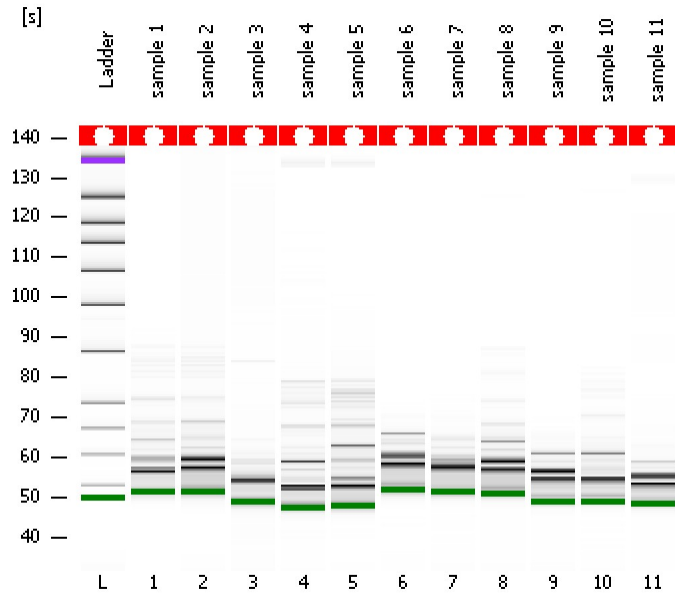


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
Modified: 1/29/2015 10:08:45 AM

Electrophoresis File Run Summary



Instrument Information:

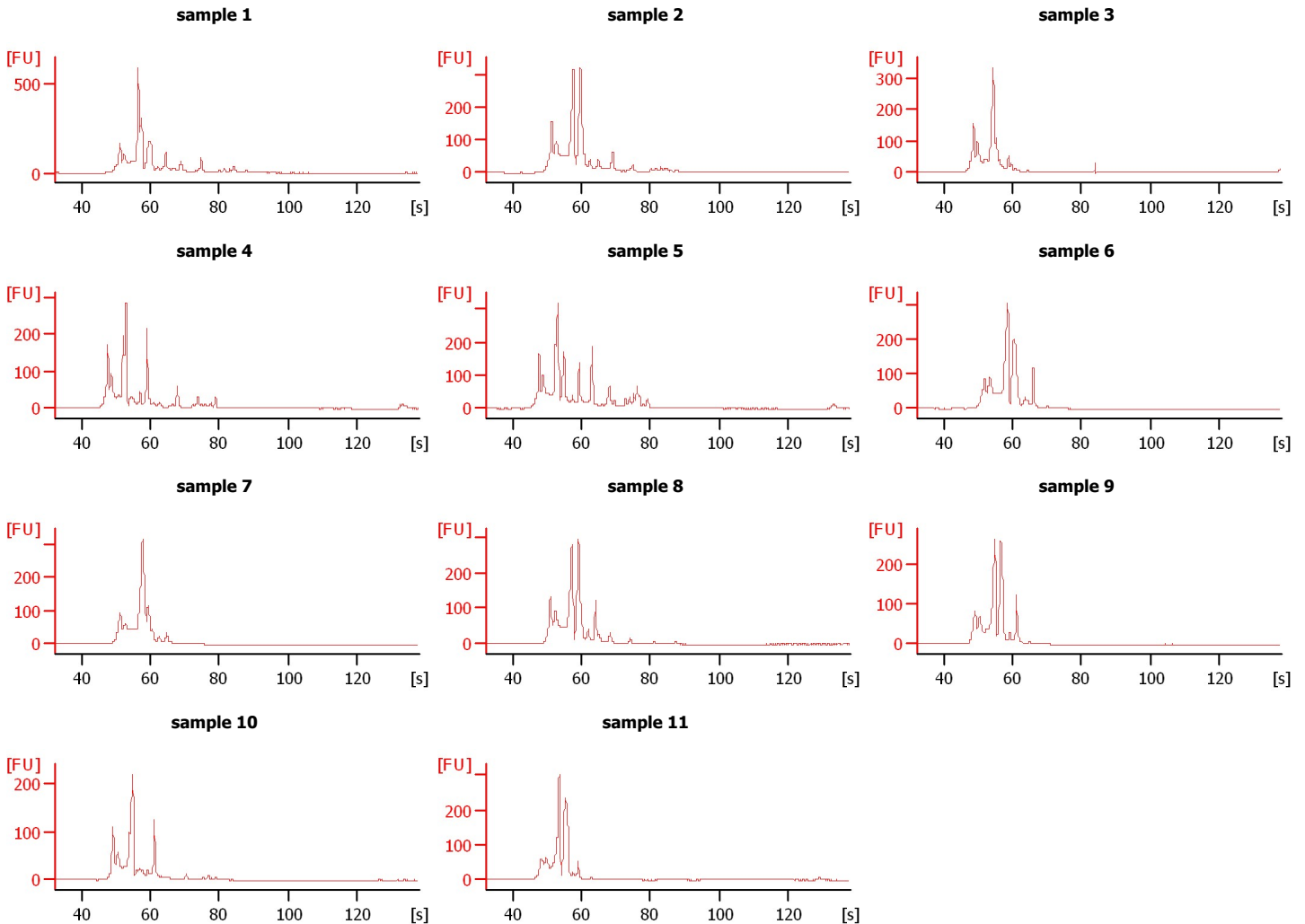
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
 Modified: 1/29/2015 10:08:45 AM

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:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
Modified: 1/29/2015 10:08:45 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

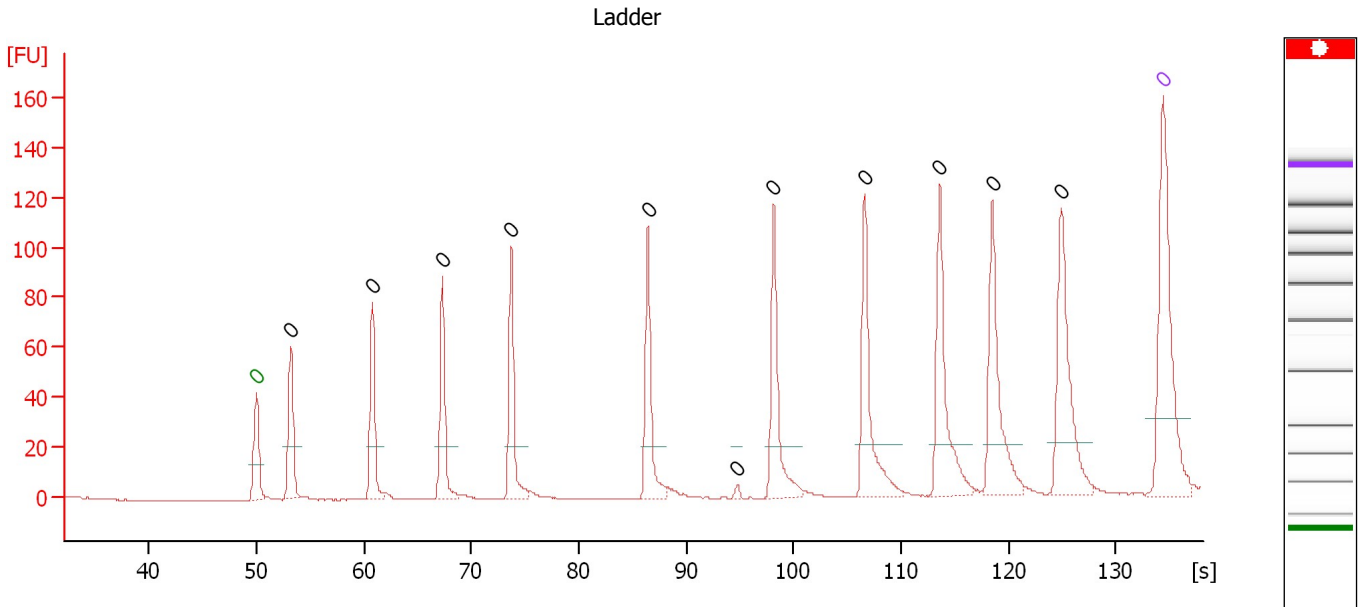
Ladder

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\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
 Modified: 1/29/2015 10:08:45 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

Peak table for Ladder

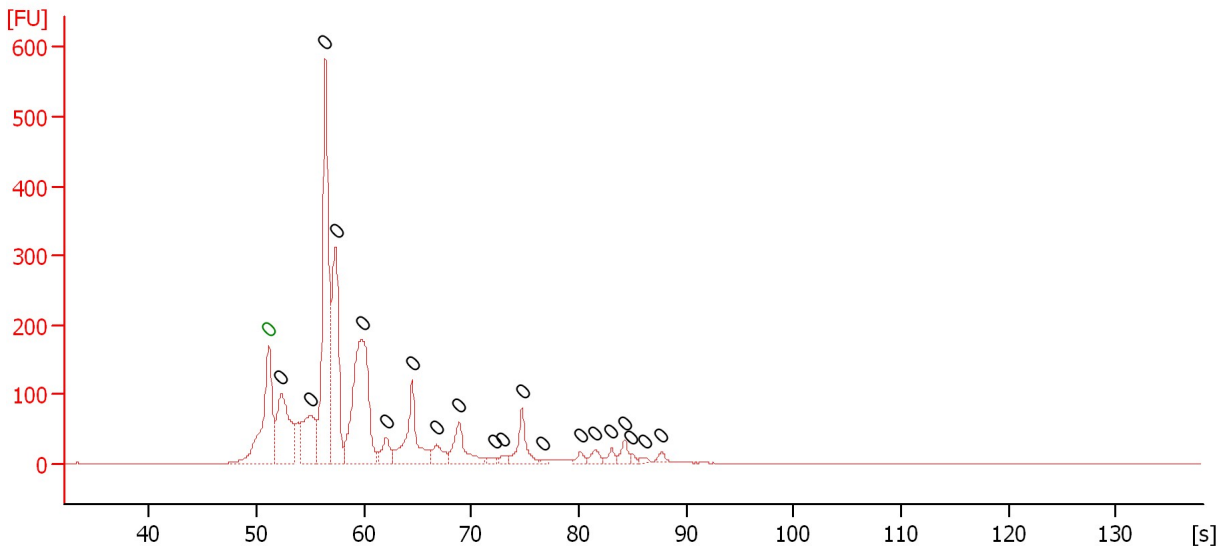
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	50.00
2	0	0.00	0.0	Ladder Peak	53.20
3	0	0.00	0.0	Ladder Peak	60.80
4	0	0.00	0.0	Ladder Peak	67.30
5	0	0.00	0.0	Ladder Peak	73.70
6	0	0.00	0.0	Ladder Peak	86.45
7	0	0.00	0.0	Ladder Peak	94.75
8	0	0.00	0.0	Ladder Peak	98.15
9	0	0.00	0.0	Ladder Peak	106.60
10	0	0.00	0.0	Ladder Peak	113.60
11	0	0.00	0.0	Ladder Peak	118.50
12	0	0.00	0.0	Ladder Peak	124.95
13	0	0.00	0.0	Upper Marker	134.40

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
 Modified: 1/29/2015 10:08:45 AM

Electropherogram Summary Continued ...

sample 1



Overall Results for sample 1 : sample 1

Number of peaks found: 20 Noise: 0.2

Peak table for sample 1 : sample 1

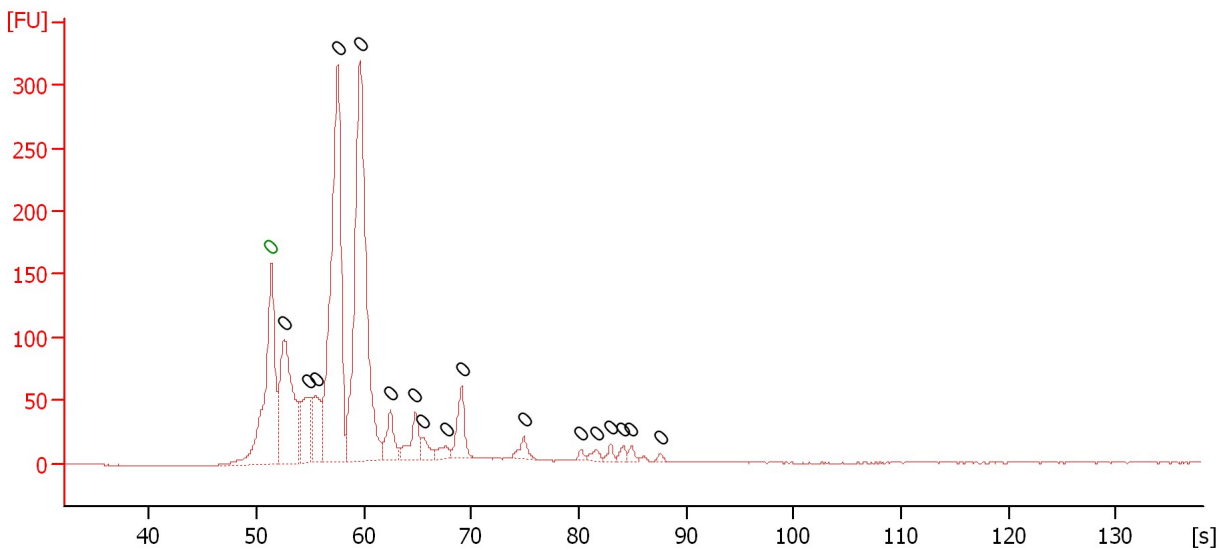
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	51.15
2	0	0.00	0.0		52.30
3	0	0.00	0.0		55.05
4	0	0.00	0.0		56.40
5	0	0.00	0.0		57.35
6	0	0.00	0.0		59.80
7	0	0.00	0.0		62.05
8	0	0.00	0.0		64.50
9	0	0.00	0.0		66.75
10	0	0.00	0.0		68.90
11	0	0.00	0.0		72.20
12	0	0.00	0.0		73.00
13	0	0.00	0.0		74.70
14	0	0.00	0.0		76.65
15	0	0.00	0.0		80.15
16	0	0.00	0.0		81.55
17	0	0.00	0.0		83.05
18	0	0.00	0.0		84.25
19	0	0.00	0.0		84.90
20	0	0.00	0.0		86.15
21	0	0.00	0.0		87.70

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
 Modified: 1/29/2015 10:08:45 AM

Electropherogram Summary Continued ...

sample 2



Overall Results for sample 2 : sample 2

Number of peaks found: 17 Noise: 0.3

Peak table for sample 2 : sample 2

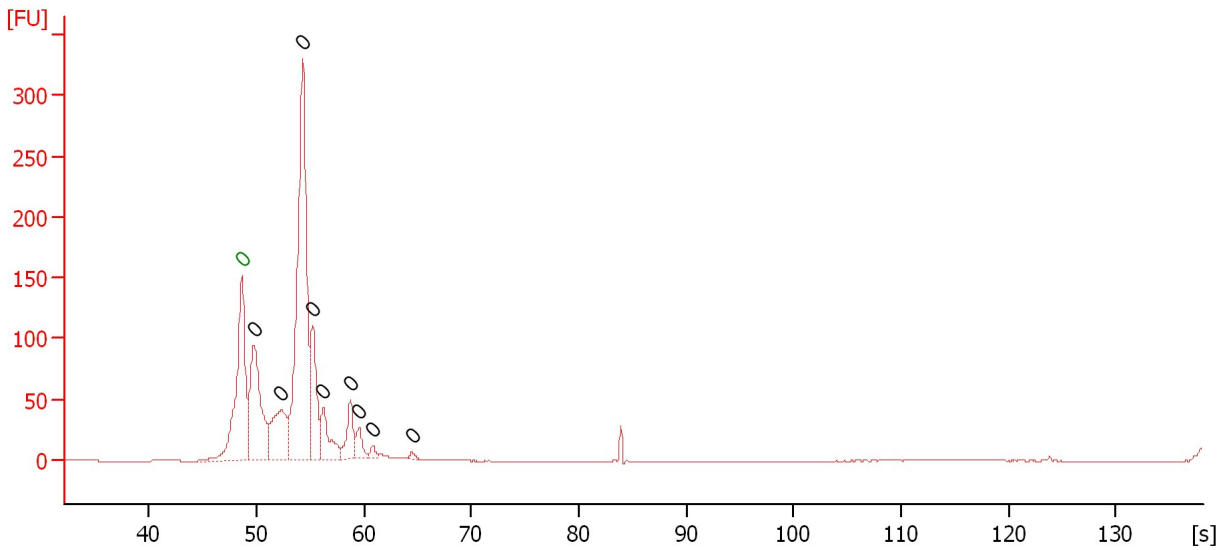
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	51.35
2	0	0.00	0.0		52.60
3	0	0.00	0.0		54.80
4	0	0.00	0.0		55.50
5	0	0.00	0.0		57.55
6	0	0.00	0.0		59.65
7	0	0.00	0.0		62.45
8	0	0.00	0.0		64.80
9	0	0.00	0.0		65.50
10	0	0.00	0.0		67.60
11	0	0.00	0.0		69.10
12	0	0.00	0.0		74.90
13	0	0.00	0.0		80.20
14	0	0.00	0.0		81.60
15	0	0.00	0.0		83.00
16	0	0.00	0.0		84.15
17	0	0.00	0.0		84.90
18	0	0.00	0.0		87.55

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
 Modified: 1/29/2015 10:08:45 AM

Electropherogram Summary Continued ...

sample 3



Overall Results for sample 3 : sample 3

Number of peaks found: 9 Noise: 0.2

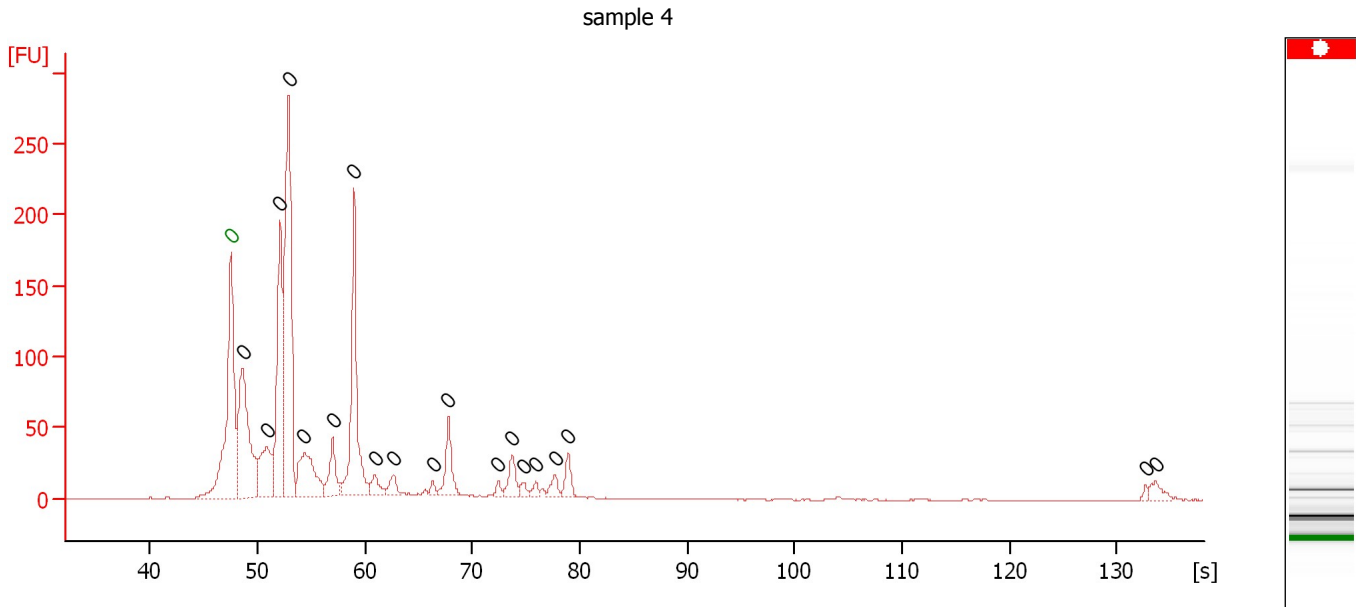
Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	48.65
2	0	0.00	0.0		49.75
3	0	0.00	0.0		52.30
4	0	0.00	0.0		54.30
5	0	0.00	0.0		55.20
6	0	0.00	0.0		56.20
7	0	0.00	0.0		58.75
8	0	0.00	0.0		59.50
9	0	0.00	0.0		60.85
10	0	0.00	0.0		64.50

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
 Modified: 1/29/2015 10:08:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 19 Noise: 0.2

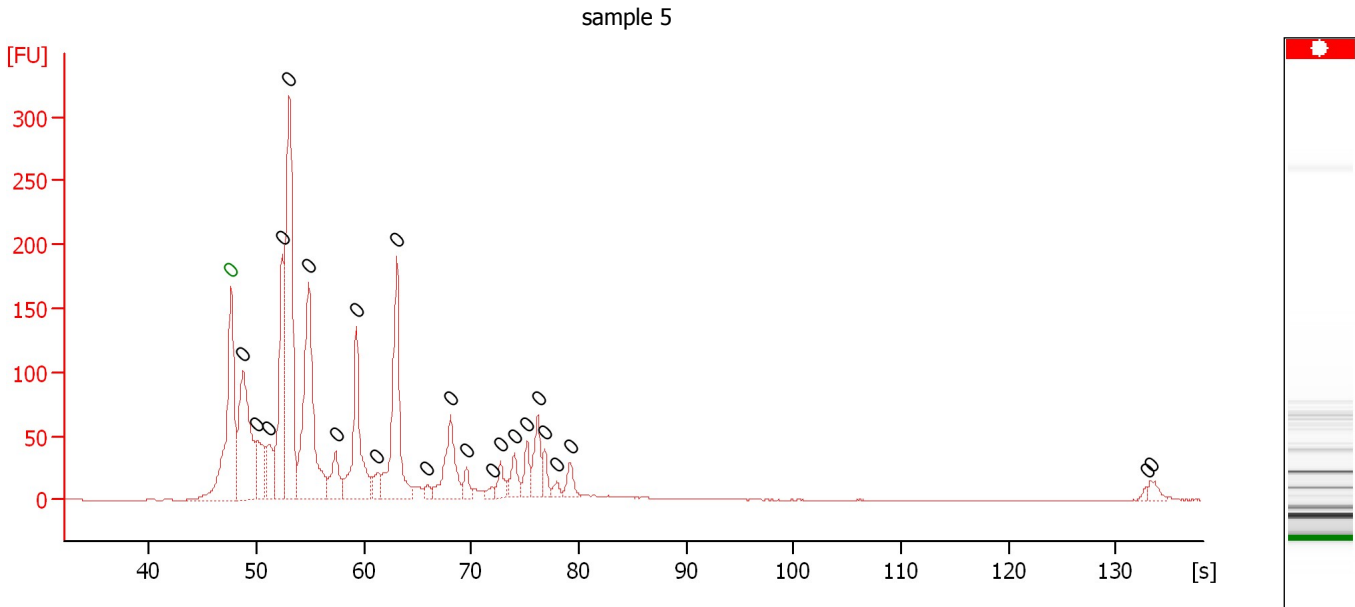
Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	47.55
2	0	0.00	0.0		48.60
3	0	0.00	0.0		50.85
4	0	0.00	0.0		52.05
5	0	0.00	0.0		52.90
6	0	0.00	0.0		54.35
7	0	0.00	0.0		57.00
8	0	0.00	0.0		59.00
9	0	0.00	0.0		60.95
10	0	0.00	0.0		62.65
11	0	0.00	0.0		66.30
12	0	0.00	0.0		67.75
13	0	0.00	0.0		72.40
14	0	0.00	0.0		73.70
15	0	0.00	0.0		74.80
16	0	0.00	0.0		75.90
17	0	0.00	0.0		77.70
18	0	0.00	0.0		78.90
19	0	0.00	0.0		132.70
20	0	0.00	0.0		133.65

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
 Modified: 1/29/2015 10:08:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 23 Noise: 0.1

Peak table for sample 5 : sample 5

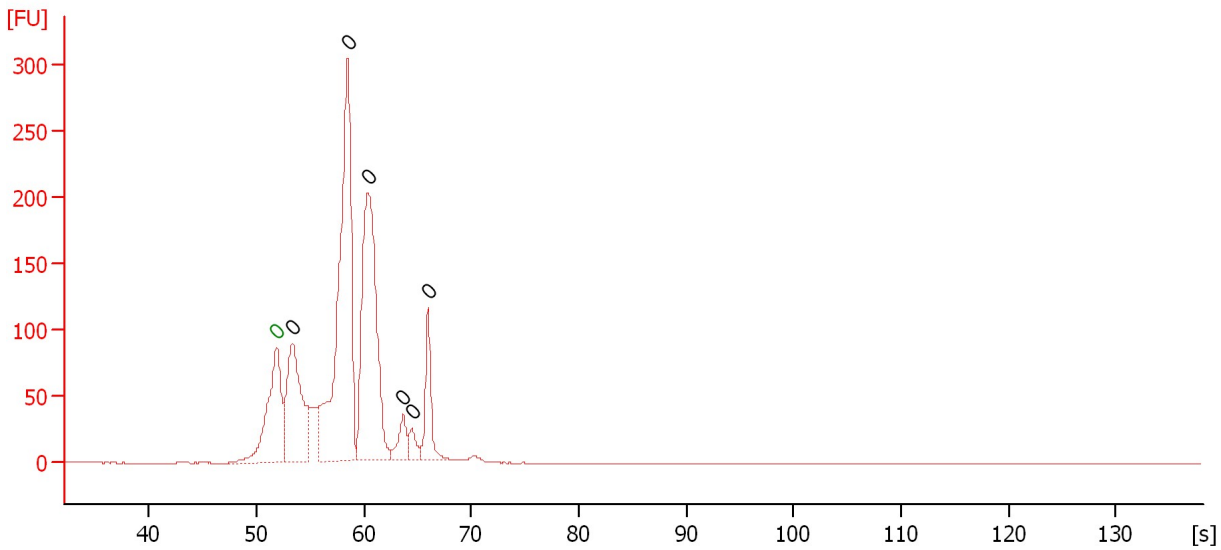
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	47.60
2	0	0.00	0.0		48.75
3	0	0.00	0.0		50.05
4	0	0.00	0.0		51.10
5	0	0.00	0.0		52.40
6	0	0.00	0.0		53.05
7	0	0.00	0.0		54.85
8	0	0.00	0.0		57.35
9	0	0.00	0.0		59.30
10	0	0.00	0.0		61.25
11	0	0.00	0.0		63.05
12	0	0.00	0.0		65.90
13	0	0.00	0.0		68.05
14	0	0.00	0.0		69.55
15	0	0.00	0.0		71.90
16	0	0.00	0.0		72.70
17	0	0.00	0.0		74.00
18	0	0.00	0.0		75.20
19	0	0.00	0.0		76.20
20	0	0.00	0.0		76.80
21	0	0.00	0.0		77.95
22	0	0.00	0.0		79.20
23	0	0.00	0.0		132.85
24	0	0.00	0.0		133.25

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
 Modified: 1/29/2015 10:08:45 AM

Electropherogram Summary Continued ...

sample 6



Overall Results for sample 6 : sample 6

Number of peaks found: 6 Noise: 0.1

Peak table for sample 6 : sample 6

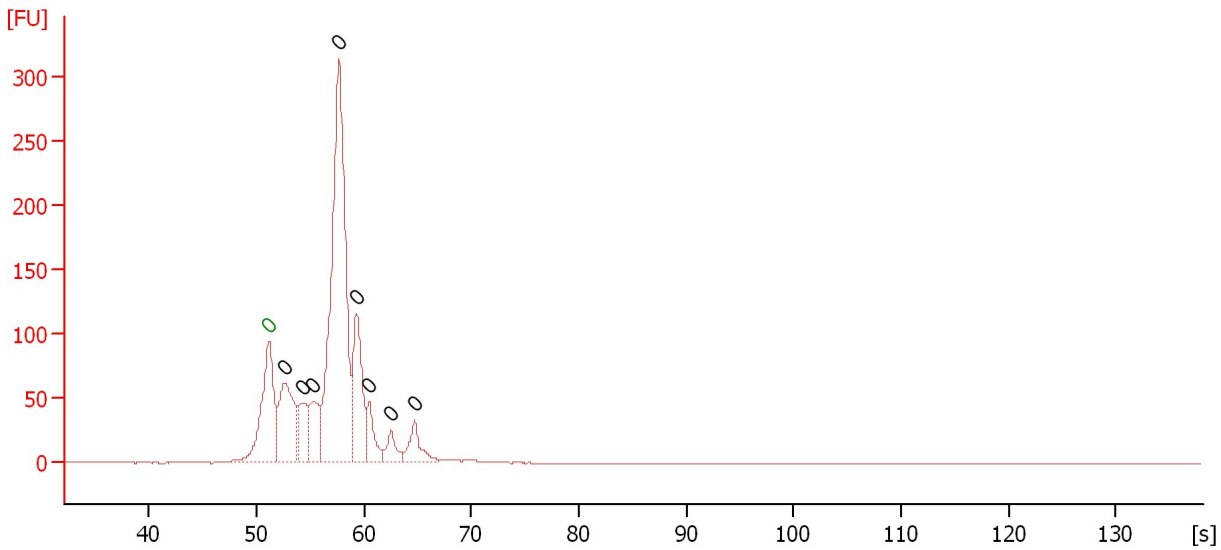
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	51.85
2	0	0.00	0.0		53.35
3	0	0.00	0.0		58.50
4	0	0.00	0.0		60.40
5	0	0.00	0.0		63.65
6	0	0.00	0.0		64.45
7	0	0.00	0.0		65.95

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
Modified: 1/29/2015 10:08:45 AM

Electropherogram Summary Continued ...

sample 7



Overall Results for sample 7 : sample 7

Number of peaks found: 8 Noise: 0.1

Peak table for sample 7 : sample 7

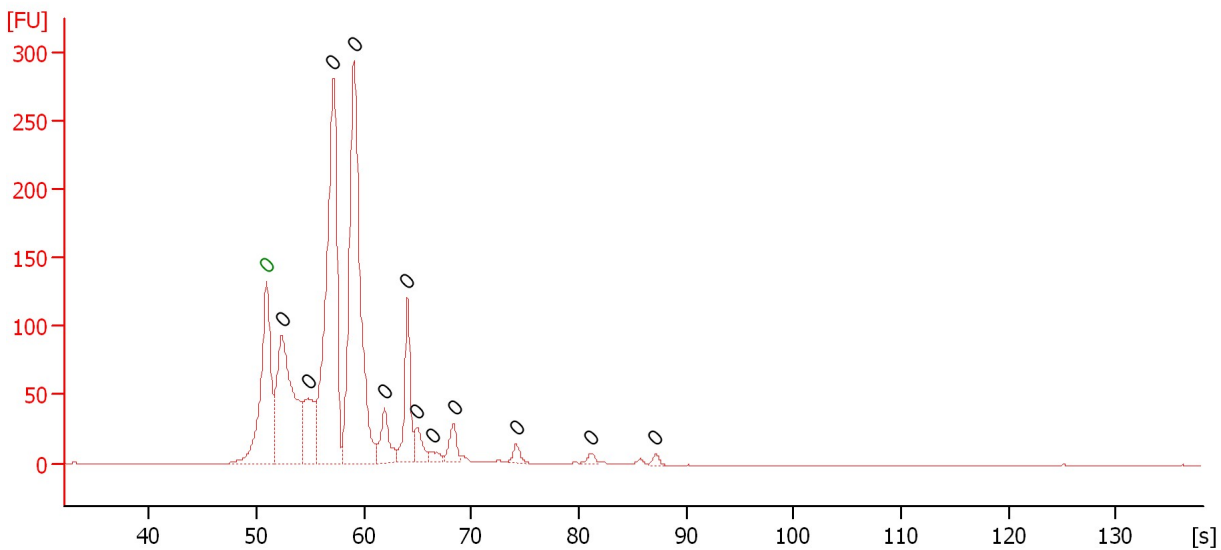
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	51.15
2	0	0.00	0.0		52.60
3	0	0.00	0.0		54.30
4	0	0.00	0.0		55.25
5	0	0.00	0.0		57.65
6	0	0.00	0.0		59.30
7	0	0.00	0.0		60.50
8	0	0.00	0.0		62.55
9	0	0.00	0.0		64.75

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
 Modified: 1/29/2015 10:08:45 AM

Electropherogram Summary Continued ...

sample 8



Overall Results for sample 8 : sample 8

Number of peaks found: 12 Noise: 0.2

Peak table for sample 8 : sample 8

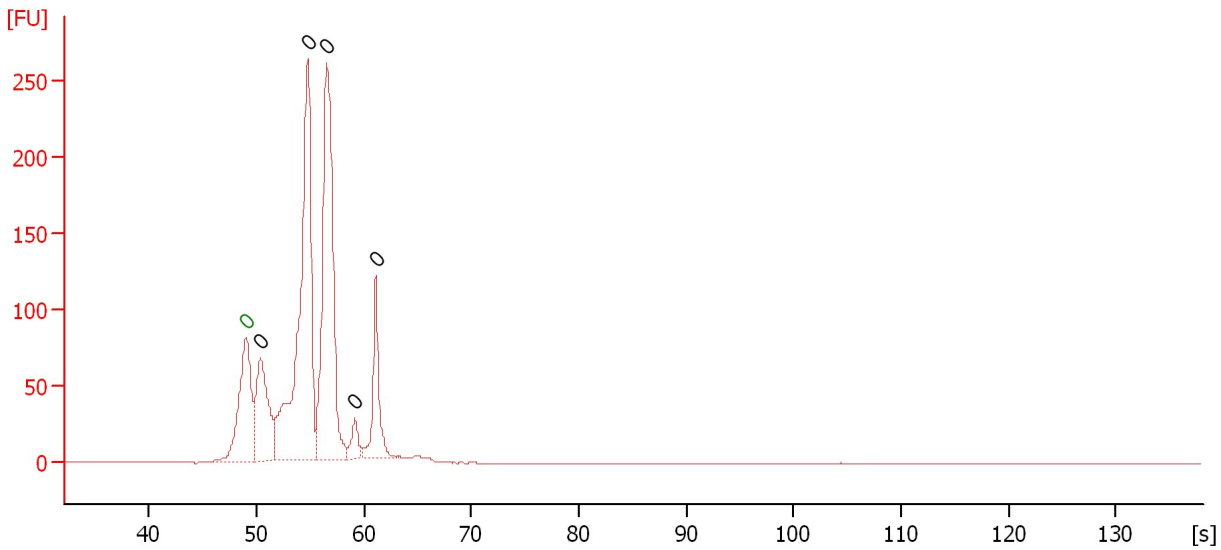
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	50.90
2	0	0.00	0.0		52.35
3	0	0.00	0.0		54.80
4	0	0.00	0.0		57.15
5	0	0.00	0.0		59.05
6	0	0.00	0.0		61.95
7	0	0.00	0.0		64.05
8	0	0.00	0.0		64.95
9	0	0.00	0.0		66.30
10	0	0.00	0.0		68.35
11	0	0.00	0.0		74.15
12	0	0.00	0.0		81.20
13	0	0.00	0.0		87.15

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
 Modified: 1/29/2015 10:08:45 AM

Electropherogram Summary Continued ...

sample 9



Overall Results for sample 9 : sample 9

Number of peaks found: 5 Noise: 0.1

Peak table for sample 9 : sample 9

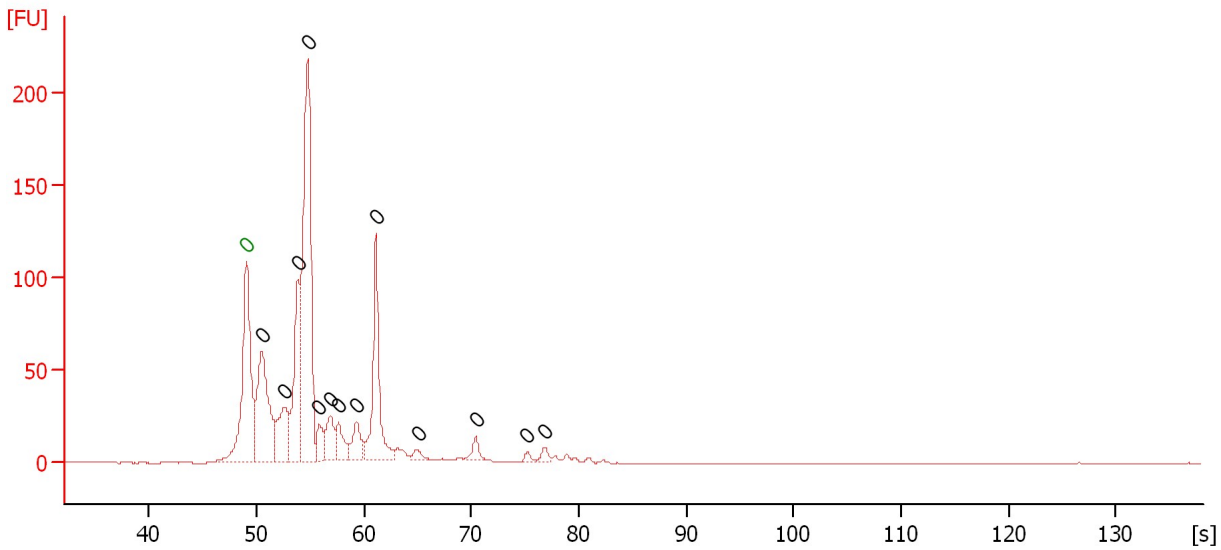
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	49.00
2	0	0.00	0.0		50.35
3	0	0.00	0.0		54.80
4	0	0.00	0.0		56.55
5	0	0.00	0.0		59.15
6	0	0.00	0.0		61.10

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
 Modified: 1/29/2015 10:08:45 AM

Electropherogram Summary Continued ...

sample 10



Overall Results for sample 10 : sample 10

Number of peaks found: 13 Noise: 0.1

Peak table for sample 10 : sample 10

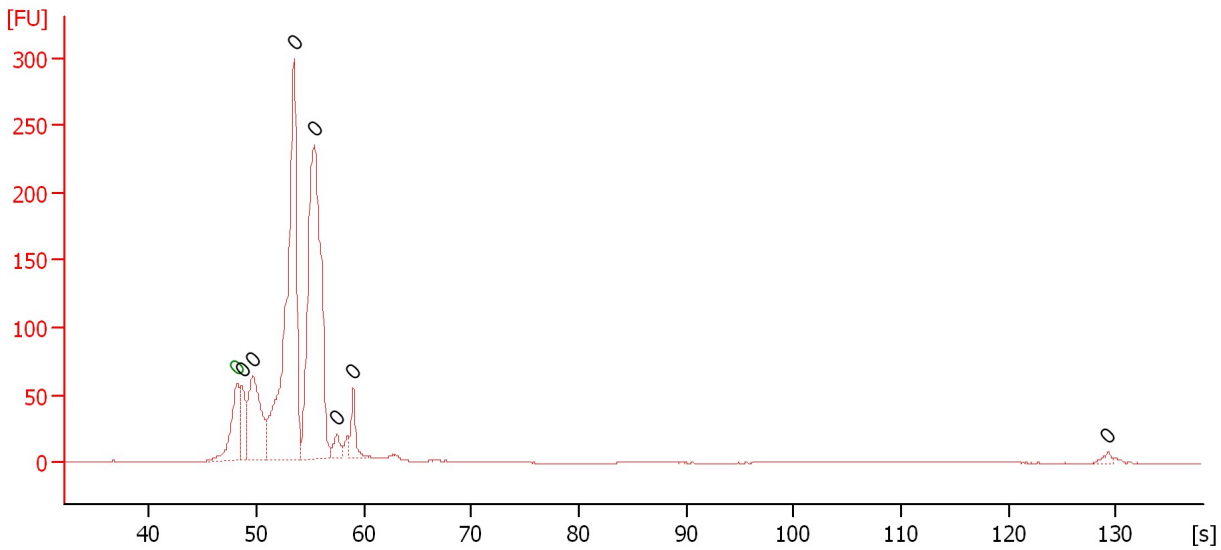
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	49.05
2	0	0.00	0.0		50.50
3	0	0.00	0.0		52.60
4	0	0.00	0.0		53.85
5	0	0.00	0.0		54.75
6	0	0.00	0.0		55.80
7	0	0.00	0.0		56.85
8	0	0.00	0.0		57.60
9	0	0.00	0.0		59.30
10	0	0.00	0.0		61.10
11	0	0.00	0.0		65.00
12	0	0.00	0.0		70.40
13	0	0.00	0.0		75.20
14	0	0.00	0.0		76.80

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
 Modified: 1/29/2015 10:08:45 AM

Electropherogram Summary Continued ...

sample 11



Overall Results for sample 11 : sample 11

Number of peaks found: 7 Noise: 0.1

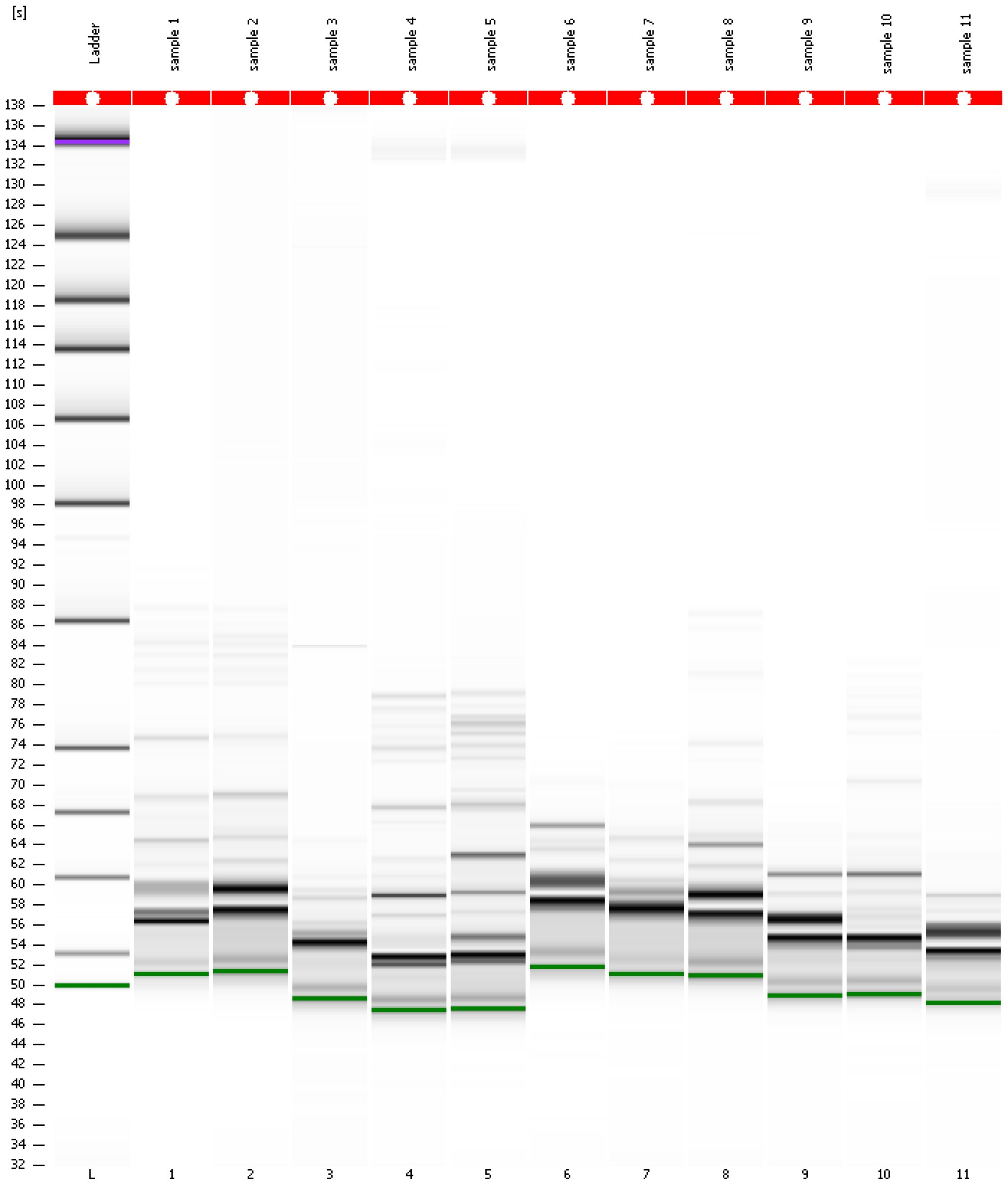
Peak table for sample 11 : sample 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	48.15
2	0	0.00	0.0		48.60
3	0	0.00	0.0		49.65
4	0	0.00	0.0		53.50
5	0	0.00	0.0		55.35
6	0	0.00	0.0		57.45
7	0	0.00	0.0		59.00
8	0	0.00	0.0		129.25

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
Modified: 1/29/2015 10:08:45 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad

Created: 1/29/2015 9:27:24 AM
 Modified: 1/29/2015 10:08:45 AM

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		1/29/2015 10:08:42 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-29\2015-01-29_001.xad)		Instrument	Run		1/29/2015 9:27:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/29/2015 9:27:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/29/2015 9:27:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/29/2015 9:27:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/29/2015 9:27:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/29/2015 9:27:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/29/2015 9:27:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1