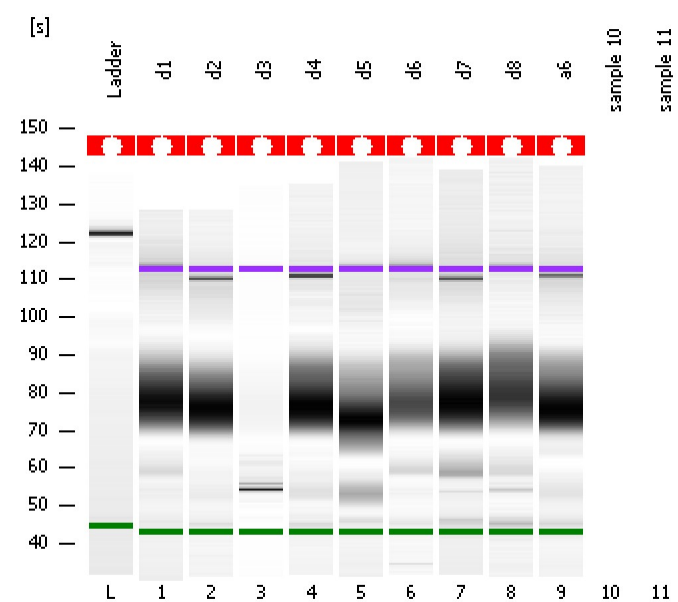


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
Modified: 3/8/2017 12:39:34 PM

Electrophoresis File Run Summary



Instrument Information:

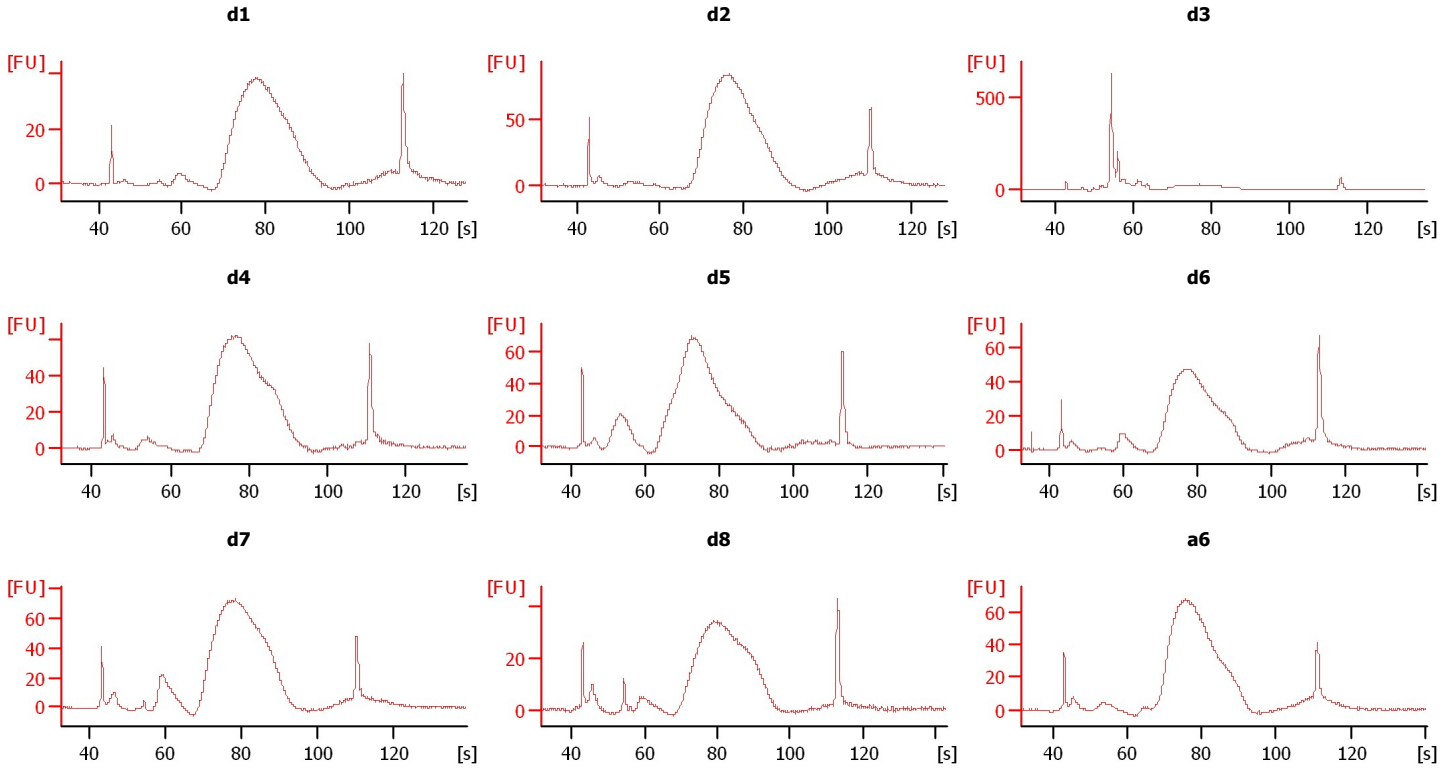
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
 Modified: 3/8/2017 12:39:34 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
d1		<input type="checkbox"/>	✓			
d2		<input type="checkbox"/>	✓			
d3		<input type="checkbox"/>	✓			
d4		<input type="checkbox"/>	✓			
d5		<input type="checkbox"/>	✓			
d6		<input type="checkbox"/>	✓			
d7		<input type="checkbox"/>	✓			
d8		<input type="checkbox"/>	✓			
a6		<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:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
Modified: 3/8/2017 12:39:34 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

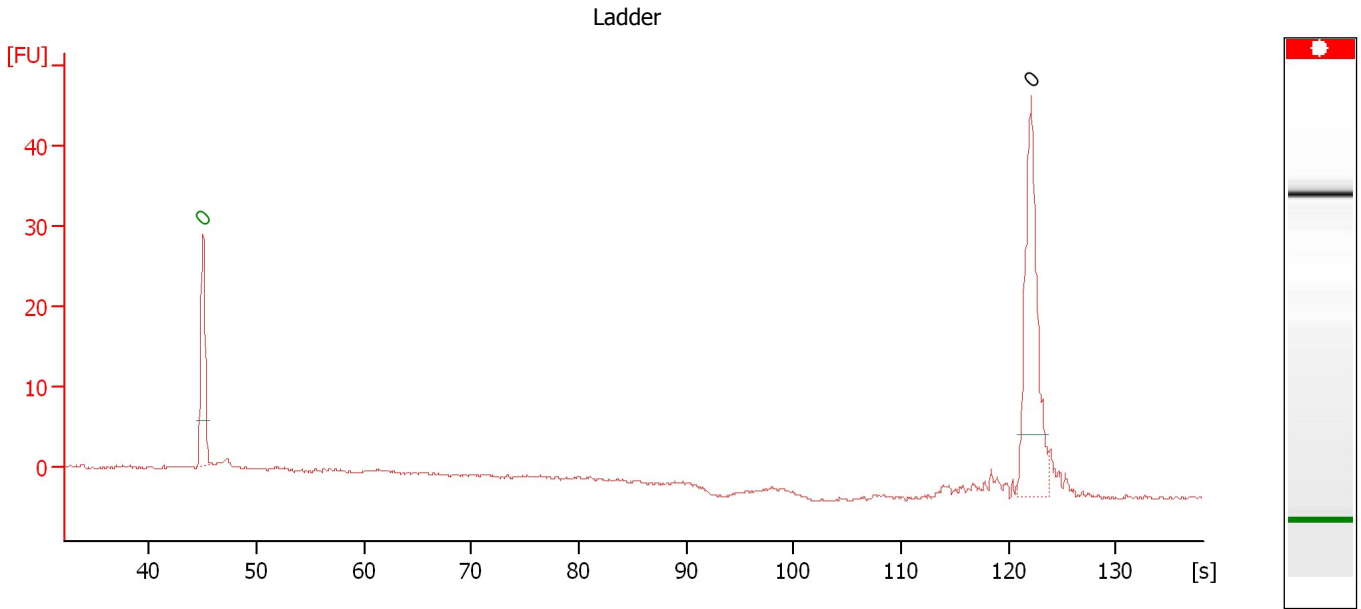
Ladder

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:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
 Modified: 3/8/2017 12:39:34 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

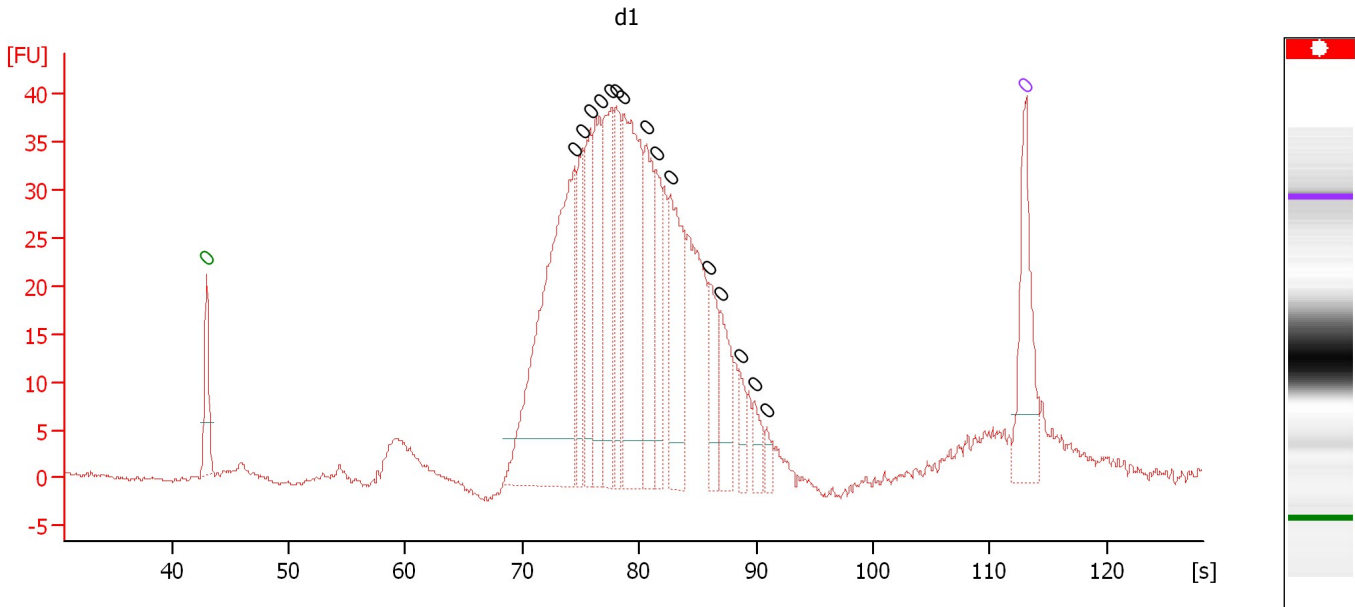
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	45.00
2	0	0.00	0.0	Ladder Peak	122.10

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
 Modified: 3/8/2017 12:39:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : d1

Number of peaks found: 15 Noise: 0.2

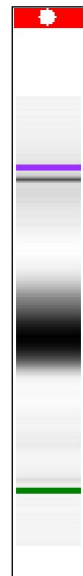
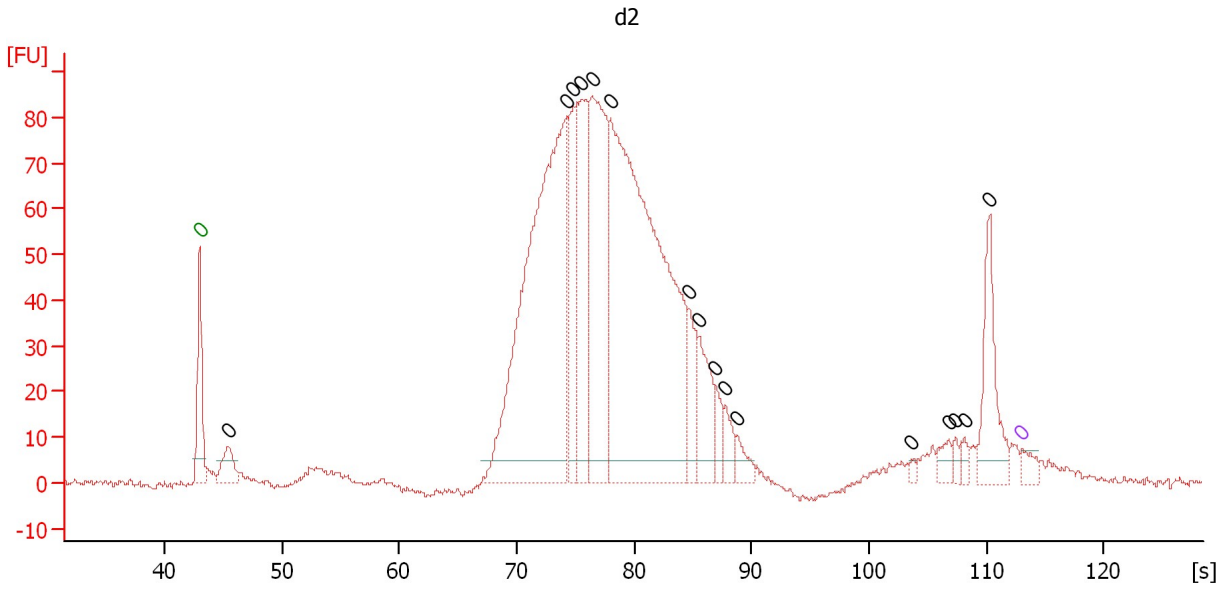
Peak table for sample 1 : d1

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		74.51
3	0	0.00	0.0		75.11
4	0	0.00	0.0		75.80
5	0	0.00	0.0		76.62
6	0	0.00	0.0		77.63
7	0	0.00	0.0		78.00
8	0	0.00	0.0		78.60
9	0	0.00	0.0		80.62
10	0	0.00	0.0		81.44
11	0	0.00	0.0		82.64
12	0	0.00	0.0		85.99
13	0	0.00	0.0		87.00
14	0	0.00	0.0		88.61
15	0	0.00	0.0		89.90
16	0	0.00	0.0		90.91
17	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
 Modified: 3/8/2017 12:39:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : d2

Number of peaks found: 16 Noise: 0.7

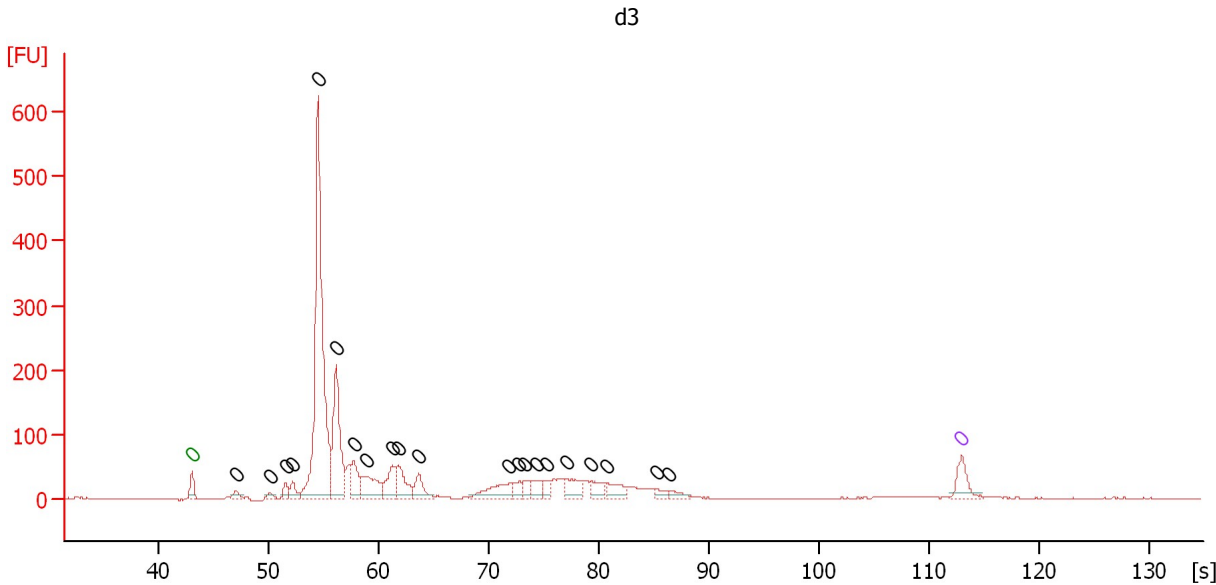
Peak table for sample 2 : d2

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		45.42
3	0	0.00	0.0		74.27
4	0	0.00	0.0		74.82
5	0	0.00	0.0		75.42
6	0	0.00	0.0		76.47
7	0	0.00	0.0		77.98
8	0	0.00	0.0		84.65
9	0	0.00	0.0		85.57
10	0	0.00	0.0		86.85
11	0	0.00	0.0		87.76
12	0	0.00	0.0		88.81
13	0	0.00	0.0		103.63
14	0	0.00	0.0		106.78
15	0	0.00	0.0		107.38
16	0	0.00	0.0		108.11
17	0	0.00	0.0		110.26
18	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
 Modified: 3/8/2017 12:39:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : d3

Number of peaks found: 21 Noise: 0.6

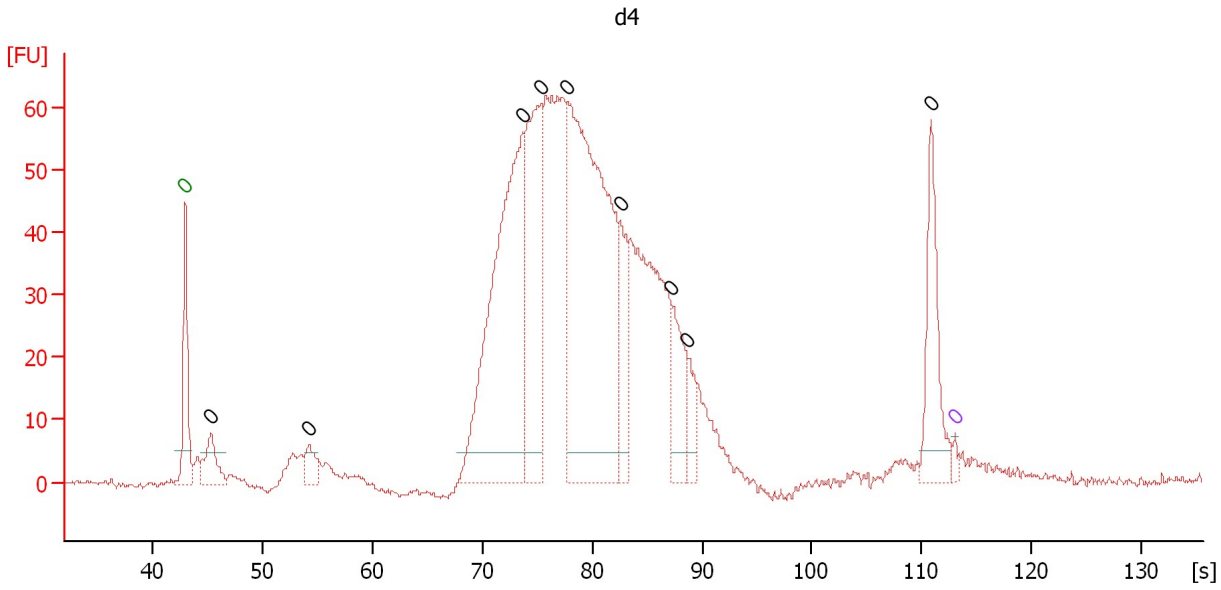
Peak table for sample 3 : d3

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		47.01
3	0	0.00	0.0		50.03
4	0	0.00	0.0		51.50
5	0	0.00	0.0		52.13
6	0	0.00	0.0		54.48
7	0	0.00	0.0		56.09
8	0	0.00	0.0		57.70
9	0	0.00	0.0		58.83
10	0	0.00	0.0		61.27
11	0	0.00	0.0		61.71
12	0	0.00	0.0		63.61
13	0	0.00	0.0		71.87
14	0	0.00	0.0		72.75
15	0	0.00	0.0		73.29
16	0	0.00	0.0		74.41
17	0	0.00	0.0		75.19
18	0	0.00	0.0		77.00
19	0	0.00	0.0		79.29
20	0	0.00	0.0		80.76
21	0	0.00	0.0		85.30
22	0	0.00	0.0		86.43
23	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
 Modified: 3/8/2017 12:39:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : d4

Number of peaks found: 9 Noise: 0.4

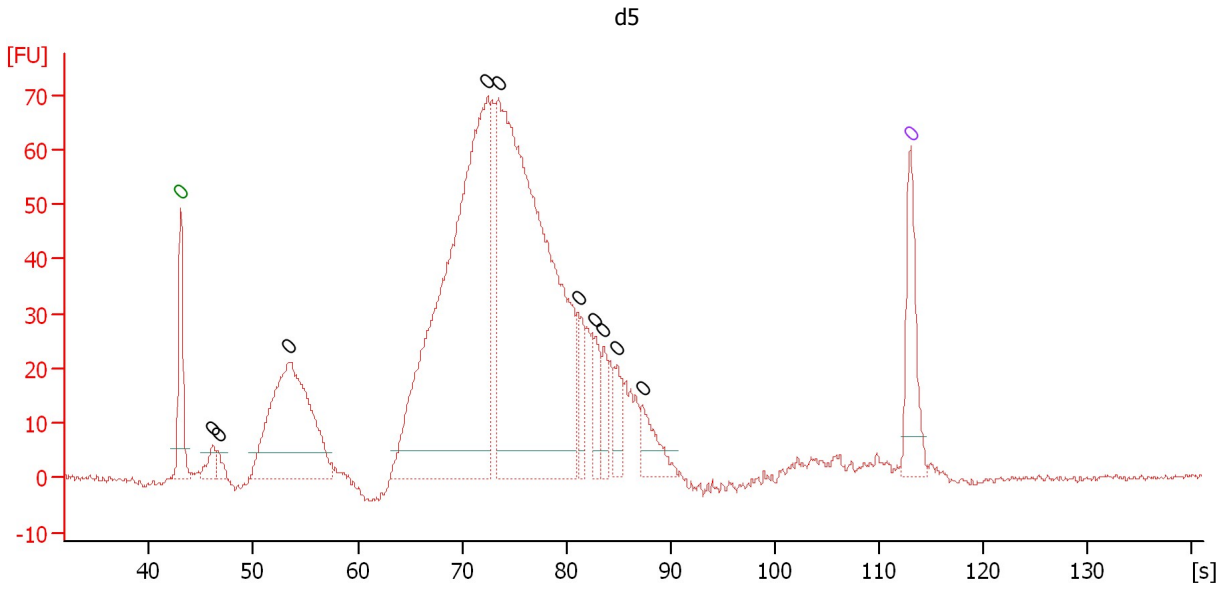
Peak table for sample 4 : d4

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		45.34
3	0	0.00	0.0		54.28
4	0	0.00	0.0		73.73
5	0	0.00	0.0		75.34
6	0	0.00	0.0		77.73
7	0	0.00	0.0		82.57
8	0	0.00	0.0		87.26
9	0	0.00	0.0		88.67
10	0	0.00	0.0		110.85
11	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
 Modified: 3/8/2017 12:39:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : d5

Number of peaks found: 10 Noise: 0.6

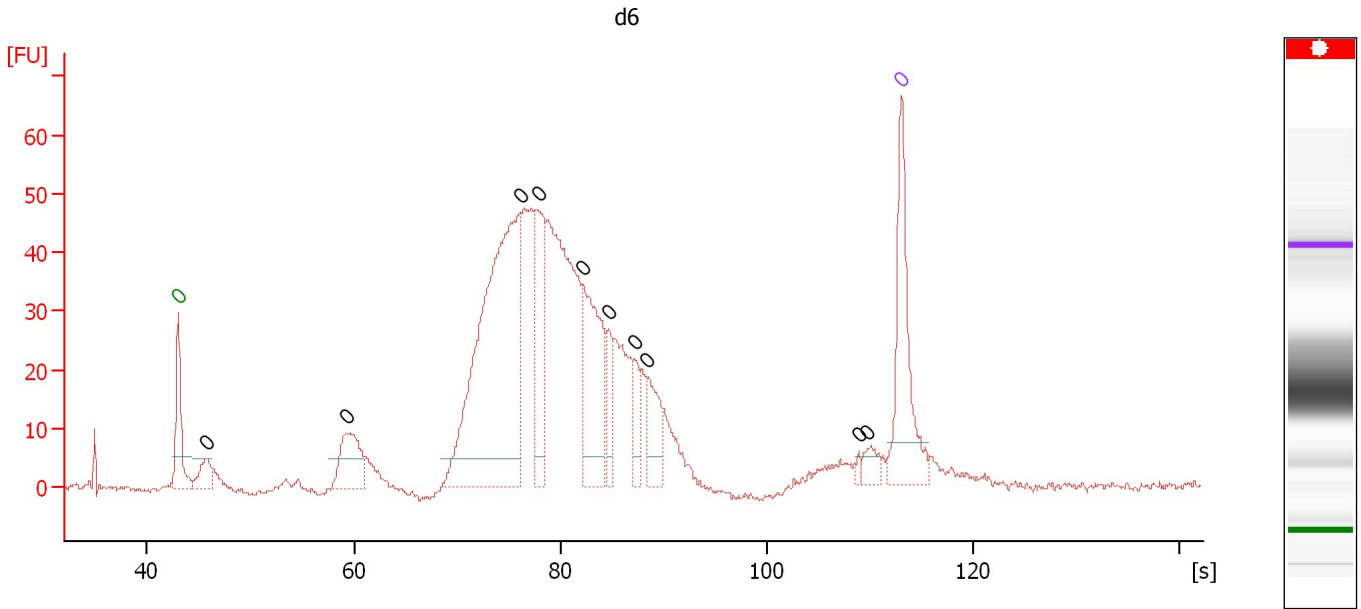
Peak table for sample 5 : d5

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		46.09
3	0	0.00	0.0		46.61
4	0	0.00	0.0		53.46
5	0	0.00	0.0		72.46
6	0	0.00	0.0		73.44
7	0	0.00	0.0		81.17
8	0	0.00	0.0		82.82
9	0	0.00	0.0		83.59
10	0	0.00	0.0		84.93
11	0	0.00	0.0		87.30
12	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
 Modified: 3/8/2017 12:39:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : d6

Number of peaks found: 10 Noise: 0.5

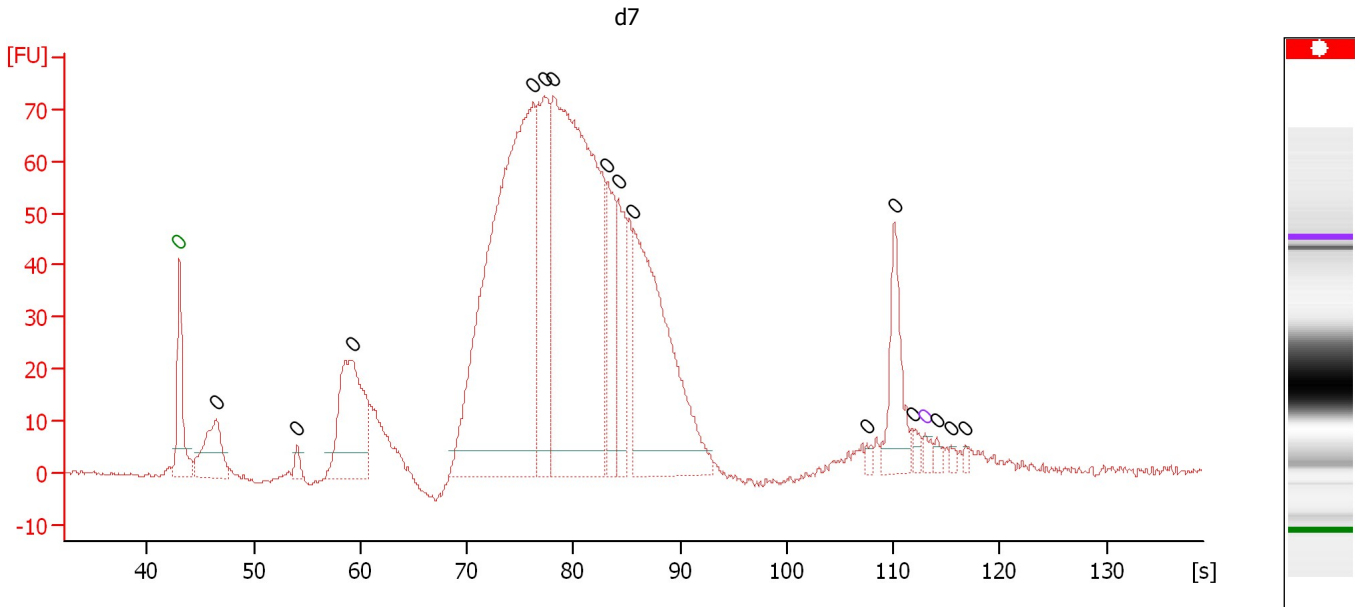
Peak table for sample 6 : d6

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		45.70
3	0	0.00	0.0		59.28
4	0	0.00	0.0		76.08
5	0	0.00	0.0		77.84
6	0	0.00	0.0		82.16
7	0	0.00	0.0		84.66
8	0	0.00	0.0		87.21
9	0	0.00	0.0		88.40
10	0	0.00	0.0		108.89
11	0	0.00	0.0		109.72
12	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
 Modified: 3/8/2017 12:39:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : d7

Number of peaks found: 15 Noise: 0.4

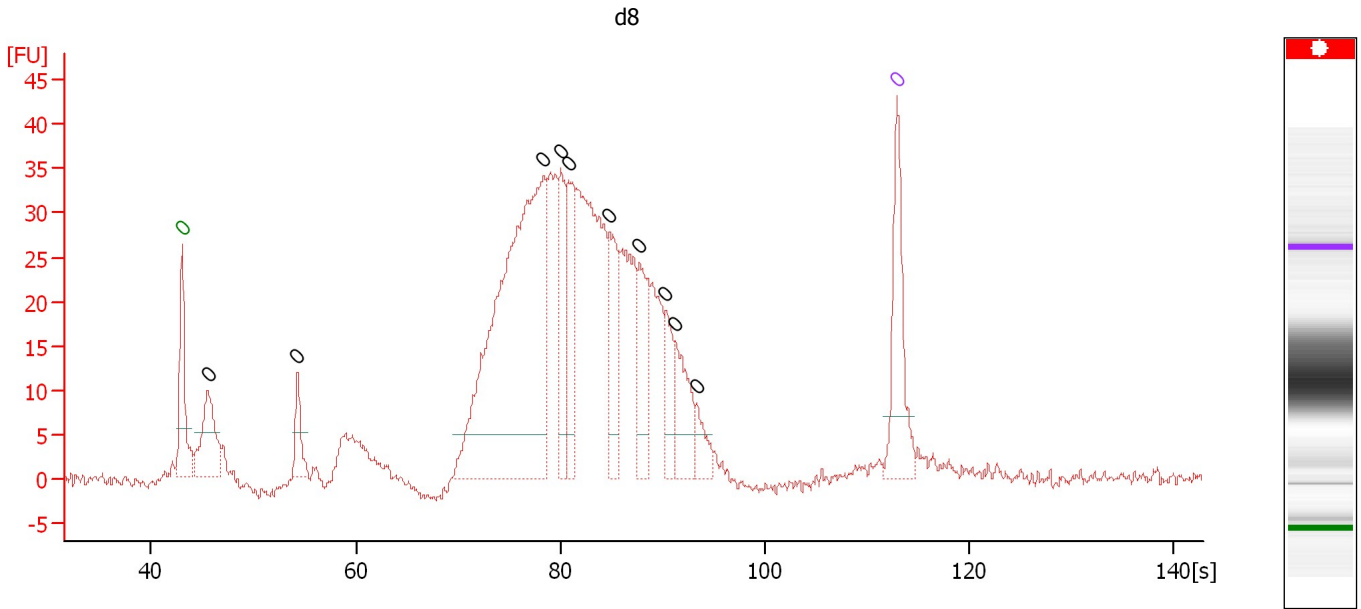
Peak table for sample 7 : d7

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		46.53
3	0	0.00	0.0		54.09
4	0	0.00	0.0		59.18
5	0	0.00	0.0		76.21
6	0	0.00	0.0		77.22
7	0	0.00	0.0		78.13
8	0	0.00	0.0		83.12
9	0	0.00	0.0		84.17
10	0	0.00	0.0		85.63
11	0	0.00	0.0		107.51
12	0	0.00	0.0		110.08
13	0	0.00	0.0		111.89
14	0	0.00	0.0	Upper Marker	113.00
15	0	0.00	0.0		114.11
16	0	0.00	0.0		115.47
17	0	0.00	0.0		116.83

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
 Modified: 3/8/2017 12:39:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : d8

Number of peaks found: 10 Noise: 0.7

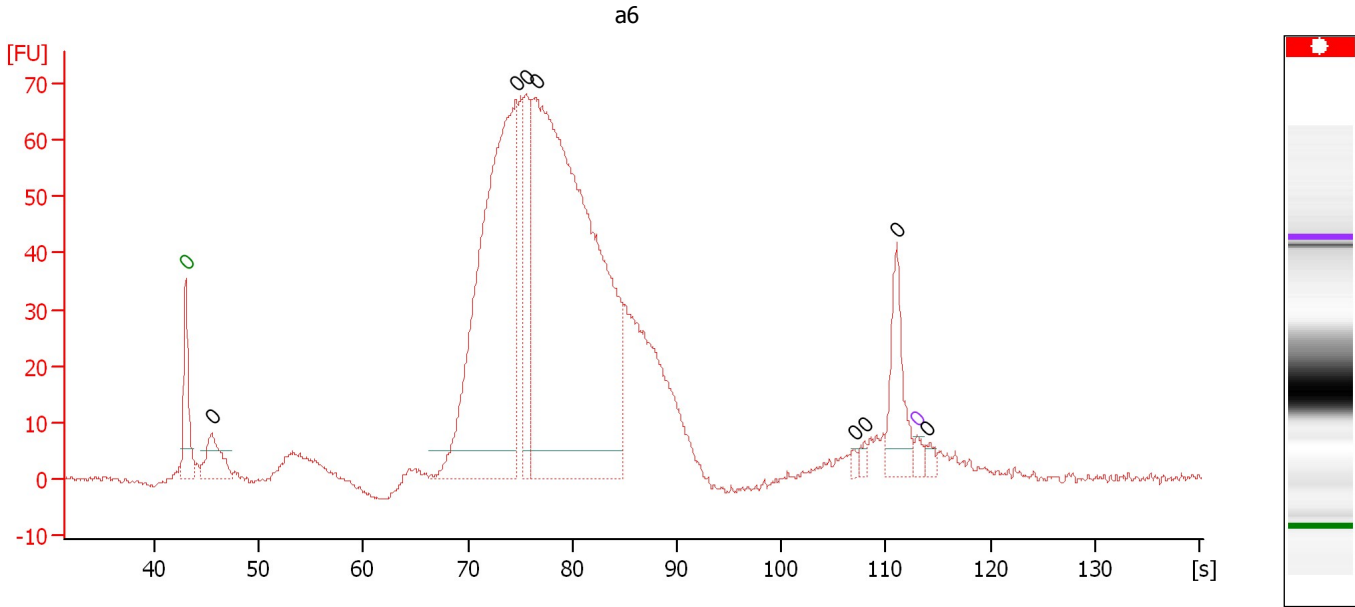
Peak table for sample 8 : d8

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		45.52
3	0	0.00	0.0		54.31
4	0	0.00	0.0		78.39
5	0	0.00	0.0		80.13
6	0	0.00	0.0		80.87
7	0	0.00	0.0		84.86
8	0	0.00	0.0		87.81
9	0	0.00	0.0		90.39
10	0	0.00	0.0		91.28
11	0	0.00	0.0		93.33
12	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
 Modified: 3/8/2017 12:39:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : a6

Number of peaks found: 8 Noise: 0.5

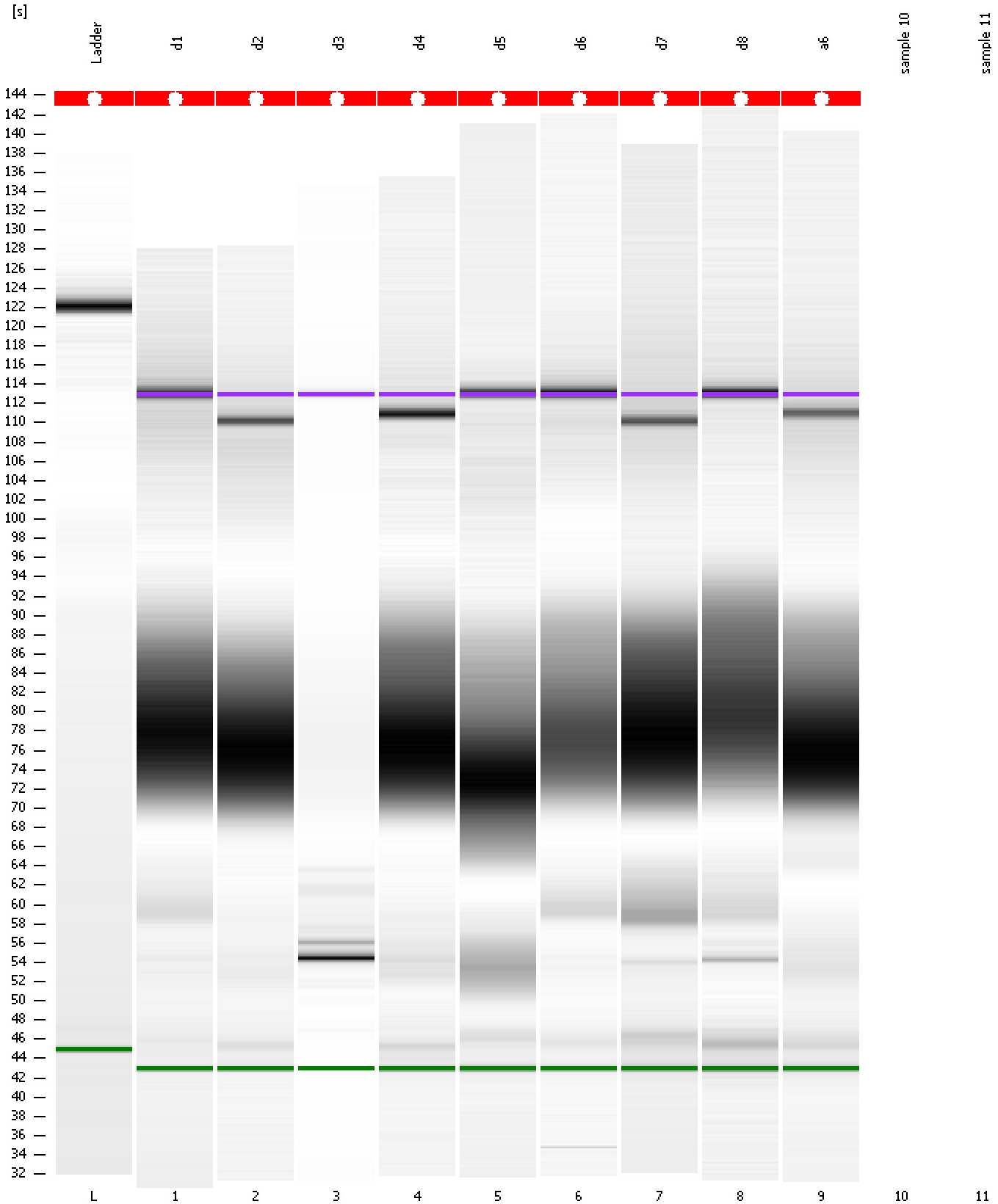
Peak table for sample 9 : a6

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		45.47
3	0	0.00	0.0		74.61
4	0	0.00	0.0		75.58
5	0	0.00	0.0		76.51
6	0	0.00	0.0		106.99
7	0	0.00	0.0		107.96
8	0	0.00	0.0		111.05
9	0	0.00	0.0	Upper Marker	113.00
10	0	0.00	0.0		113.87

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
Modified: 3/8/2017 12:39:34 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad

Created: 3/7/2017 5:14:41 PM
Modified: 3/8/2017 12:39:34 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay Created: 3/7/2017 5:14:41 PM
 Data Path: C:\...0 expert\data\2017-03-07\2017-03-07_006_170307deltaATAC.xad Modified: 3/8/2017 12:39:34 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		3/7/2017 5:50:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-03-07\2017-03-07_007.xad)		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/7/2017 5:14:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1