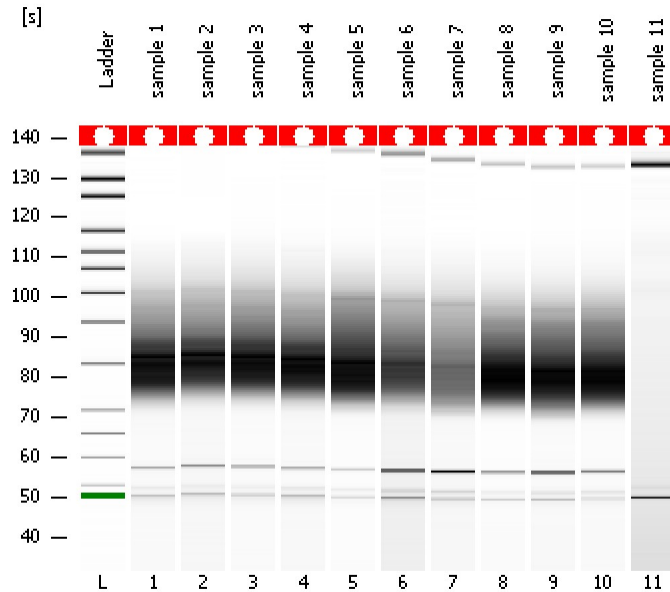


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
Modified: 7/11/2016 12:41:54 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

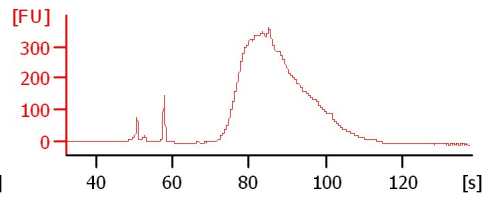
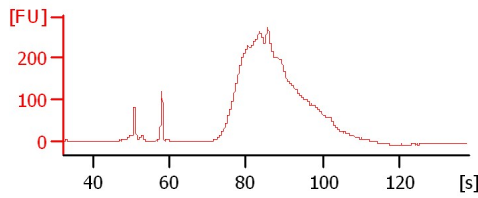
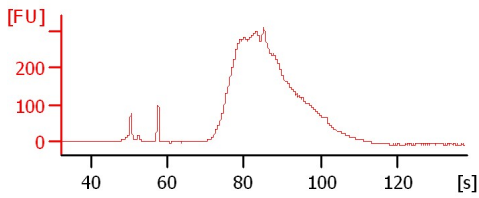
Chip Information:

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

sample 1

sample 2

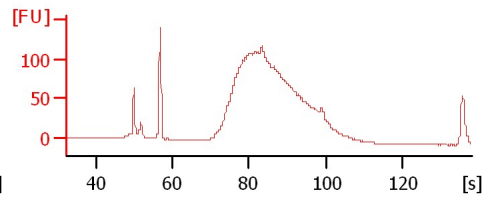
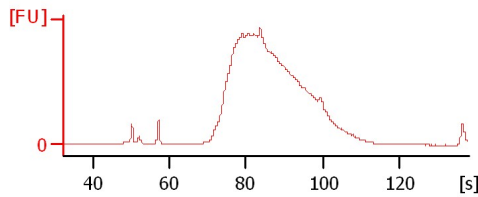
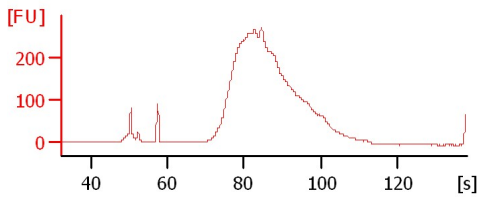
sample 3



sample 4

sample 5

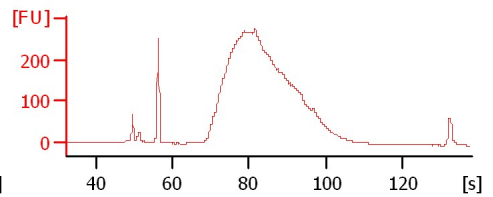
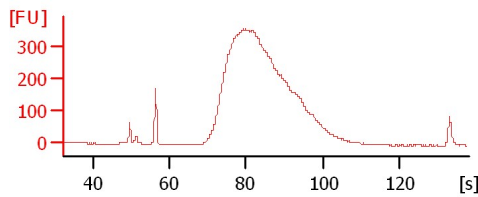
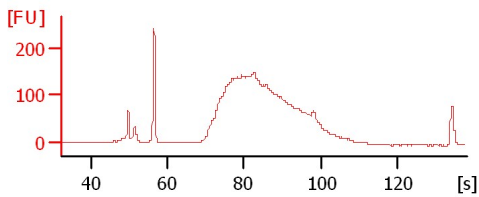
sample 6



sample 7

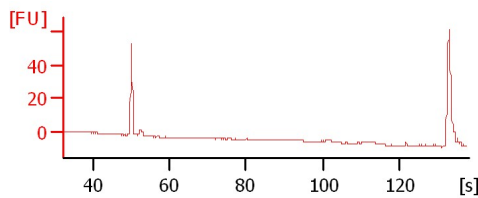
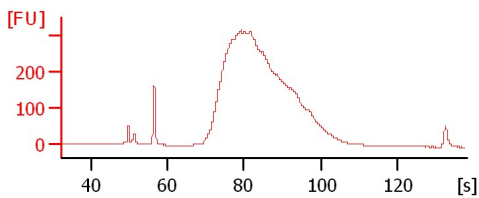
sample 8

sample 9



sample 10

sample 11



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
Modified: 7/11/2016 12:41:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 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:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
Modified: 7/11/2016 12:41:54 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

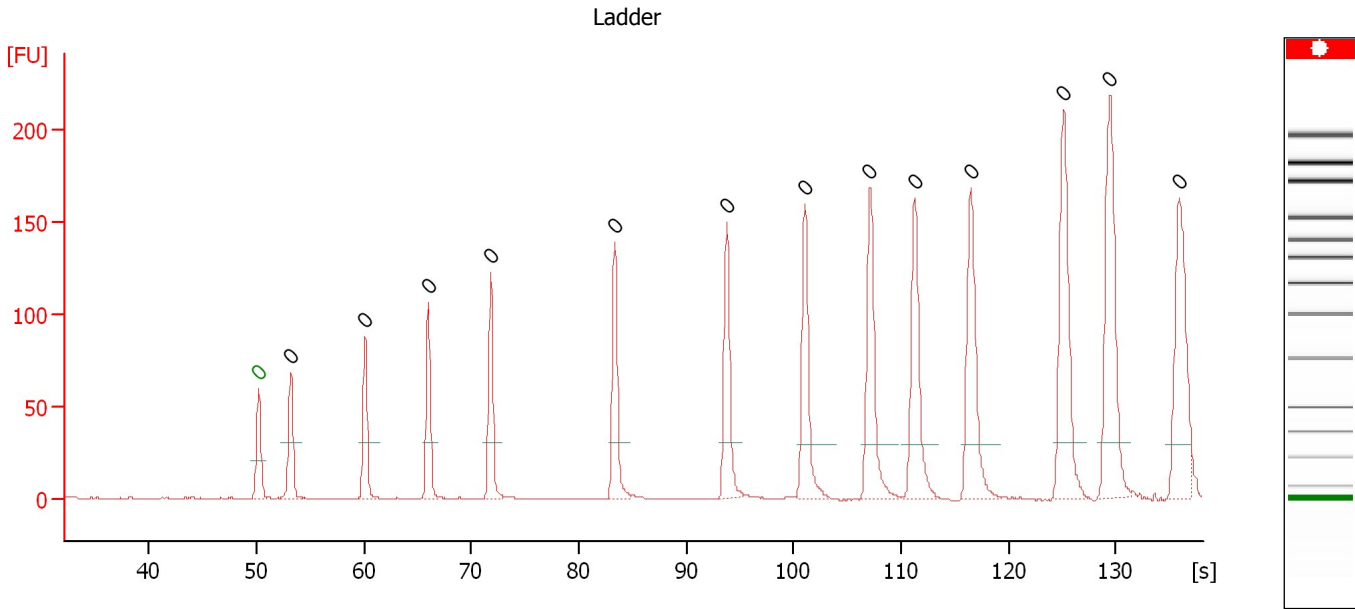
Ladder

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:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
 Modified: 7/11/2016 12:41:54 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

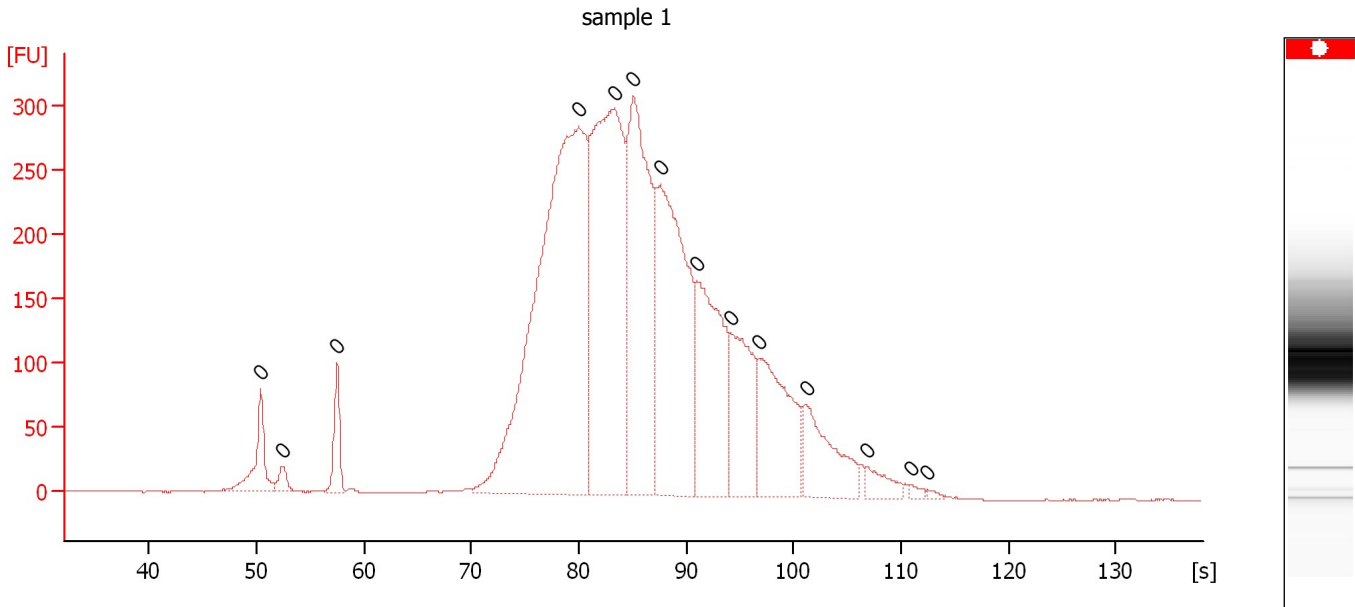
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	50.20
2	0	0.00	0.0	Ladder Peak	53.20
3	0	0.00	0.0	Ladder Peak	60.10
4	0	0.00	0.0	Ladder Peak	66.00
5	0	0.00	0.0	Ladder Peak	71.80
6	0	0.00	0.0	Ladder Peak	83.35
7	0	0.00	0.0	Ladder Peak	93.75
8	0	0.00	0.0	Ladder Peak	101.05
9	0	0.00	0.0	Ladder Peak	107.10
10	0	0.00	0.0	Ladder Peak	111.25
11	0	0.00	0.0	Ladder Peak	116.50
12	0	0.00	0.0	Ladder Peak	125.15
13	0	0.00	0.0	Ladder Peak	129.45
14	0	0.00	0.0	Ladder Peak	135.90

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
 Modified: 7/11/2016 12:41:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 0 Noise: 0.3

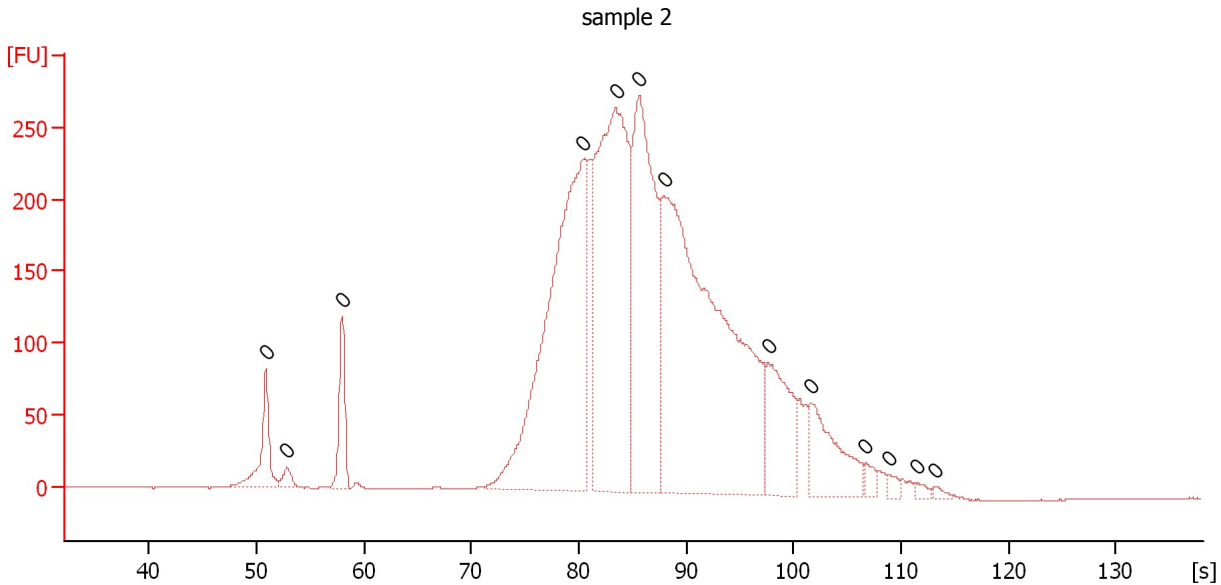
Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.40
2	0	0.00	0.0		52.45
3	0	0.00	0.0		57.50
4	0	0.00	0.0		79.95
5	0	0.00	0.0		83.30
6	0	0.00	0.0		85.05
7	0	0.00	0.0		87.60
8	0	0.00	0.0		91.00
9	0	0.00	0.0		94.15
10	0	0.00	0.0		96.75
11	0	0.00	0.0		101.15
12	0	0.00	0.0		106.80
13	0	0.00	0.0		110.90
14	0	0.00	0.0		112.45

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
 Modified: 7/11/2016 12:41:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 0 Noise: 0.3

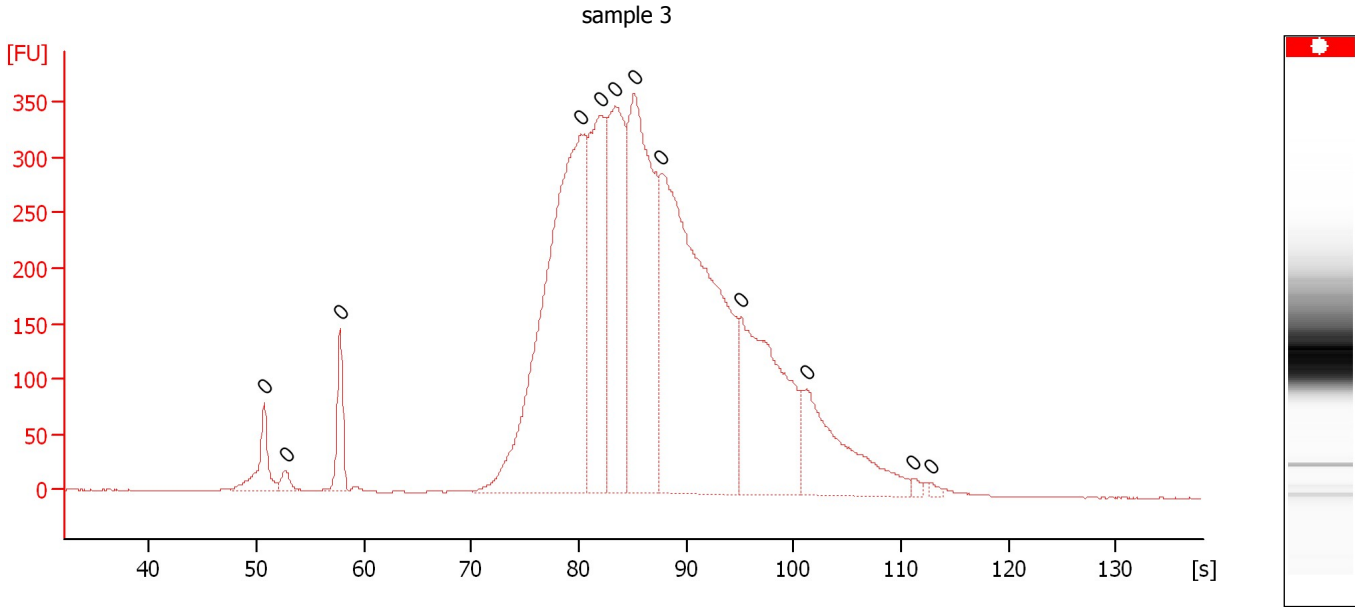
Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.85
2	0	0.00	0.0		52.85
3	0	0.00	0.0		57.95
4	0	0.00	0.0		80.40
5	0	0.00	0.0		83.45
6	0	0.00	0.0		85.60
7	0	0.00	0.0		87.95
8	0	0.00	0.0		97.65
9	0	0.00	0.0		101.60
10	0	0.00	0.0		106.70
11	0	0.00	0.0		108.90
12	0	0.00	0.0		111.45
13	0	0.00	0.0		113.25

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
 Modified: 7/11/2016 12:41:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 0 Noise: 0.3

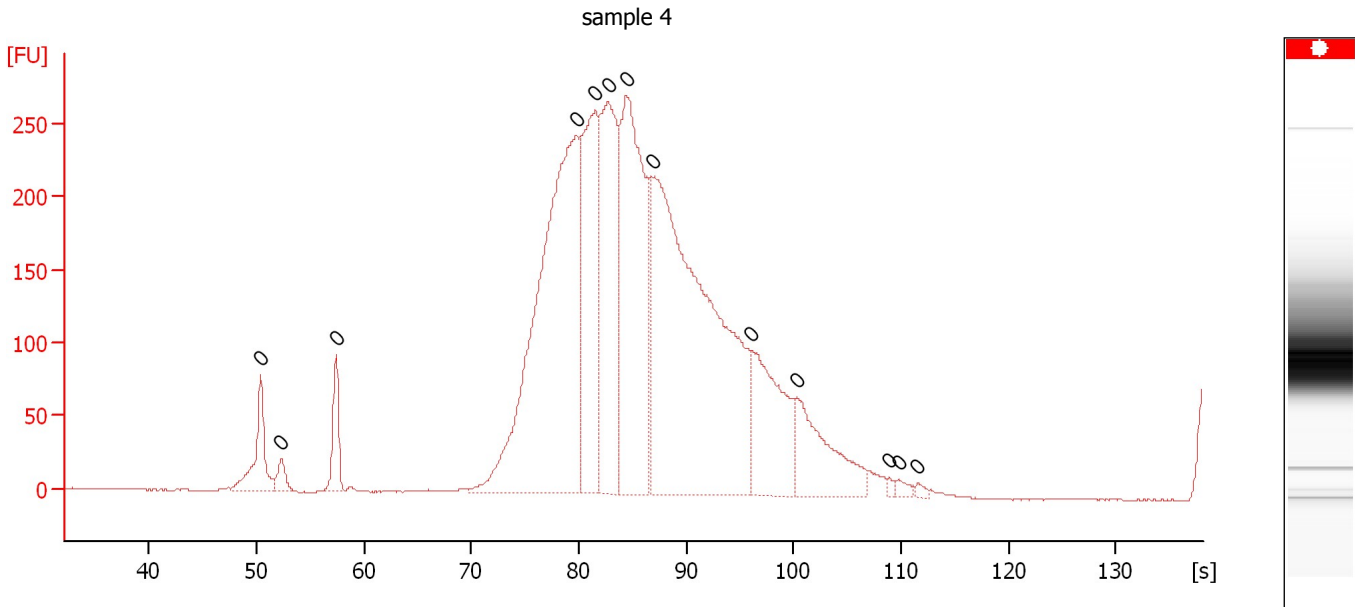
Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.70
2	0	0.00	0.0		52.70
3	0	0.00	0.0		57.80
4	0	0.00	0.0		80.15
5	0	0.00	0.0		81.95
6	0	0.00	0.0		83.40
7	0	0.00	0.0		85.15
8	0	0.00	0.0		87.70
9	0	0.00	0.0		95.10
10	0	0.00	0.0		101.15
11	0	0.00	0.0		111.05
12	0	0.00	0.0		112.80

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
 Modified: 7/11/2016 12:41:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 0 Noise: 0.4

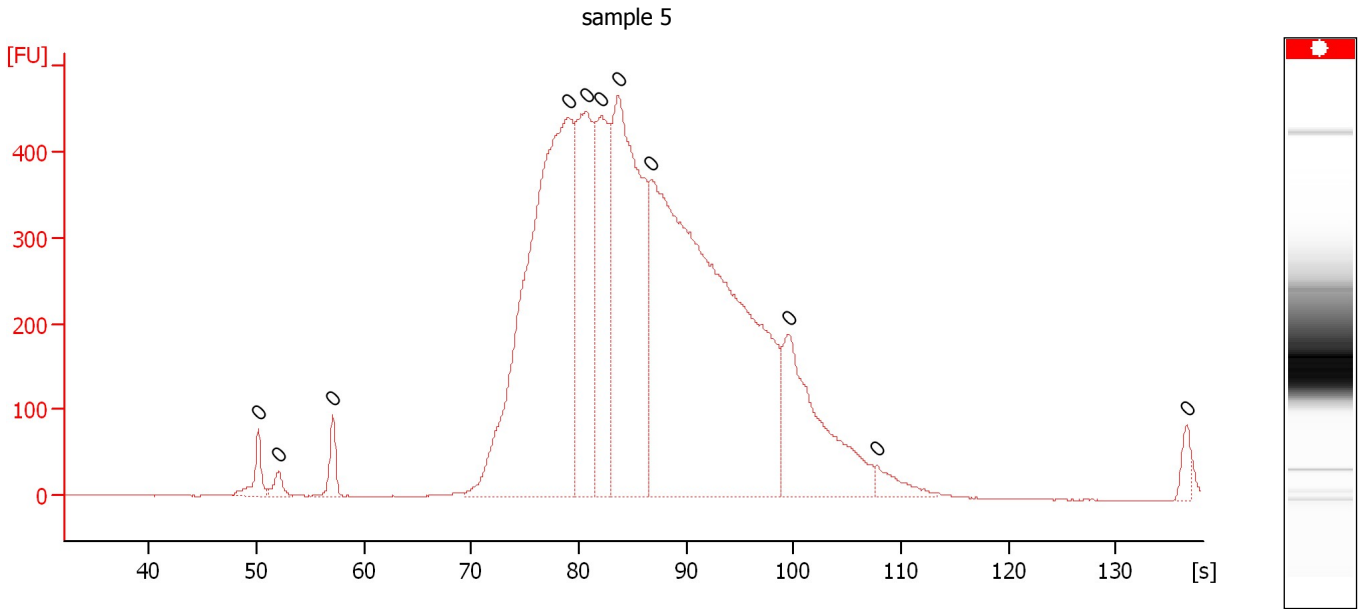
Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.40
2	0	0.00	0.0		52.30
3	0	0.00	0.0		57.40
4	0	0.00	0.0		79.80
5	0	0.00	0.0		81.50
6	0	0.00	0.0		82.70
7	0	0.00	0.0		84.40
8	0	0.00	0.0		86.80
9	0	0.00	0.0		96.05
10	0	0.00	0.0		100.35
11	0	0.00	0.0		108.95
12	0	0.00	0.0		109.75
13	0	0.00	0.0		111.55

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
 Modified: 7/11/2016 12:41:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 0 Noise: 0.3

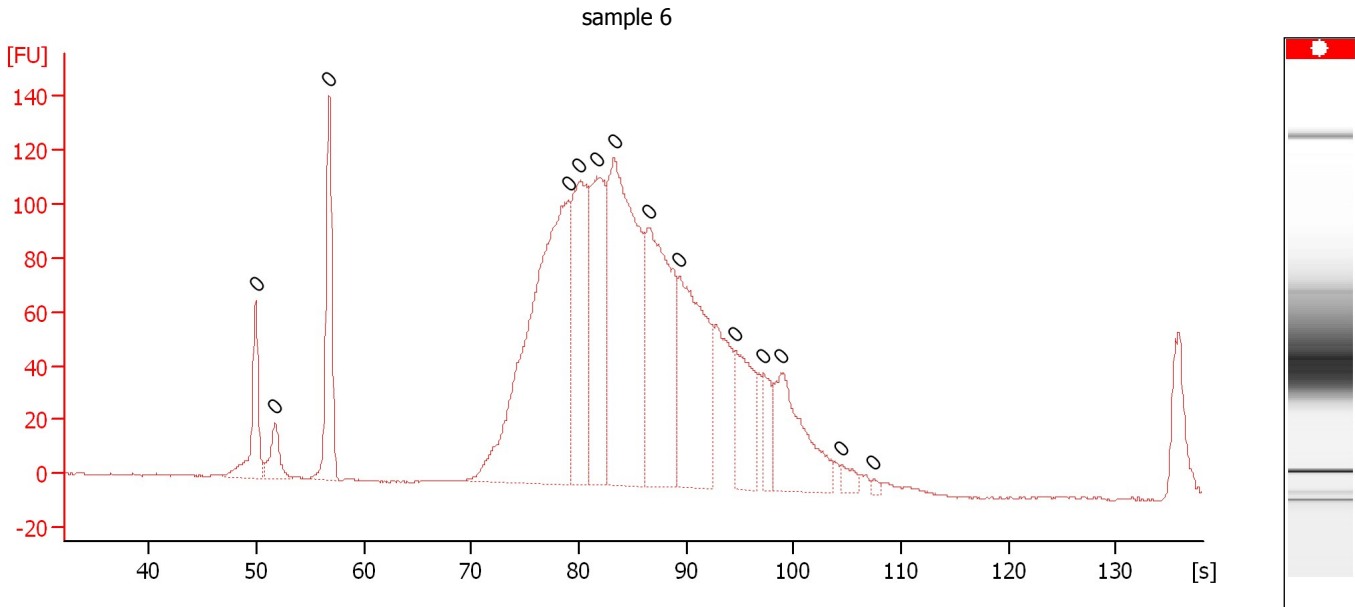
Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.15
2	0	0.00	0.0		52.05
3	0	0.00	0.0		57.10
4	0	0.00	0.0		79.00
5	0	0.00	0.0		80.75
6	0	0.00	0.0		82.10
7	0	0.00	0.0		83.70
8	0	0.00	0.0		86.65
9	0	0.00	0.0		99.55
10	0	0.00	0.0		107.80
11	0	0.00	0.0		136.60

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
 Modified: 7/11/2016 12:41:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 0 Noise: 0.3

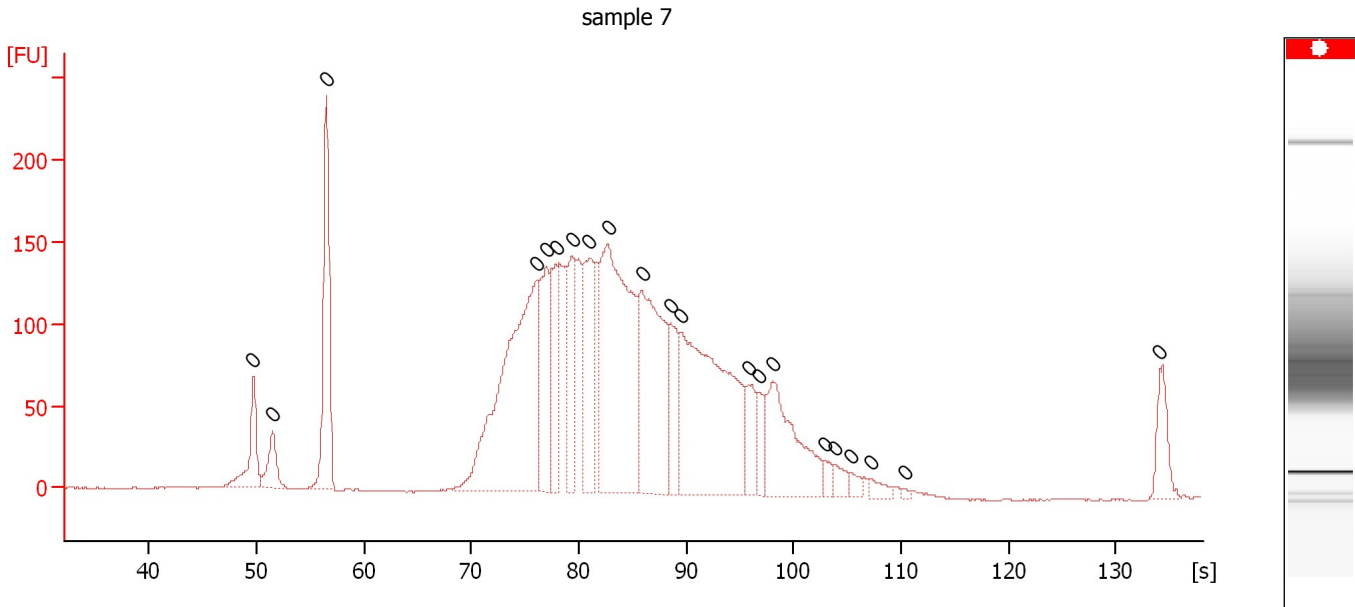
Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.90
2	0	0.00	0.0		51.70
3	0	0.00	0.0		56.75
4	0	0.00	0.0		79.05
5	0	0.00	0.0		79.95
6	0	0.00	0.0		81.70
7	0	0.00	0.0		83.30
8	0	0.00	0.0		86.50
9	0	0.00	0.0		89.35
10	0	0.00	0.0		94.55
11	0	0.00	0.0		97.20
12	0	0.00	0.0		98.85
13	0	0.00	0.0		104.45
14	0	0.00	0.0		107.45

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
 Modified: 7/11/2016 12:41:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 0 Noise: 0.3

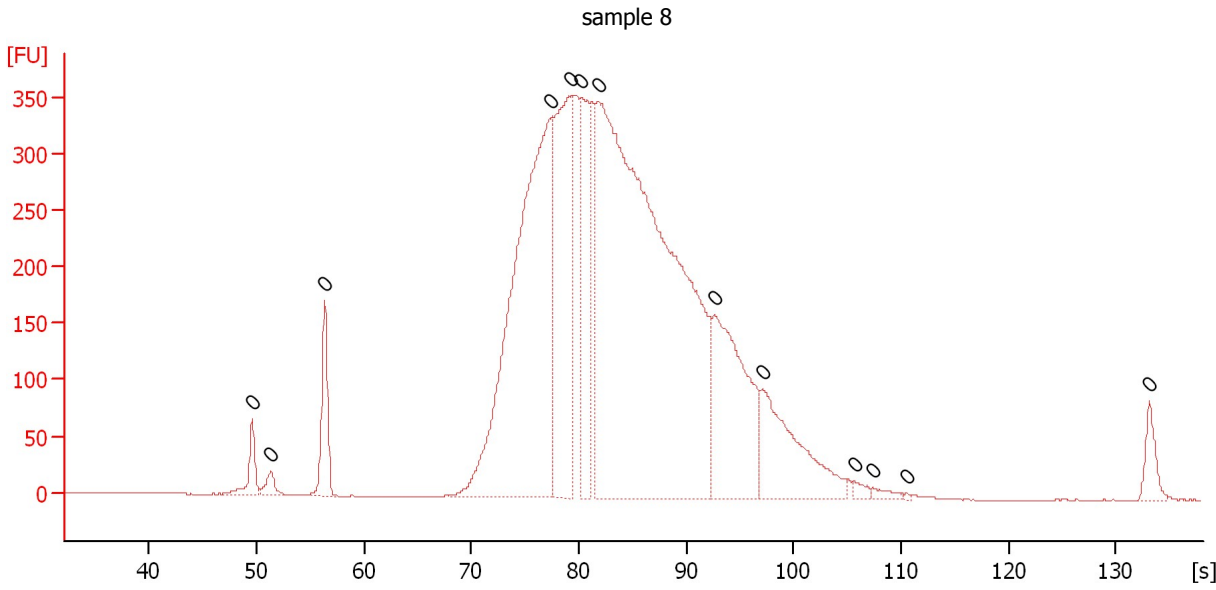
Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.70
2	0	0.00	0.0		51.50
3	0	0.00	0.0		56.50
4	0	0.00	0.0		76.10
5	0	0.00	0.0		77.00
6	0	0.00	0.0		77.85
7	0	0.00	0.0		79.40
8	0	0.00	0.0		80.95
9	0	0.00	0.0		82.70
10	0	0.00	0.0		85.90
11	0	0.00	0.0		88.55
12	0	0.00	0.0		89.45
13	0	0.00	0.0		95.85
14	0	0.00	0.0		96.75
15	0	0.00	0.0		98.05
16	0	0.00	0.0		102.90
17	0	0.00	0.0		103.85
18	0	0.00	0.0		105.30
19	0	0.00	0.0		107.15
20	0	0.00	0.0		110.30
21	0	0.00	0.0		134.10

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
 Modified: 7/11/2016 12:41:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 0 Noise: 0.2

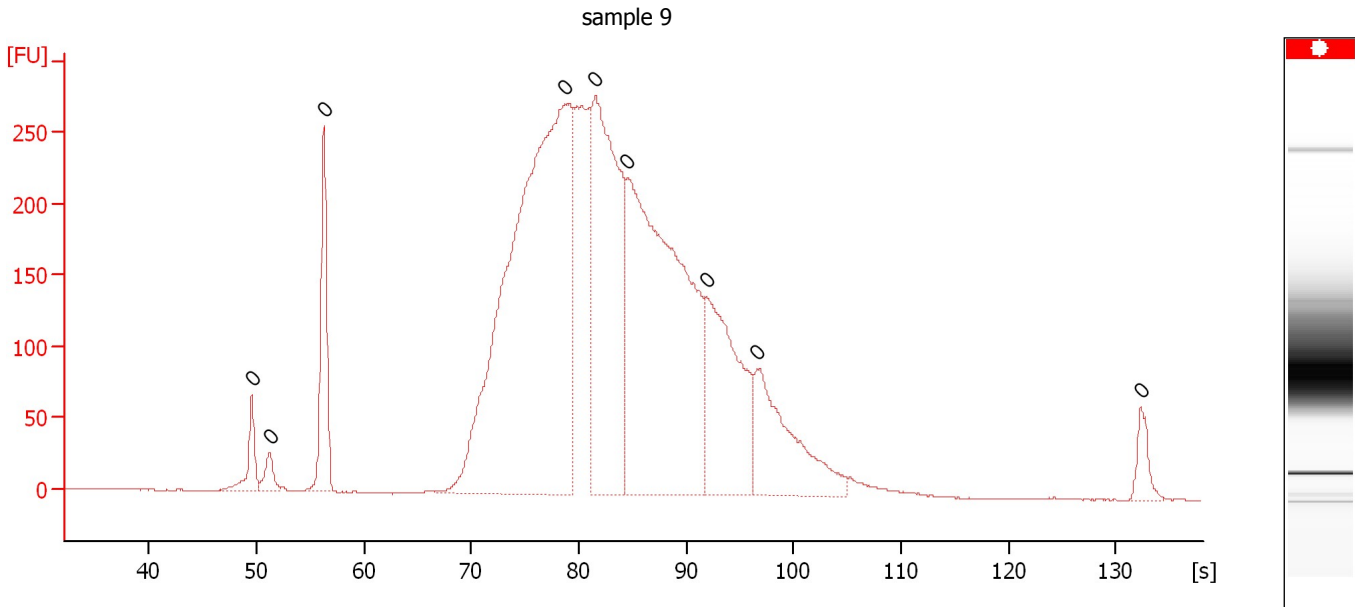
Peak table for sample 8 : sample 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.60
2	0	0.00	0.0		51.30
3	0	0.00	0.0		56.35
4	0	0.00	0.0		77.45
5	0	0.00	0.0		79.30
6	0	0.00	0.0		80.15
7	0	0.00	0.0		81.80
8	0	0.00	0.0		92.60
9	0	0.00	0.0		97.05
10	0	0.00	0.0		105.65
11	0	0.00	0.0		107.35
12	0	0.00	0.0		110.50
13	0	0.00	0.0		133.10

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
 Modified: 7/11/2016 12:41:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 0 Noise: 0.2

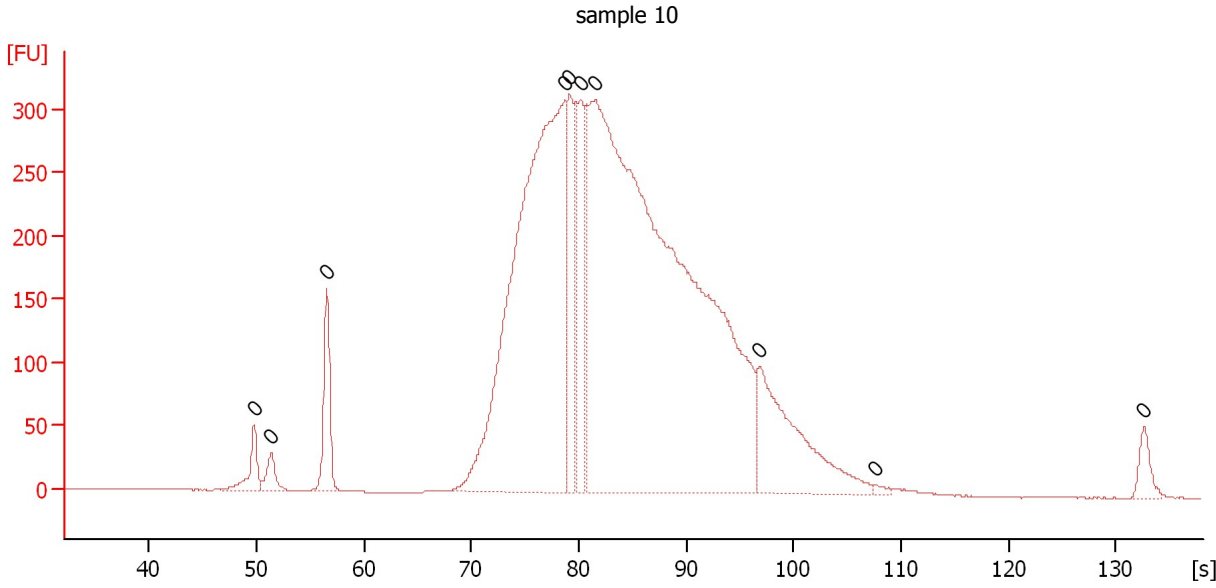
Peak table for sample 9 : sample 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.55
2	0	0.00	0.0		51.20
3	0	0.00	0.0		56.25
4	0	0.00	0.0		78.70
5	0	0.00	0.0		81.50
6	0	0.00	0.0		84.55
7	0	0.00	0.0		91.85
8	0	0.00	0.0		96.60
9	0	0.00	0.0		132.35

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
 Modified: 7/11/2016 12:41:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 0 Noise: 0.2

Peak table for sample 10 : sample 10

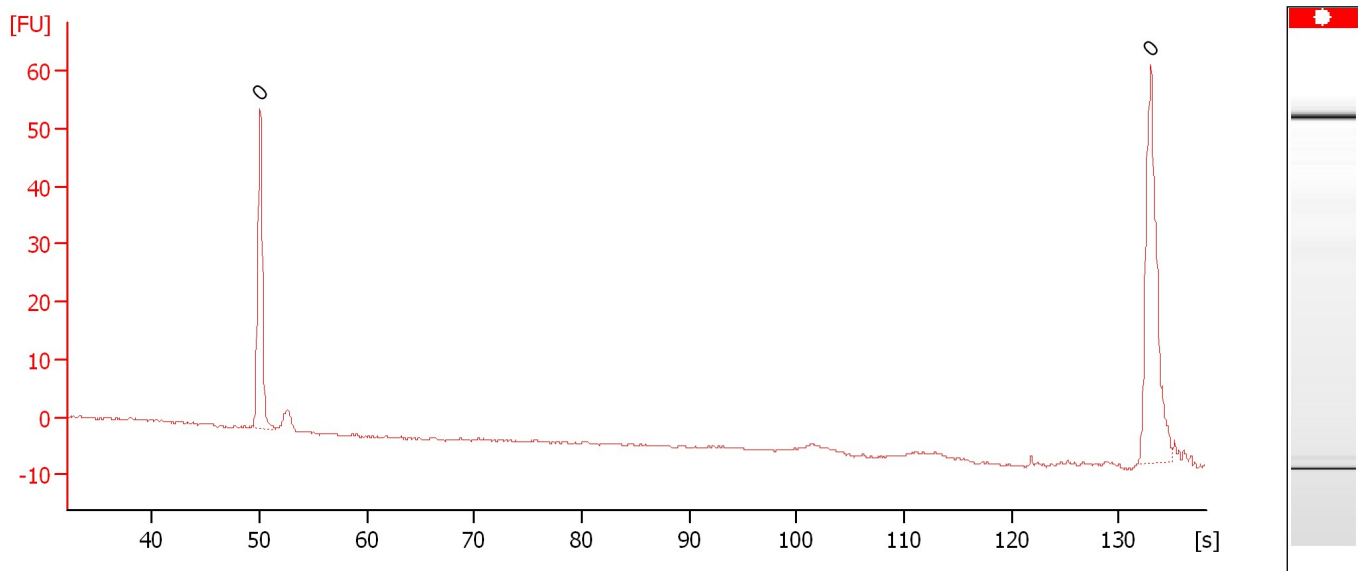
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.75
2	0	0.00	0.0		51.35
3	0	0.00	0.0		56.55
4	0	0.00	0.0		78.70
5	0	0.00	0.0		79.15
6	0	0.00	0.0		80.15
7	0	0.00	0.0		81.55
8	0	0.00	0.0		96.85
9	0	0.00	0.0		107.60
10	0	0.00	0.0		132.60

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
 Modified: 7/11/2016 12:41:54 PM

Electropherogram Summary Continued ...

sample 11



Overall Results for sample 11 : sample 11

Number of peaks found: 0 Noise: 0.2

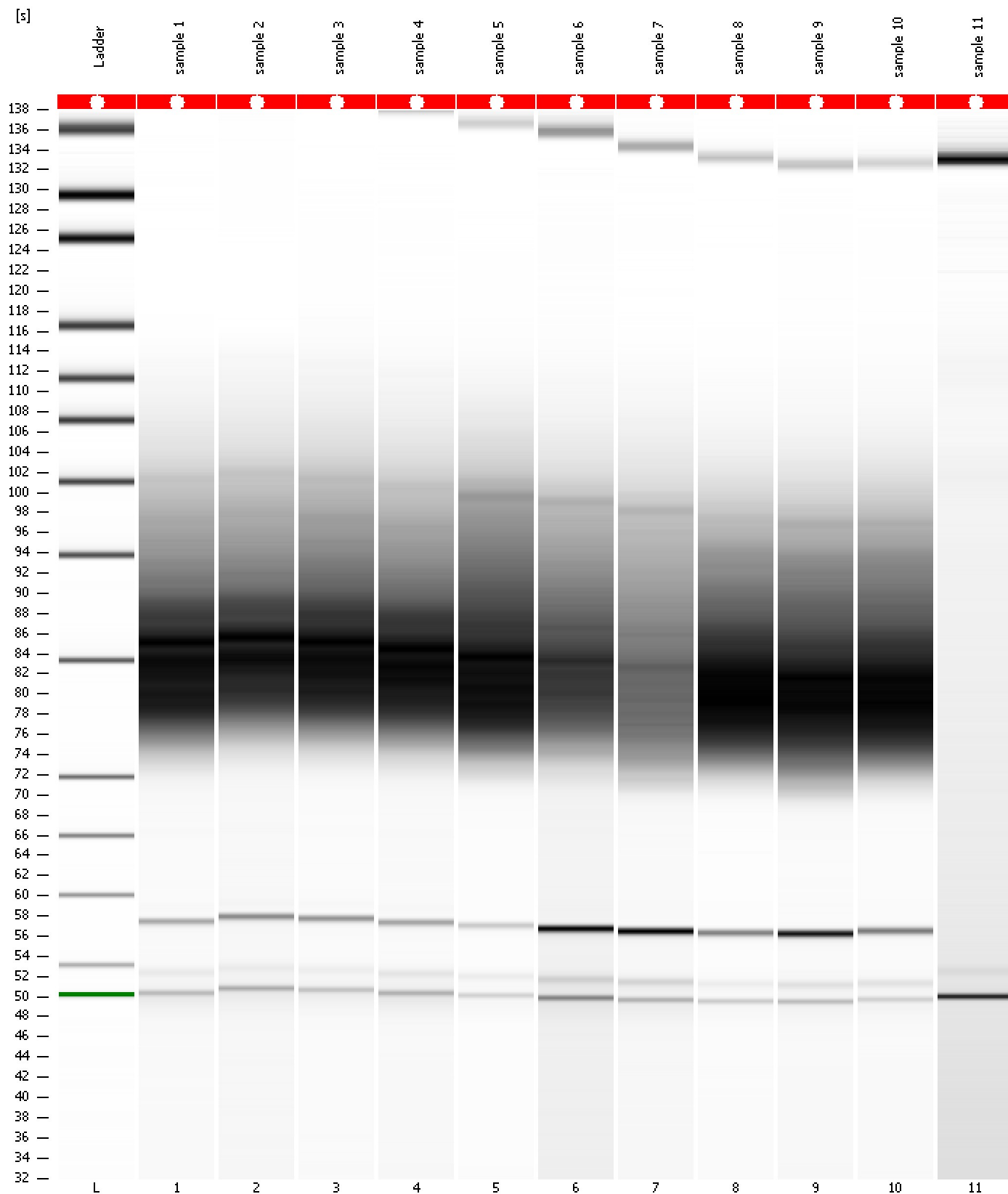
Peak table for sample 11 : sample 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.05
2	0	0.00	0.0		133.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
Modified: 7/11/2016 12:41:54 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad

Created: 7/11/2016 12:00:35 PM
 Modified: 7/11/2016 12:41:54 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		7/11/2016 12:41:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-07-11\2016-07-11_001.xad)		Instrument	Run		7/11/2016 12:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/11/2016 12:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/11/2016 12:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/11/2016 12:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/11/2016 12:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/11/2016 12:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/11/2016 12:00:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1