

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-05\2016-05-05_001.xad

Created: 5/5/2016 10:52:12 AM
Modified: 5/5/2016 1:59:23 PM

Electrophoresis File Run Summary

Instrument Information:

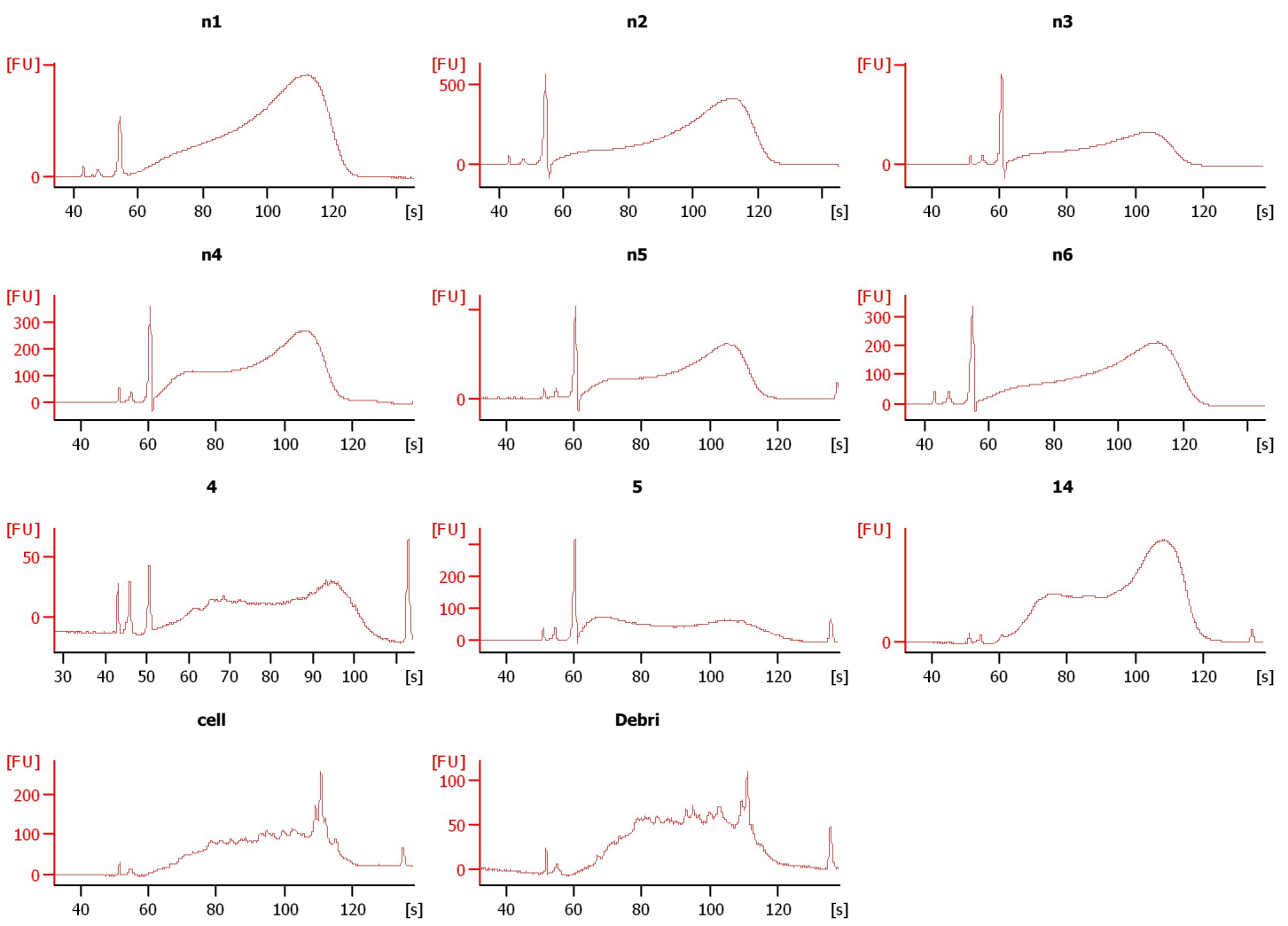
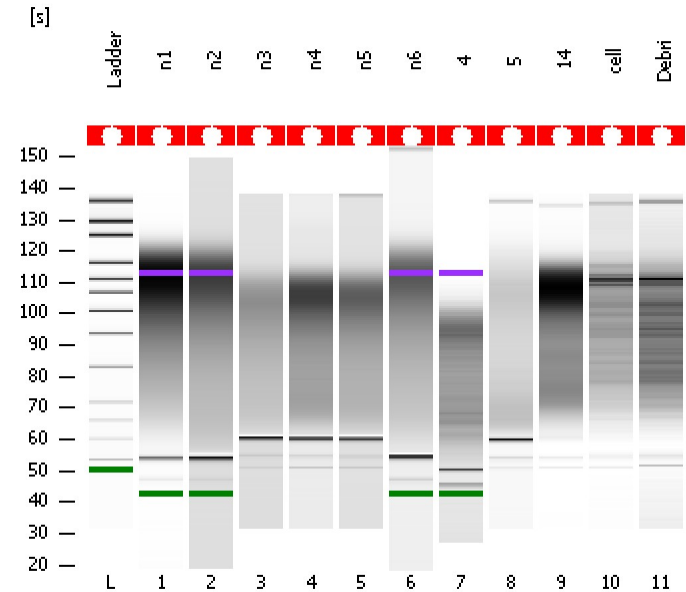
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-05\2016-05-05_001.xad

Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
n1		<input type="checkbox"/>	✓			
n2		<input type="checkbox"/>	✓			
n3		<input type="checkbox"/>	✓			
n4		<input type="checkbox"/>	✓			
n5		<input type="checkbox"/>	✓			
n6		<input type="checkbox"/>	✓			
4		<input type="checkbox"/>	✓			
5		<input type="checkbox"/>	✓			
14		<input type="checkbox"/>	✓			
cell		<input type="checkbox"/>	✓			
Debri		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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Modified: 5/5/2016 1:59:23 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

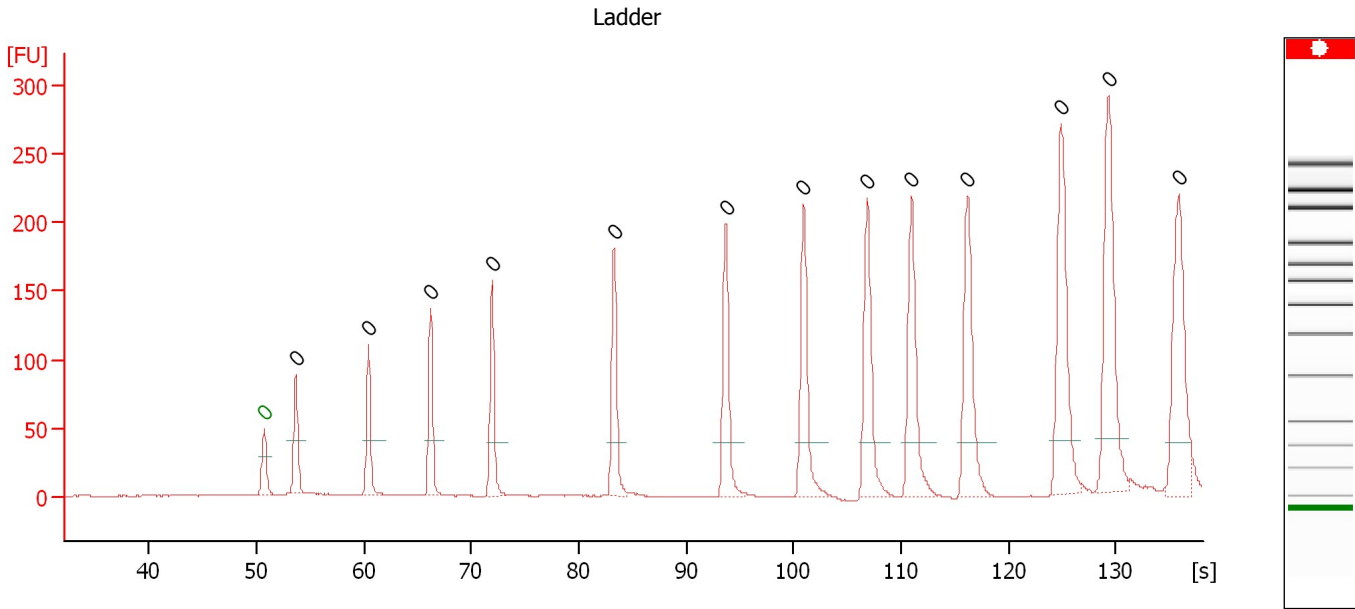
Ladder

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

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Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

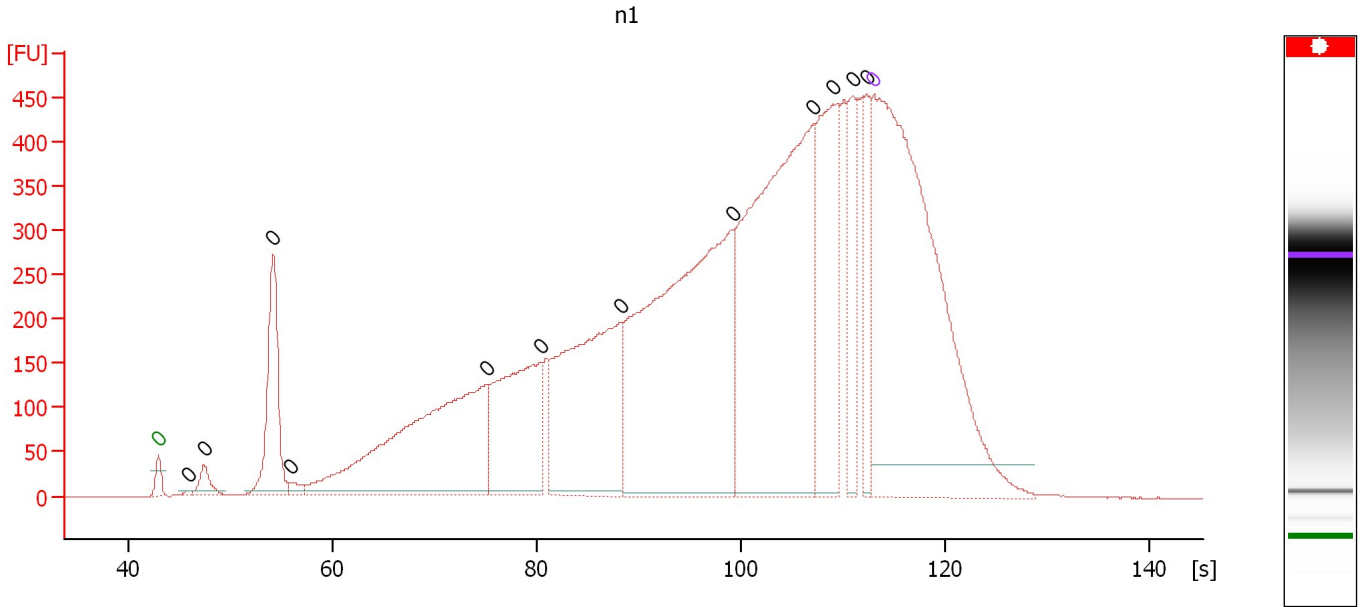
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	50.70
2	0	0.00	0.0	Ladder Peak	53.65
3	0	0.00	0.0	Ladder Peak	60.40
4	0	0.00	0.0	Ladder Peak	66.20
5	0	0.00	0.0	Ladder Peak	71.95
6	0	0.00	0.0	Ladder Peak	83.30
7	0	0.00	0.0	Ladder Peak	93.70
8	0	0.00	0.0	Ladder Peak	100.95
9	0	0.00	0.0	Ladder Peak	106.85
10	0	0.00	0.0	Ladder Peak	111.00
11	0	0.00	0.0	Ladder Peak	116.20
12	0	0.00	0.0	Ladder Peak	124.90
13	0	0.00	0.0	Ladder Peak	129.30
14	0	0.00	0.0	Ladder Peak	135.85

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Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : n1

Number of peaks found: 12 Noise: 0.4

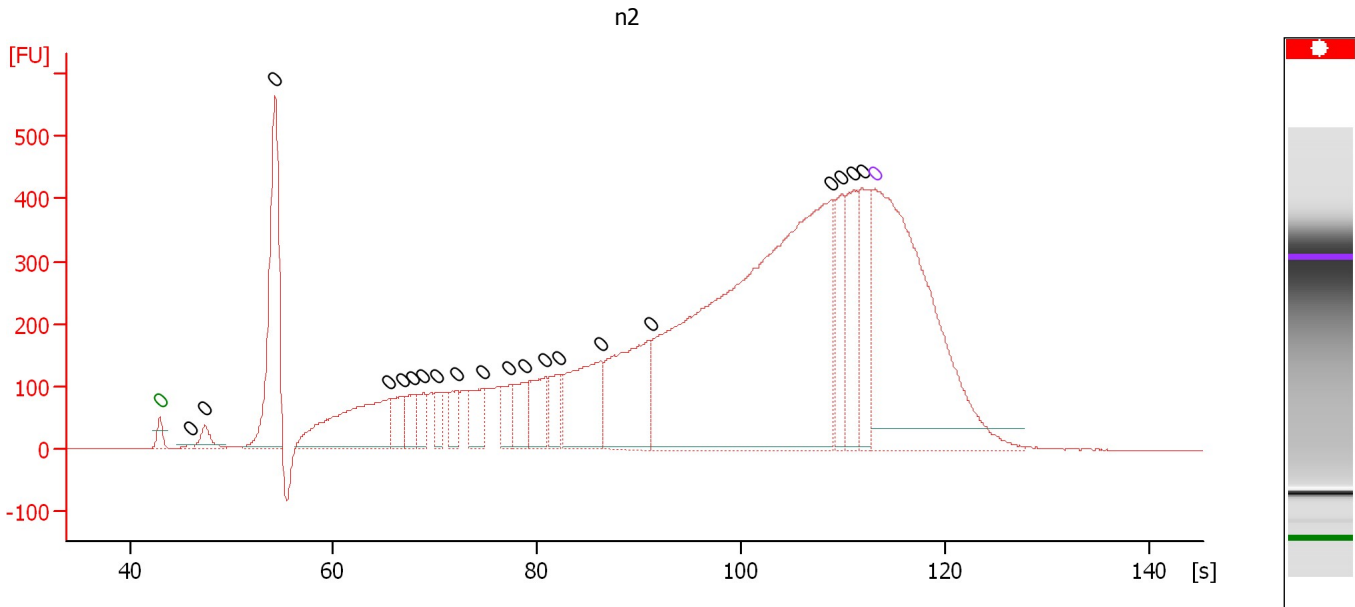
Peak table for sample 1 : n1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		46.03
3	0	0.00	0.0		47.49
4	0	0.00	0.0		54.25
5	0	0.00	0.0		55.95
6	0	0.00	0.0		75.22
7	0	0.00	0.0		80.40
8	0	0.00	0.0		88.17
9	0	0.00	0.0		99.23
10	0	0.00	0.0		107.12
11	0	0.00	0.0		109.02
12	0	0.00	0.0		110.92
13	0	0.00	0.0		112.24
14	0	0.00	0.0	Upper Marker	113.00

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Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : n2

Number of peaks found: 20 Noise: 0.7

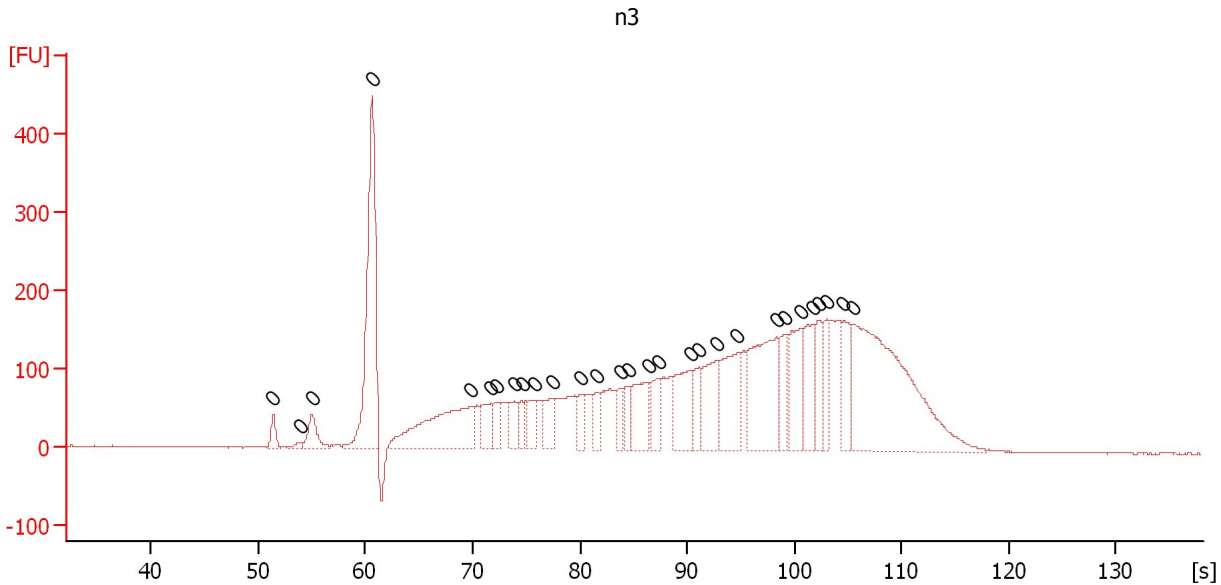
Peak table for sample 2 : n2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		46.02
3	0	0.00	0.0		47.38
4	0	0.00	0.0		54.28
5	0	0.00	0.0		65.37
6	0	0.00	0.0		66.72
7	0	0.00	0.0		67.83
8	0	0.00	0.0		68.82
9	0	0.00	0.0		70.11
10	0	0.00	0.0		72.08
11	0	0.00	0.0		74.61
12	0	0.00	0.0		77.14
13	0	0.00	0.0		78.80
14	0	0.00	0.0		80.77
15	0	0.00	0.0		82.07
16	0	0.00	0.0		86.20
17	0	0.00	0.0		91.00
18	0	0.00	0.0		108.81
19	0	0.00	0.0		109.80
20	0	0.00	0.0		110.90
21	0	0.00	0.0		111.83
22	0	0.00	0.0	Upper Marker	113.00

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Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : n3

Number of peaks found: 0 Noise: 0.6

Peak table for sample 3 : n3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		51.40
2	0	0.00	0.0		53.90
3	0	0.00	0.0		55.00
4	0	0.00	0.0		60.65
5	0	0.00	0.0		69.85
6	0	0.00	0.0		71.65
7	0	0.00	0.0		72.30
8	0	0.00	0.0		73.90
9	0	0.00	0.0		74.60
10	0	0.00	0.0		75.70
11	0	0.00	0.0		77.45
12	0	0.00	0.0		80.05
13	0	0.00	0.0		81.65
14	0	0.00	0.0		83.80
15	0	0.00	0.0		84.55
16	0	0.00	0.0		86.40
17	0	0.00	0.0		87.40
18	0	0.00	0.0		90.35
19	0	0.00	0.0		91.15
20	0	0.00	0.0		92.85
21	0	0.00	0.0		94.70
22	0	0.00	0.0		98.35
23	0	0.00	0.0		99.10
24	0	0.00	0.0		100.55
25	0	0.00	0.0		101.65
26	0	0.00	0.0		102.30
27	0	0.00	0.0		103.05

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Created: 5/5/2016 10:52:12 AM
Modified: 5/5/2016 1:59:23 PM

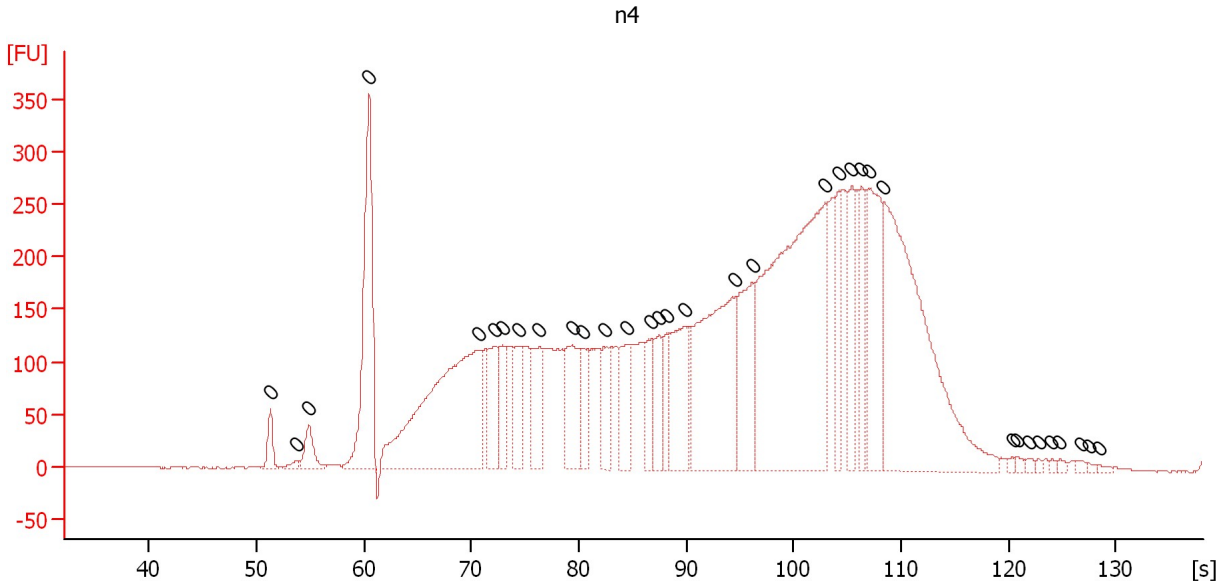
Electropherogram Summary Continued ...**... Peak table for sample 3 : n3**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		104.60
29	0	0.00	0.0		105.55

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-05\2016-05-05_001.xad

Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : n4

Number of peaks found: 0 Noise: 0.5

Peak table for sample 4 : n4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		51.25
2	0	0.00	0.0		53.70
3	0	0.00	0.0		54.85
4	0	0.00	0.0		60.50
5	0	0.00	0.0		70.70
6	0	0.00	0.0		72.15
7	0	0.00	0.0		72.95
8	0	0.00	0.0		74.40
9	0	0.00	0.0		76.35
10	0	0.00	0.0		79.35
11	0	0.00	0.0		80.35
12	0	0.00	0.0		82.35
13	0	0.00	0.0		84.55
14	0	0.00	0.0		86.75
15	0	0.00	0.0		87.50
16	0	0.00	0.0		88.20
17	0	0.00	0.0		89.85
18	0	0.00	0.0		94.60
19	0	0.00	0.0		96.15
20	0	0.00	0.0		102.95
21	0	0.00	0.0		104.20
22	0	0.00	0.0		105.40
23	0	0.00	0.0		106.35
24	0	0.00	0.0		106.95
25	0	0.00	0.0		108.35
26	0	0.00	0.0		120.40
27	0	0.00	0.0		120.80

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Created: 5/5/2016 10:52:12 AM
Modified: 5/5/2016 1:59:23 PM

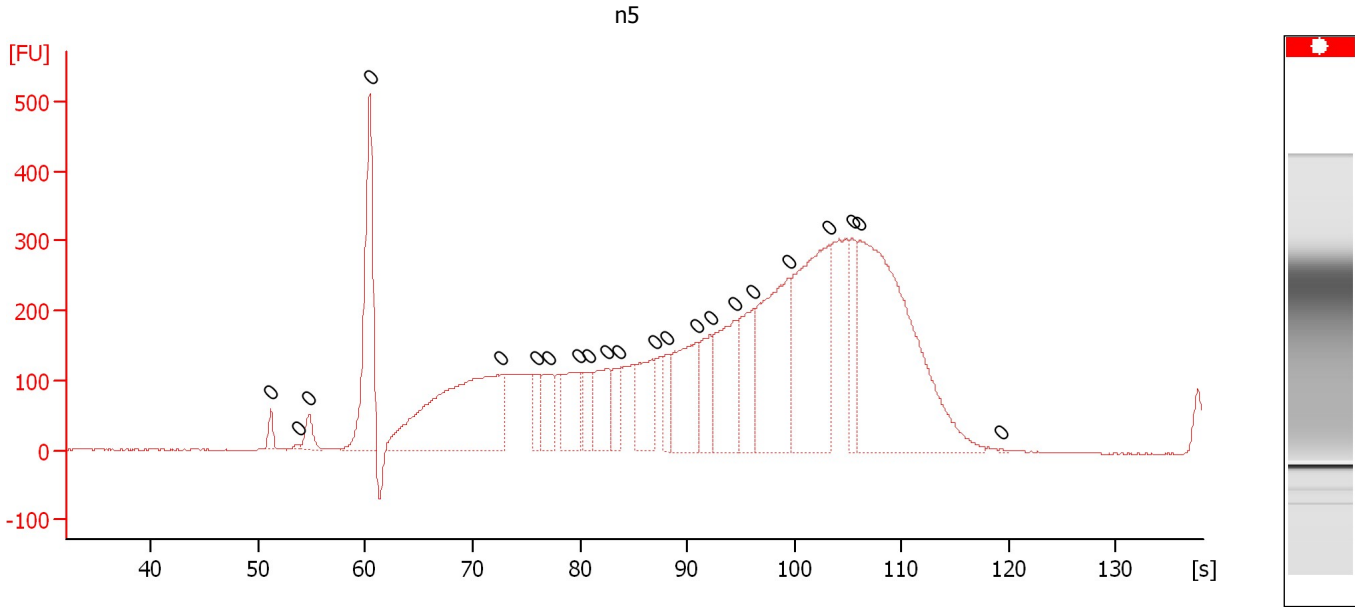
Electropherogram Summary Continued ...**... Peak table for sample 4 : n4**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		121.90
29	0	0.00	0.0		122.80
30	0	0.00	0.0		124.05
31	0	0.00	0.0		124.80
32	0	0.00	0.0		126.70
33	0	0.00	0.0		127.45
34	0	0.00	0.0		128.40

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Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : n5

Number of peaks found: 0 Noise: 0.5

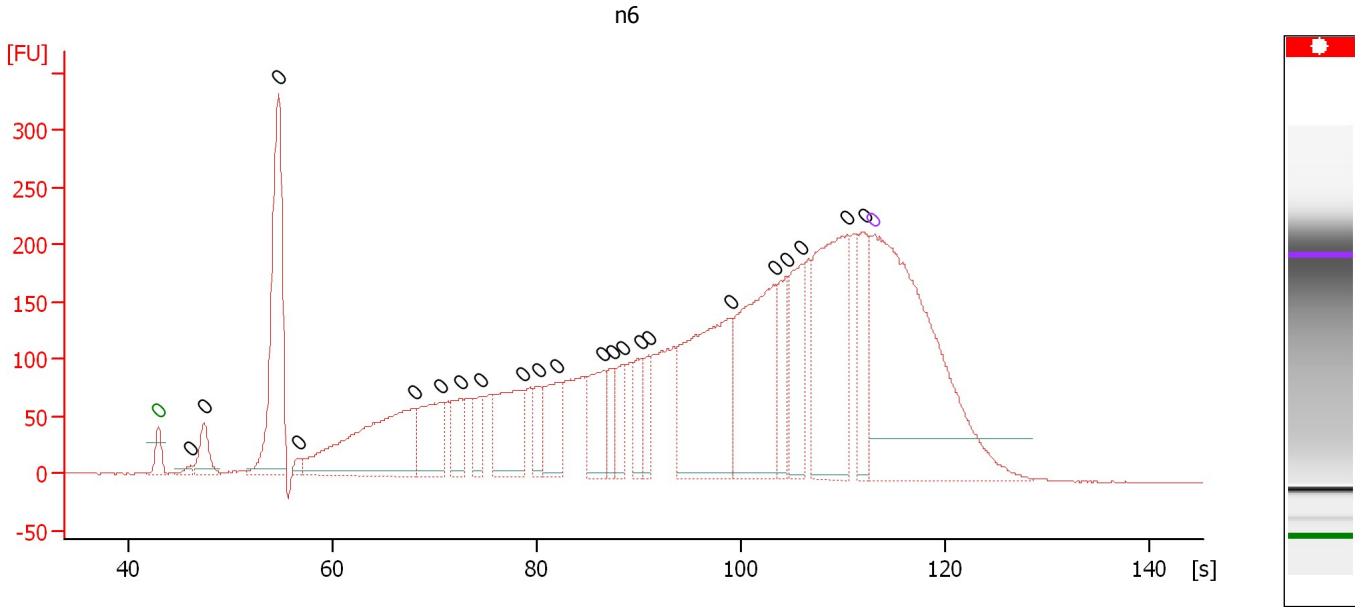
Peak table for sample 5 : n5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		51.15
2	0	0.00	0.0		53.80
3	0	0.00	0.0		54.70
4	0	0.00	0.0		60.40
5	0	0.00	0.0		72.65
6	0	0.00	0.0		75.95
7	0	0.00	0.0		77.05
8	0	0.00	0.0		79.80
9	0	0.00	0.0		80.90
10	0	0.00	0.0		82.45
11	0	0.00	0.0		83.60
12	0	0.00	0.0		87.00
13	0	0.00	0.0		88.05
14	0	0.00	0.0		90.85
15	0	0.00	0.0		92.15
16	0	0.00	0.0		94.50
17	0	0.00	0.0		96.15
18	0	0.00	0.0		99.50
19	0	0.00	0.0		103.20
20	0	0.00	0.0		105.40
21	0	0.00	0.0		106.10
22	0	0.00	0.0		119.20

Assay Class: High Sensitivity DNA Assay
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Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : n6

Number of peaks found: 22 Noise: 0.6

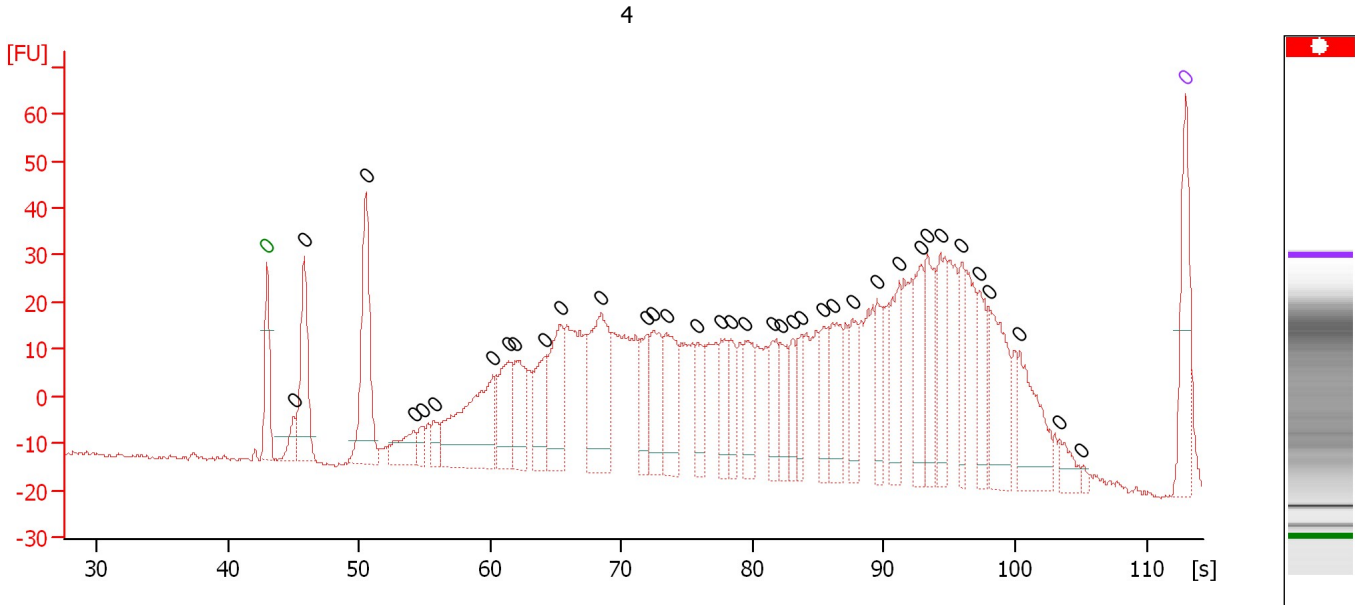
Peak table for sample 6 : n6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		46.18
3	0	0.00	0.0		47.45
4	0	0.00	0.0		54.77
5	0	0.00	0.0		56.75
6	0	0.00	0.0		68.01
7	0	0.00	0.0		70.68
8	0	0.00	0.0		72.65
9	0	0.00	0.0		74.56
10	0	0.00	0.0		78.57
11	0	0.00	0.0		80.16
12	0	0.00	0.0		82.07
13	0	0.00	0.0		86.46
14	0	0.00	0.0		87.42
15	0	0.00	0.0		88.37
16	0	0.00	0.0		90.22
17	0	0.00	0.0		90.98
18	0	0.00	0.0		99.06
19	0	0.00	0.0		103.33
20	0	0.00	0.0		104.54
21	0	0.00	0.0		105.94
22	0	0.00	0.0		110.45
23	0	0.00	0.0		112.05
24	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-05\2016-05-05_001.xad

Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 4

Number of peaks found: 37 Noise: 0.4


Peak table for sample 7 : 4

Pea k	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		45.09
3	0	0.00	0.0		45.86
4	0	0.00	0.0		50.57
5	0	0.00	0.0		54.21
6	0	0.00	0.0		54.82
7	0	0.00	0.0		55.76
8	0	0.00	0.0		60.22
9	0	0.00	0.0		61.41
10	0	0.00	0.0		61.94
11	0	0.00	0.0		64.19
12	0	0.00	0.0		65.34
13	0	0.00	0.0		68.45
14	0	0.00	0.0		71.88
15	0	0.00	0.0		72.46
16	0	0.00	0.0		73.44
17	0	0.00	0.0		75.81
18	0	0.00	0.0		77.61
19	0	0.00	0.0		78.39
20	0	0.00	0.0		79.49
21	0	0.00	0.0		81.54
22	0	0.00	0.0		82.11
23	0	0.00	0.0		83.05
24	0	0.00	0.0		83.67
25	0	0.00	0.0		85.38
26	0	0.00	0.0		86.16
27	0	0.00	0.0		87.63

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Created: 5/5/2016 10:52:12 AM
Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary Continued ...**... Peak table for sample 7 : 4**

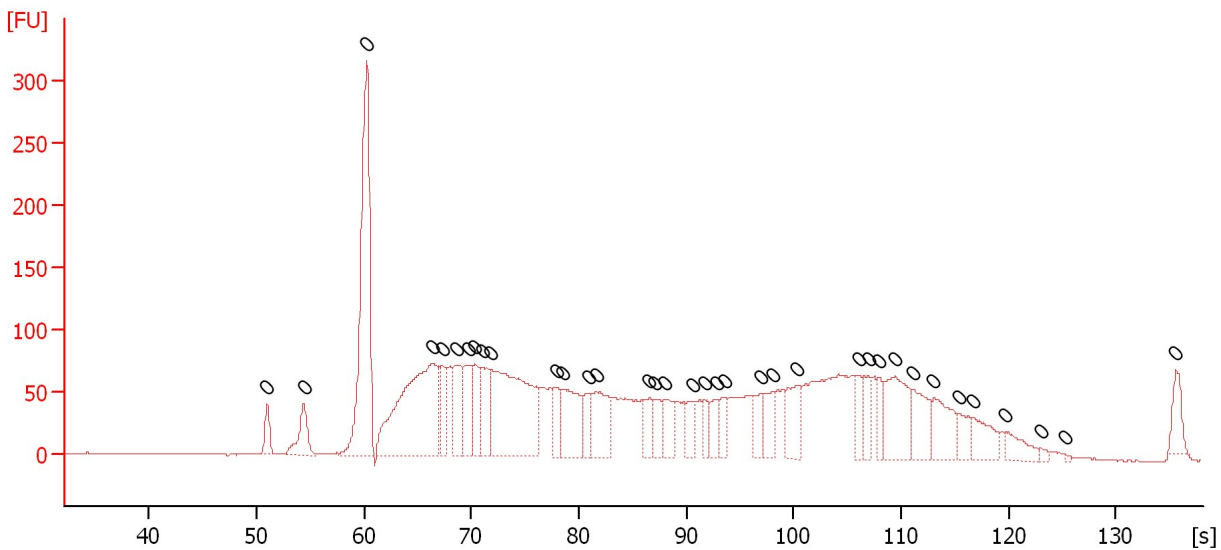
Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		89.52
29	0	0.00	0.0		91.19
30	0	0.00	0.0		92.83
31	0	0.00	0.0		93.32
32	0	0.00	0.0		94.30
33	0	0.00	0.0		95.94
34	0	0.00	0.0		97.29
35	0	0.00	0.0		98.03
36	0	0.00	0.0		100.36
37	0	0.00	0.0		103.34
38	0	0.00	0.0		105.10
39	 0	0.00	0.0	Upper Marker	113.00

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Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary Continued ...

5



Overall Results for sample 8 : 5

Number of peaks found: 0 Noise: 0.4

Peak table for sample 8 : 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		51.00
2	0	0.00	0.0		54.40
3	0	0.00	0.0		60.25
4	0	0.00	0.0		66.40
5	0	0.00	0.0		67.30
6	0	0.00	0.0		68.55
7	0	0.00	0.0		69.80
8	0	0.00	0.0		70.35
9	0	0.00	0.0		71.05
10	0	0.00	0.0		71.85
11	0	0.00	0.0		77.85
12	0	0.00	0.0		78.55
13	0	0.00	0.0		80.85
14	0	0.00	0.0		81.60
15	0	0.00	0.0		86.60
16	0	0.00	0.0		87.00
17	0	0.00	0.0		88.05
18	0	0.00	0.0		90.55
19	0	0.00	0.0		91.70
20	0	0.00	0.0		92.90
21	0	0.00	0.0		93.55
22	0	0.00	0.0		96.90
23	0	0.00	0.0		98.00
24	0	0.00	0.0		100.40
25	0	0.00	0.0		106.10
26	0	0.00	0.0		106.95
27	0	0.00	0.0		108.00

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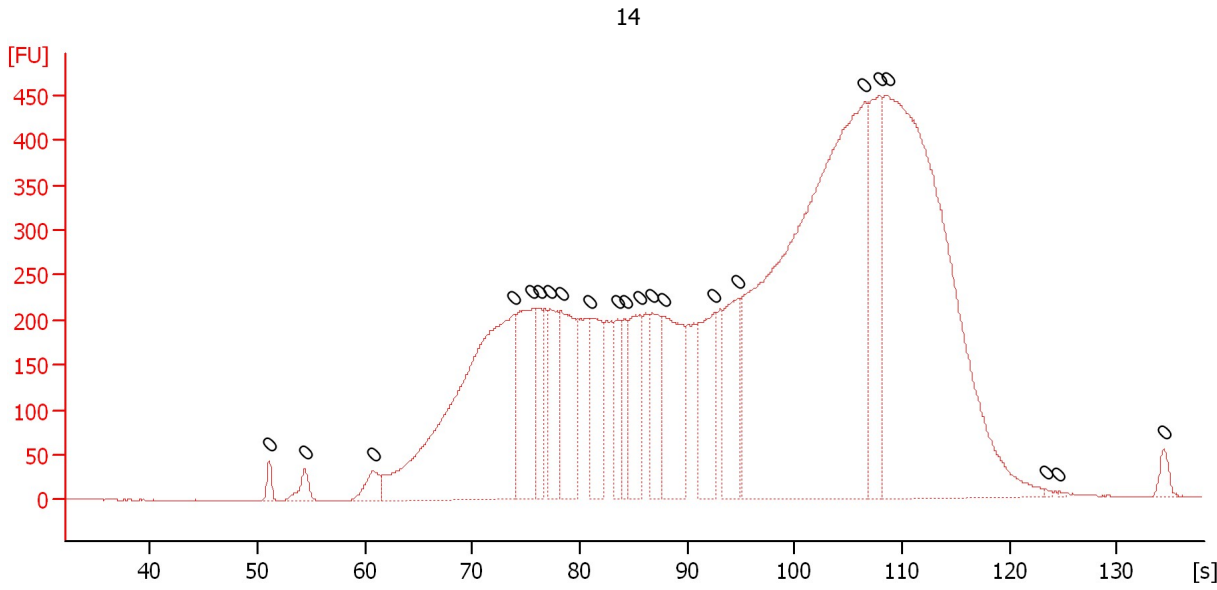
Electropherogram Summary Continued ...**... Peak table for sample 8 : 5**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		109.45
29	0	0.00	0.0		111.10
30	0	0.00	0.0		113.05
31	0	0.00	0.0		115.40
32	0	0.00	0.0		116.65
33	0	0.00	0.0		119.75
34	0	0.00	0.0		123.05
35	0	0.00	0.0		125.25
36	0	0.00	0.0		135.60

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-05\2016-05-05_001.xad

Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 14

Number of peaks found: 0 Noise: 0.4

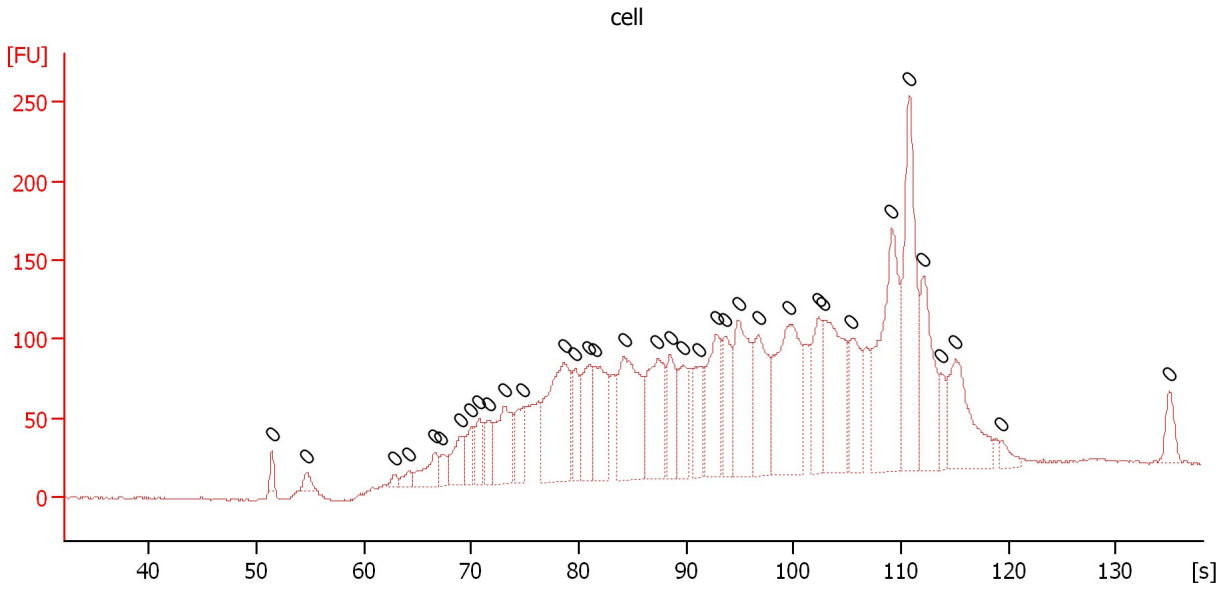
Peak table for sample 9 : 14

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		51.10
2	0	0.00	0.0		54.40
3	0	0.00	0.0		60.80
4	0	0.00	0.0		73.85
5	0	0.00	0.0		75.50
6	0	0.00	0.0		76.25
7	0	0.00	0.0		77.25
8	0	0.00	0.0		78.25
9	0	0.00	0.0		80.90
10	0	0.00	0.0		83.50
11	0	0.00	0.0		84.25
12	0	0.00	0.0		85.65
13	0	0.00	0.0		86.70
14	0	0.00	0.0		87.80
15	0	0.00	0.0		92.55
16	0	0.00	0.0		94.80
17	0	0.00	0.0		106.55
18	0	0.00	0.0		107.90
19	0	0.00	0.0		108.65
20	0	0.00	0.0		123.35
21	0	0.00	0.0		124.60
22	0	0.00	0.0		134.40

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-05\2016-05-05_001.xad

Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : cell

Number of peaks found: 0 Noise: 0.9

Peak table for sample 10 : cell

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		51.40
2	0	0.00	0.0		54.70
3	0	0.00	0.0		62.85
4	0	0.00	0.0		64.20
5	0	0.00	0.0		66.60
6	0	0.00	0.0		67.20
7	0	0.00	0.0		69.00
8	0	0.00	0.0		70.00
9	0	0.00	0.0		70.75
10	0	0.00	0.0		71.60
11	0	0.00	0.0		73.10
12	0	0.00	0.0		74.80
13	0	0.00	0.0		78.60
14	0	0.00	0.0		79.65
15	0	0.00	0.0		80.95
16	0	0.00	0.0		81.50
17	0	0.00	0.0		84.20
18	0	0.00	0.0		87.35
19	0	0.00	0.0		88.50
20	0	0.00	0.0		89.70
21	0	0.00	0.0		91.25
22	0	0.00	0.0		92.80
23	0	0.00	0.0		93.60
24	0	0.00	0.0		94.85
25	0	0.00	0.0		96.75
26	0	0.00	0.0		99.60
27	0	0.00	0.0		102.35

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-05\2016-05-05_001.xad

Created: 5/5/2016 10:52:12 AM
Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary Continued ...

... Peak table for sample 10 :

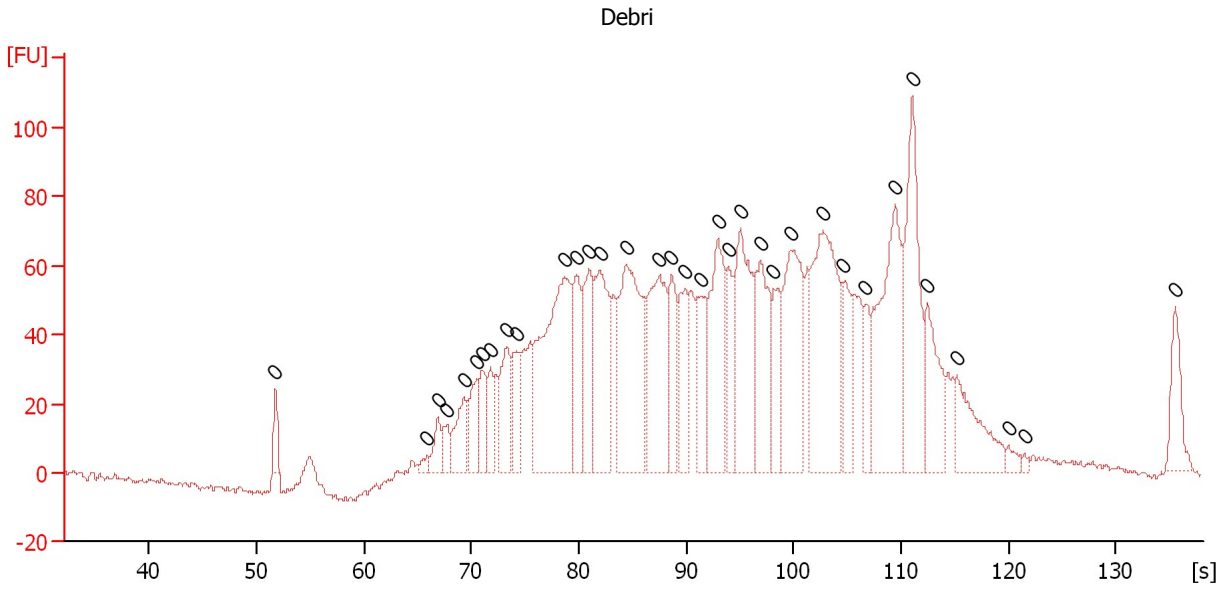
cell

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		102.80
29	0	0.00	0.0		105.40
30	0	0.00	0.0		109.15
31	0	0.00	0.0		110.80
32	0	0.00	0.0		112.05
33	0	0.00	0.0		113.65
34	0	0.00	0.0		115.10
35	0	0.00	0.0		119.35
36	0	0.00	0.0		134.95

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-05\2016-05-05_001.xad

Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Debri

Number of peaks found: 0 Noise: 1.1

Peak table for sample 11 : Debri

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		51.75
2	0	0.00	0.0		65.85
3	0	0.00	0.0		66.90
4	0	0.00	0.0		67.70
5	0	0.00	0.0		69.30
6	0	0.00	0.0		70.55
7	0	0.00	0.0		71.00
8	0	0.00	0.0		71.75
9	0	0.00	0.0		73.35
10	0	0.00	0.0		74.20
11	0	0.00	0.0		78.70
12	0	0.00	0.0		79.80
13	0	0.00	0.0		80.95
14	0	0.00	0.0		81.95
15	0	0.00	0.0		84.40
16	0	0.00	0.0		87.50
17	0	0.00	0.0		88.65
18	0	0.00	0.0		89.95
19	0	0.00	0.0		91.35
20	0	0.00	0.0		92.95
21	0	0.00	0.0		93.95
22	0	0.00	0.0		95.05
23	0	0.00	0.0		96.95
24	0	0.00	0.0		98.15
25	0	0.00	0.0		99.75
26	0	0.00	0.0		102.75
27	0	0.00	0.0		104.60

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-05\2016-05-05_001.xad

Created: 5/5/2016 10:52:12 AM
Modified: 5/5/2016 1:59:23 PM

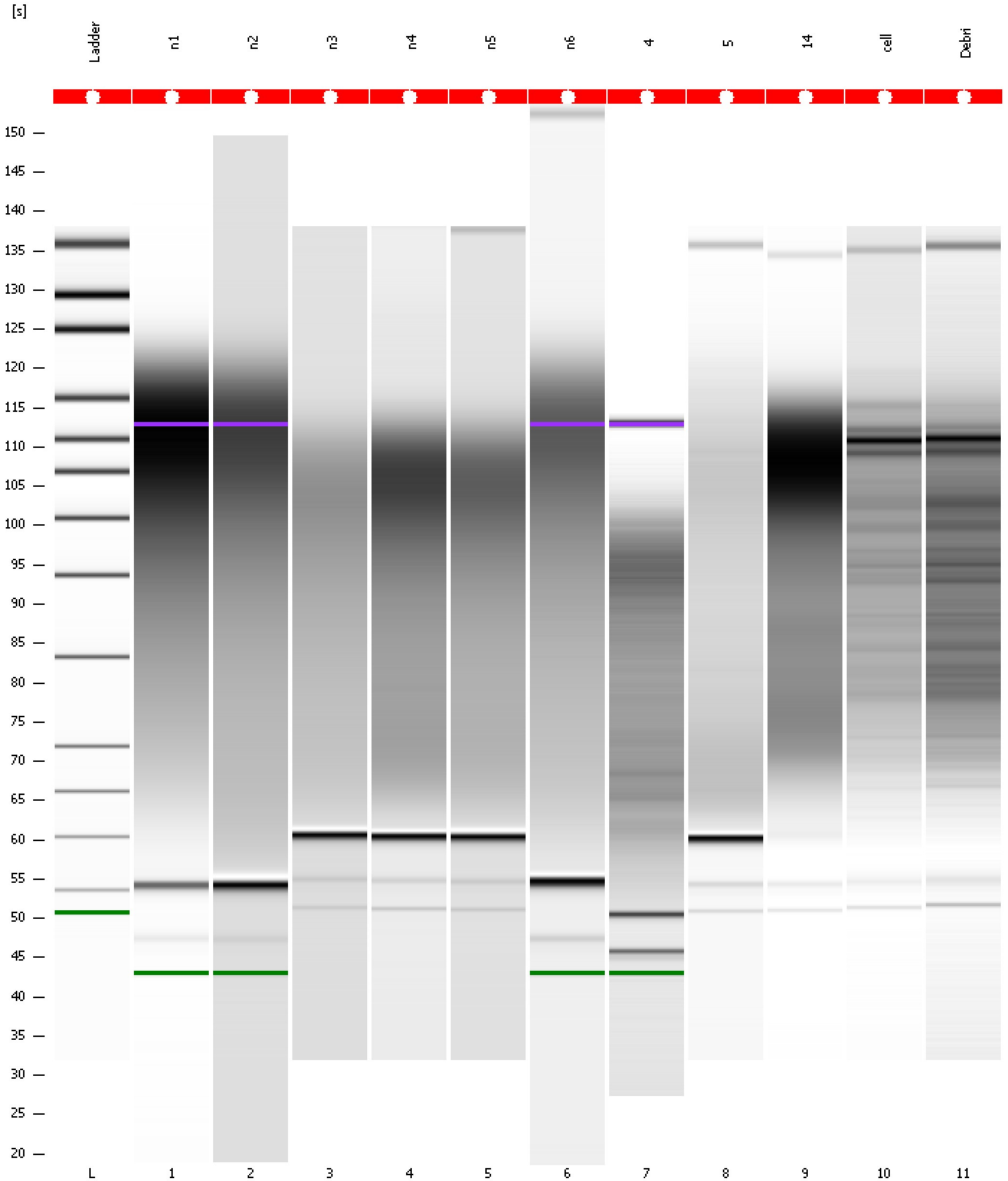
Electropherogram Summary Continued ...**... Peak table for sample 11 : Debri**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		106.70
29	0	0.00	0.0		109.45
30	0	0.00	0.0		111.05
31	0	0.00	0.0		112.50
32	0	0.00	0.0		115.20
33	0	0.00	0.0		120.00
34	0	0.00	0.0		121.50
35	0	0.00	0.0		135.50

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-05\2016-05-05_001.xad

Created: 5/5/2016 10:52:12 AM
Modified: 5/5/2016 1:59:23 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-05\2016-05-05_001.xad

Created: 5/5/2016 10:52:12 AM
 Modified: 5/5/2016 1:59:23 PM

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		5/5/2016 11:33:29 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-05-05\2016-05-05_001.xad)		Instrument	Run		5/5/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/5/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/5/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/5/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/5/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/5/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/5/2016 10:52:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1