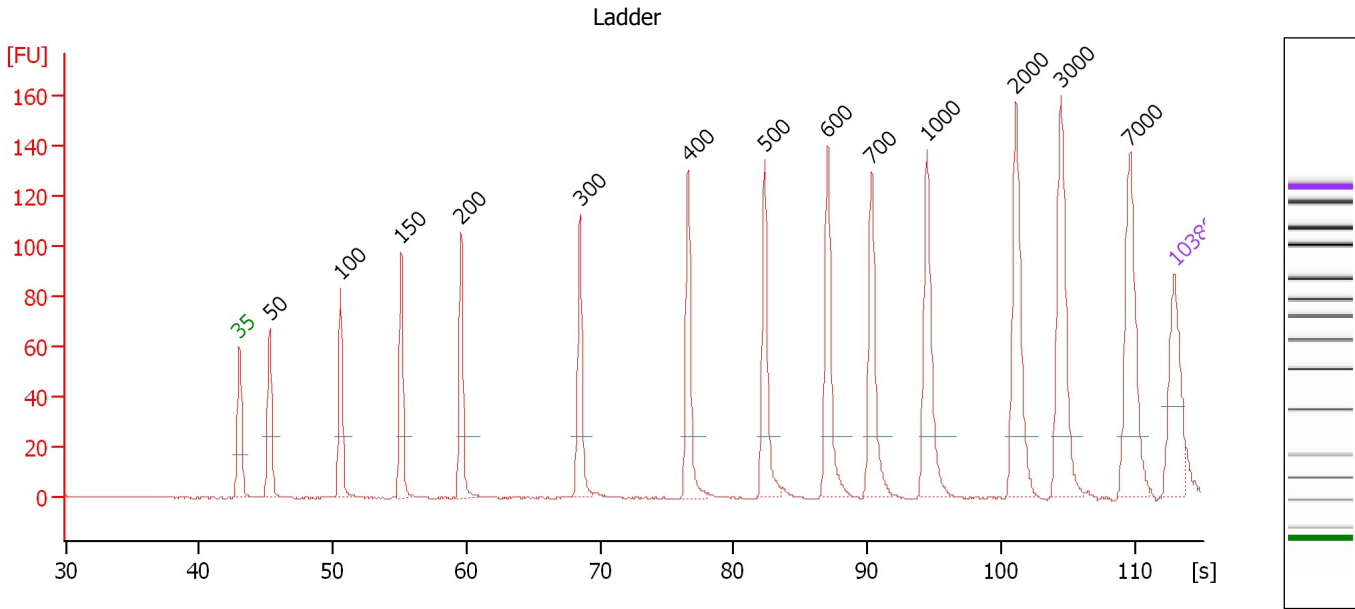
**Ladder**

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\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
 Modified: 11/1/2013 10:48:45 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

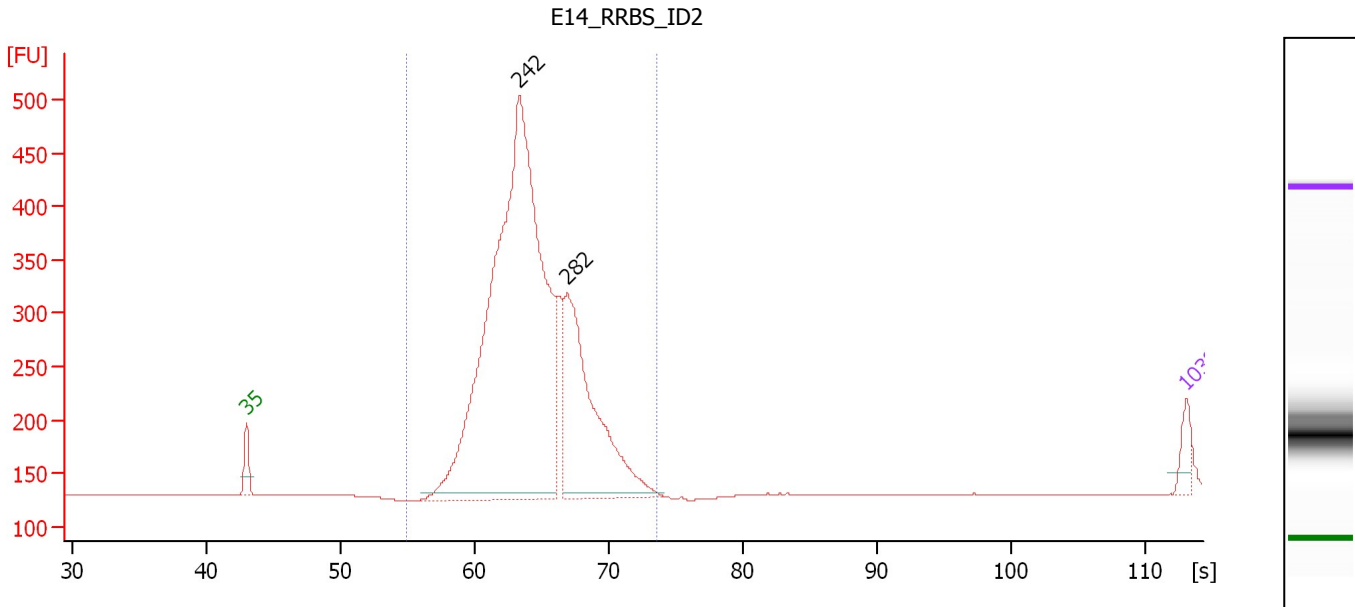
**Peak table for Ladder**

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\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
 Modified: 11/1/2013 10:48:45 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : E14\_RRBS\_ID2**

Number of peaks found: 2                      Corr. Area 1: 3,303.7  
 Noise: 0.1

**Peak table for sample 1 : E14\_RRBS\_ID2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	242	5,616.80	35,195.0	
3	282	1,616.55	8,675.7	
4	10,380	75.00	10.9	Upper Marker

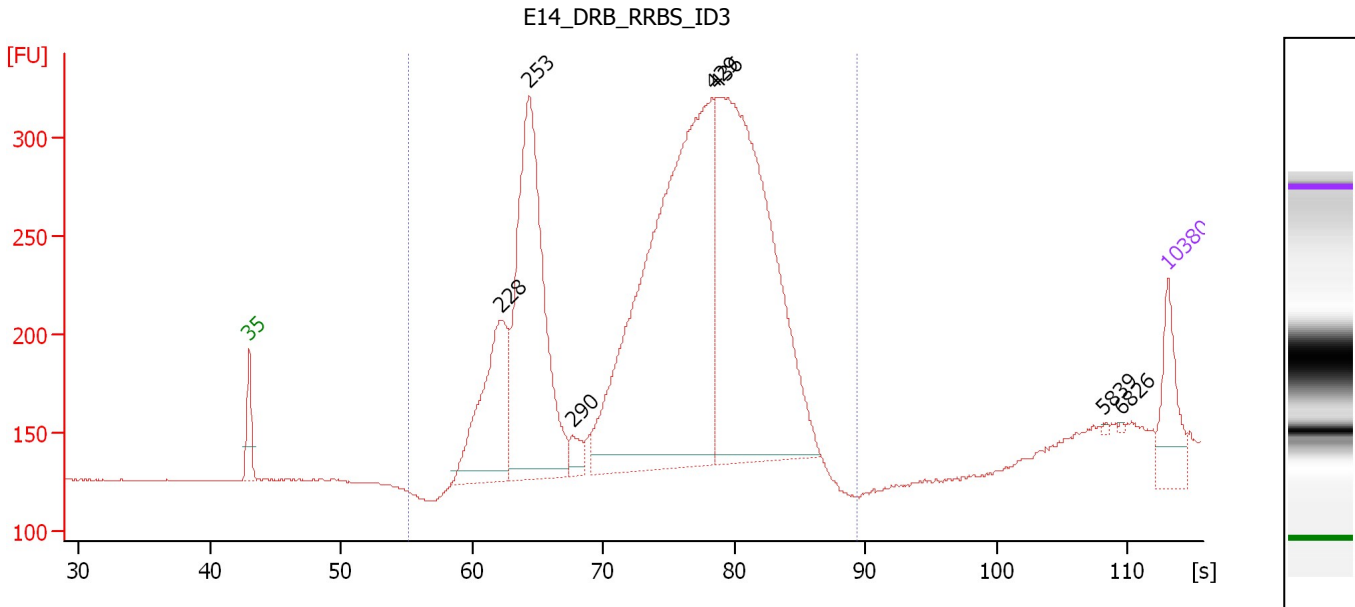
**Region table for sample 1 : E14\_RRBS\_ID2**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
54.92	73.61	252	41,009.7	6,745.02	3,303.7 100	12.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
 Modified: 11/1/2013 10:48:45 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : E14 DRB RRBS ID3**

Number of peaks found: 7                      Corr. Area 1: 3,563.5  
 Noise: 0.2

**Peak table for sample 2 : E14 DRB RRBS ID3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	228	325.47	2,160.4	
3	253	747.63	4,474.8	
4	290	33.26	173.5	
5	429	1,173.76	4,142.5	
6	436	1,022.10	3,553.8	
7	5,839	1.78	0.5	
8	6,826	1.41	0.3	
9	10,380	75.00	10.9	Upper Marker

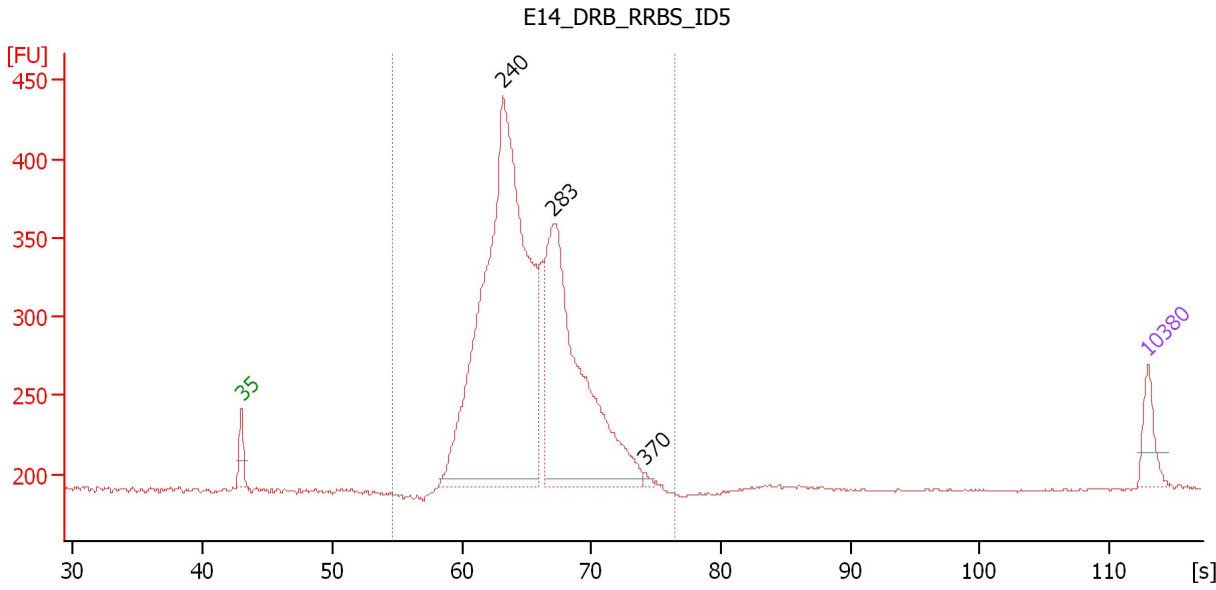
**Region table for sample 2 : E14 DRB RRBS ID3**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
55.23	89.36	386	13,906.2	3,162.29	3,563.5 98	24.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
 Modified: 11/1/2013 10:48:45 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : E14 DRB RRBS ID5**

Number of peaks found: 3                      Corr. Area 1: 2,490.9  
 Noise: 0.8

**Peak table for sample 3 : E14 DRB RRBS ID5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	240	2,905.88	18,314.4	
3	283	1,495.63	7,997.8	
4	370	13.09	53.6	
5	10,380	75.00	10.9	Upper Marker

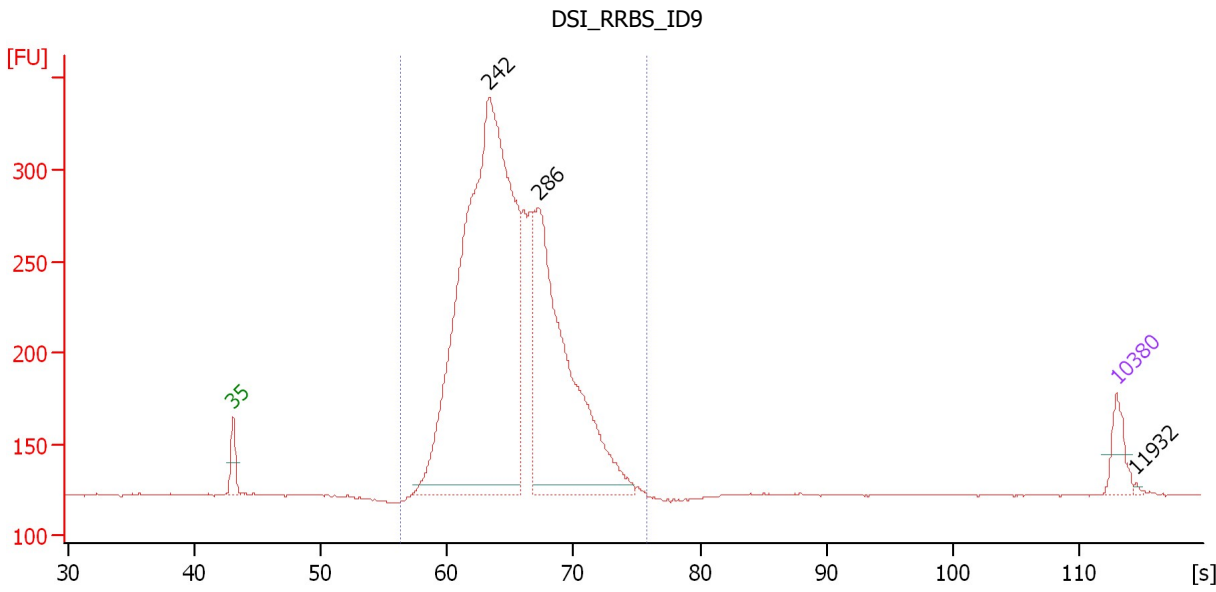
**Region table for sample 3 : E14 DRB RRBS ID5**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
54.65	76.53	264	26,469.8	4,534.08	2,490.9 100	14.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
 Modified: 11/1/2013 10:48:45 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : DSI\_RRBS\_ID9**

Number of peaks found: 3                      Corr. Area 1: 2,684.4  
 Noise: 0.5

**Peak table for sample 4 : DSI\_RRBS\_ID9**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	242	3,702.76	23,225.5	
3	286	1,673.53	8,877.9	
4	10,380	75.00	10.9	Upper Marker
5	11,932	0.00	0.0	

**Region table for sample 4 : DSI\_RRBS\_ID9**

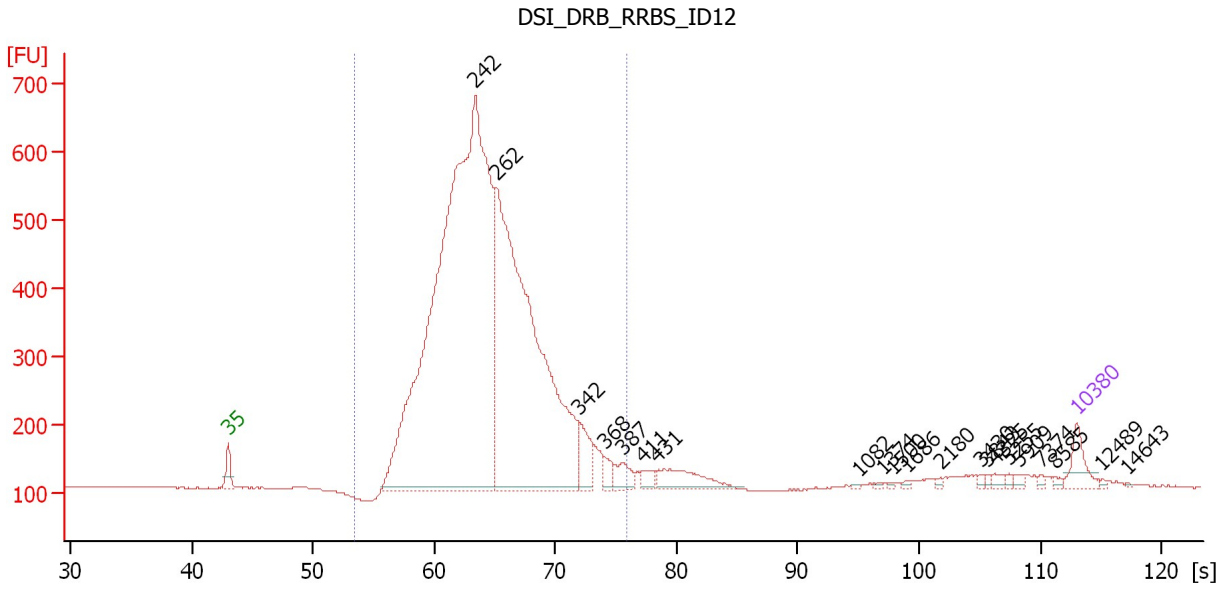
From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution CV [%]	Color
56.31	75.81	262	34,355.4	5,828.48	2,684.4 99	14.7	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
 Modified: 11/1/2013 10:48:45 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : DSI DRB RRBS ID12**

Number of peaks found: 21                      Corr. Area 1: 7,405.2  
 Noise: 0.2

**Peak table for sample 5 : DSI DRB RRBS ID12**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	242	5,584.35	34,894.6	
3	262	3,209.54	18,566.4	
4	342	158.51	701.5	
5	368	54.10	222.8	
6	387	83.32	326.6	
7	411	44.87	165.4	
8	431	173.80	611.7	
9	1,082	4.34	6.1	
10	1,374	5.65	6.2	
11	1,500	5.38	5.4	
12	1,686	7.53	6.8	
13	2,180	6.59	4.6	
14	3,430	8.34	3.7	
15	3,843	8.44	3.3	
16	4,325	17.72	6.2	
17	5,255	9.03	2.6	
18	5,909	13.85	3.6	
19	7,374	8.43	1.7	
20	8,585	9.46	1.7	
21	10,380	75.00	10.9	Upper Marker
22	12,489	0.00	0.0	
23	14,643	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
Modified: 11/1/2013 10:48:45 AM

**Electropherogram Summary Continued ...**

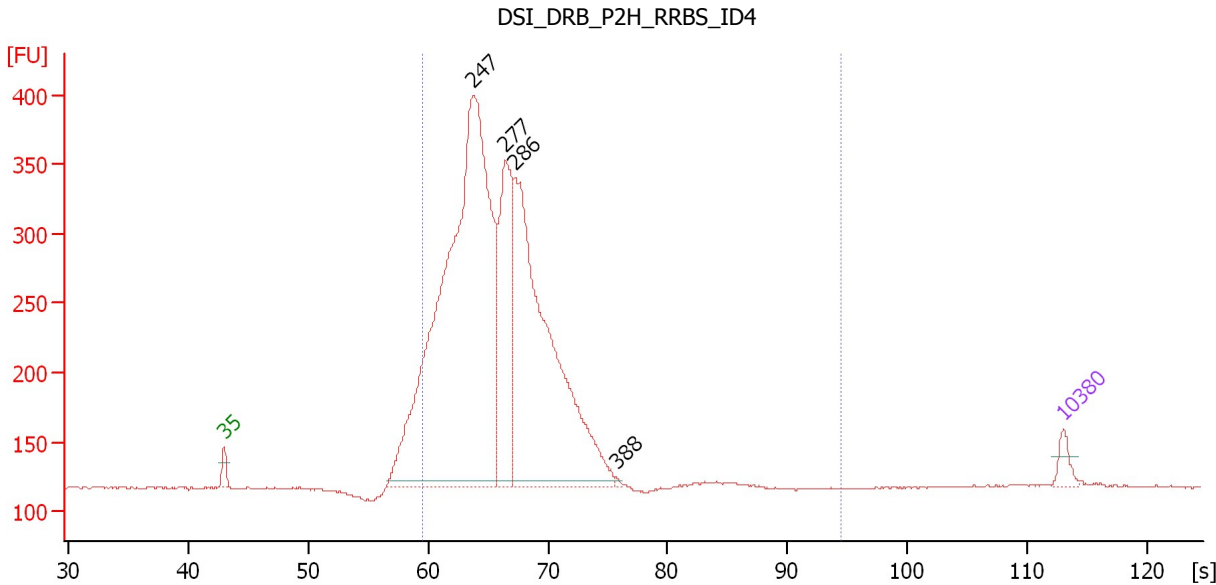
... Region table for sample 5 : DSI DRB RRBS ID12

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Corr. Area % of Total	Size distribution in CV [%]	Color
53.48	75.91	255	55,747.3	9,054.45	7,405.2 94	17.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
 Modified: 11/1/2013 10:48:45 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : DSI DRB P2H RRBS ID4**

Number of peaks found: 4                      Corr. Area 1: 3,507.5  
 Noise: 0.6

**Peak table for sample 6 : DSI DRB P2H RRBS ID4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	247	6,638.93	40,668.4	
3	277	1,404.77	7,682.2	
4	286	3,657.61	19,368.5	
5	388	10.74	41.9	
6	10,380	75.00	10.9	Upper Marker

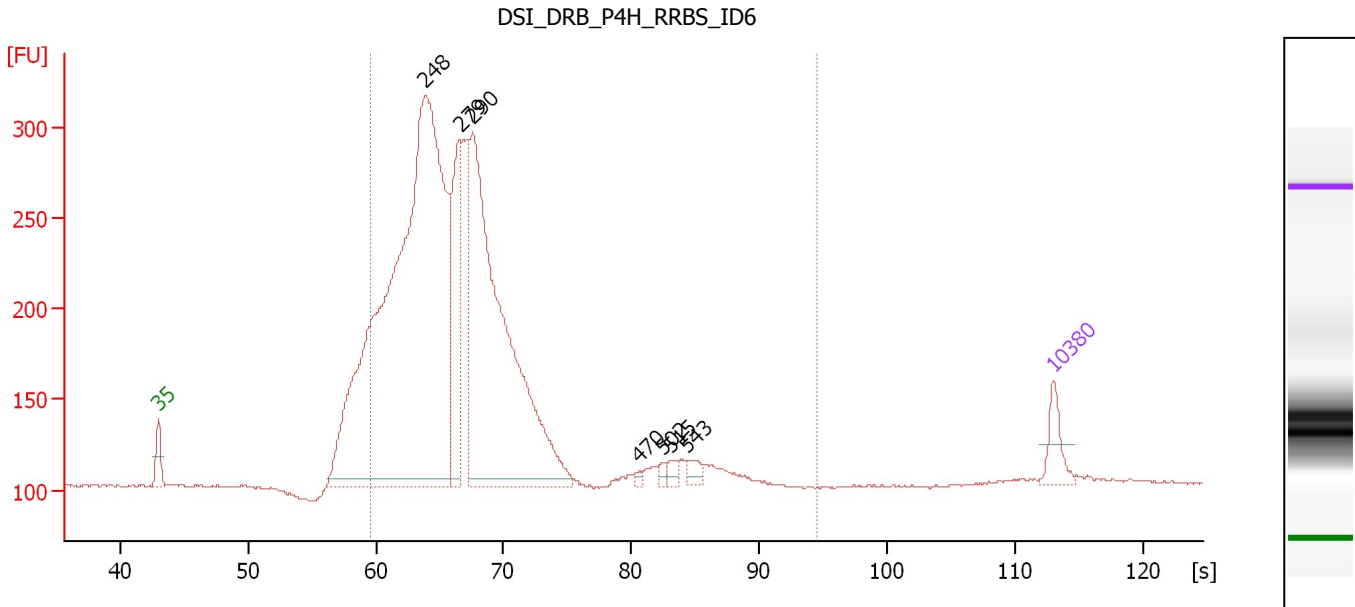
**Region table for sample 6 : DSI DRB P2H RRBS ID4**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.61	94.46	273	62,892.2	11,060.69	3,507.5 94	17.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
 Modified: 11/1/2013 10:48:45 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : DSI DRB P4H RRBS ID6**

Number of peaks found: 7                      Corr. Area 1: 2,855.7  
 Noise: 0.6

**Peak table for sample 7 : DSI DRB P4H RRBS ID6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	248	4,057.11	24,764.9	
3	279	531.63	2,890.8	
4	290	2,049.71	10,709.7	
5	470	11.32	36.5	
6	502	19.07	57.6	
7	515	29.54	86.9	
8	543	39.41	109.9	
9	10,380	75.00	10.9	Upper Marker

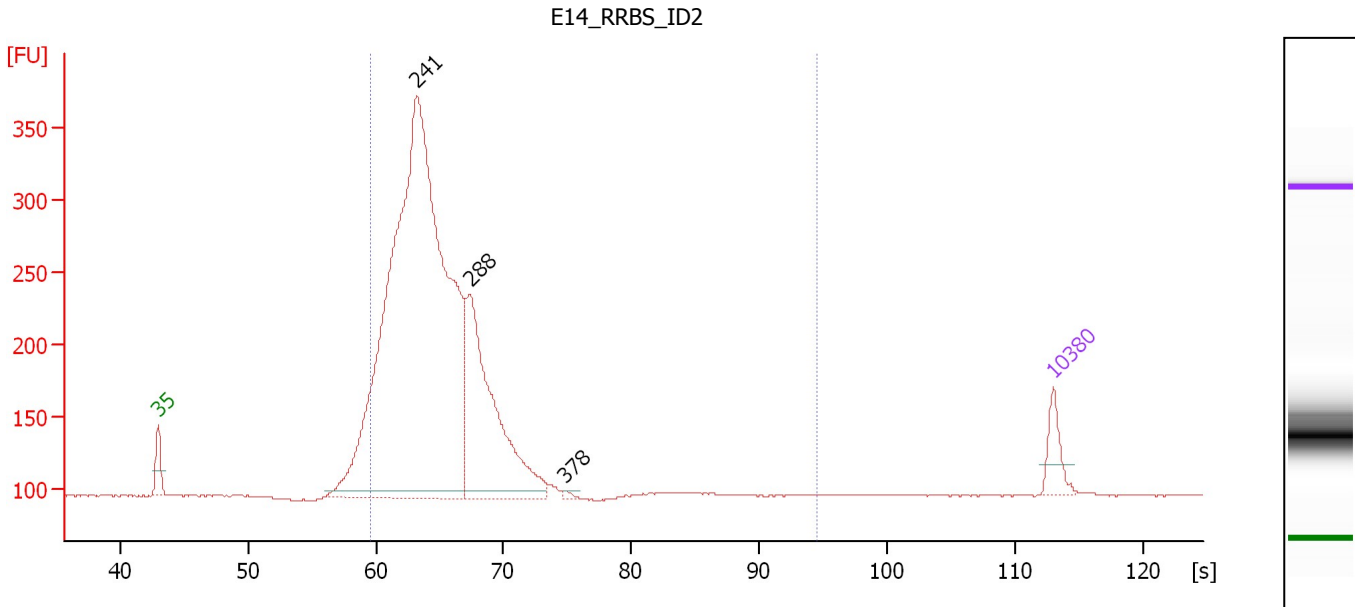
**Region table for sample 7 : DSI DRB P4H RRBS ID6**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.61	94.46	283	36,566.2	6,518.40	2,855.7 91	25.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
 Modified: 11/1/2013 10:48:45 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : E14\_RRBS\_ID2**

Number of peaks found: 3                      Corr. Area 1: 2,582.5  
 Noise: 0.3

**Peak table for sample 8 : E14\_RRBS\_ID2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	241	4,038.57	25,426.3	
3	288	934.07	4,922.3	
4	378	8.33	33.4	
5	10,380	75.00	10.9	Upper Marker

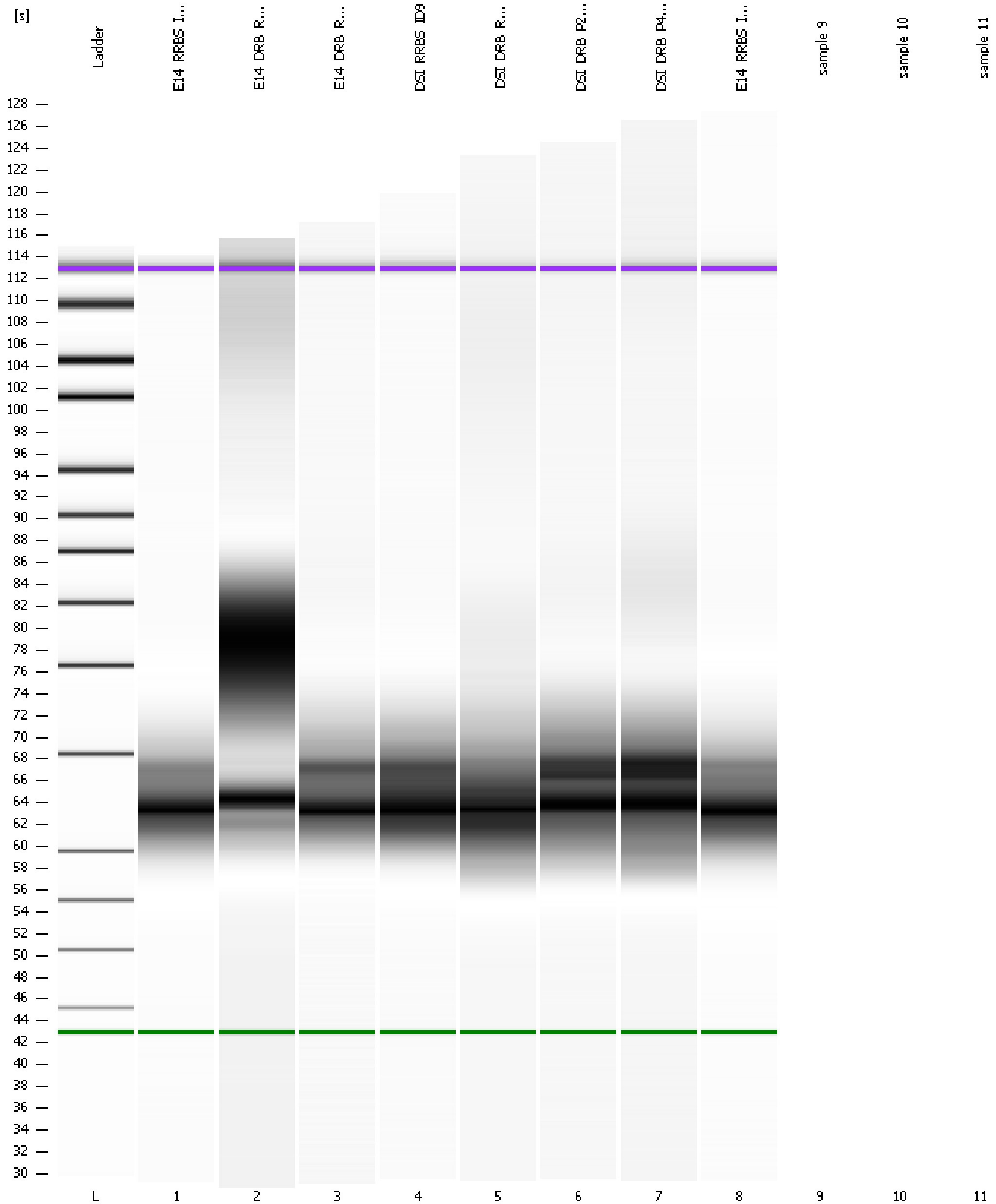
**Region table for sample 8 : E14\_RRBS\_ID2**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.61	94.46	258	27,546.5	4,623.68	2,582.5 95	15.3	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
Modified: 11/1/2013 10:48:45 AM

Gel Image



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-01\2013-11-01\_002.xad

Created: 11/1/2013 10:15:27 AM  
Modified: 11/1/2013 10:48:45 AM

**Invalid Samples**

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.