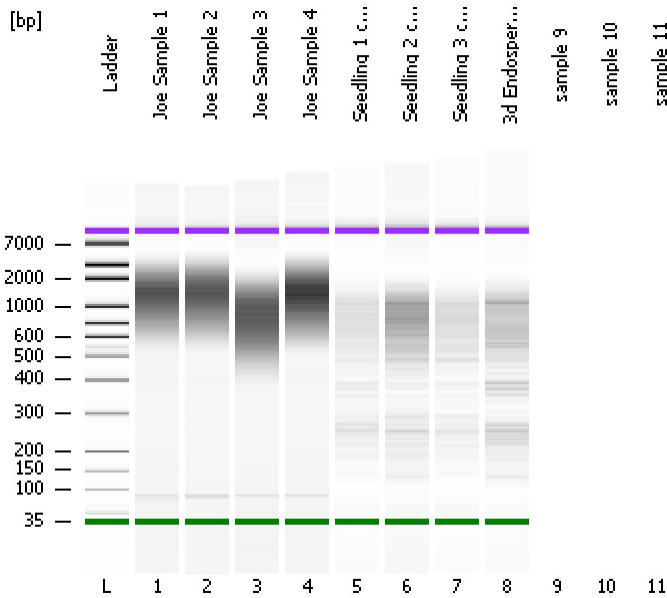


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-06\2014-03-06_006.xad

Created: 3/6/2014 4:33:44 PM
Modified: 3/6/2014 5:07:48 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

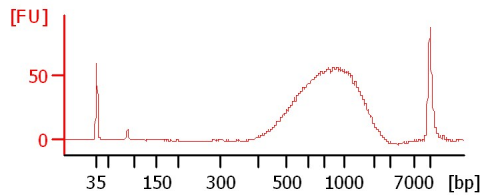
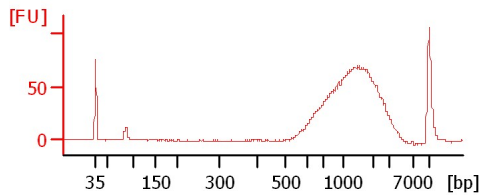
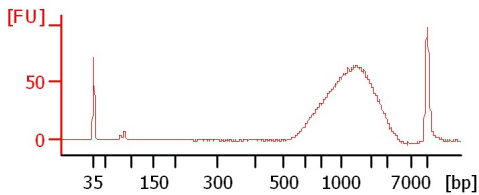
Chip Information:

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

Joe Sample 1

Joe Sample 2

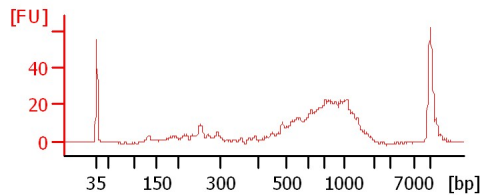
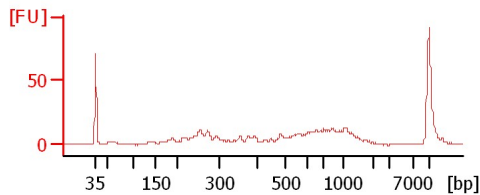
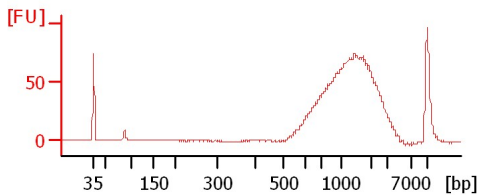
Joe Sample 3



Joe Sample 4

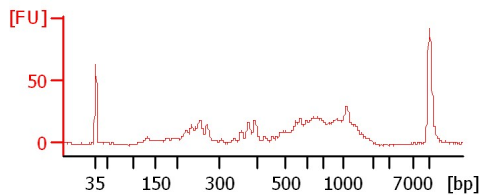
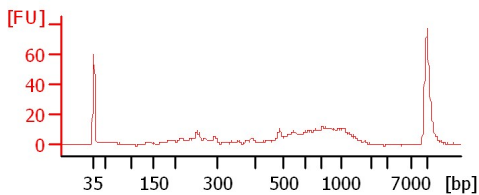
Seedling 1 cDNA

Seedling 2 cDNA



Seedling 3 cDNA

3d Endosperm cDNA



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-06\2014-03-06_006.xad

Created: 3/6/2014 4:33:44 PM
Modified: 3/6/2014 5:07:48 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Joe Sample 1		<input type="checkbox"/>	✓			
Joe Sample 2		<input type="checkbox"/>	✓			
Joe Sample 3		<input type="checkbox"/>	✓			
Joe Sample 4		<input type="checkbox"/>	✓			
Seedling 1 cDNA		<input type="checkbox"/>	✓			
Seedling 2 cDNA		<input type="checkbox"/>	✓			
Seedling 3 cDNA		<input type="checkbox"/>	✓			
3d Endosperm cDNA		<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\2014-03-06\2014-03-06_006.xad

Created: 3/6/2014 4:33:44 PM
Modified: 3/6/2014 5:07:48 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

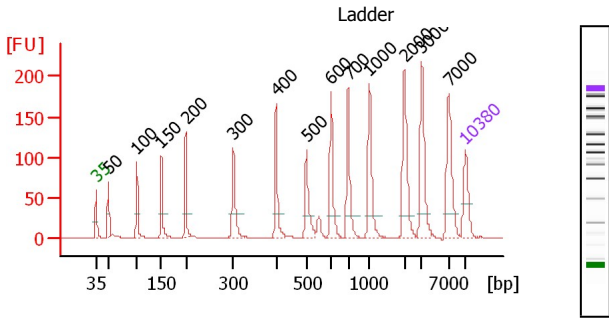
Ladder

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\2014-03-06\2014-03-06_006.xad

Created: 3/6/2014 4:33:44 PM
 Modified: 3/6/2014 5:07:48 PM

Electropherogram Summary



Peak table for Ladder

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.30	50	150.00	4,545.5	Ladder Peak
3	50.72	100	150.00	2,272.7	Ladder Peak
4	55.36	150	150.00	1,515.2	Ladder Peak
5	59.95	200	150.00	1,136.4	Ladder Peak
6	69.00	300	150.00	757.6	Ladder Peak
7	77.12	400	150.00	568.2	Ladder Peak
8	82.85	500	150.00	454.5	Ladder Peak
9	87.53	600	150.00	378.8	Ladder Peak
10	90.76	700	150.00	324.7	Ladder Peak
11	94.82	1,000	150.00	227.3	Ladder Peak
12	101.39	2,000	150.00	113.6	Ladder Peak
13	104.75	3,000	150.00	75.8	Ladder Peak

Overall Results for Ladder

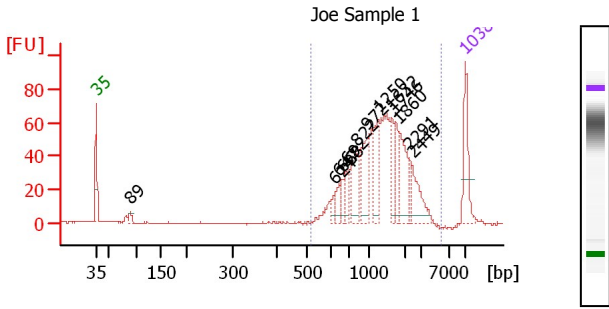
Noise: 0.1

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
14	109.91	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-06\2014-03-06_006.xad

Created: 3/6/2014 4:33:44 PM
 Modified: 3/6/2014 5:07:48 PM

Electropherogram Summary Continued ...



Peak table for sample 1 : **Joe Sample 1**

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	49.48	89	14.93	255.4	
3	88.30	624	17.64	42.8	
4	89.05	647	22.48	52.7	
5	89.71	668	25.48	57.8	
6	90.50	692	31.75	69.5	
7	92.40	822	68.96	127.2	
8	94.43	972	73.60	114.8	
9	96.46	1,250	76.11	92.3	
10	98.97	1,632	48.71	45.2	
11	99.72	1,746	42.45	36.8	
12	100.47	1,860	82.02	66.8	
13	102.37	2,291	19.61	13.0	
14	102.90	2,449	59.81	37.0	
15	113.00	10,380	75.00	10.9	Upper Marker

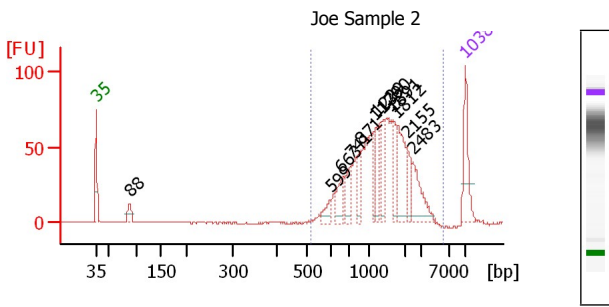
Overall Results for sample 1 : Joe Sample 1

Number of peaks found: 13
 Noise: 0.2
 Corr. Area 1: 816.8

Region table for sample 1 : Joe Sample 1

From To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Size distribution Total in CV [%]
521	5,849	1,421	1,127.1	837.92	816.8 97 46.4

521 5,849 1,421 1,127.1 837.92 816.8 97 46.4



Peak table for sample 2 : **Joe Sample 2**

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	49.38	88	35.10	606.9	
3	87.48	599	26.85	67.9	
4	89.55	663	39.58	90.5	
5	91.31	741	50.85	104.0	
6	93.07	871	51.07	88.8	
7	95.97	1,176	42.83	55.2	
8	96.32	1,229	36.15	44.5	
9	97.38	1,390	42.88	46.7	
10	99.36	1,691	57.39	51.4	
11	100.15	1,812	88.69	74.2	
12	101.91	2,155	40.68	28.6	
13	103.01	2,483	70.57	43.1	
14	113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 2 : Joe Sample 2

Number of peaks found: 12
 Noise: 0.2
 Corr. Area 1: 914.0

Region table for sample 2 : Joe Sample 2

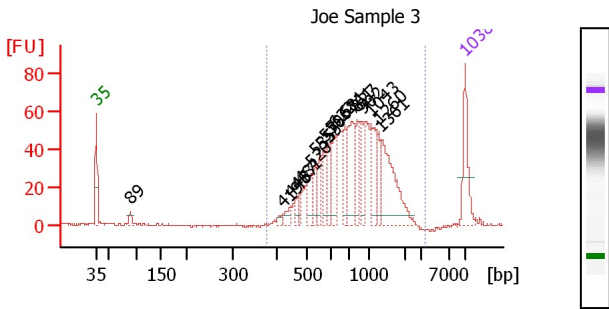
From To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Size distribution Total in CV [%]
521	6,006	1,460	1,137.3	852.20	914.0 97 48.7

521 6,006 1,460 1,137.3 852.20 914.0 97 48.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-06\2014-03-06_006.xad

Created: 3/6/2014 4:33:44 PM
 Modified: 3/6/2014 5:07:48 PM

Electropherogram Summary Continued ...



Peak table for sample 3 : Joe Sample 3

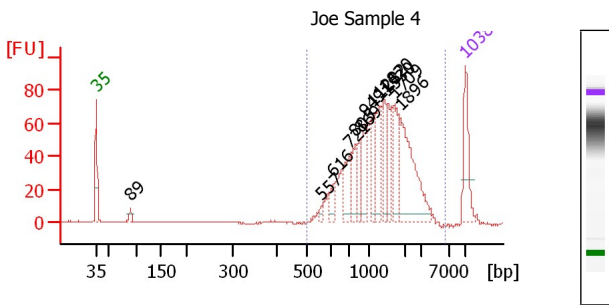
Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	49.50	89	17.75	303.1	
3	78.22	419	11.35	41.0	
4	79.87	448	20.67	69.9	
5	80.94	467	13.91	45.2	
6	81.78	481	17.90	56.4	
7	83.79	520	48.50	141.3	
8	84.50	535	40.94	115.9	
9	85.44	555	45.25	123.5	
10	86.42	576	34.26	90.1	
11	87.35	596	57.69	146.6	
12	88.24	622	53.24	129.7	
13	90.16	681	43.67	97.1	
14	91.58	761	127.68	254.2	
15	92.47	827	43.06	78.9	
16	93.50	902	41.06	68.9	
17	95.10	1,043	89.04	129.3	
18	96.52	1,260	34.23	41.2	
19	97.19	1,361	157.54	175.3	
20	113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 3 : Joe Sample 3

Number of peaks found: 18
 Noise: 0.4
 Corr. Area 1: 942.1

Region table for sample 3 : Joe Sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Size distribution Total	CV [%]
380	3,505	903	2,338.2	1,139.7	942.1	99	44.8



Peak table for sample 4 : Joe Sample 4

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	49.49	89	17.11	292.5	
3	85.51	557	7.77	21.2	
4	88.05	616	25.72	63.3	
5	91.04	721	63.10	132.6	
6	92.18	805	58.10	109.4	
7	93.04	869	35.09	61.2	
8	94.13	949	66.95	106.9	
9	95.62	1,123	55.80	75.3	
10	96.67	1,282	67.10	79.3	
11	97.58	1,420	53.60	57.2	
12	98.30	1,530	42.57	42.2	
13	99.48	1,709	83.80	74.3	
14	100.71	1,896	176.17	140.8	
15	113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 4 : Joe Sample 4

Number of peaks found: 13
 Noise: 0.2
 Corr. Area 1: 976.5

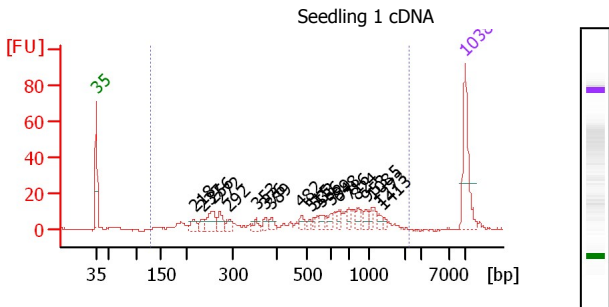
Region table for sample 4 : Joe Sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Size distribution Total	CV [%]
498	6,279	1,429	1,285.1	937.21	976.5	98	49.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-06\2014-03-06_006.xad

Created: 3/6/2014 4:33:44 PM
 Modified: 3/6/2014 5:07:48 PM

Electropherogram Summary Continued ...



Peak table for sample 5 : Seedling 1 cDNA

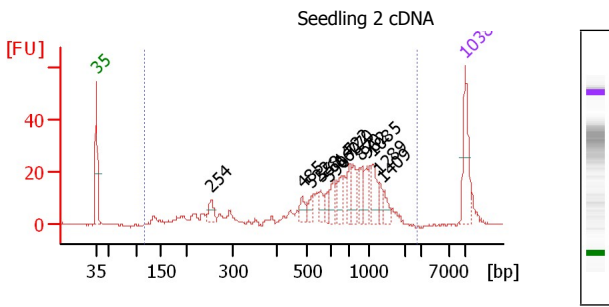
Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	61.59	218	20.93	145.4	
3	63.33	237	12.29	78.4	
4	64.99	256	40.48	239.9	
5	66.50	272	24.08	133.9	
6	68.29	292	15.07	78.1	
7	73.30	353	11.43	49.1	
8	75.13	376	10.14	40.9	
9	76.23	389	13.31	51.8	
10	81.83	482	11.07	34.8	
11	83.58	515	5.53	16.3	
12	84.40	533	5.21	14.8	
13	85.46	556	12.31	33.6	
14	87.48	599	8.02	20.3	
15	89.09	648	12.83	30.0	
16	90.97	716	10.47	22.2	
17	92.44	824	11.41	21.0	
18	94.18	953	11.83	18.8	
19	95.37	1,085	6.76	9.4	
20	96.61	1,273	7.00	8.3	
21	97.53	1,413	4.22	4.5	
22	113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 5 : Seedling 1 cDNA

Number of peaks found: 20
 Noise: 0.3
 Corr. Area 1: 276.8

Region table for sample 5 : Seedling 1 cDNA

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Size distribution Total in CV [%]
128	2,249	631	1,173.9	304.45	276.8	99 55.9



Peak table for sample 6 : Seedling 2 cDNA

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	64.85	254	31.15	185.7	
3	82.01	485	23.67	73.9	
4	83.87	522	16.57	48.1	
5	85.58	558	19.88	54.0	
6	87.07	590	19.33	49.6	
7	88.00	614	29.80	73.5	
8	89.48	660	29.51	67.7	
9	91.06	722	38.19	80.1	
10	91.71	770	32.39	63.7	
11	93.05	870	30.77	53.6	
12	94.31	962	30.86	48.6	
13	95.37	1,085	42.97	60.0	
14	96.72	1,289	16.42	19.3	
15	97.51	1,409	19.70	21.2	
16	113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 6 : Seedling 2 cDNA

Number of peaks found: 14
 Noise: 0.2
 Corr. Area 1: 401.2

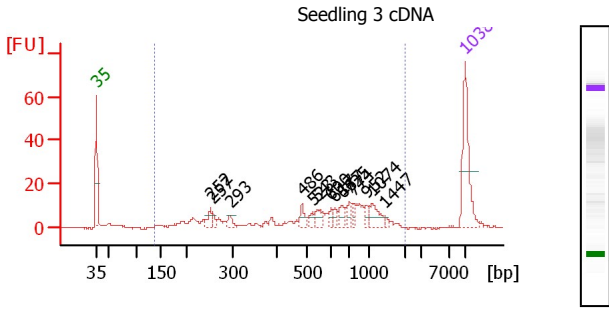
Region table for sample 6 : Seedling 2 cDNA

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Size distribution Total in CV [%]
116	2,715	752	2,152.7	670.28	401.2	97 48.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-06\2014-03-06_006.xad

Created: 3/6/2014 4:33:44 PM
 Modified: 3/6/2014 5:07:48 PM

Electropherogram Summary Continued ...



Peak table for sample 7 : Seedling 3 cDNA

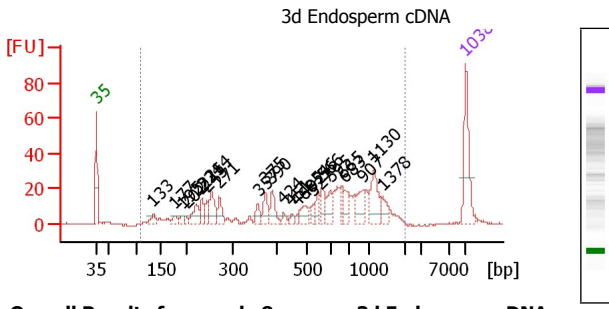
Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	64.67	252	15.68	94.2	
3	65.09	257	8.62	50.8	
4	68.35	293	10.60	54.9	
5	82.04	486	15.80	49.3	
6	83.92	523	10.17	29.5	
7	84.87	543	15.31	42.7	
8	87.51	600	8.04	20.3	
9	88.08	617	10.22	25.1	
10	89.68	667	17.47	39.7	
11	91.10	725	13.36	27.9	
12	91.76	774	9.05	17.7	
13	94.17	952	7.72	12.3	
14	95.30	1,074	26.17	36.9	
15	97.75	1,447	3.65	3.8	
16	113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 7 : Seedling 3 cDNA

Number of peaks found: 14
 Noise: 0.2
 Corr. Area 1: 228.1

Region table for sample 7 : Seedling 3 cDNA

From To [bp]	Average Size [bp]	Molarit y [pmol/l]	Conc. [pg/μ l]	Corr. Area	% of Size distribution Total in CV [%]
135	1,998	663	995.8	276.96	228.1 96 51.2



Peak table for sample 8 : 3d Endosperm cDNA

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.80	133	22.44	255.2	
3	57.84	177	16.31	139.6	
4	59.47	195	13.20	102.7	
5	60.09	202	7.76	58.3	
6	61.92	222	38.61	263.8	
7	63.07	234	26.18	169.2	
8	64.03	245	20.47	126.6	
9	64.80	254	50.38	301.0	
10	66.33	271	30.80	172.5	
11	73.63	357	17.93	76.1	
12	75.07	375	29.97	121.2	
13	76.27	390	33.99	132.2	
14	78.48	424	8.27	29.6	
15	80.06	451	7.81	26.2	
16	81.02	468	4.76	15.4	
17	82.42	492	27.69	85.2	
18	84.10	527	9.38	27.0	
19	85.01	546	20.35	56.5	
20	85.92	566	26.95	72.2	
21	87.31	595	27.22	69.3	
22	89.62	665	16.29	37.1	
23	90.19	683	27.16	60.3	
24	93.56	907	39.09	65.3	
25	95.67	1,130	53.94	72.4	

Overall Results for sample 8 : 3d Endosperm cDNA

Number of peaks found: 25
 Noise: 0.2
 Corr. Area 1: 551.0

Region table for sample 8 : 3d Endosperm cDNA

From To [bp]	Average Size [bp]	Molarit y [pmol/l]	Conc. [pg/μ l]	Corr. Area	% of Size distribution Total in CV [%]
109	2,088	650	2,758.2	683.17	551.0 99 58.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-06\2014-03-06_006.xad

Created: 3/6/2014 4:33:44 PM
Modified: 3/6/2014 5:07:48 PM

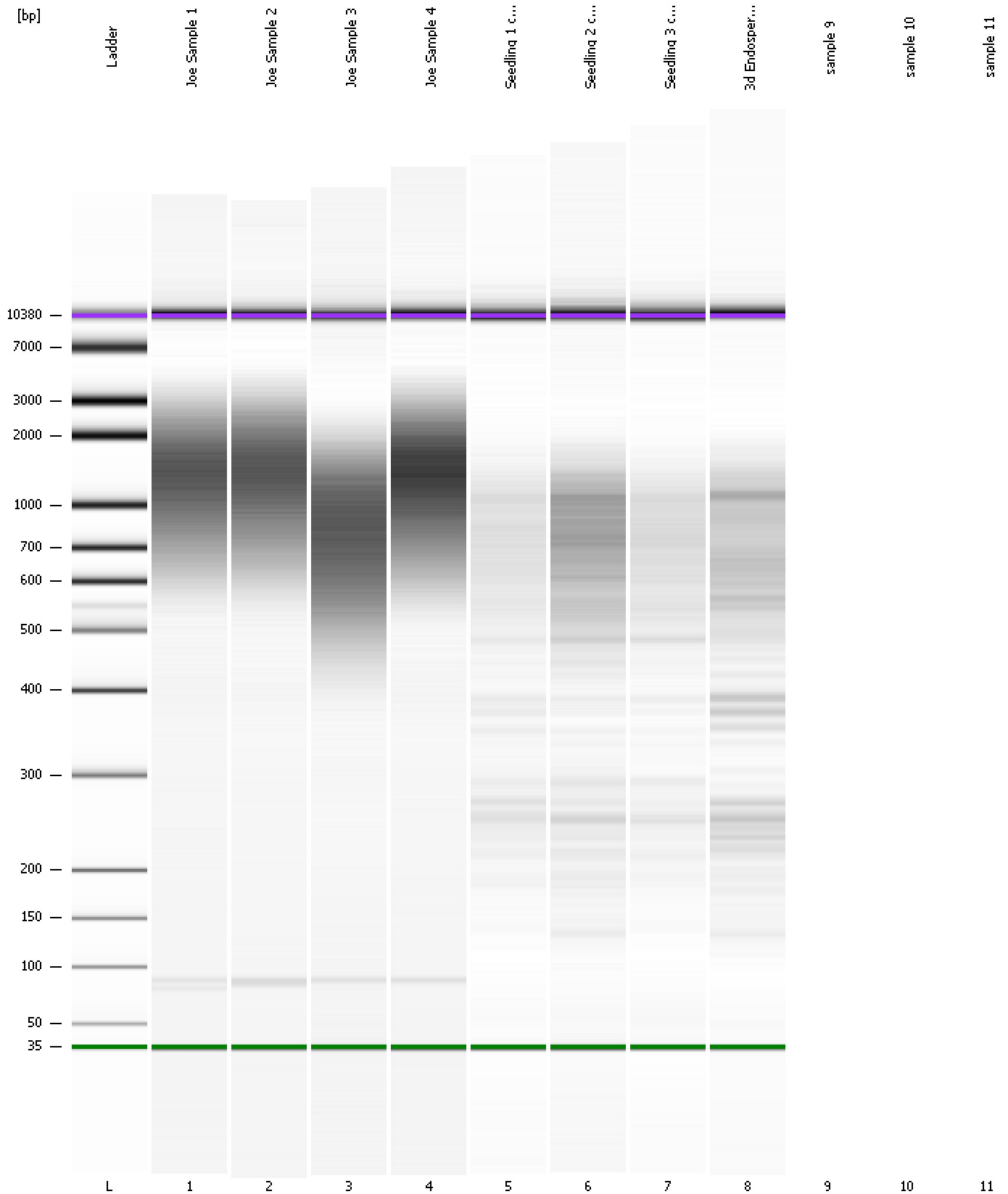
Electropherogram Summary Continued ...

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
26	97.30	1,378	18.80	20.7	
27	▶ 113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-06\2014-03-06_006.xad

Created: 3/6/2014 4:33:44 PM
Modified: 3/6/2014 5:07:48 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-06\2014-03-06_006.xad

Created: 3/6/2014 4:33:44 PM
Modified: 3/6/2014 5:07:48 PM

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.