

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-17\2019-05-17\_004.xad

Created: 5/17/2019 4:08:14 PM  
Modified: 5/17/2019 4:50:30 PM

### Electrophoresis File Run Summary

#### Instrument Information:

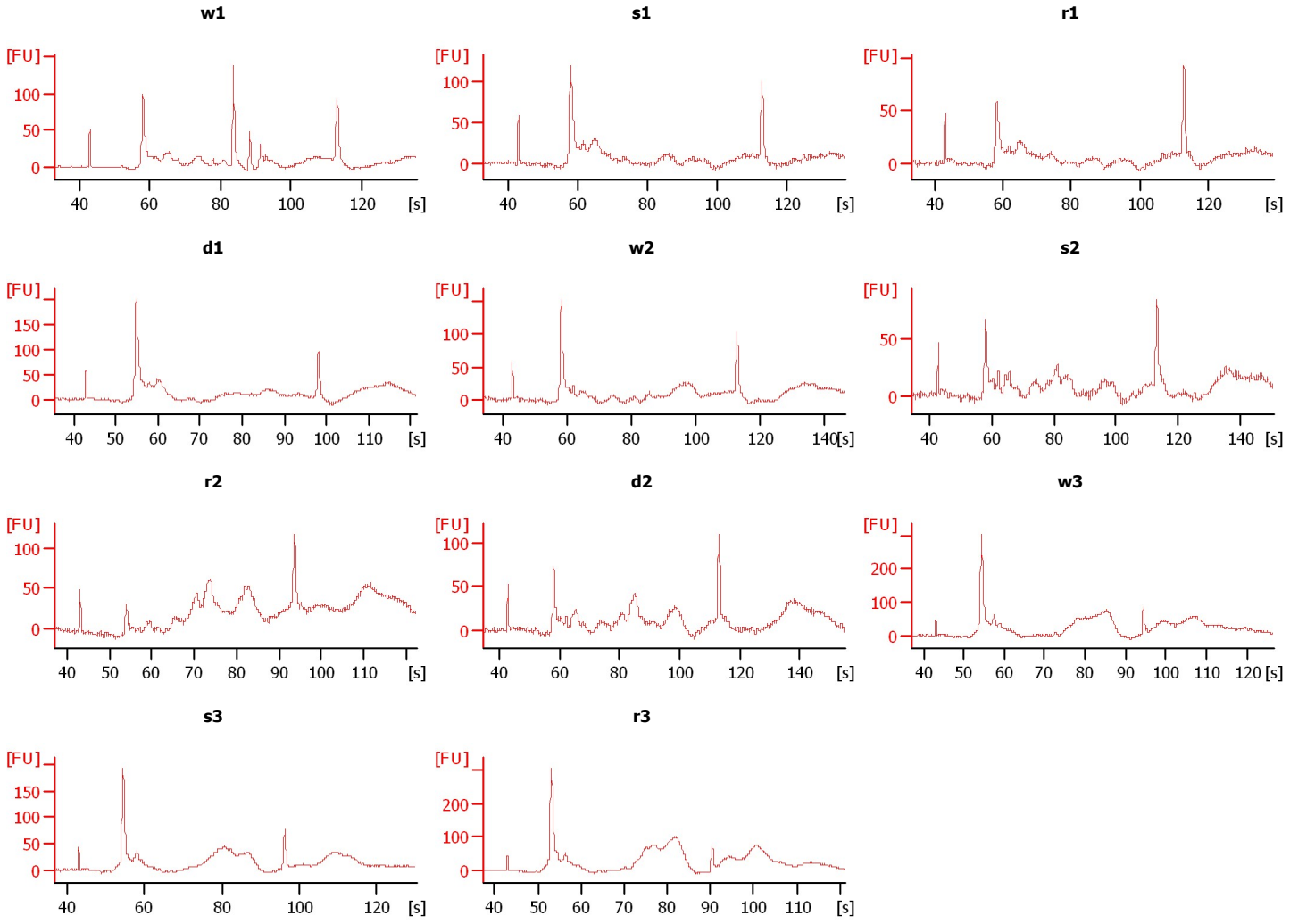
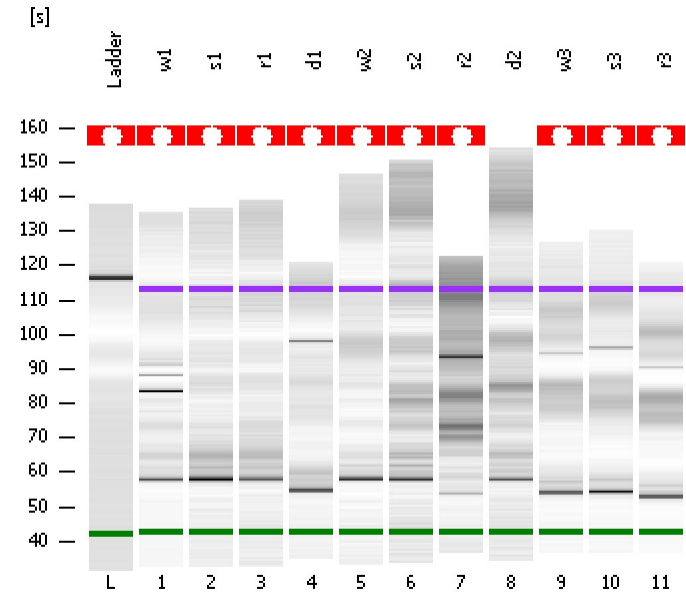
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

#### 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:



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
w1		<input type="checkbox"/>	✓			
s1		<input type="checkbox"/>	✓			
r1		<input type="checkbox"/>	✓			
d1		<input type="checkbox"/>	✓			
w2		<input type="checkbox"/>	✓			
s2		<input type="checkbox"/>	✓			
r2		<input type="checkbox"/>	✓			
d2		<input type="checkbox"/>	✓			
w3		<input type="checkbox"/>	✓			
s3		<input type="checkbox"/>	✓			
r3		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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**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

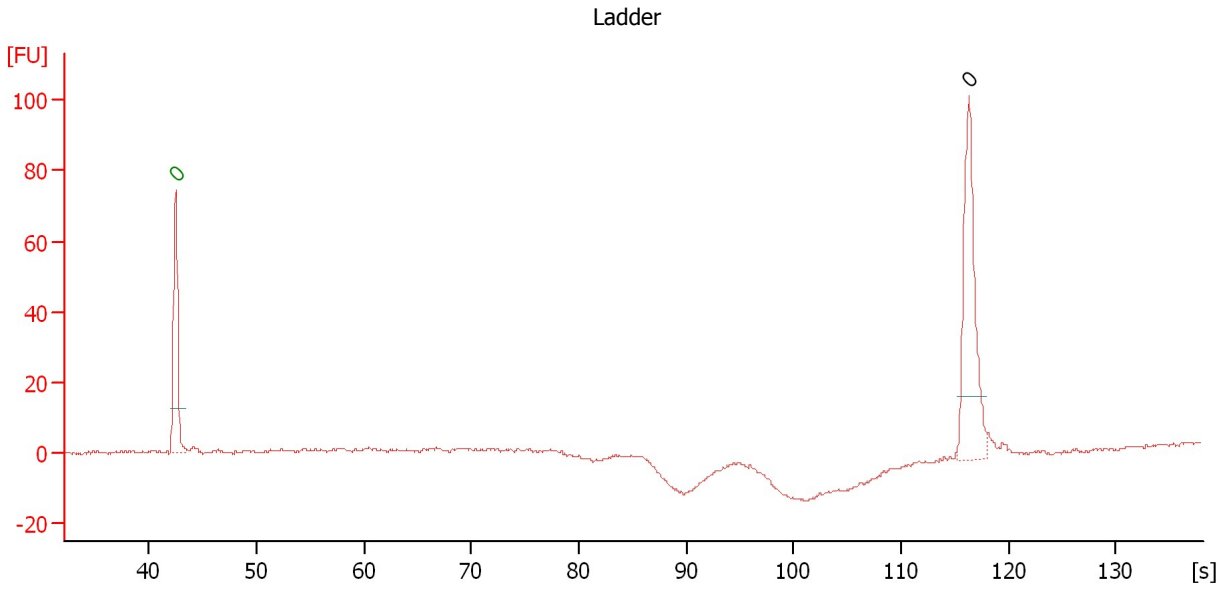
**Ladder**

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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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.5

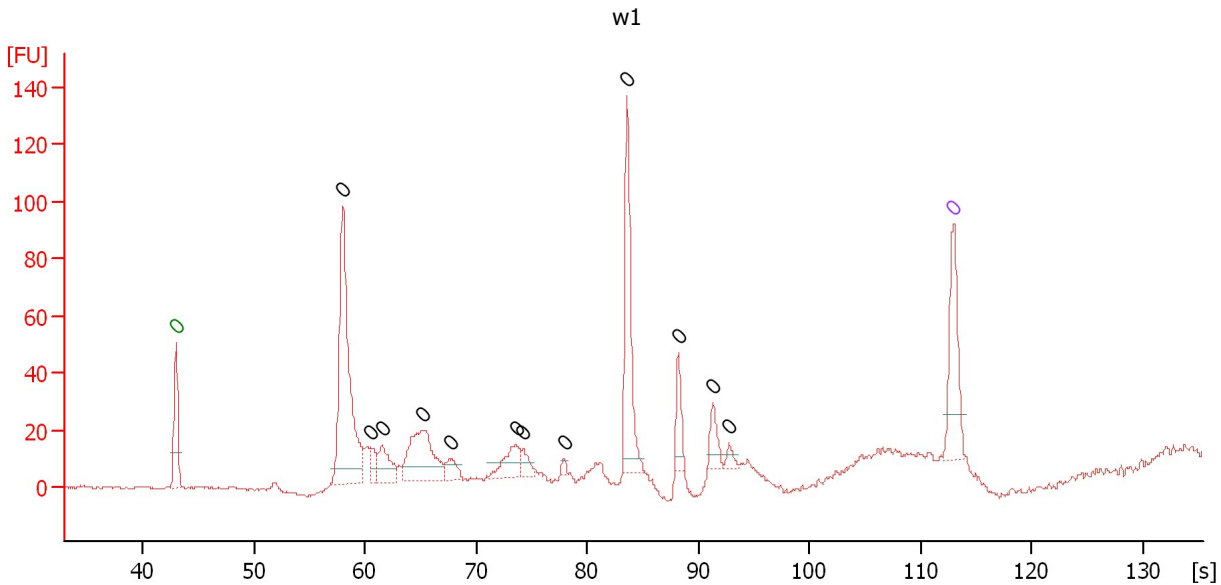
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	42.45
2	0	0.00	0.0	Ladder Peak	116.30

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : w1**

Number of peaks found: 12                      Noise: 0.5

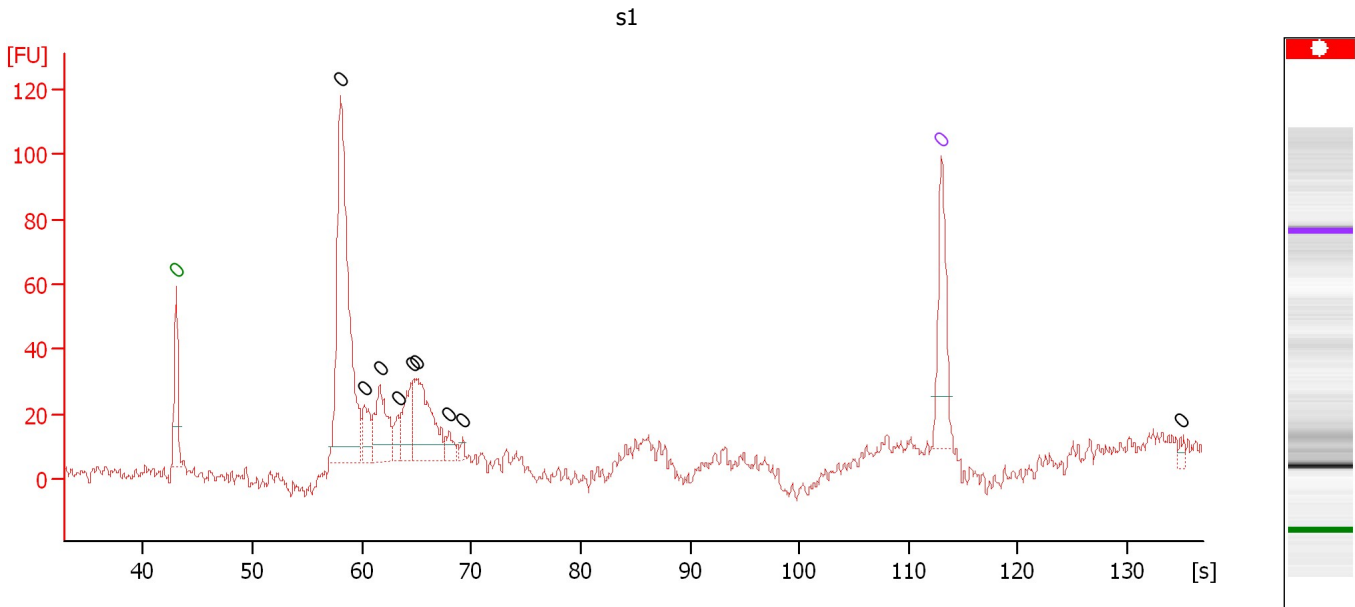
**Peak table for sample 1 : w1**

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		58.03
3	0	0.00	0.0		60.60
4	0	0.00	0.0		61.52
5	0	0.00	0.0		65.24
6	0	0.00	0.0		67.80
7	0	0.00	0.0		73.60
8	0	0.00	0.0		74.28
9	0	0.00	0.0		77.90
10	0	0.00	0.0		83.61
11	0	0.00	0.0		88.25
12	0	0.00	0.0		91.34
13	0	0.00	0.0		92.74
14	0	0.00	0.0	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : s1**

Number of peaks found: 9                      Noise: 2.4

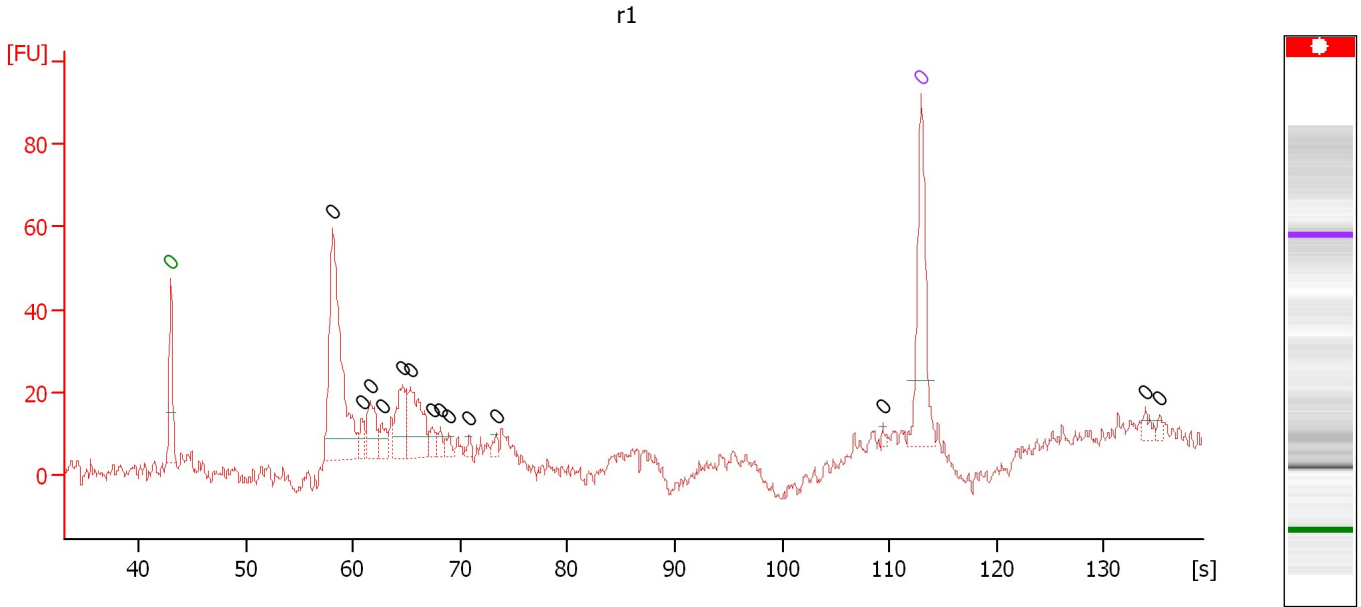
**Peak table for sample 2 : s1**

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		58.08
3	0	0.00	0.0		60.19
4	0	0.00	0.0		61.62
5	0	0.00	0.0		63.29
6	0	0.00	0.0		64.61
7	0	0.00	0.0		64.96
8	0	0.00	0.0		68.00
9	0	0.00	0.0		69.23
10	0	0.00	0.0	Upper Marker	113.00
11	0	0.00	0.0		134.86

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : r1**

Number of peaks found: 14                      Noise: 2.2

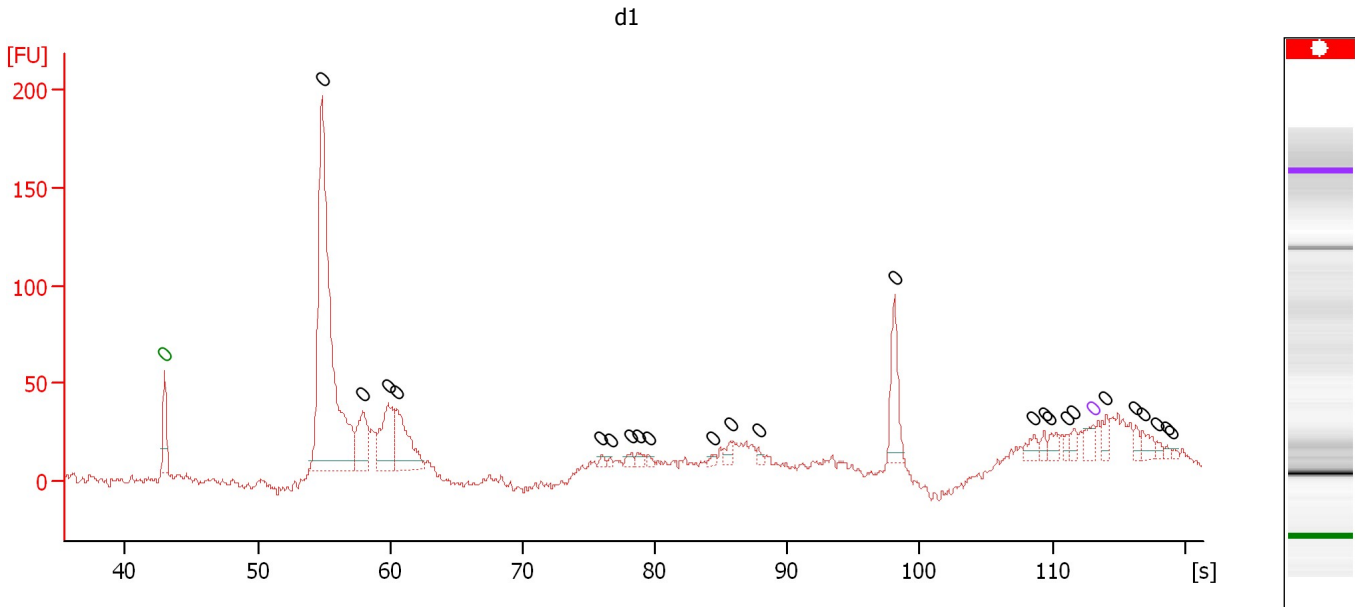
**Peak table for sample 3 : r1**

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		58.12
3	0	0.00	0.0		60.83
4	0	0.00	0.0		61.58
5	0	0.00	0.0		62.73
6	0	0.00	0.0		64.58
7	0	0.00	0.0		65.33
8	0	0.00	0.0		67.33
9	0	0.00	0.0		68.14
10	0	0.00	0.0		68.94
11	0	0.00	0.0		70.84
12	0	0.00	0.0		73.34
13	0	0.00	0.0		109.39
14	0	0.00	0.0	Upper Marker	113.00
15	0	0.00	0.0		133.83
16	0	0.00	0.0		135.23

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : d1**

Number of peaks found: 24                      Noise: 2.1

**Peak table for sample 4 : d1**

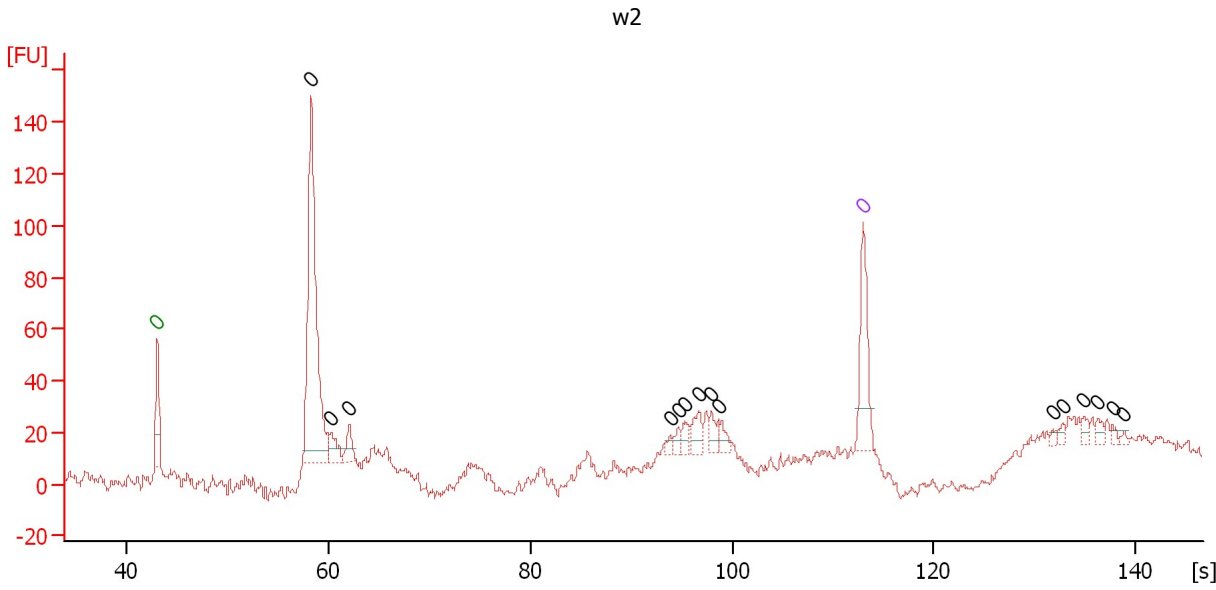
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		54.88
3	0	0.00	0.0		57.96
4	0	0.00	0.0		59.86
5	0	0.00	0.0		60.47
6	0	0.00	0.0		75.95
7	0	0.00	0.0		76.60
8	0	0.00	0.0		78.18
9	0	0.00	0.0		78.71
10	0	0.00	0.0		79.52
11	0	0.00	0.0		84.42
12	0	0.00	0.0		85.68
13	0	0.00	0.0		87.79
14	0	0.00	0.0		98.08
15	0	0.00	0.0		108.58
16	0	0.00	0.0		109.39
17	0	0.00	0.0		109.72
18	0	0.00	0.0		111.05
19	0	0.00	0.0		111.58
20	0	0.00	0.0	Upper Marker	113.00
21	0	0.00	0.0		114.05
22	0	0.00	0.0		116.28
23	0	0.00	0.0		116.81
24	0	0.00	0.0		117.86
25	0	0.00	0.0		118.63
26	0	0.00	0.0		118.96



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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : w2**

Number of peaks found: 15                      Noise: 2.4

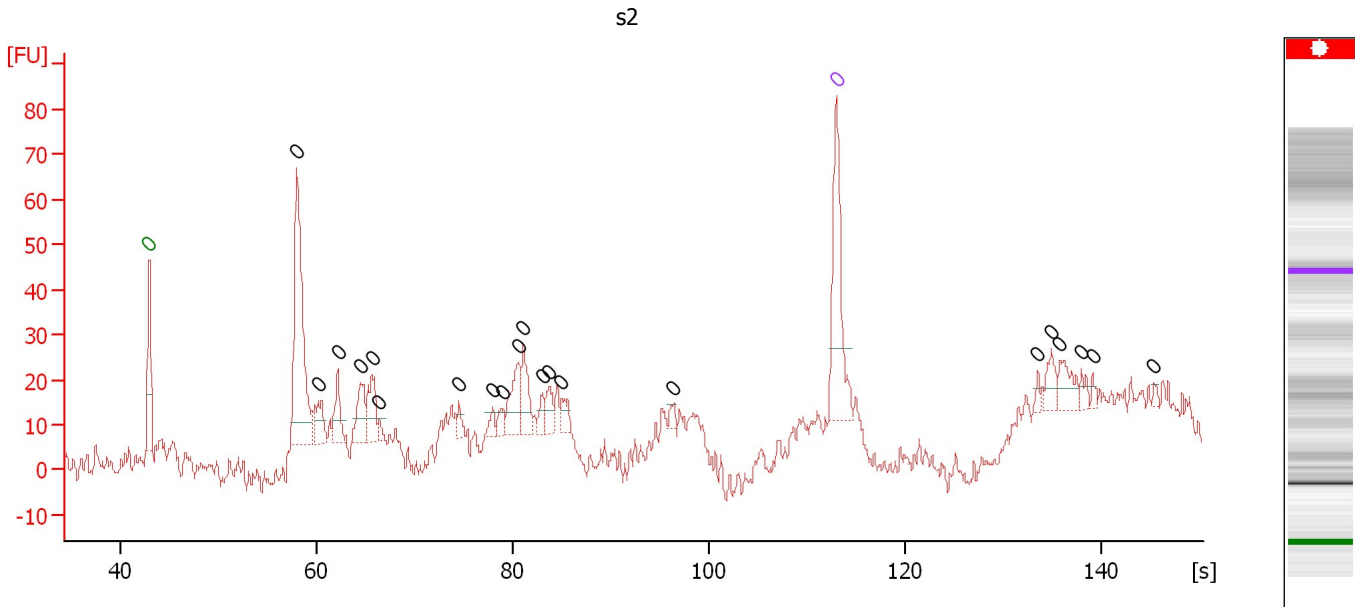
**Peak table for sample 5 : w2**

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		58.28
3	0	0.00	0.0		60.14
4	0	0.00	0.0		62.06
5	0	0.00	0.0		93.84
6	0	0.00	0.0		94.63
7	0	0.00	0.0		95.33
8	0	0.00	0.0		96.60
9	0	0.00	0.0		97.94
10	0	0.00	0.0		98.68
11	0	0.00	0.0	Upper Marker	113.00
12	0	0.00	0.0		131.79
13	0	0.00	0.0		132.75
14	0	0.00	0.0		134.88
15	0	0.00	0.0		136.21
16	0	0.00	0.0		137.70
17	0	0.00	0.0		138.82

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : s2**

Number of peaks found: 21                      Noise: 2.6

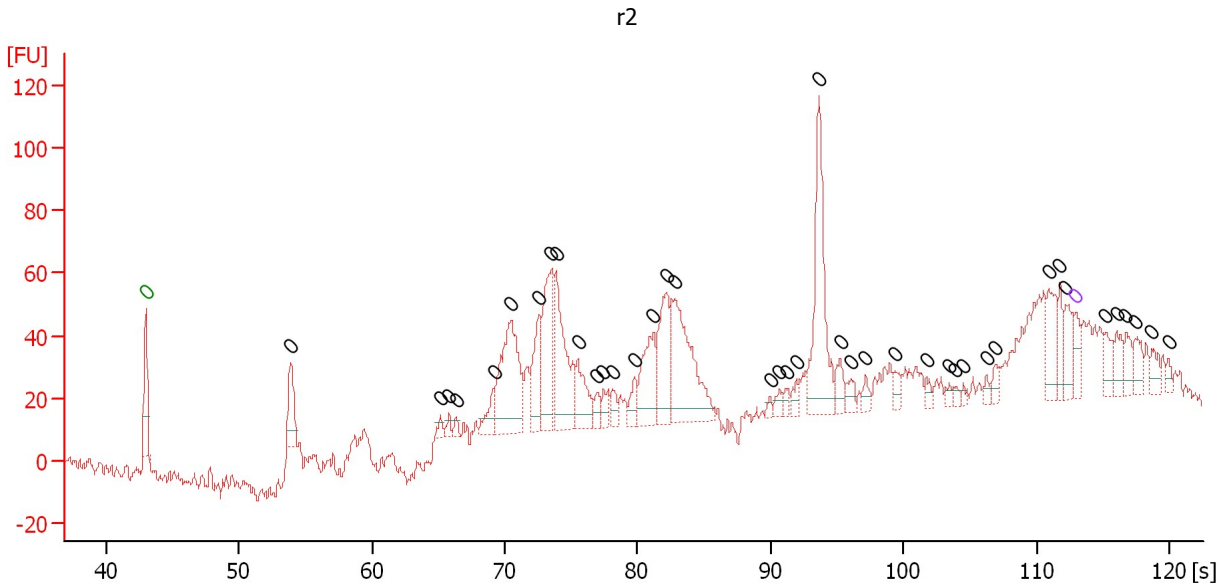
**Peak table for sample 6 : s2**

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		58.05
3	0	0.00	0.0		60.24
4	0	0.00	0.0		62.21
5	0	0.00	0.0		64.51
6	0	0.00	0.0		65.71
7	0	0.00	0.0		66.42
8	0	0.00	0.0		74.58
9	0	0.00	0.0		78.03
10	0	0.00	0.0		78.96
11	0	0.00	0.0		80.60
12	0	0.00	0.0		81.15
13	0	0.00	0.0		83.12
14	0	0.00	0.0		83.72
15	0	0.00	0.0		85.03
16	0	0.00	0.0		96.42
17	0	0.00	0.0	Upper Marker	113.00
18	0	0.00	0.0		133.58
19	0	0.00	0.0		134.95
20	0	0.00	0.0		135.82
21	0	0.00	0.0		138.01
22	0	0.00	0.0		139.11
23	0	0.00	0.0		145.40

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : r2**

Number of peaks found: 41                      Noise: 3.1

**Peak table for sample 7 : r2**

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		53.91
3	0	0.00	0.0		65.15
4	0	0.00	0.0		65.83
5	0	0.00	0.0		66.32
6	0	0.00	0.0		69.19
7	0	0.00	0.0		70.44
8	0	0.00	0.0		72.58
9	0	0.00	0.0		73.51
10	0	0.00	0.0		73.84
11	0	0.00	0.0		75.49
12	0	0.00	0.0		76.87
13	0	0.00	0.0		77.43
14	0	0.00	0.0		78.08
15	0	0.00	0.0		79.74
16	0	0.00	0.0		81.19
17	0	0.00	0.0		82.16
18	0	0.00	0.0		82.81
19	0	0.00	0.0		89.96
20	0	0.00	0.0		90.69
21	0	0.00	0.0		91.18
22	0	0.00	0.0		91.98
23	0	0.00	0.0		93.64
24	0	0.00	0.0		95.26
25	0	0.00	0.0		96.07
26	0	0.00	0.0		97.16
27	0	0.00	0.0		99.34

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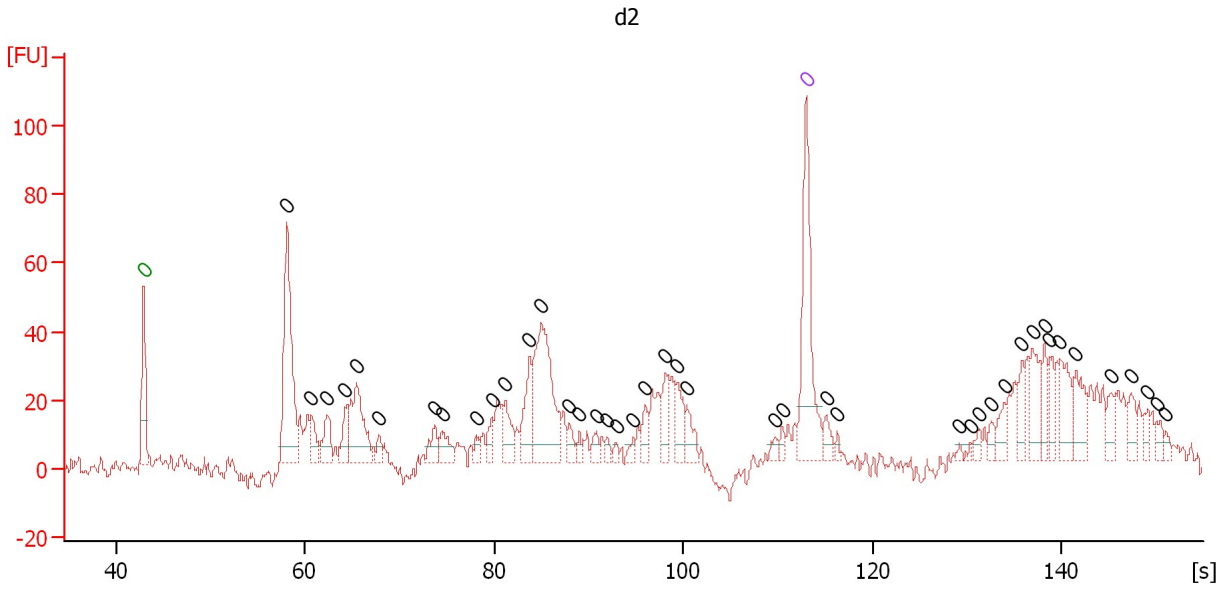
**Electropherogram Summary Continued ...****... Peak table for sample 7 : r2**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		101.72
29	0	0.00	0.0		103.46
30	0	0.00	0.0		103.91
31	0	0.00	0.0		104.51
32	0	0.00	0.0		106.25
33	0	0.00	0.0		106.98
34	0	0.00	0.0		110.94
35	0	0.00	0.0		111.79
36	0	0.00	0.0		112.23
37	0	0.00	0.0	Upper Marker	113.00
38	0	0.00	0.0		115.26
39	0	0.00	0.0		116.03
40	0	0.00	0.0		116.76
41	0	0.00	0.0		117.49
42	0	0.00	0.0		118.70
43	0	0.00	0.0		119.95

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : d2**

Number of peaks found: 43                      Noise: 3.0

**Peak table for sample 8 : 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		58.10
3	0	0.00	0.0		60.71
4	0	0.00	0.0		62.42
5	0	0.00	0.0		64.29
6	0	0.00	0.0		65.48
7	0	0.00	0.0		67.81
8	0	0.00	0.0		73.77
9	0	0.00	0.0		74.51
10	0	0.00	0.0		78.09
11	0	0.00	0.0		79.79
12	0	0.00	0.0		81.21
13	0	0.00	0.0		83.76
14	0	0.00	0.0		85.01
15	0	0.00	0.0		88.02
16	0	0.00	0.0		89.04
17	0	0.00	0.0		90.80
18	0	0.00	0.0		91.94
19	0	0.00	0.0		92.96
20	0	0.00	0.0		94.78
21	0	0.00	0.0		96.03
22	0	0.00	0.0		98.18
23	0	0.00	0.0		99.37
24	0	0.00	0.0		100.40
25	0	0.00	0.0		109.76
26	0	0.00	0.0		110.50
27	0	0.00	0.0	Upper Marker	113.00

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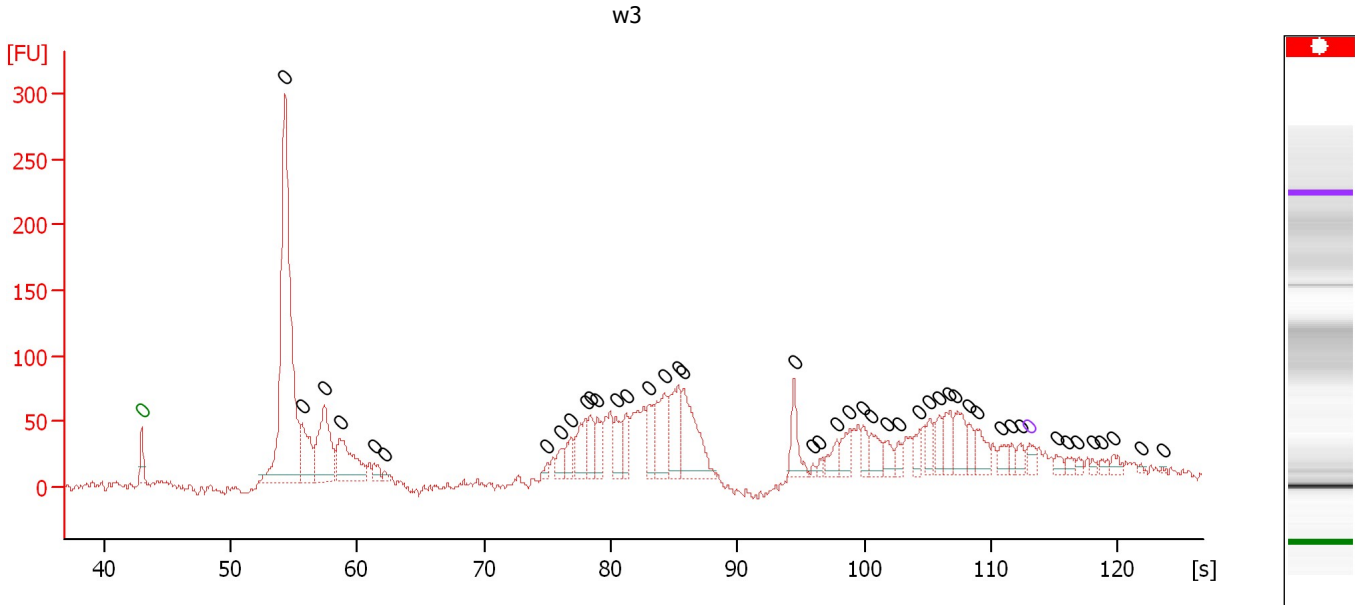
**Electropherogram Summary Continued ...****... Peak table for sample 8 : d2**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		115.16
29	0	0.00	0.0		116.29
30	0	0.00	0.0		129.18
31	0	0.00	0.0		130.37
32	0	0.00	0.0		131.28
33	0	0.00	0.0		132.59
34	0	0.00	0.0		133.95
35	0	0.00	0.0		135.82
36	0	0.00	0.0		137.01
37	0	0.00	0.0		138.21
38	0	0.00	0.0		138.77
39	0	0.00	0.0		139.85
40	0	0.00	0.0		141.56
41	0	0.00	0.0		145.19
42	0	0.00	0.0		147.35
43	0	0.00	0.0		149.11
44	0	0.00	0.0		150.07
45	0	0.00	0.0		151.04

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : w3**

Number of peaks found: 45                      Noise: 2.9

**Peak table for sample 9 : w3**

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		54.31
3	0	0.00	0.0		55.66
4	0	0.00	0.0		57.40
5	0	0.00	0.0		58.63
6	0	0.00	0.0		61.34
7	0	0.00	0.0		62.18
8	0	0.00	0.0		75.01
9	0	0.00	0.0		76.03
10	0	0.00	0.0		76.84
11	0	0.00	0.0		78.06
12	0	0.00	0.0		78.40
13	0	0.00	0.0		78.91
14	0	0.00	0.0		80.39
15	0	0.00	0.0		81.20
16	0	0.00	0.0		82.93
17	0	0.00	0.0		84.20
18	0	0.00	0.0		85.30
19	0	0.00	0.0		85.73
20	0	0.00	0.0		94.45
21	0	0.00	0.0		95.93
22	0	0.00	0.0		96.48
23	0	0.00	0.0		97.80
24	0	0.00	0.0		98.81
25	0	0.00	0.0		99.91
26	0	0.00	0.0		100.55
27	0	0.00	0.0		101.78

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**Electropherogram Summary Continued ...****... Peak table for sample 9 : w3**

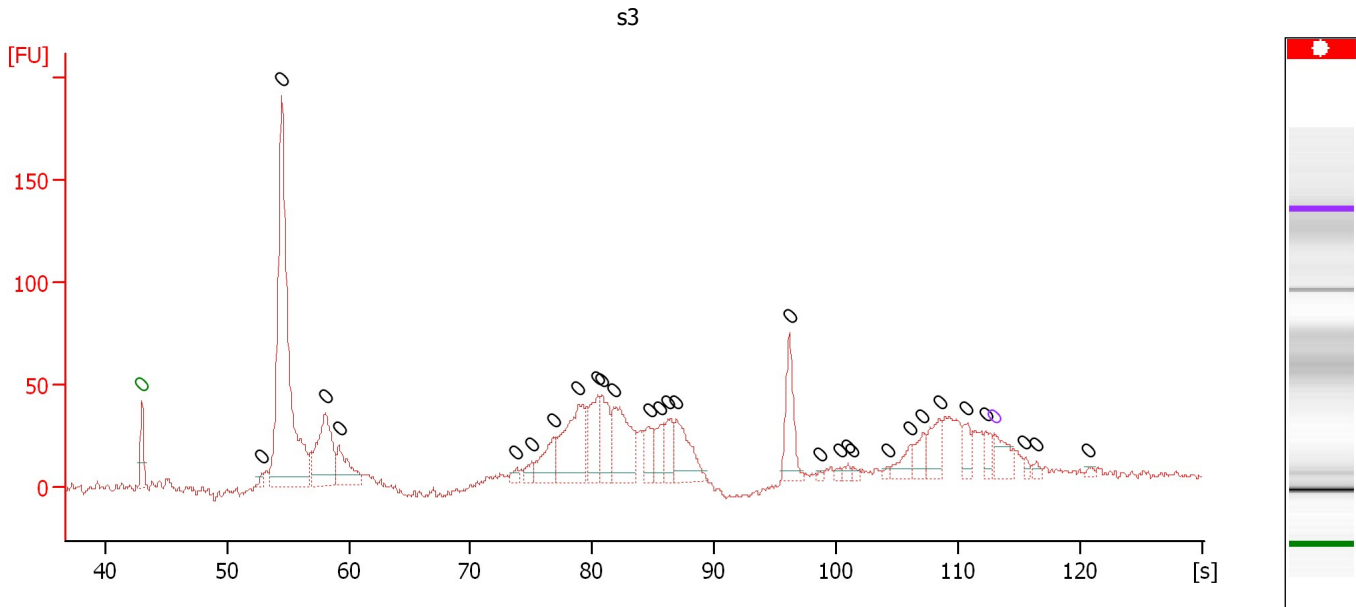
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		102.67
29	0	0.00	0.0		104.36
30	0	0.00	0.0		105.12
31	0	0.00	0.0		105.89
32	0	0.00	0.0		106.73
33	0	0.00	0.0		107.16
34	0	0.00	0.0		108.26
35	0	0.00	0.0		108.85
36	0	0.00	0.0		110.76
37	0	0.00	0.0		111.60
38	0	0.00	0.0		112.28
39	0	0.00	0.0	Upper Marker	113.00
40	0	0.00	0.0		115.12
41	0	0.00	0.0		115.92
42	0	0.00	0.0		116.81
43	0	0.00	0.0		118.00
44	0	0.00	0.0		118.67
45	0	0.00	0.0		119.65
46	0	0.00	0.0		121.77
47	0	0.00	0.0		123.50



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-17\2019-05-17\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : s3**

Number of peaks found: 29                      Noise: 1.6

**Peak table for sample 10 : s3**

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		52.92
3	0	0.00	0.0		54.51
4	0	0.00	0.0		58.08
5	0	0.00	0.0		59.18
6	0	0.00	0.0		73.77
7	0	0.00	0.0		75.05
8	0	0.00	0.0		76.85
9	0	0.00	0.0		78.84
10	0	0.00	0.0		80.47
11	0	0.00	0.0		80.73
12	0	0.00	0.0		81.75
13	0	0.00	0.0		84.70
14	0	0.00	0.0		85.54
15	0	0.00	0.0		86.24
16	0	0.00	0.0		86.90
17	0	0.00	0.0		96.16
18	0	0.00	0.0		98.63
19	0	0.00	0.0		100.30
20	0	0.00	0.0		100.97
21	0	0.00	0.0		101.36
22	0	0.00	0.0		104.27
23	0	0.00	0.0		106.08
24	0	0.00	0.0		107.14
25	0	0.00	0.0		108.46
26	0	0.00	0.0		110.75
27	0	0.00	0.0		112.29

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-17\2019-05-17\_004.xad

Created: 5/17/2019 4:08:14 PM  
Modified: 5/17/2019 4:50:30 PM

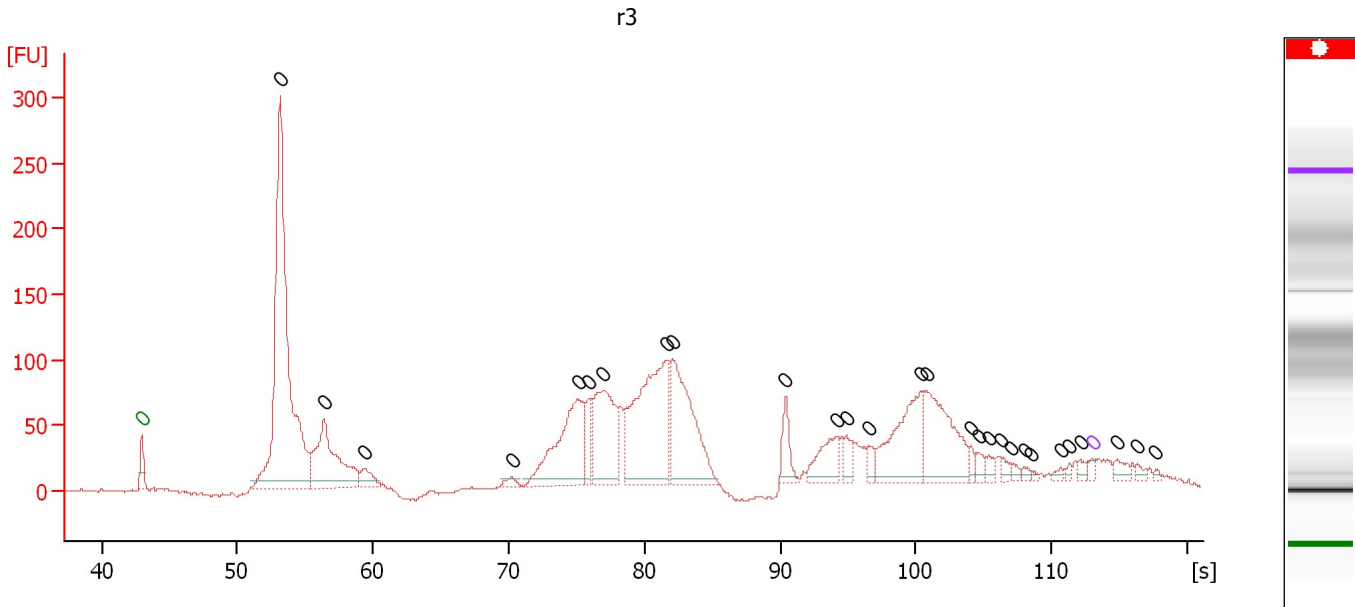
**Electropherogram Summary Continued ...****... Peak table for sample 10 : s3**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0	Upper Marker	113.00
29	0	0.00	0.0		115.42
30	0	0.00	0.0		116.48
31	0	0.00	0.0		120.71

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-17\2019-05-17\_004.xad

Created: 5/17/2019 4:08:14 PM  
 Modified: 5/17/2019 4:50:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : r3**

Number of peaks found: 28                      Noise: 1.2

**Peak table for sample 11 : r3**

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		53.17
3	0	0.00	0.0		56.41
4	0	0.00	0.0		59.34
5	0	0.00	0.0		70.22
6	0	0.00	0.0		75.13
7	0	0.00	0.0		75.92
8	0	0.00	0.0		76.99
9	0	0.00	0.0		81.66
10	0	0.00	0.0		82.06
11	0	0.00	0.0		90.41
12	0	0.00	0.0		94.20
13	0	0.00	0.0		94.88
14	0	0.00	0.0		96.54
15	0	0.00	0.0		100.46
16	0	0.00	0.0		100.85
17	0	0.00	0.0		104.06
18	0	0.00	0.0		104.69
19	0	0.00	0.0		105.40
20	0	0.00	0.0		106.27
21	0	0.00	0.0		107.06
22	0	0.00	0.0		108.01
23	0	0.00	0.0		108.57
24	0	0.00	0.0		110.67
25	0	0.00	0.0		111.34
26	0	0.00	0.0		112.13
27	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-17\2019-05-17\_004.xad

Created: 5/17/2019 4:08:14 PM  
Modified: 5/17/2019 4:50:30 PM

**Electropherogram Summary Continued ...**

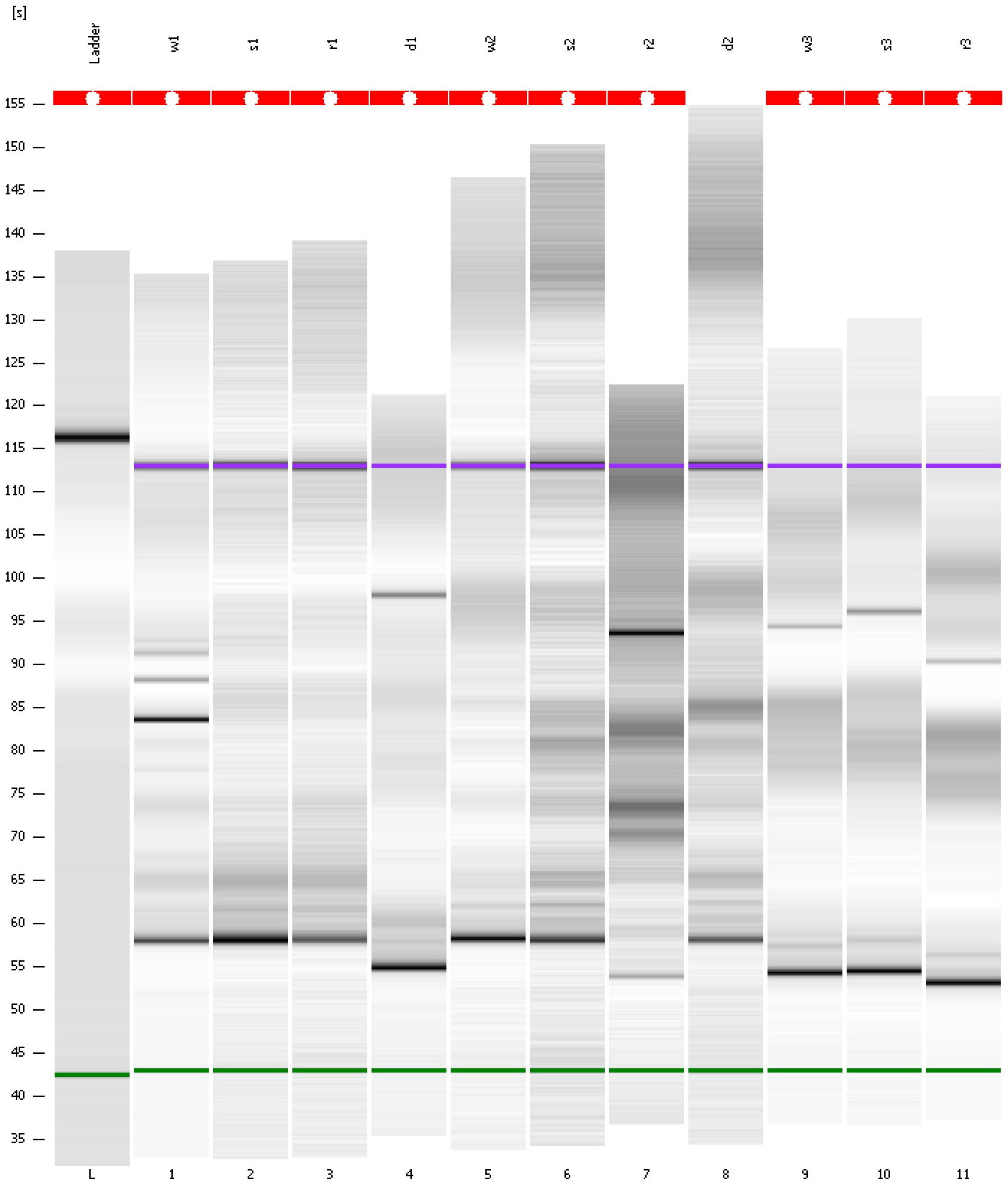
... Peak table for sample 11 : r3

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	0	0.00	0.0		114.86
29	0	0.00	0.0		116.28
30	0	0.00	0.0		117.67

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-17\2019-05-17\_004.xad

Created: 5/17/2019 4:08:14 PM  
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**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-17\2019-05-17\_004.xad

Created: 5/17/2019 4:08:14 PM  
 Modified: 5/17/2019 4:50:30 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		5/17/2019 4:48:38 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\2019-05-17\2019-05-17_004.xad)		Instrument	Run		5/17/2019 4:08:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		5/17/2019 4:08:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/17/2019 4:08:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/17/2019 4:08:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		5/17/2019 4:08:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/17/2019 4:08:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/17/2019 4:08:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1