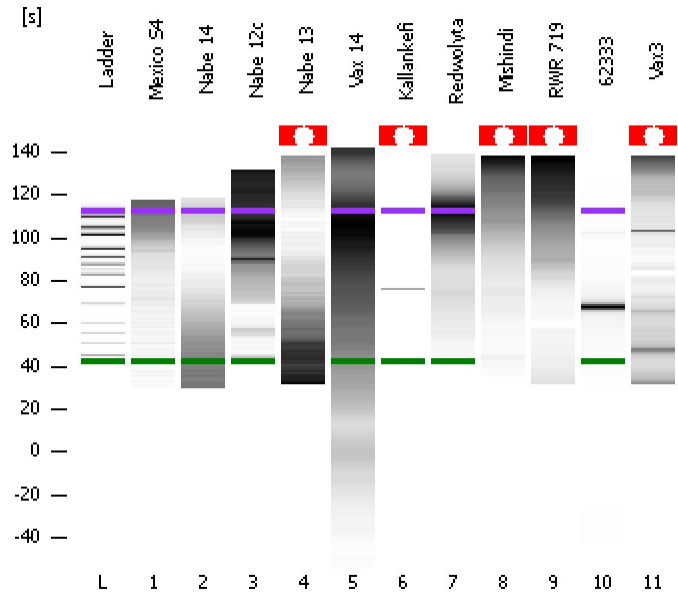


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-07\2014-03-07_002.xad

Created: 3/7/2014 11:17:46 AM
Modified: 3/7/2014 12:13:52 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

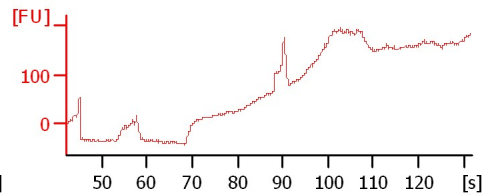
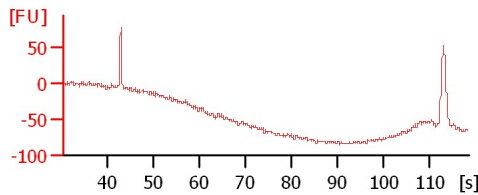
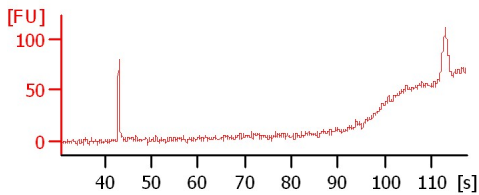
Chip Information:

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

Mexico S4

Nabe 14

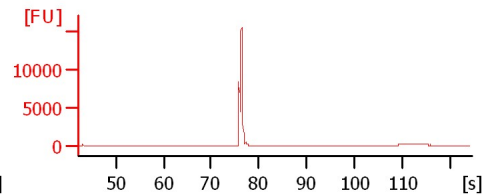
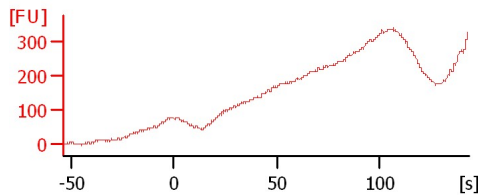
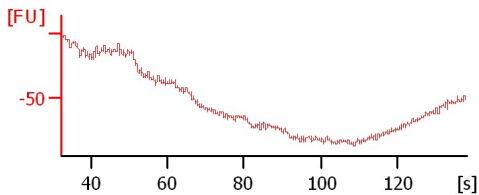
Nabe 12c



Nabe 13

Vax 14

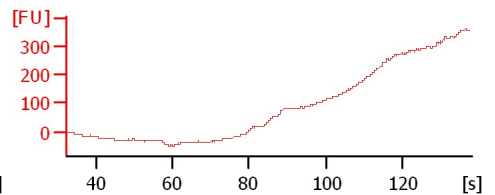
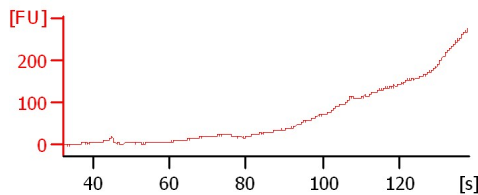
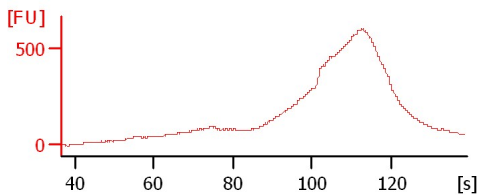
Kallankefi



Redwolyta

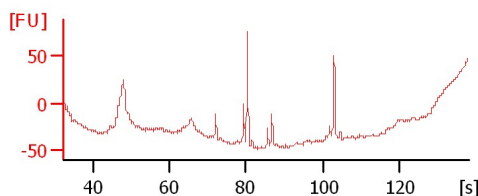
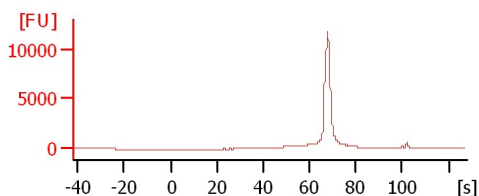
Mishindi

RWR 719



62333

Vax3



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-07\2014-03-07_002.xad

Created: 3/7/2014 11:17:46 AM
 Modified: 3/7/2014 12:13:52 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Mexico S4		<input type="checkbox"/>	✓			
Nabe 14		<input type="checkbox"/>	✓			
Nabe 12c		<input type="checkbox"/>	✓			
Nabe 13		<input type="checkbox"/>	✓			
Vax 14		<input type="checkbox"/>	✓			
Kallankefi		<input type="checkbox"/>	⚠			
Redwolyta		<input type="checkbox"/>	✓			
Mishindi		<input type="checkbox"/>	✓			
RWR 719		<input type="checkbox"/>	✓			
62333		<input type="checkbox"/>	✓			
Vax3		<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\2014-03-07\2014-03-07_002.xad

Created: 3/7/2014 11:17:46 AM
Modified: 3/7/2014 12:13:52 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

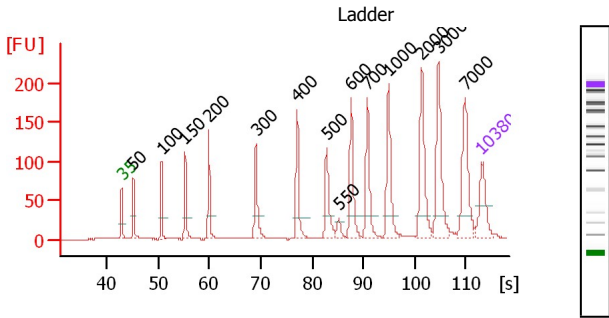
Ladder

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\2014-03-07\2014-03-07_002.xad

Created: 3/7/2014 11:17:46 AM
 Modified: 3/7/2014 12:13:52 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	50.78	100	150.00	2,272.7	Ladder Peak
4	55.39	150	150.00	1,515.2	Ladder Peak
5	60.00	200	150.00	1,136.4	Ladder Peak
6	69.09	300	150.00	757.6	Ladder Peak
7	77.16	400	150.00	568.2	Ladder Peak
8	82.88	500	150.00	454.5	Ladder Peak
9	85.26	550	0.00	0.0	
10	87.65	600	150.00	378.8	Ladder Peak
11	90.82	700	150.00	324.7	Ladder Peak
12	94.89	1,000	150.00	227.3	Ladder Peak
13	101.35	2,000	150.00	113.6	Ladder Peak
14	104.56	3,000	150.00	75.8	Ladder Peak

Overall Results for Ladder

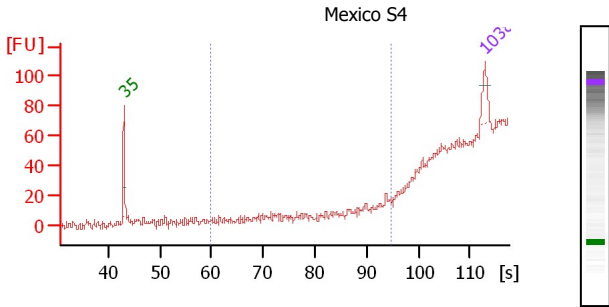
Noise: 0.2

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
15	109.79	7,000	150.00	32.5	Ladder Peak
16	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-07\2014-03-07_002.xad

Created: 3/7/2014 11:17:46 AM
 Modified: 3/7/2014 12:13:52 PM

Electropherogram Summary Continued ...



Peak table for sample 1 : Mexico S4

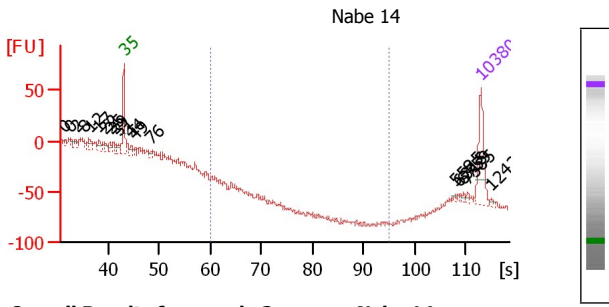
Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

Overall Results for sample 1 : Mexico S4

Number of peaks found: 0
 Noise: 2.2
 Corr. Area 1: 0.0

Region table for sample 1 : Mexico S4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	% of CV
200	1,000	0	0.0	0.00	0.0	0	0.0



Peak table for sample 2 : Nabe 14

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31.43	0	0.00	0.0	
2	32.43	0	0.00	0.0	
3	33.55	2	0.00	0.0	
4	35.25	8	0.00	0.0	
5	36.36	12	0.00	0.0	
6	37.94	17	0.00	0.0	
7	39.27	22	0.00	0.0	
8	40.22	25	0.00	0.0	
9	41.26	29	0.00	0.0	
10	41.92	31	0.00	0.0	
11	43.00	35	125.00	5,411.3	Lower Marker
12	44.33	44	20.16	700.0	
13	45.20	49	10.42	320.1	
14	48.14	76	9.47	189.0	
15	107.94	5,585	2.59	0.7	
16	108.89	6,315	2.26	0.5	
17	109.48	6,759	3.76	0.8	
18	110.35	7,585	4.19	0.8	
19	113.00	10,380	75.00	10.9	Upper Marker
20	114.95	12,432	0.00	0.0	

Overall Results for sample 2 : Nabe 14

Number of peaks found: 18
 Noise: 2.1
 Corr. Area 1: 0.0

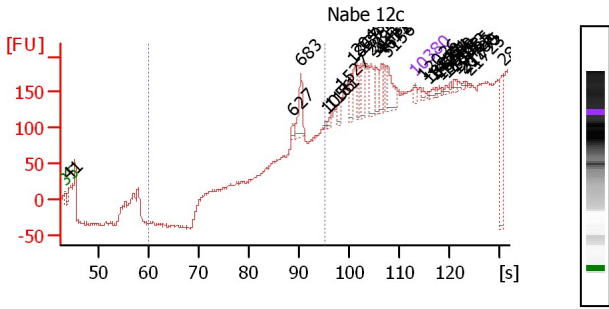
Region table for sample 2 : Nabe 14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	% of CV
200	1,000	0	0.0	0.00	0.0	0	0.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-07\2014-03-07_002.xad

Created: 3/7/2014 11:17:46 AM
 Modified: 3/7/2014 12:13:52 PM

Electropherogram Summary Continued ...



Peak table for sample 3 : Nabe 12c

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	43.89	41	291.10	10,817.1	
3	88.50	627	90.86	219.6	
4	90.27	683	494.53	1,097.5	
5	95.26	1,056	26.95	38.7	
6	96.06	1,181	43.53	55.9	
7	98.30	1,527	119.39	118.4	
8	100.50	1,867	211.56	171.7	
9	101.51	2,048	171.79	127.1	
10	102.61	2,391	181.83	115.2	
11	104.21	2,891	283.11	148.4	
12	105.14	3,443	260.77	114.8	
13	106.41	4,413	162.68	55.9	
14	106.75	4,671	142.55	46.2	
15	107.38	5,156	363.17	106.7	
16	113.00	10,380	75.00	10.9	Upper Marker
17	114.56	12,026	0.00	0.0	
18	115.75	13,271	0.00	0.0	
19	116.59	14,161	0.00	0.0	
20	117.18	14,784	0.00	0.0	

Overall Results for sample 3 : Nabe 12c

Number of peaks found: 28
 Noise: 2.8
 Corr. Area 1: 87.7

Region table for sample 3 : Nabe 12c

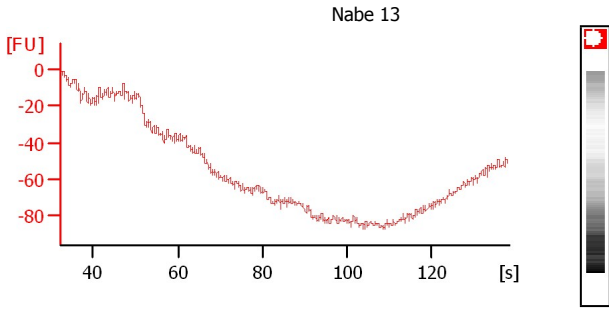
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution CV [%]
200	1,000	675	903.8	402.58	87.7	10	2.5

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
21	117.90	15,540	0.00	0.0	
22	118.32	15,985	0.00	0.0	
23	119.29	17,008	0.00	0.0	
24	120.10	17,853	0.00	0.0	
25	121.15	18,965	0.00	0.0	
26	121.62	19,455	0.00	0.0	
27	122.80	20,700	0.00	0.0	
28	123.22	21,145	0.00	0.0	
29	123.77	21,723	0.00	0.0	
30	130.66	28,974	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-07\2014-03-07_002.xad

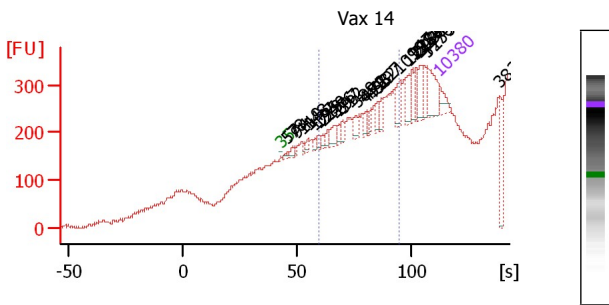
Created: 3/7/2014 11:17:46 AM
 Modified: 3/7/2014 12:13:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Nabe 13

Noise: 2.1



Overall Results for sample 5 : Vax 14

Number of peaks found: 26
 Noise: 4.4
 Corr. Area 1: 718.3

Region table for sample 5 : Vax 14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]
200	1,000	518	3,265.1	895.38	718.3	47	40.2

Peak table for sample 5 : Vax 14

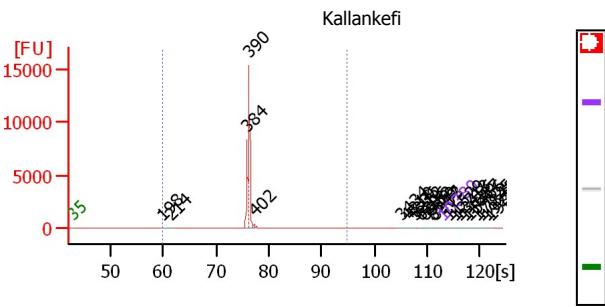
Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	46.07	57	39.82	1,058.4	
3	48.40	78	45.59	882.6	
4	50.07	94	32.46	525.6	
5	52.49	119	37.43	478.1	
6	55.19	148	51.61	528.7	
7	57.89	177	33.49	286.4	
8	59.57	195	53.23	412.8	
9	61.71	219	32.12	222.4	
10	63.66	240	52.90	333.5	
11	66.92	276	102.44	562.1	
12	68.78	297	57.87	295.6	
13	70.09	312	58.40	283.3	
14	76.23	389	73.90	288.2	
15	80.05	451	53.10	178.6	
16	81.26	472	45.26	145.4	
17	82.75	498	39.57	120.5	
18	85.35	552	65.82	180.7	
19	87.49	597	58.83	149.4	
20	95.50	1,094	142.33	197.1	
21	99.60	1,728	119.49	104.8	
22	101.18	1,973	82.06	63.0	
23	102.57	2,380	64.61	41.1	
24	104.34	2,931	114.28	59.1	
25	106.48	4,470	69.89	23.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-07\2014-03-07_002.xad

Created: 3/7/2014 11:17:46 AM
 Modified: 3/7/2014 12:13:52 PM

Electropherogram Summary Continued ...

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
26	107.51	5,253	202.82	58.5	
27	113.00	10,380	75.00	10.9	Upper Marker
28	139.53	38,315	0.00	0.0	



Overall Results for sample 6 : Kallankefi

Number of peaks found: 23
 Noise: 1.5
 Corr. Area 1: 14,324.6

Region table for sample 6 : Kallankefi

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]
200	1,000	389	257,137.1	65,911.76	14,324.98	1.5	

Peak table for sample 6 : Kallankefi

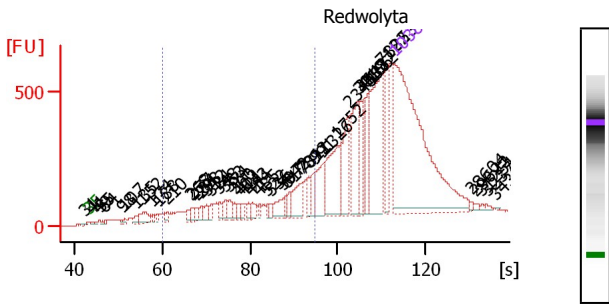
Peak	Aligned Migration Time	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	59.83	198	32.27	246.7	
3	61.31	214	140.46	992.5	
4	75.88	384	19,334.02	76,258.8	
5	76.34	390	45,239.43	175,785.0	
6	77.28	402	1,002.84	3,778.3	
7	105.13	3,434	20.46	9.0	
8	106.14	4,210	22.75	8.2	
9	106.96	4,836	19.46	6.1	
10	107.59	5,313	36.04	10.3	
11	108.87	6,296	46.59	11.2	
12	109.73	6,952	63.13	13.8	
13	110.27	7,509	61.93	12.5	
14	110.97	8,247	89.43	16.4	
15	111.60	8,903	68.56	11.7	
16	113.00	10,380	75.00	10.9	Upper Marker
17	114.09	11,529	0.00	0.0	
18	115.22	12,718	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-07\2014-03-07_002.xad

Created: 3/7/2014 11:17:46 AM
 Modified: 3/7/2014 12:13:52 PM

Electropherogram Summary Continued ...

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
19	115.92	13,456	0.00	0.0	
20	117.09	14,687	0.00	0.0	
21	117.83	15,466	0.00	0.0	
22	119.31	17,025	0.00	0.0	
23	120.09	17,845	0.00	0.0	
24	121.45	19,281	0.00	0.0	
25	122.04	19,896	0.00	0.0	



Peak table for sample 7 : Redwolyta

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	41.89	31	0.00	0.0	
2	43.00	35	125.00	5,411.3	Lower Marker
3	43.92	41	0.86	31.6	
4	45.08	49	0.74	23.1	
5	45.85	55	0.85	23.5	
6	46.87	64	0.74	17.4	
7	50.59	98	0.89	13.7	
8	51.41	107	1.13	16.0	
9	54.02	135	2.80	31.4	
10	55.57	152	6.56	65.4	
11	57.60	174	1.19	10.3	
12	58.86	188	1.19	9.6	
13	60.94	210	1.39	10.0	
14	66.20	268	1.67	9.4	
15	66.98	277	2.08	11.4	
16	67.65	284	2.49	13.3	
17	68.86	298	2.25	11.5	
18	70.02	312	3.16	15.4	
19	71.04	324	2.02	9.4	
20	72.97	348	2.22	9.7	
21	74.13	363	2.50	10.4	
22	75.05	374	3.63	14.7	
23	76.36	390	2.15	8.3	
24	77.32	403	1.82	6.9	
25	78.34	421	1.73	6.2	

Overall Results for sample 7 : Redwolyta

Number of peaks found: 49
 Noise: 1.9
 Corr. Area 1: 3,237.1

Region table for sample 7 : Redwolyta

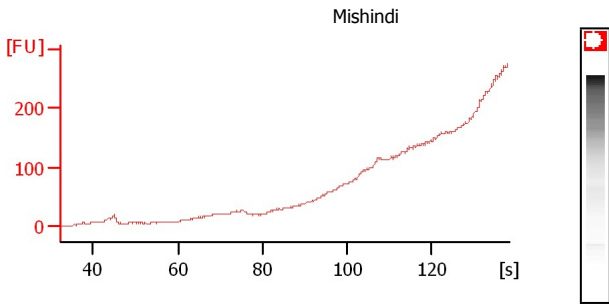
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total in CV	Size distribution
200	1,000	533	326.1	86.95	3,237.30	41.9	1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-07\2014-03-07_002.xad

Created: 3/7/2014 11:17:46 AM
 Modified: 3/7/2014 12:13:52 PM

Electropherogram Summary Continued ...

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	79.60	443	1.31	4.5		49	132.82	31,251	0.00	0.0	
27	80.27	454	2.54	8.5							
28	82.01	485	1.10	3.4		50	133.88	32,371	0.00	0.0	
29	83.95	522	1.06	3.1							
30	84.57	536	1.08	3.1		51	135.77	34,356	0.00	0.0	
31	87.52	597	5.22	13.2							
32	88.20	617	1.71	4.2							
33	88.97	642	1.78	4.2							
34	91.92	781	9.38	18.2							
35	93.42	892	3.49	5.9							
36	94.77	991	4.96	7.6							
37	97.00	1,326	9.53	10.9							
38	99.75	1,752	16.74	14.5							
39	102.46	2,345	13.97	9.0							
40	104.59	3,019	13.76	6.9							
41	105.41	3,648	6.40	2.7							
42	106.09	4,166	5.74	2.1							
43	106.96	4,832	6.29	2.0							
44	109.91	7,122	28.88	6.1							
45	111.55	8,853	8.62	1.5							
46	113.00	10,380	75.00	10.9	Upper Marker						
47	130.31	28,604	0.00	0.0							
48	131.27	29,622	0.00	0.0							



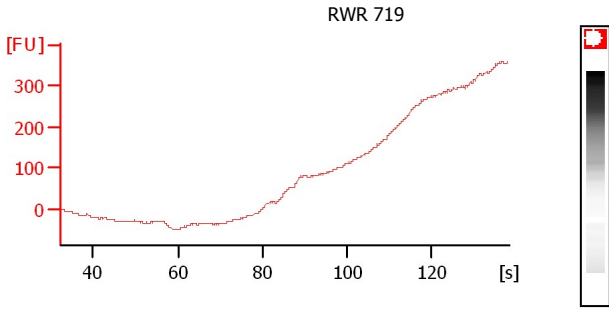
Overall Results for sample 8 : Mishindi

Noise: 0.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-07\2014-03-07_002.xad

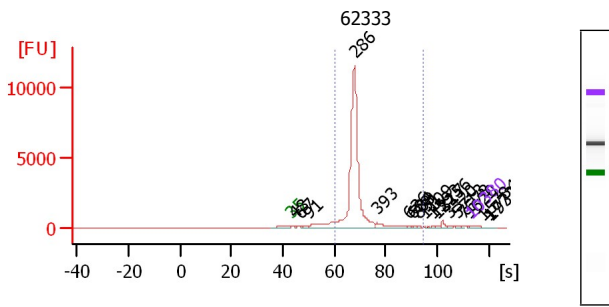
Created: 3/7/2014 11:17:46 AM
 Modified: 3/7/2014 12:13:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : **RWR 719**

Noise: 1.5



Overall Results for sample 10 : **62333**

Number of peaks found: 20
 Noise: 1.6
 Corr. Area 1: 25,342.8

Region table for sample 10 : **62333**

From [bp]	To [bp]	Average Size [bp]	Molarit y [pmol/ l]	Conc. [pg/μ l]	Corr. Area	% of Total	Size distribution in CV [%]
200	1,000	299	91,502.8	17,565.78	25,342.88	21.7	

Peak table for sample 10 : **62333**

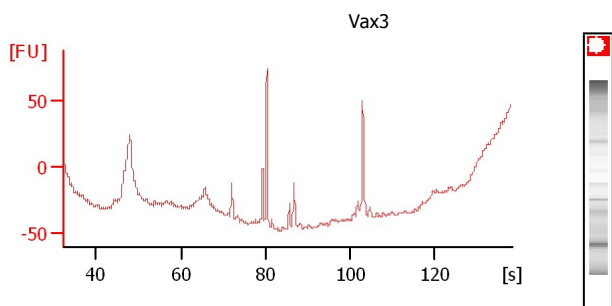
Peak	Aligned Migration Time	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.00	48	107.98	3,405.0	
3	47.17	67	88.66	2,003.9	
4	49.82	91	202.71	3,367.4	
5	67.86	286	17,793.73	94,123.3	
6	76.60	393	636.23	2,452.5	
7	88.78	636	26.82	63.9	
8	90.31	684	16.69	37.0	
9	91.35	739	20.85	42.7	
10	92.87	851	14.32	25.5	
11	95.60	1,109	20.02	27.3	
12	98.73	1,593	14.80	14.1	
13	100.17	1,817	59.90	50.0	
14	102.18	2,256	149.46	100.4	
15	104.98	3,320	38.26	17.5	
16	108.11	5,713	50.38	13.4	
17	110.43	7,678	40.74	8.0	
18	112.28	9,620	23.61	3.7	
19	113.00	10,380	75.00	10.9	Upper Marker
20	118.13	15,784	0.00	0.0	
21	119.98	17,726	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-07\2014-03-07_002.xad

Created: 3/7/2014 11:17:46 AM
Modified: 3/7/2014 12:13:52 PM

Electropherogram Summary Continued ...

Peak	Aligned Migration Time	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
22	121.50	19,330	0.00	0.0	



Overall Results for sample 11 : Vax3

Noise: 1.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-07\2014-03-07_002.xad

Created: 3/7/2014 11:17:46 AM
Modified: 3/7/2014 12:13:52 PM

Gel Image

