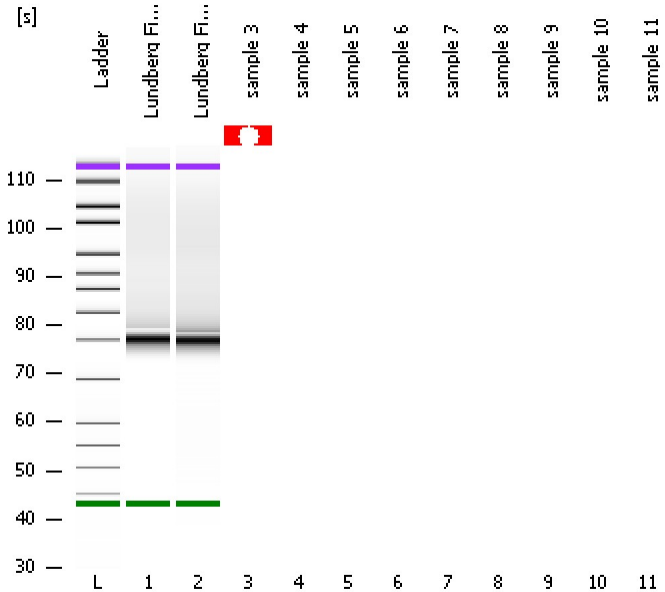


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-31\2013-10-31_003.xad

Created: 10/31/2013 11:13:14 AM
Modified: 10/31/2013 11:30:16 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

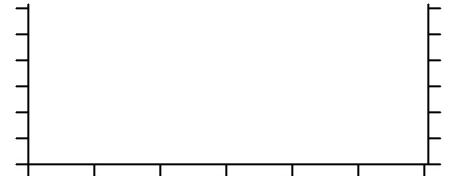
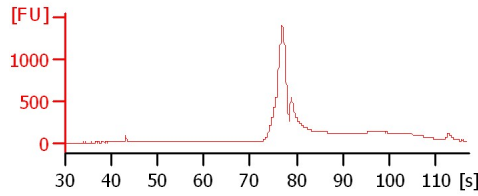
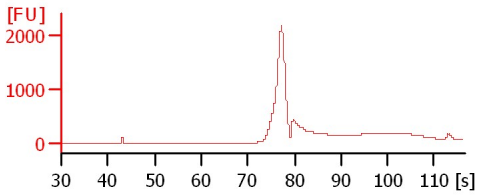
Chip Information:

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

Lundberg Final 2-1

Lundberg Final 2-2

sample 3



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-31\2013-10-31_003.xad

Created: 10/31/2013 11:13:14 AM
Modified: 10/31/2013 11:30:16 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Lundberg Final 2-1		<input type="checkbox"/>	✓			
Lundberg Final 2-2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✗			
sample 4		<input type="checkbox"/>	✗			
sample 5		<input type="checkbox"/>	✗			
sample 6		<input type="checkbox"/>	✗			
sample 7		<input type="checkbox"/>	✗			
sample 8		<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\2013-10-31\2013-10-31_003.xad

Created: 10/31/2013 11:13:14 AM
Modified: 10/31/2013 11:30:16 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

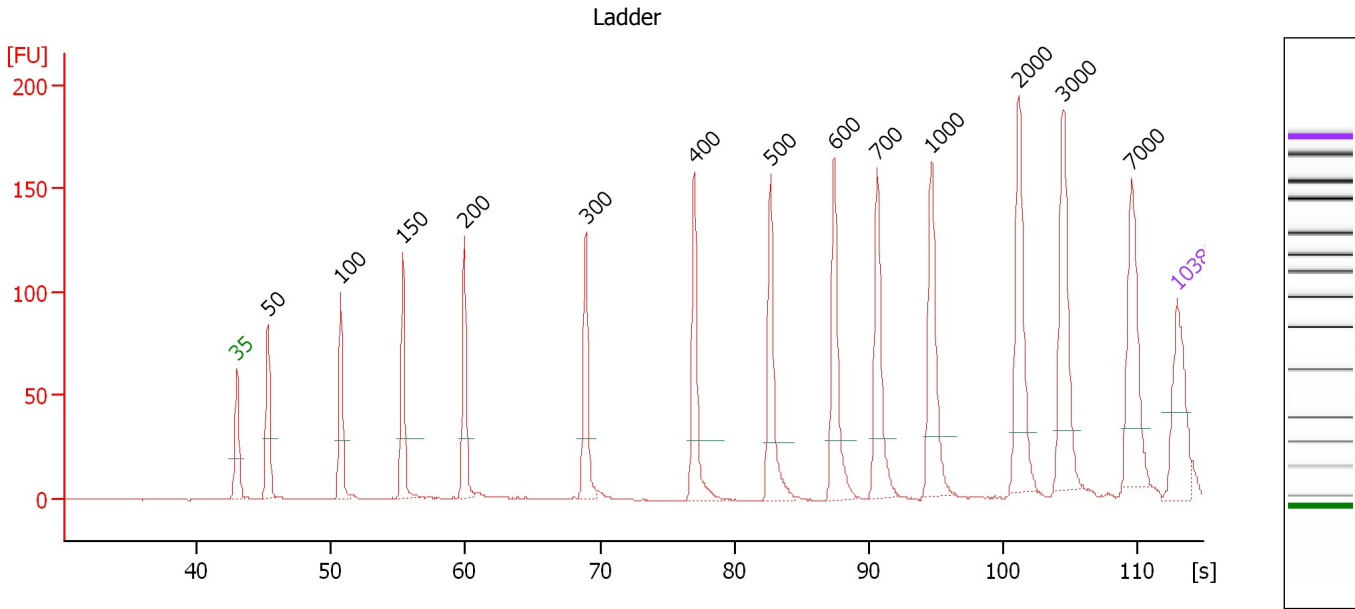
Ladder

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\2013-10-31\2013-10-31_003.xad

Created: 10/31/2013 11:13:14 AM
 Modified: 10/31/2013 11:30:16 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

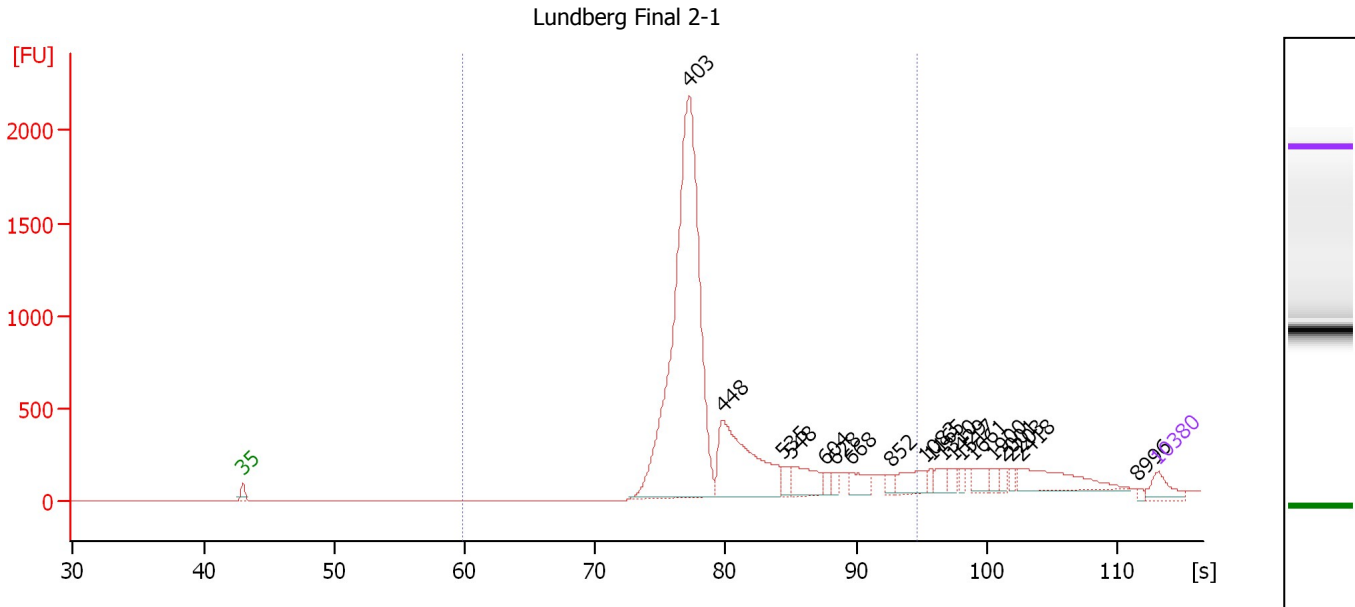
Peak table for Ladder

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\2013-10-31\2013-10-31_003.xad

Created: 10/31/2013 11:13:14 AM
 Modified: 10/31/2013 11:30:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Lundberg Final 2-1

Number of peaks found: 19 Corr. Area 1: 9,675.9
 Noise: 0.2

Peak table for sample 1 : Lundberg Final 2-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	403	2,766.94	10,407.2	
3	448	689.08	2,329.1	
4	535	54.91	155.6	
5	548	172.62	476.9	
6	604	28.68	71.9	
7	628	28.60	69.0	
8	668	76.96	174.6	
9	852	29.60	52.7	
10	1,083	104.62	146.3	
11	1,165	24.48	31.8	
12	1,310	49.09	56.8	
13	1,429	35.58	37.7	
14	1,517	23.75	23.7	
15	1,661	56.60	51.6	
16	1,900	32.01	25.5	
17	2,001	23.38	17.7	
18	2,203	19.99	13.7	
19	2,418	192.58	120.7	
20	8,996	10.64	1.8	
21	10,380	75.00	10.9	Upper Marker

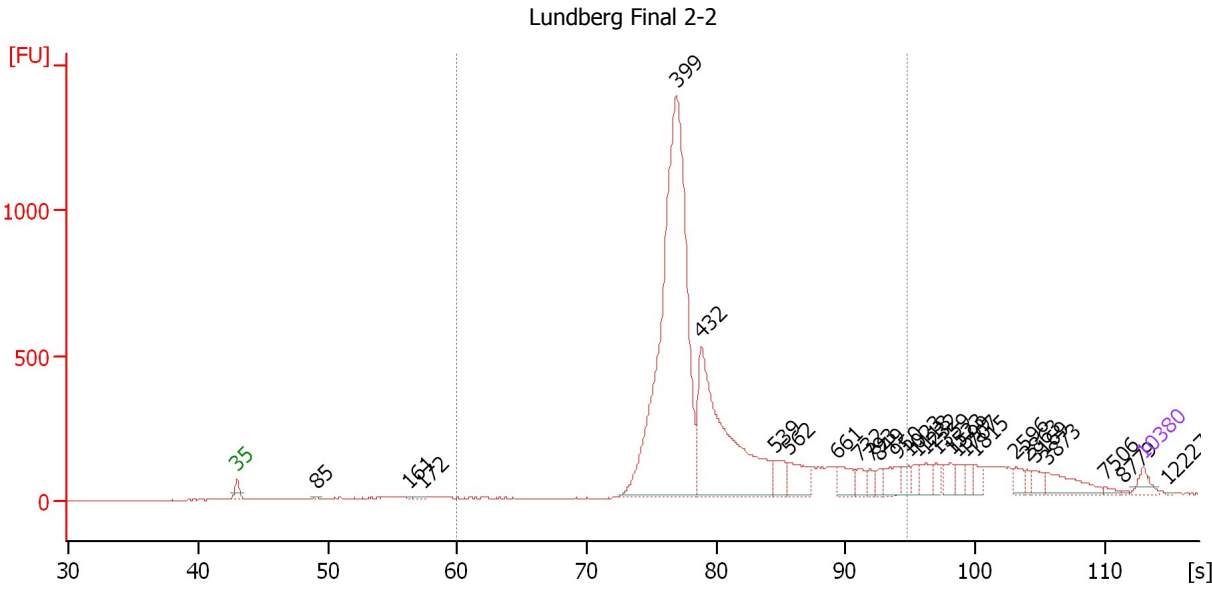
Region table for sample 1 : Lundberg Final 2-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	461	13,692.0	3,929.29	9,675.9	85	26.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-31\2013-10-31_003.xad

Created: 10/31/2013 11:13:14 AM
 Modified: 10/31/2013 11:30:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Lundberg Final 2-2

Number of peaks found: 27 Corr. Area 1: 7,225.1
 Noise: 1.5

Peak table for sample 2 : Lundberg Final 2-2


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	85	12.99	231.9	
3	161	6.81	64.2	
4	172	11.84	104.4	
5	399	5,092.51	19,345.9	
6	432	2,156.40	7,566.7	
7	539	183.64	516.0	
8	562	268.08	723.0	
9	661	175.23	401.9	
10	732	94.80	196.2	
11	793	63.36	121.0	
12	849	70.63	126.1	
13	950	151.74	242.1	
14	1,023	77.39	114.6	
15	1,118	74.07	100.4	
16	1,232	116.47	143.3	
17	1,359	59.02	65.8	
18	1,523	92.59	92.1	
19	1,599	76.19	72.2	
20	1,707	57.41	51.0	
21	1,815	62.18	51.9	
22	2,596	75.84	44.3	
23	2,863	40.24	21.3	
24	3,169	69.83	33.4	
25	3,873	195.56	76.5	
26	7,506	21.97	4.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-31\2013-10-31_003.xad


Created: 10/31/2013 11:13:14 AM
 Modified: 10/31/2013 11:30:16 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : Lundberg Final 2-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	8,779	6.83	1.2	
28	 10,380	75.00	10.9	Upper Marker
29	12,227	0.00	0.0	

Region table for sample 2 : Lundberg Final 2-2

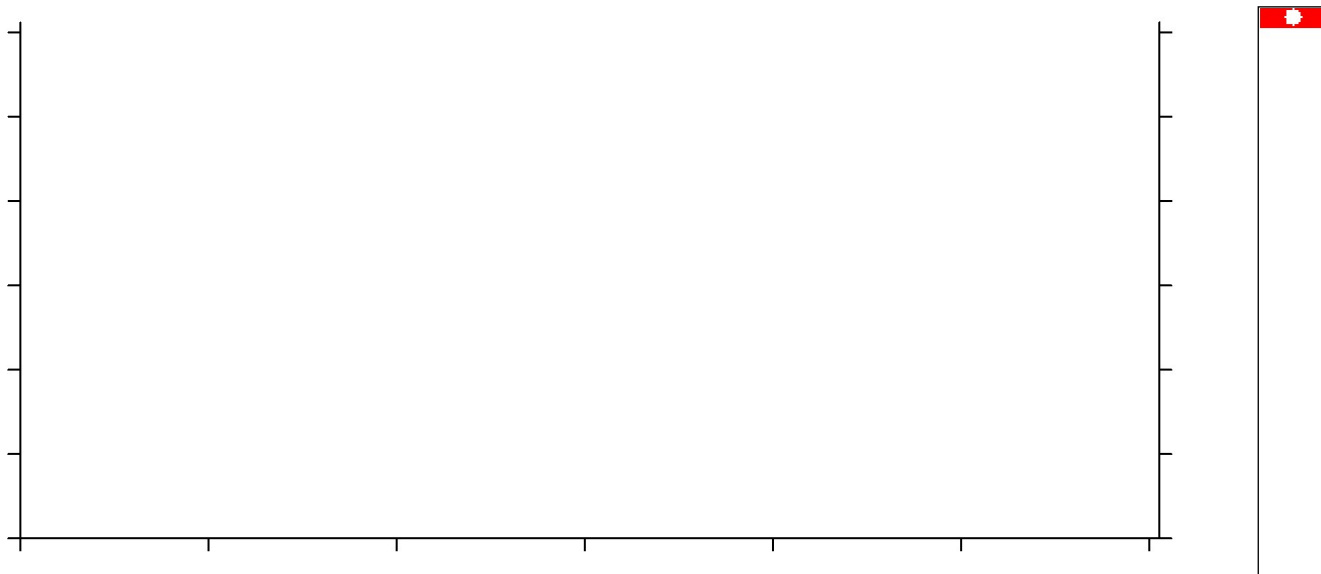
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	467	29,562.2	8,542.60	7,225.1	83	27.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-31\2013-10-31_003.xad

Created: 10/31/2013 11:13:14 AM
Modified: 10/31/2013 11:30:16 AM

Electropherogram Summary Continued ...

sample 3



Setpoint Deviations for sample 3 : sample 3

End Analysis Time Range [s] : 9.400001

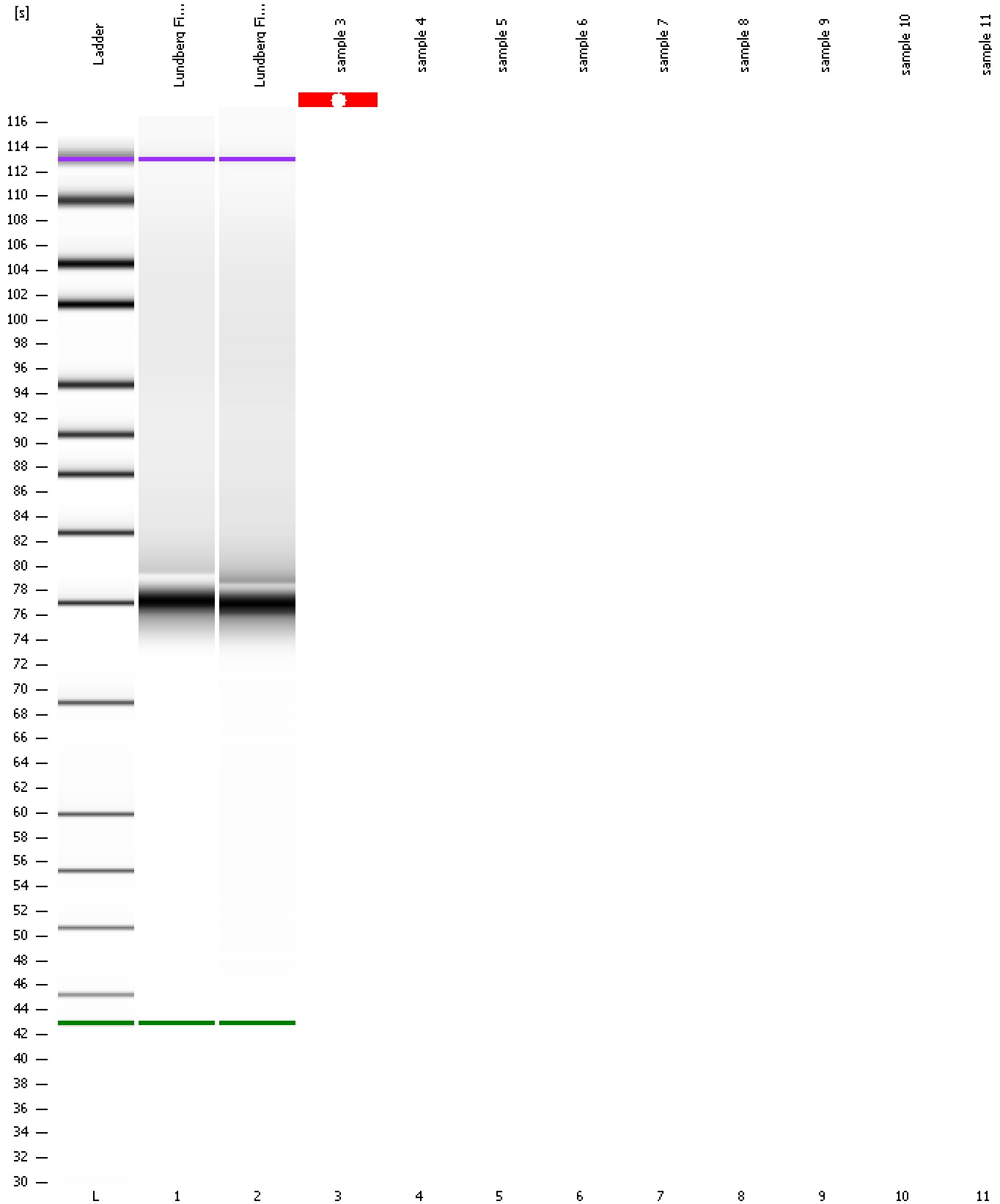
Overall Results for sample 3 : sample 3

Noise: 2.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-31\2013-10-31_003.xad

Created: 10/31/2013 11:13:14 AM
Modified: 10/31/2013 11:30:16 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-31\2013-10-31_003.xad

Created: 10/31/2013 11:13:14 AM
Modified: 10/31/2013 11:30:16 AM

Invalid Samples

Sample 4 has not been run, no results available.

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

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.