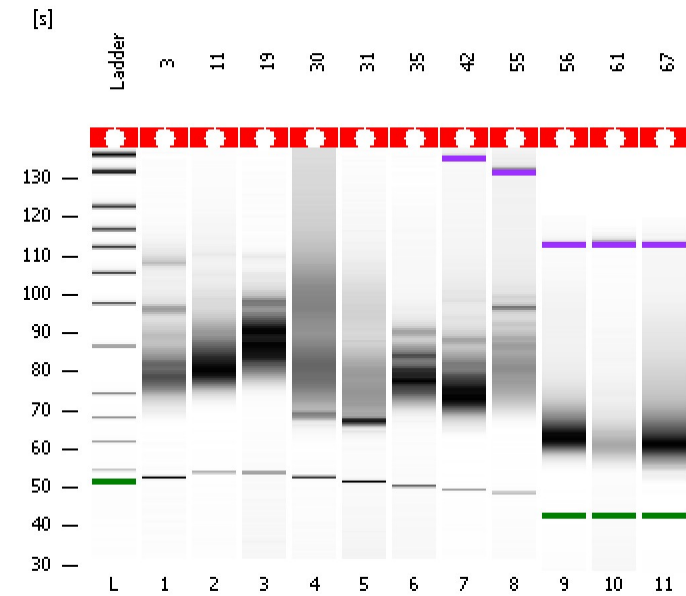


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
Modified: 10/10/2019 5:34:09 PM

Electrophoresis File Run Summary



Instrument Information:

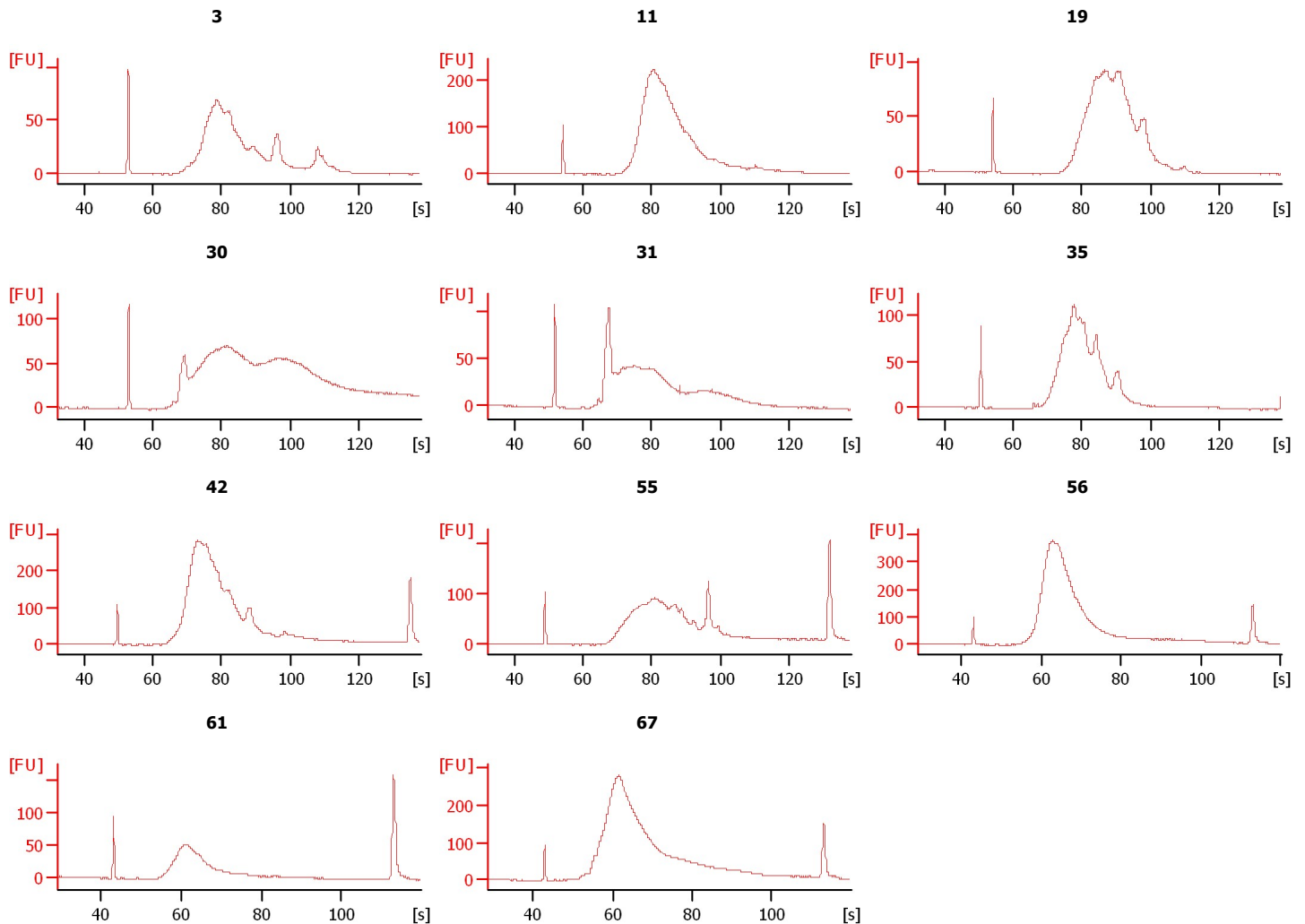
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
 Modified: 10/10/2019 5:34:09 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
3		<input type="checkbox"/>	✓			
11		<input type="checkbox"/>	✓			
19		<input type="checkbox"/>	✓			
30		<input type="checkbox"/>	✓			
31		<input type="checkbox"/>	✓			
35		<input type="checkbox"/>	✓			
42		<input type="checkbox"/>	✓			
55		<input type="checkbox"/>	✓			
56		<input type="checkbox"/>	✓			
61		<input type="checkbox"/>	✓			
67		<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\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
Modified: 10/10/2019 5:34:09 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

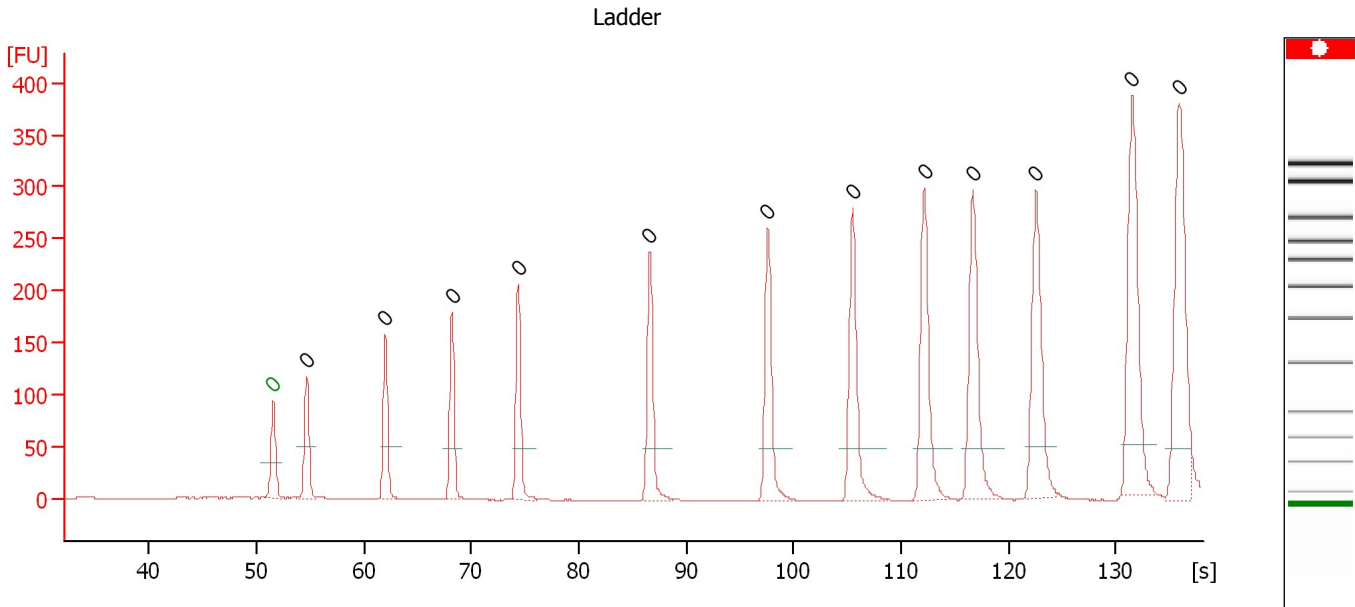
Ladder

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\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
 Modified: 10/10/2019 5:34:09 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

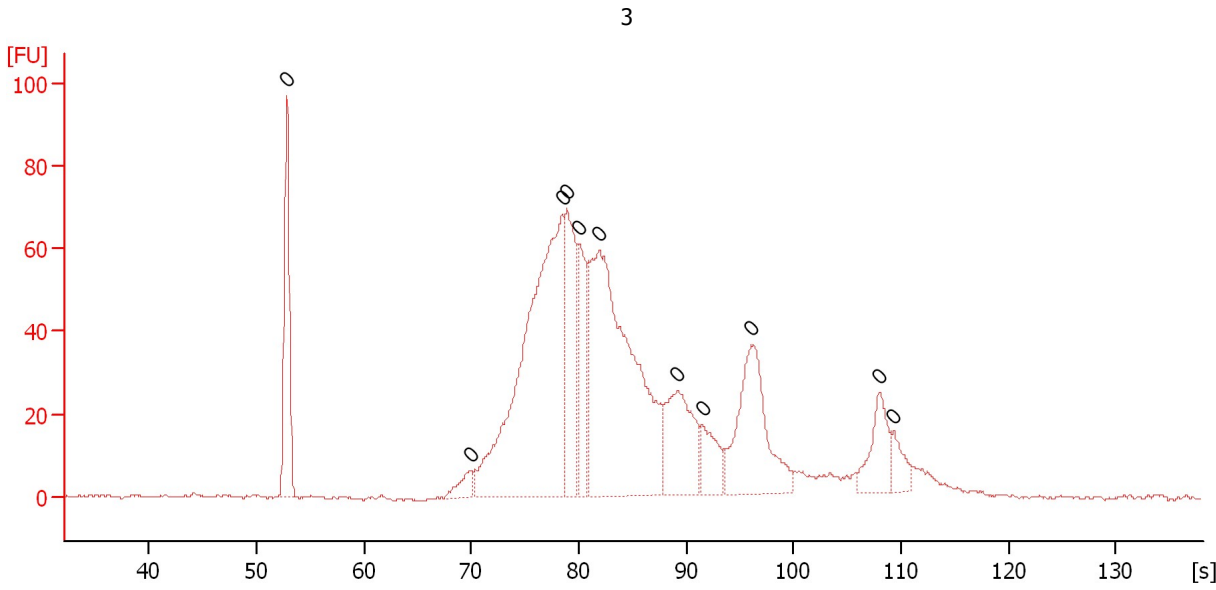
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	51.55
2	0	0.00	0.0	Ladder Peak	54.70
3	0	0.00	0.0	Ladder Peak	62.00
4	0	0.00	0.0	Ladder Peak	68.20
5	0	0.00	0.0	Ladder Peak	74.35
6	0	0.00	0.0	Ladder Peak	86.60
7	0	0.00	0.0	Ladder Peak	97.60
8	0	0.00	0.0	Ladder Peak	105.50
9	0	0.00	0.0	Ladder Peak	112.15
10	0	0.00	0.0	Ladder Peak	116.70
11	0	0.00	0.0	Ladder Peak	122.55
12	0	0.00	0.0	Ladder Peak	131.50
13	0	0.00	0.0	Ladder Peak	135.90

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
 Modified: 10/10/2019 5:34:09 PM

Electropherogram Summary Continued ...



3

Overall Results for sample 1 : 3

Number of peaks found: 0 Noise: 0.3

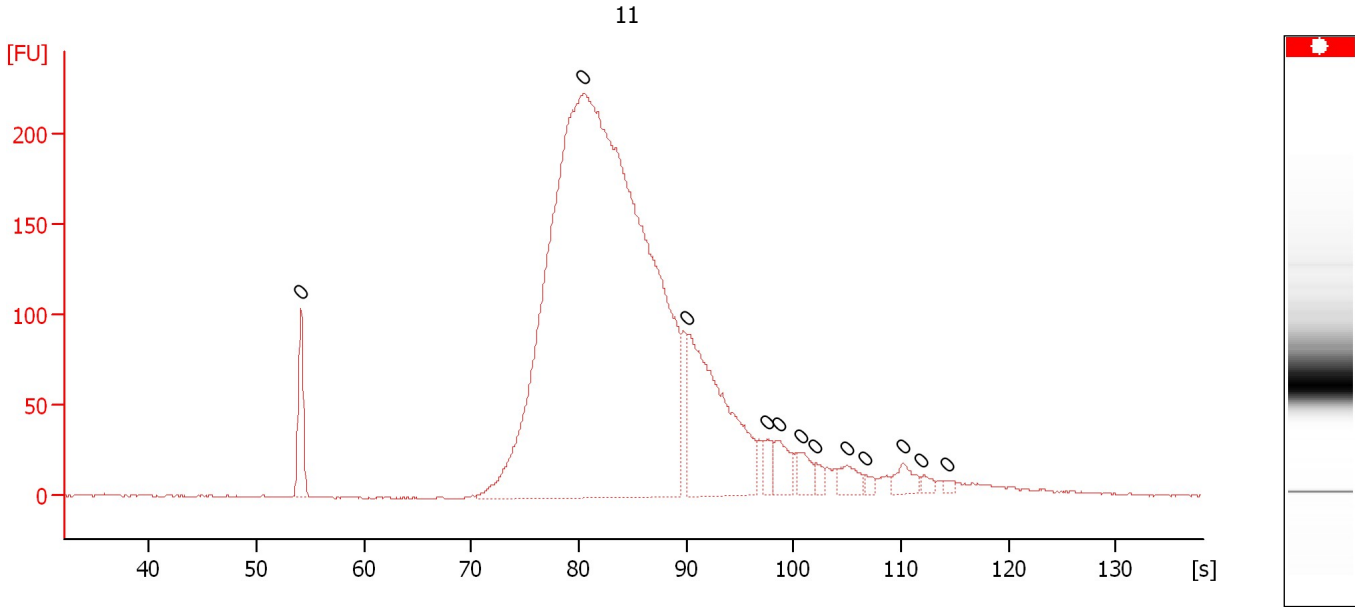
Peak table for sample 1 : 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		52.80
2	0	0.00	0.0		69.95
3	0	0.00	0.0		78.45
4	0	0.00	0.0		78.90
5	0	0.00	0.0		80.05
6	0	0.00	0.0		81.90
7	0	0.00	0.0		89.20
8	0	0.00	0.0		91.50
9	0	0.00	0.0		96.05
10	0	0.00	0.0		108.00
11	0	0.00	0.0		109.25

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
 Modified: 10/10/2019 5:34:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 11

Number of peaks found: 0 Noise: 0.5

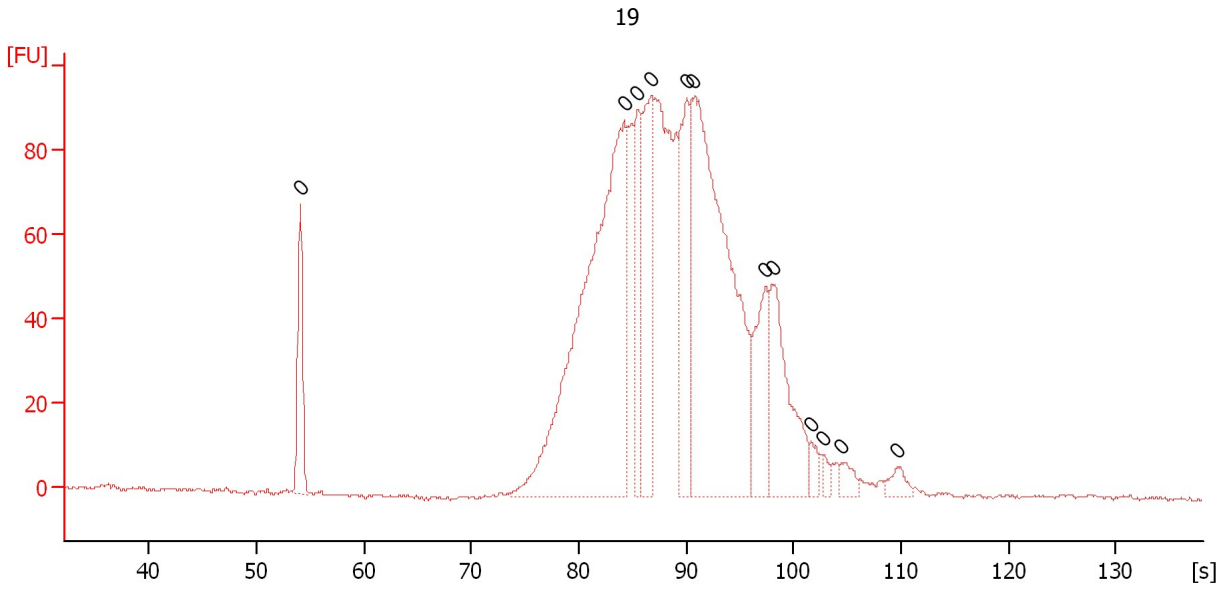
Peak table for sample 2 : 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		54.10
2	0	0.00	0.0		80.45
3	0	0.00	0.0		90.15
4	0	0.00	0.0		97.60
5	0	0.00	0.0		98.70
6	0	0.00	0.0		100.60
7	0	0.00	0.0		102.05
8	0	0.00	0.0		104.90
9	0	0.00	0.0		106.70
10	0	0.00	0.0		110.15
11	0	0.00	0.0		111.95
12	0	0.00	0.0		114.30

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
Modified: 10/10/2019 5:34:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 19

Number of peaks found: 0 Noise: 0.4

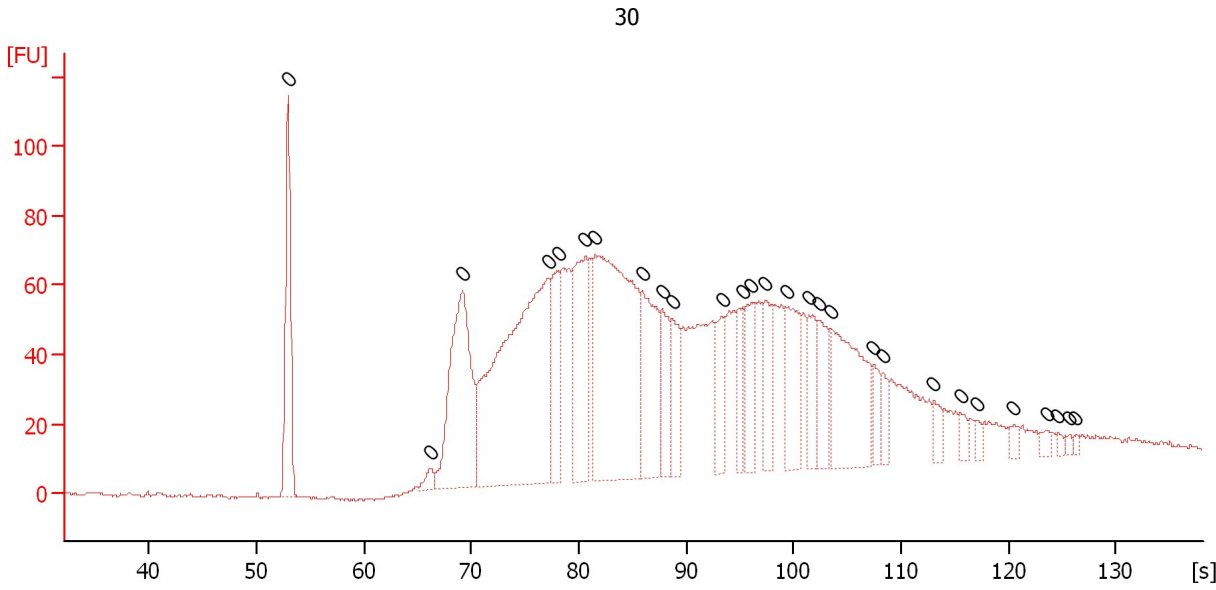
Peak table for sample 3 : 19

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		54.05
2	0	0.00	0.0		84.20
3	0	0.00	0.0		85.45
4	0	0.00	0.0		86.70
5	0	0.00	0.0		90.05
6	0	0.00	0.0		90.55
7	0	0.00	0.0		97.35
8	0	0.00	0.0		98.05
9	0	0.00	0.0		101.65
10	0	0.00	0.0		102.75
11	0	0.00	0.0		104.50
12	0	0.00	0.0		109.70

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
 Modified: 10/10/2019 5:34:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 30

Number of peaks found: 0 Noise: 0.3

Peak table for sample 4 : 30

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		52.95
2	0	0.00	0.0		66.20
3	0	0.00	0.0		69.20
4	0	0.00	0.0		77.15
5	0	0.00	0.0		78.05
6	0	0.00	0.0		80.60
7	0	0.00	0.0		81.55
8	0	0.00	0.0		85.95
9	0	0.00	0.0		87.75
10	0	0.00	0.0		88.70
11	0	0.00	0.0		93.35
12	0	0.00	0.0		95.20
13	0	0.00	0.0		96.05
14	0	0.00	0.0		97.40
15	0	0.00	0.0		99.45
16	0	0.00	0.0		101.40
17	0	0.00	0.0		102.40
18	0	0.00	0.0		103.45
19	0	0.00	0.0		107.40
20	0	0.00	0.0		108.30
21	0	0.00	0.0		113.05
22	0	0.00	0.0		115.55
23	0	0.00	0.0		117.00
24	0	0.00	0.0		120.45
25	0	0.00	0.0		123.60
26	0	0.00	0.0		124.55
27	0	0.00	0.0		125.60

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
Modified: 10/10/2019 5:34:09 PM

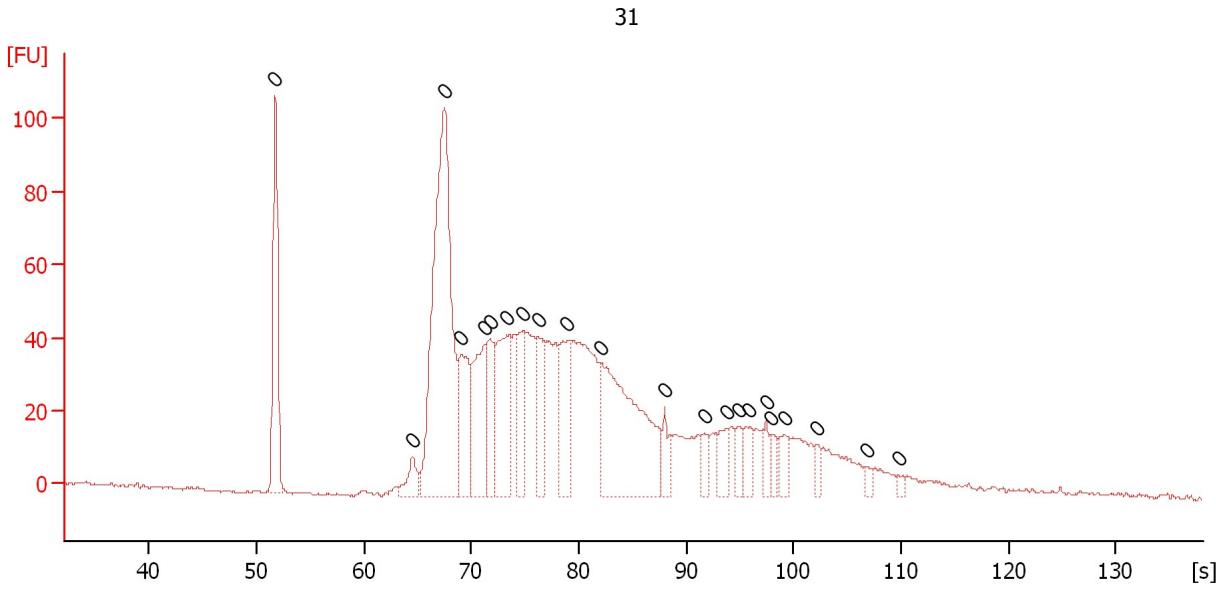
Electropherogram Summary Continued ...**... Peak table for sample 4 : 30**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		126.30

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
 Modified: 10/10/2019 5:34:09 PM

Electropherogram Summary Continued ...



31

Overall Results for sample 5 : 31

Number of peaks found: 0 Noise: 0.4

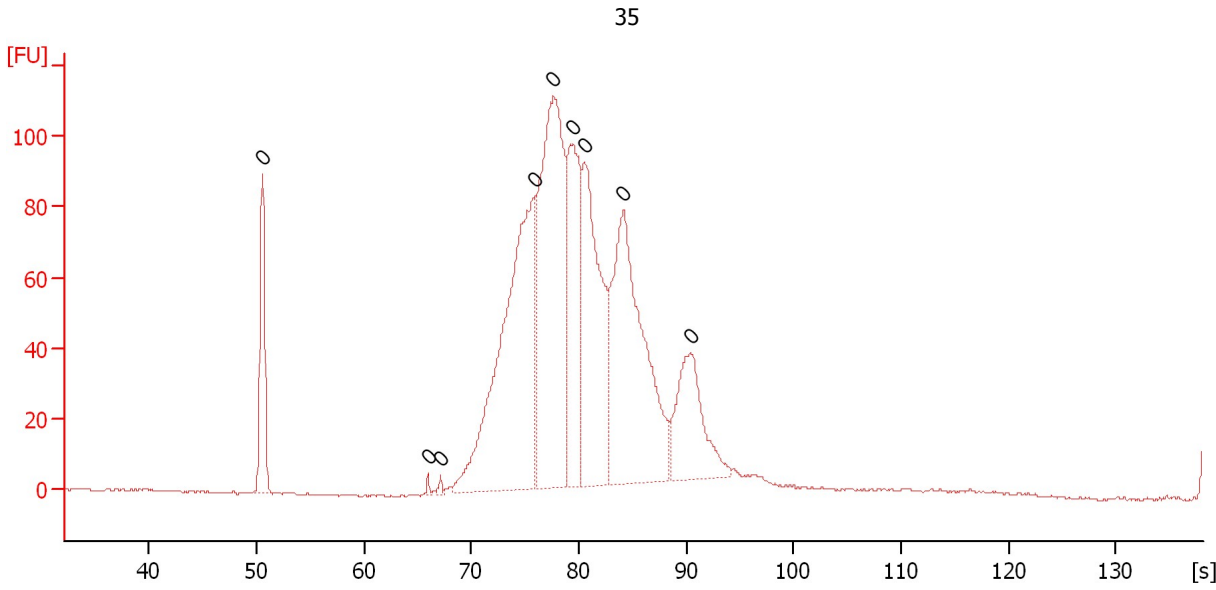
Peak table for sample 5 : 31

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		64.55
3	0	0.00	0.0		67.50
4	0	0.00	0.0		69.05
5	0	0.00	0.0		71.25
6	0	0.00	0.0		71.70
7	0	0.00	0.0		73.25
8	0	0.00	0.0		74.85
9	0	0.00	0.0		76.20
10	0	0.00	0.0		78.95
11	0	0.00	0.0		82.05
12	0	0.00	0.0		88.00
13	0	0.00	0.0		91.75
14	0	0.00	0.0		93.70
15	0	0.00	0.0		94.85
16	0	0.00	0.0		95.90
17	0	0.00	0.0		97.45
18	0	0.00	0.0		97.90
19	0	0.00	0.0		99.10
20	0	0.00	0.0		102.10
21	0	0.00	0.0		106.80
22	0	0.00	0.0		109.80

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
 Modified: 10/10/2019 5:34:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 35

Number of peaks found: 0 Noise: 0.3

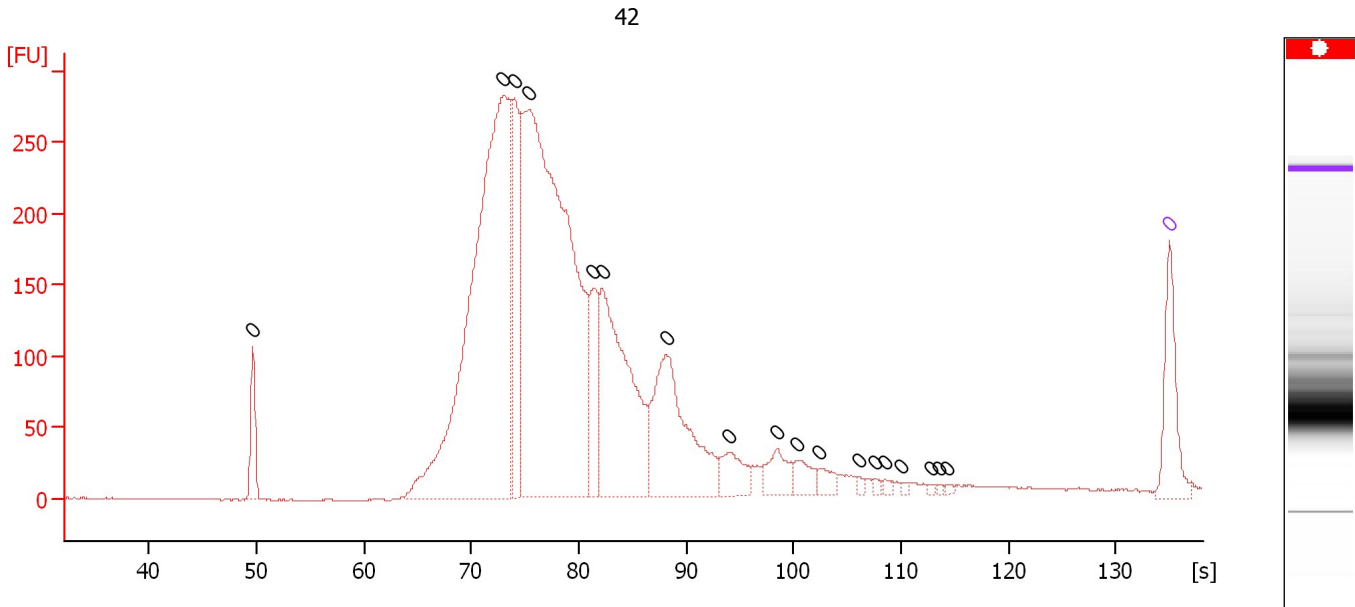
Peak table for sample 6 : 35

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.55
2	0	0.00	0.0		66.00
3	0	0.00	0.0		67.10
4	0	0.00	0.0		75.85
5	0	0.00	0.0		77.65
6	0	0.00	0.0		79.40
7	0	0.00	0.0		80.55
8	0	0.00	0.0		84.15
9	0	0.00	0.0		90.45

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
 Modified: 10/10/2019 5:34:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 42

Number of peaks found: 0 Noise: 0.3

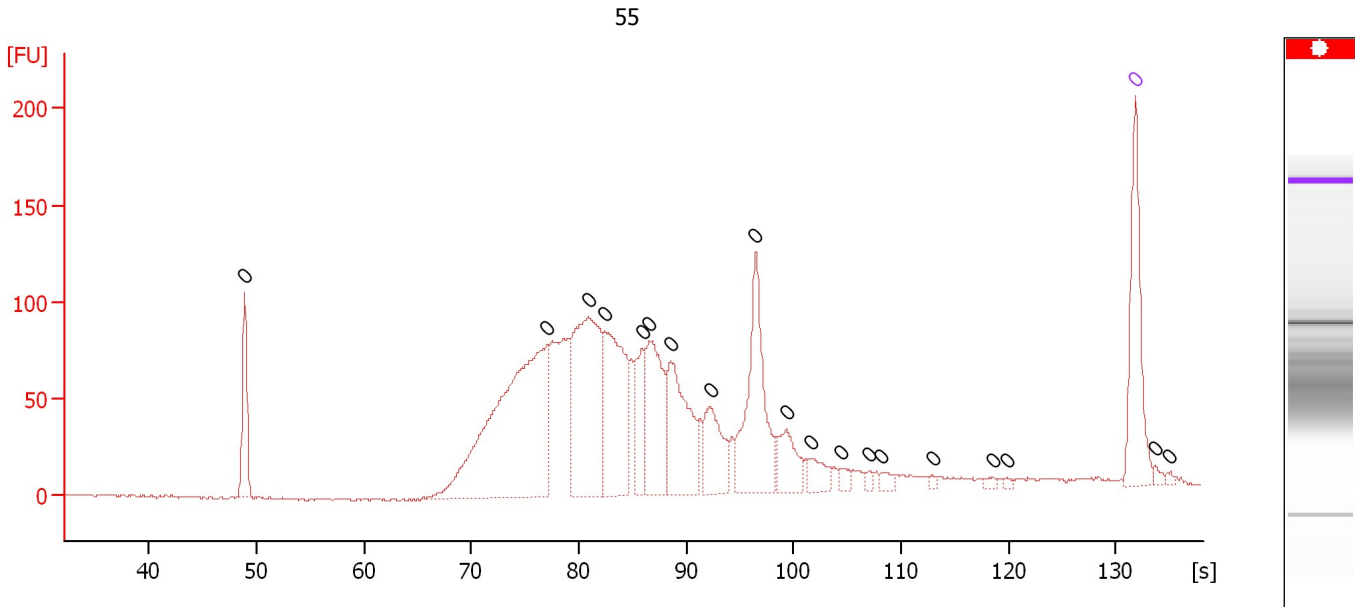
Peak table for sample 7 : 42

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.65
2	0	0.00	0.0		73.00
3	0	0.00	0.0		74.00
4	0	0.00	0.0		75.40
5	0	0.00	0.0		81.35
6	0	0.00	0.0		82.20
7	0	0.00	0.0		88.15
8	0	0.00	0.0		94.05
9	0	0.00	0.0		98.50
10	0	0.00	0.0		100.40
11	0	0.00	0.0		102.40
12	0	0.00	0.0		106.00
13	0	0.00	0.0		107.60
14	0	0.00	0.0		108.55
15	0	0.00	0.0		110.00
16	0	0.00	0.0		112.75
17	0	0.00	0.0		113.45
18	0	0.00	0.0		114.30
19	0	0.00	0.0	Upper Marker	135.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
 Modified: 10/10/2019 5:34:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 55

Number of peaks found: 0 Noise: 0.6

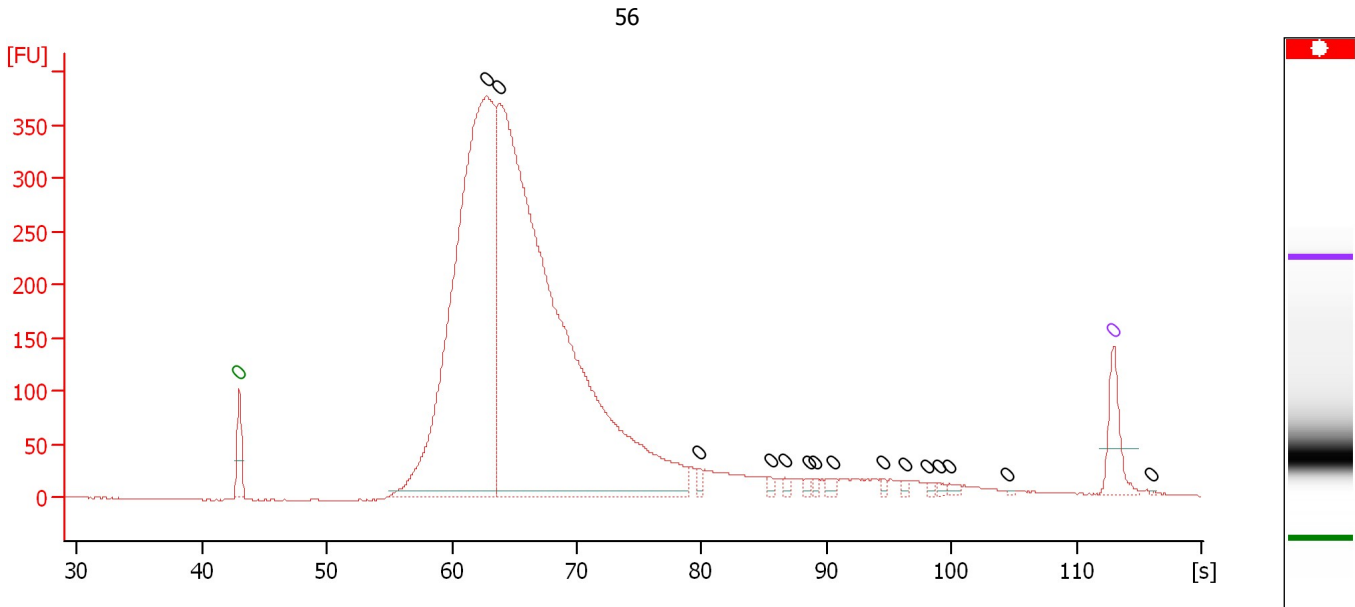
Peak table for sample 8 : 55

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		48.90
2	0	0.00	0.0		77.10
3	0	0.00	0.0		80.90
4	0	0.00	0.0		82.40
5	0	0.00	0.0		85.90
6	0	0.00	0.0		86.60
7	0	0.00	0.0		88.55
8	0	0.00	0.0		92.25
9	0	0.00	0.0		96.45
10	0	0.00	0.0		99.30
11	0	0.00	0.0		101.65
12	0	0.00	0.0		104.40
13	0	0.00	0.0		107.05
14	0	0.00	0.0		108.20
15	0	0.00	0.0		112.90
16	0	0.00	0.0		118.55
17	0	0.00	0.0		119.80
18	0	0.00	0.0	Upper Marker	131.80
19	0	0.00	0.0		133.70
20	0	0.00	0.0		135.05

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
 Modified: 10/10/2019 5:34:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 56

Number of peaks found: 15 Noise: 0.5

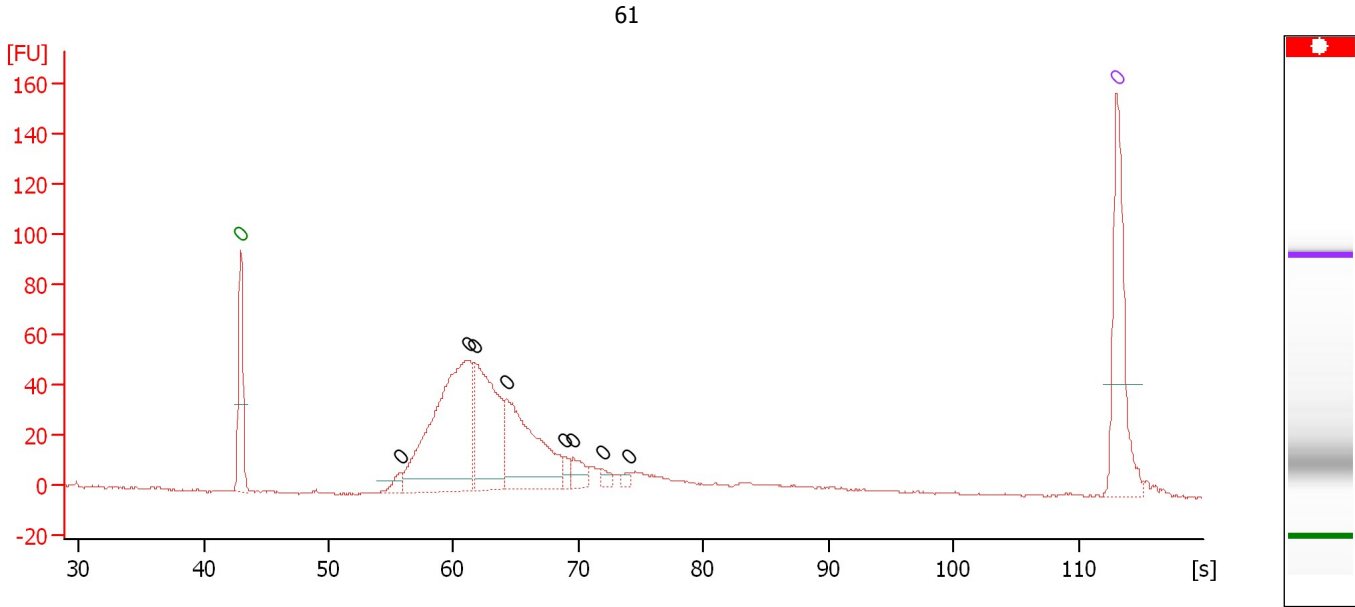
Peak table for sample 9 : 56

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		62.78
3	0	0.00	0.0		63.81
4	0	0.00	0.0		79.72
5	0	0.00	0.0		85.48
6	0	0.00	0.0		86.69
7	0	0.00	0.0		88.58
8	0	0.00	0.0		89.14
9	0	0.00	0.0		90.60
10	0	0.00	0.0		94.55
11	0	0.00	0.0		96.23
12	0	0.00	0.0		98.12
13	0	0.00	0.0		99.03
14	0	0.00	0.0		99.89
15	0	0.00	0.0		104.53
16	0	0.00	0.0	Upper Marker	113.00
17	0	0.00	0.0		116.01

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
 Modified: 10/10/2019 5:34:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 61

Number of peaks found: 8 Noise: 0.3

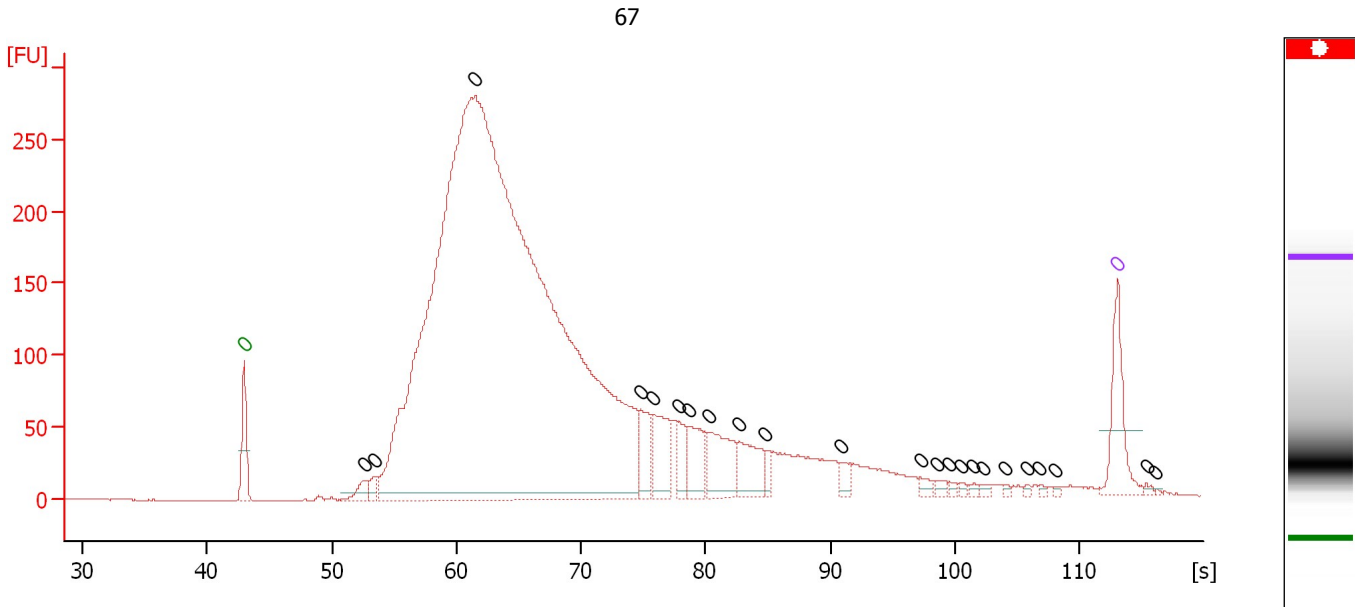
Peak table for sample 10 : 61

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		55.75
3	0	0.00	0.0		61.12
4	0	0.00	0.0		61.68
5	0	0.00	0.0		64.26
6	0	0.00	0.0		68.85
7	0	0.00	0.0		69.58
8	0	0.00	0.0		71.86
9	0	0.00	0.0		73.96
10	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
 Modified: 10/10/2019 5:34:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 67

Number of peaks found: 23 Noise: 0.2

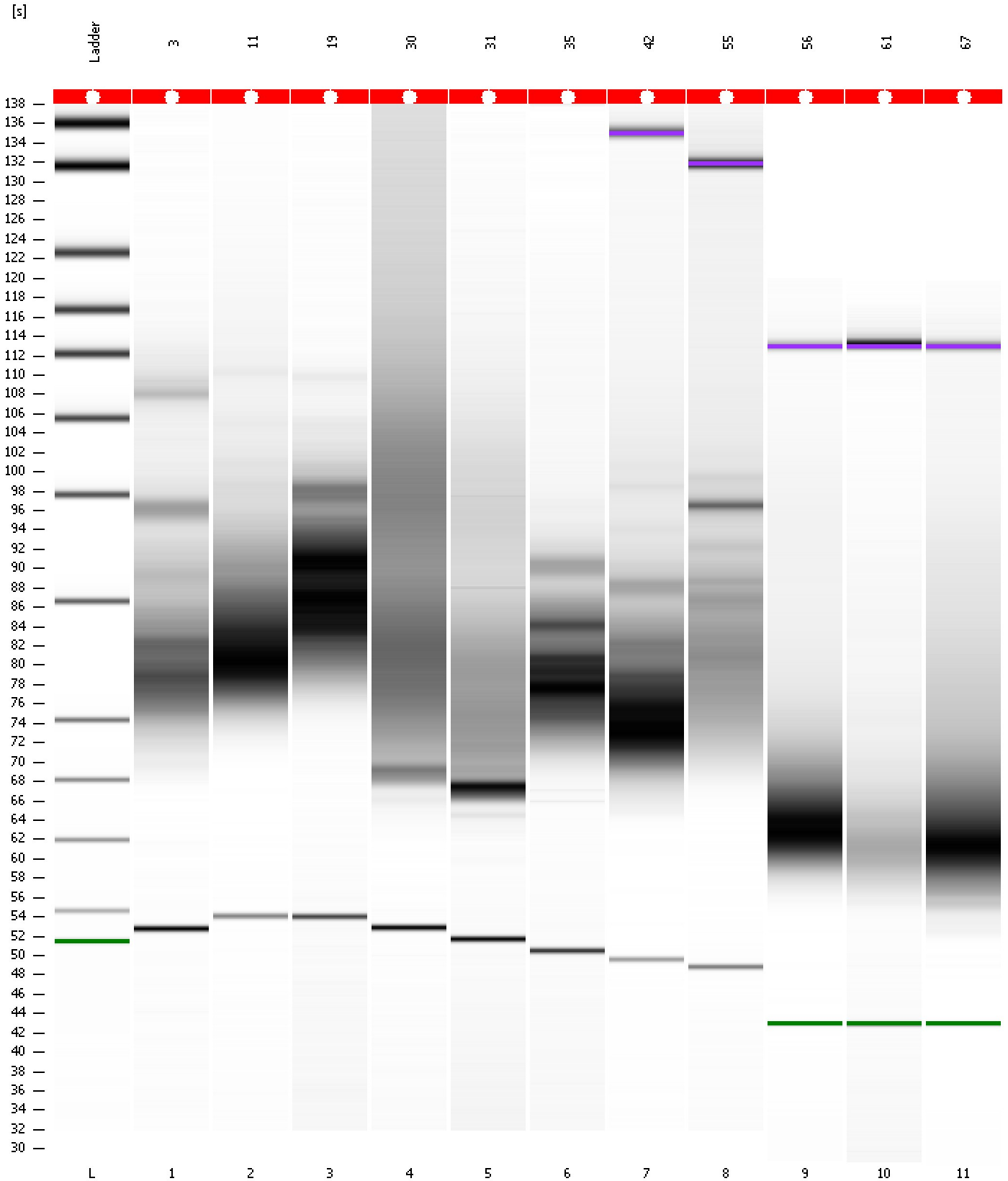
Peak table for sample 11 : 67

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		52.60
3	0	0.00	0.0		53.42
4	0	0.00	0.0		61.51
5	0	0.00	0.0		74.77
6	0	0.00	0.0		75.80
7	0	0.00	0.0		77.78
8	0	0.00	0.0		78.60
9	0	0.00	0.0		80.24
10	0	0.00	0.0		82.65
11	0	0.00	0.0		84.80
12	0	0.00	0.0		90.83
13	0	0.00	0.0		97.24
14	0	0.00	0.0		98.49
15	0	0.00	0.0		99.53
16	0	0.00	0.0		100.39
17	0	0.00	0.0		101.46
18	0	0.00	0.0		102.15
19	0	0.00	0.0		104.00
20	0	0.00	0.0		105.68
21	0	0.00	0.0		106.76
22	0	0.00	0.0		108.01
23	0	0.00	0.0	Upper Marker	113.00
24	0	0.00	0.0		115.32
25	0	0.00	0.0		116.10

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
Modified: 10/10/2019 5:34:09 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-10\2019-10-10_005.xad

Created: 10/10/2019 4:45:56 PM
 Modified: 10/10/2019 5:34:09 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		10/10/2019 5:27:12 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\2019-10-10\2019-10-10_005.xad)		Instrument	Run		10/10/2019 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		10/10/2019 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/10/2019 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/10/2019 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		10/10/2019 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/10/2019 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/10/2019 4:46:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1