

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16\_003.xad

Created: 1/16/2019 1:28:11 PM  
Modified: 1/16/2019 1:55:52 PM

**Electrophoresis File Run Summary**

Instrument Information:

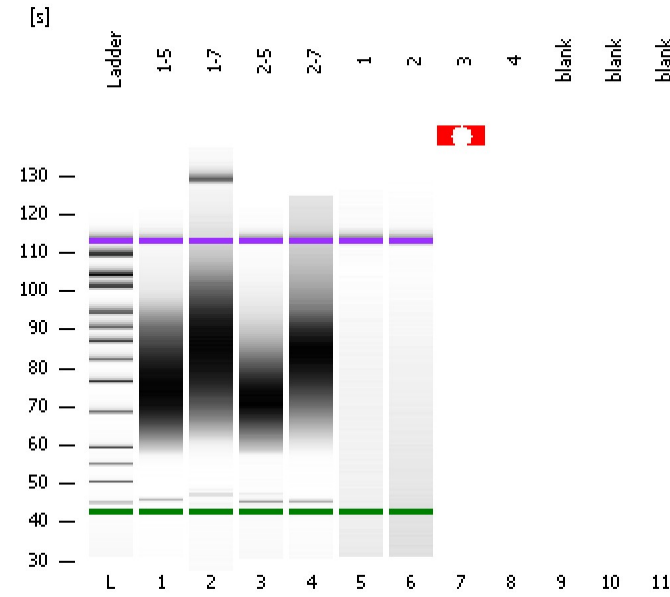
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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:

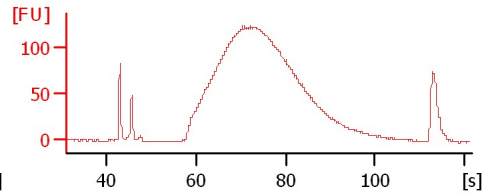
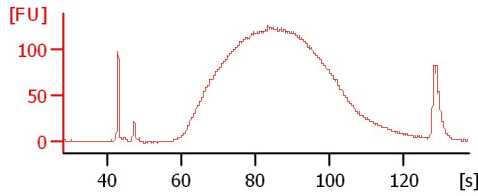
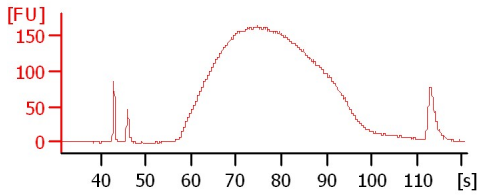
Chip Lot #:  
Reagent Kit Lot #:  
Chip Comments:



1-5

1-7

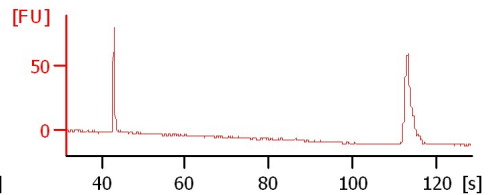
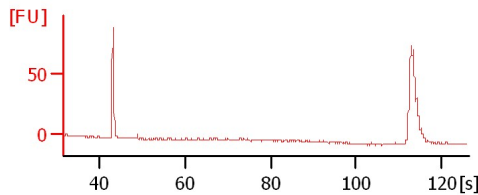
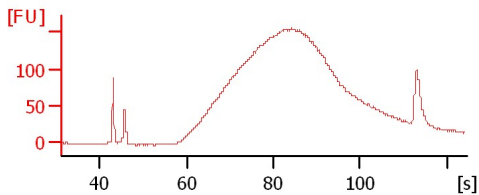
2-5



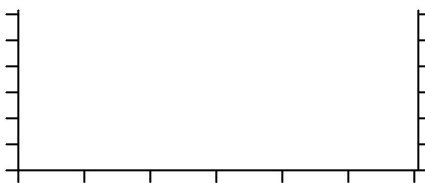
2-7

1

2



3



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1-5		<input type="checkbox"/>	✓			
1-7		<input type="checkbox"/>	✓			
2-5		<input type="checkbox"/>	✓			
2-7		<input type="checkbox"/>	✓			
1		<input type="checkbox"/>	✓			
2		<input type="checkbox"/>	✓			
3		<input type="checkbox"/>	✗			
4		<input type="checkbox"/>	✗			
blank		<input type="checkbox"/>				
blank		<input type="checkbox"/>				
blank		<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

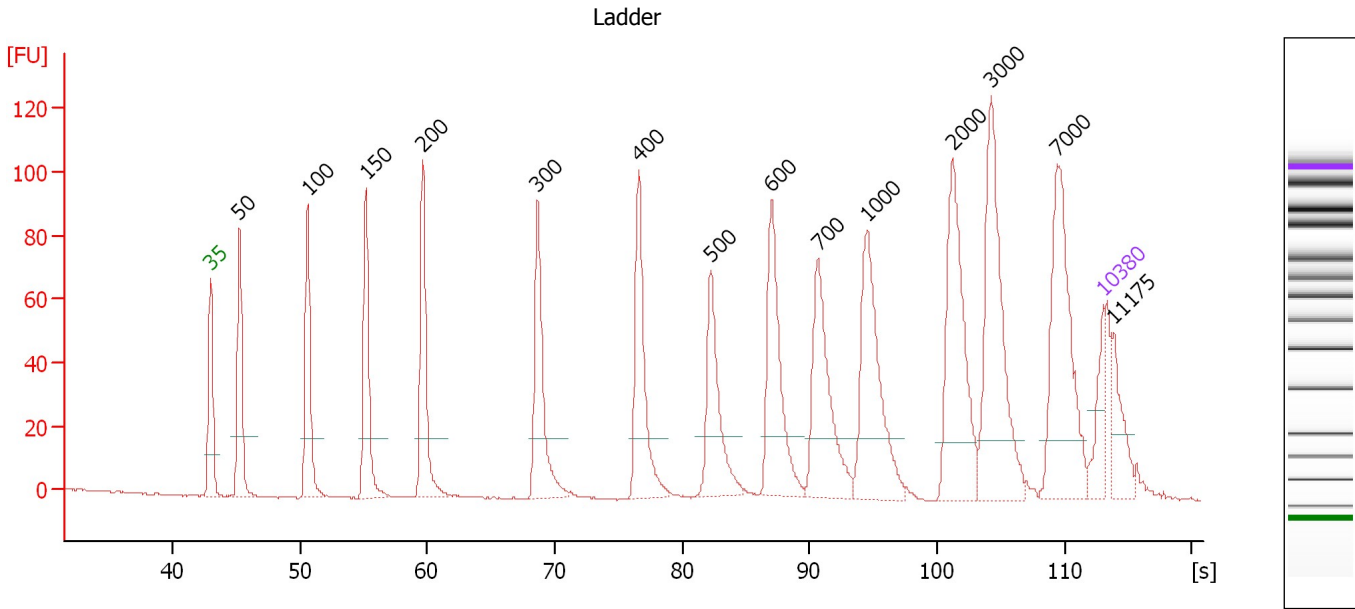
**Ladder**

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: 0.3

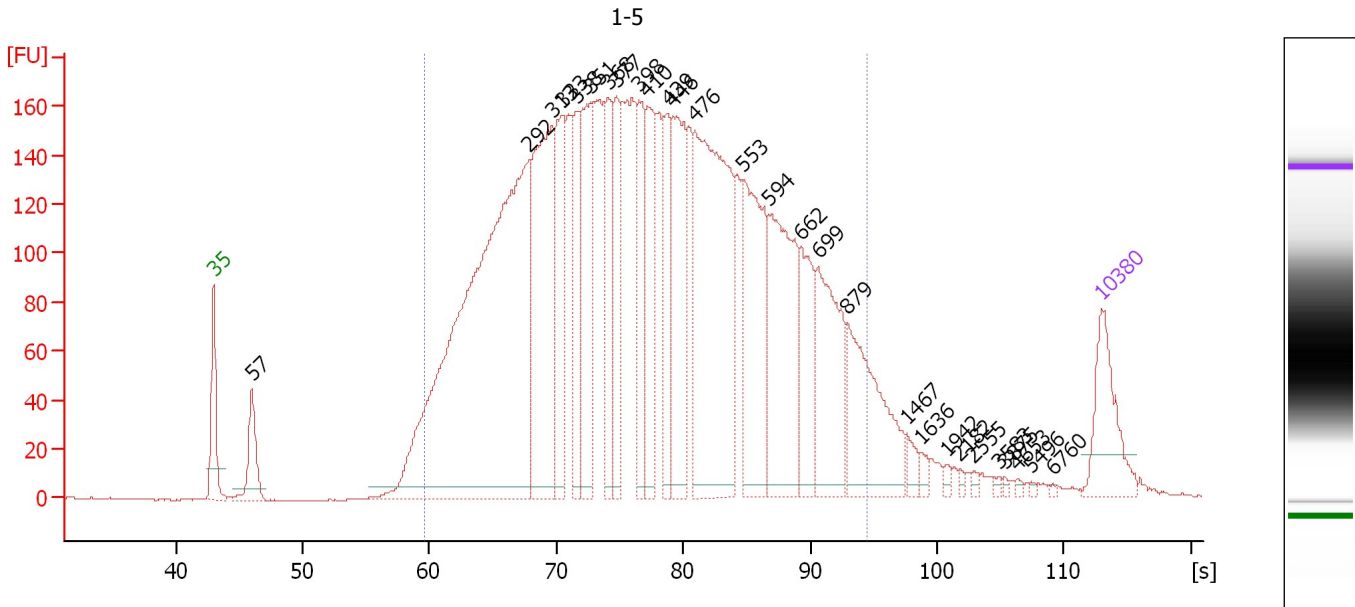
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.27
3	100	150.00	2,272.7	Ladder Peak	50.62
4	150	150.00	1,515.2	Ladder Peak	55.17
5	200	150.00	1,136.4	Ladder Peak	59.64
6	300	150.00	757.6	Ladder Peak	68.65
7	400	150.00	568.2	Ladder Peak	76.61
8	500	150.00	454.5	Ladder Peak	82.25
9	600	150.00	378.8	Ladder Peak	87.01
10	700	150.00	324.7	Ladder Peak	90.68
11	1,000	150.00	227.3	Ladder Peak	94.47
12	2,000	150.00	113.6	Ladder Peak	101.25
13	3,000	150.00	75.8	Ladder Peak	104.20
14	7,000	150.00	32.5	Ladder Peak	109.42
15	10,380	75.00	10.9	Upper Marker	113.00
16	11,175	0.00	0.0		113.84

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1-5**

Number of peaks found: 28                      Corr. Area 1: 5,915.0  
 Noise: 0.3

**Peak table for sample 1 : 1-5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	57	89.86	2,395.9		46.00
3	292	1,183.04	6,148.9		67.89
4	313	383.63	1,858.7		69.66
5	323	176.54	828.6		70.47
6	338	112.52	504.8		71.65
7	351	213.03	919.6		72.71
8	368	133.11	548.0		74.06
9	377	106.27	427.6		74.74
10	398	122.85	467.3		76.48
11	410	142.16	524.9		77.20
12	439	108.05	373.0		78.80
13	446	204.45	694.0		79.23
14	476	485.22	1,543.3		80.92
15	553	237.85	651.8		84.77
16	594	241.10	615.2		86.72
17	662	107.02	244.8		89.30
18	699	179.95	389.9		90.65
19	879	174.86	301.4		92.94
20	1,467	14.99	15.5		97.64
21	1,636	9.52	8.8		98.78
22	1,942	4.96	3.9		100.85
23	2,182	3.60	2.5		101.78
24	2,555	4.08	2.4		102.89
25	3,583	3.55	1.5		104.96

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 1 : 1-5

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,875	2.43	1.0		105.34
27	4,653	2.60	0.8		106.36
28	5,496	1.88	0.5		107.46
29	6,760	1.48	0.3		109.11
30	10,380	75.00	10.9	Upper Marker	113.00

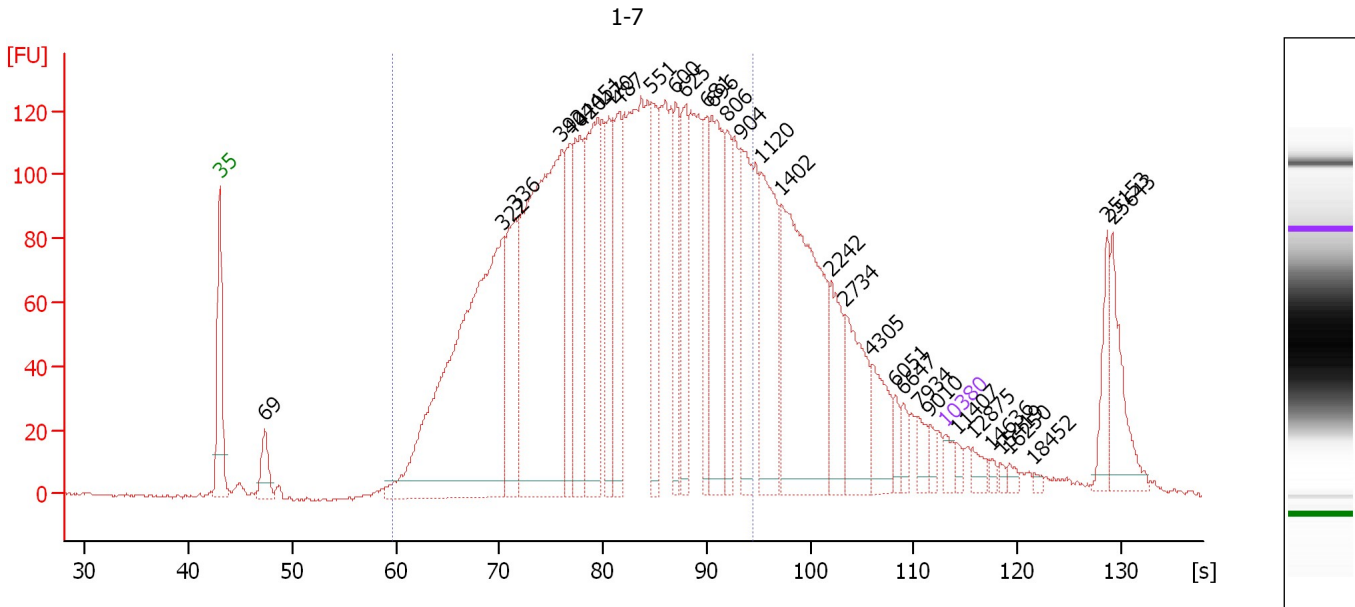
#### Region table for sample 1 : 1-5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	439	5,031.56	5,915.0	20,757.7	93	36.8

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 1-7**

Number of peaks found: 33                      Corr. Area 1: 3,651.7  
 Noise: 0.5

**Peak table for sample 2 : 1-7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	69	312.33	6,816.5		47.35
3	322	4,361.22	20,514.9		70.41
4	336	959.04	4,319.2		71.55
5	392	3,482.74	13,447.7		76.01
6	404	714.27	2,679.0		76.83
7	420	991.67	3,573.2		77.77
8	451	1,318.42	4,431.3		79.48
9	470	595.60	1,919.8		80.56
10	487	732.34	2,280.4		81.50
11	551	649.49	1,787.6		84.66
12	600	519.51	1,313.0		86.99
13	625	637.27	1,545.4		87.92
14	681	508.36	1,130.4		89.99
15	696	1,039.79	2,265.2		90.51
16	806	528.61	993.8		92.02
17	904	721.09	1,208.2		93.26
18	1,120	975.38	1,319.9		95.28
19	1,402	1,861.30	2,010.9		97.20
20	2,242	396.73	268.1		101.96
21	2,734	524.63	290.7		103.41
22	4,305	319.78	112.5		105.90
23	6,051	97.98	24.5		108.18
24	6,647	90.22	20.6		108.96
25	7,934	116.57	22.3		110.41

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 2 : 1-7

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	9,010	55.60	9.4		111.55
27	10,380	75.00	10.9	Upper Marker	113.00
28	11,407	0.00	0.0		114.09
29	12,875	0.00	0.0		115.64
30	14,636	0.00	0.0		117.51
31	15,419	0.00	0.0		118.34
32	16,250	0.00	0.0		119.22
33	18,452	0.00	0.0		121.55
34	25,153	0.00	0.0		128.65
35	25,643	0.00	0.0		129.17

#### Region table for sample 2 : 1-7

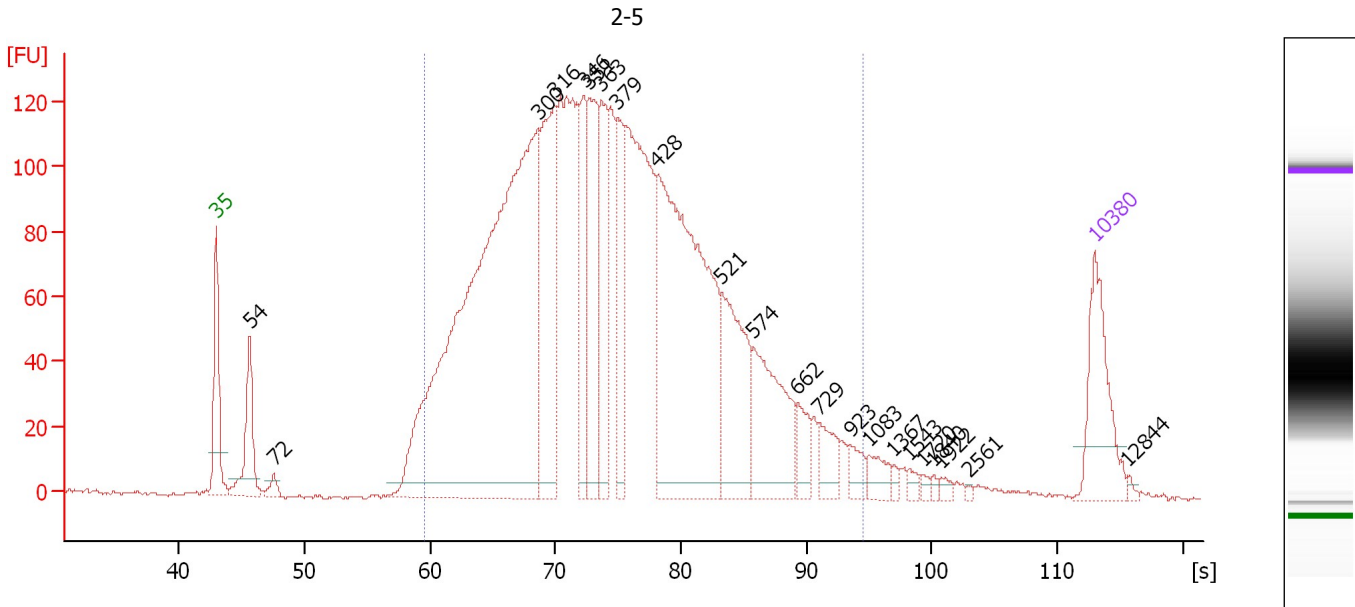
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	509	23,659.66	3,651.7	83,875.4	75	35.1



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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 2-5**

Number of peaks found: 22                      Corr. Area 1: 3,598.7  
 Noise: 0.5

**Peak table for sample 3 : 2-5**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	54	100.40	2,841.4		45.65
3	72	12.39	262.4		47.58
4	300	1,058.29	5,348.9		68.63
5	316	237.13	1,135.5		69.96
6	346	97.87	428.6		72.31
7	351	138.05	596.2		72.69
8	363	119.54	499.4		73.64
9	379	85.76	342.6		74.96
10	428	482.22	1,708.4		78.17
11	521	145.03	421.6		83.26
12	574	129.01	340.4		85.79
13	662	30.48	69.7		89.30
14	729	32.95	68.4		91.05
15	923	17.60	28.9		93.49
16	1,083	18.49	25.9		95.03
17	1,367	5.10	5.7		96.95
18	1,543	6.24	6.1		98.15
19	1,720	4.12	3.6		99.35
20	1,840	2.57	2.1		100.16
21	1,922	5.13	4.0		100.72
22	2,561	1.59	0.9		102.90
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,844	0.00	0.0		115.61

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16\_003.xad

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**Electropherogram Summary Continued ...**

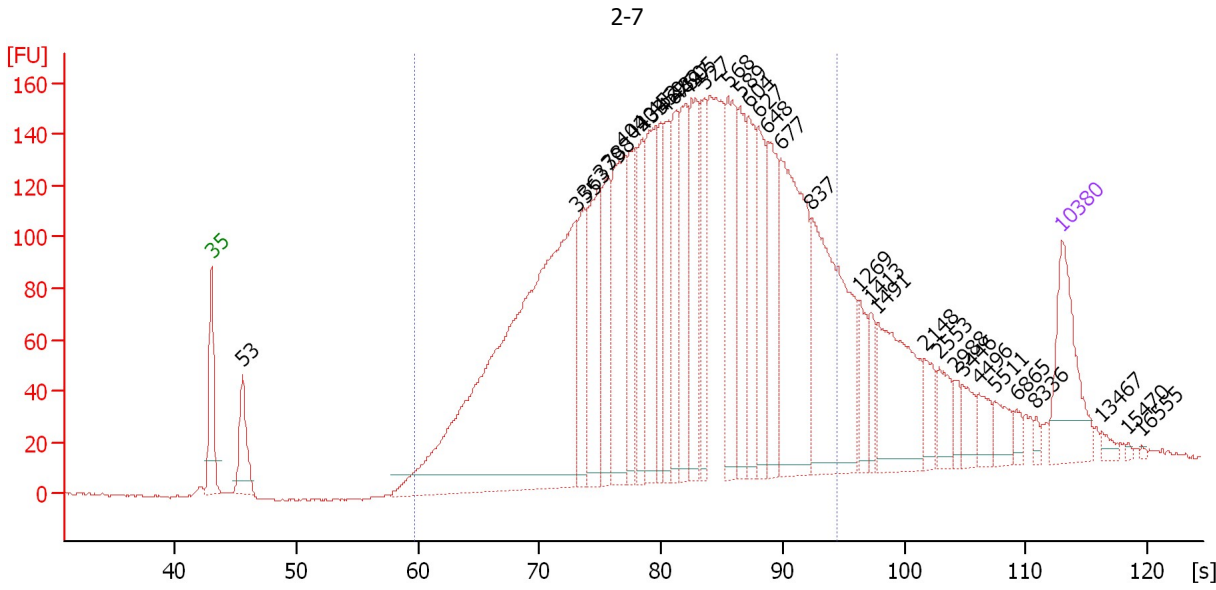
... Region table for sample 3 : 2-5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	391	3,298.50	3,598.7	14,619.6	 94	33.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 2-7**

Number of peaks found: 36                      Corr. Area 1: 4,363.5  
 Noise: 0.4

**Peak table for sample 4 : 2-7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	53	72.87	2,095.0		45.56
3	355	780.92	3,335.5		73.01
4	363	77.74	324.4		73.67
5	379	133.33	532.8		74.95
6	388	91.93	359.0		75.66
7	404	146.29	548.3		76.85
8	420	90.96	328.2		77.73
9	433	81.25	284.2		78.49
10	452	115.83	388.3		79.55
11	459	72.62	239.7		79.94
12	467	72.66	235.8		80.39
13	482	95.77	301.2		81.23
14	497	102.20	311.8		82.07
15	505	102.29	306.7		82.51
16	527	71.68	206.2		83.52
17	568	112.70	300.4		85.51
18	589	82.21	211.5		86.48
19	604	83.17	208.8		87.15
20	627	80.03	193.5		87.99
21	648	98.22	229.6		88.78
22	677	216.72	484.9		89.84
23	837	221.38	400.8		92.41
24	1,269	30.52	36.4		96.30
25	1,413	21.96	23.6		97.27

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**Electropherogram Summary Continued ...**

**... Peak table for sample 4 : 2-7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,491	110.90	112.7		97.80
27	2,148	23.98	16.9		101.69
28	2,553	26.19	15.5		102.88
29	2,988	10.62	5.4		104.16
30	3,446	18.51	8.1		104.78
31	4,496	18.22	6.1		106.15
32	5,511	20.24	5.6		107.48
33	6,865	8.24	1.8		109.24
34	8,336	5.02	0.9		110.83
35	10,380	75.00	10.9	Upper Marker	113.00
36	13,467	0.00	0.0		116.27
37	15,470	0.00	0.0		118.39
38	16,555	0.00	0.0		119.54

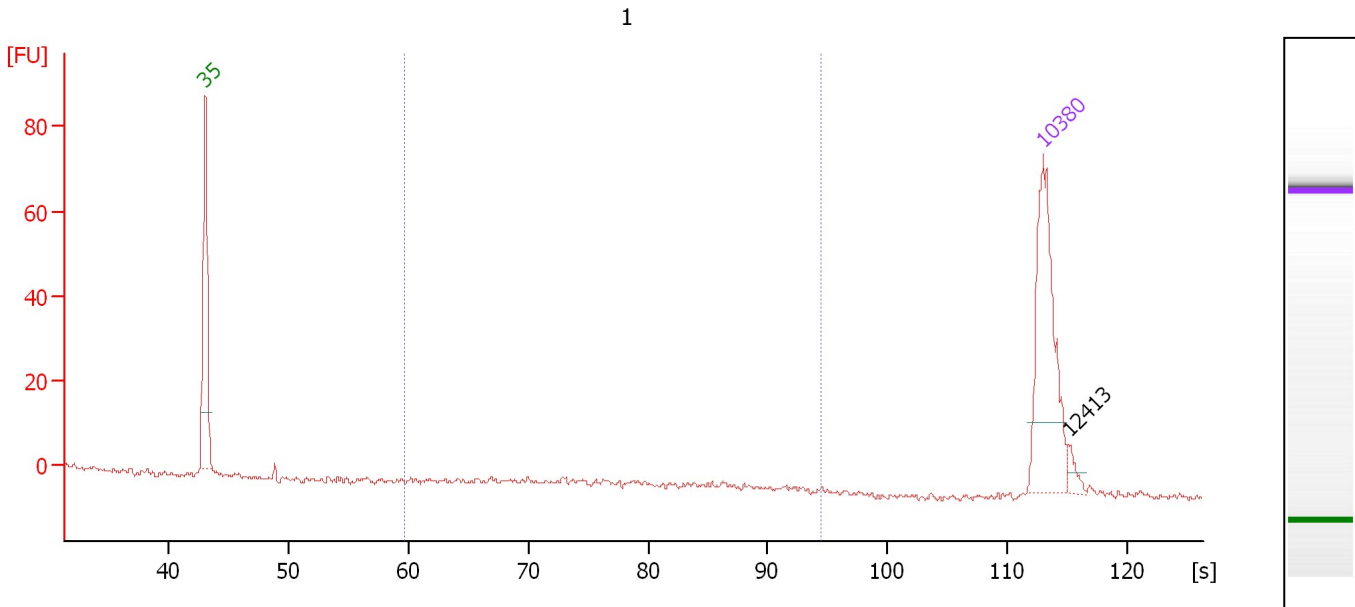
**Region table for sample 4 : 2-7**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	502	3,069.64	4,363.5	10,887.1	84	33.4

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 1**

Number of peaks found: 1                      Corr. Area 1: 0.3  
 Noise: 0.6

**Peak table for sample 5 : 1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00
3	12,413	0.00	0.0		115.15

**Region table for sample 5 : 1**

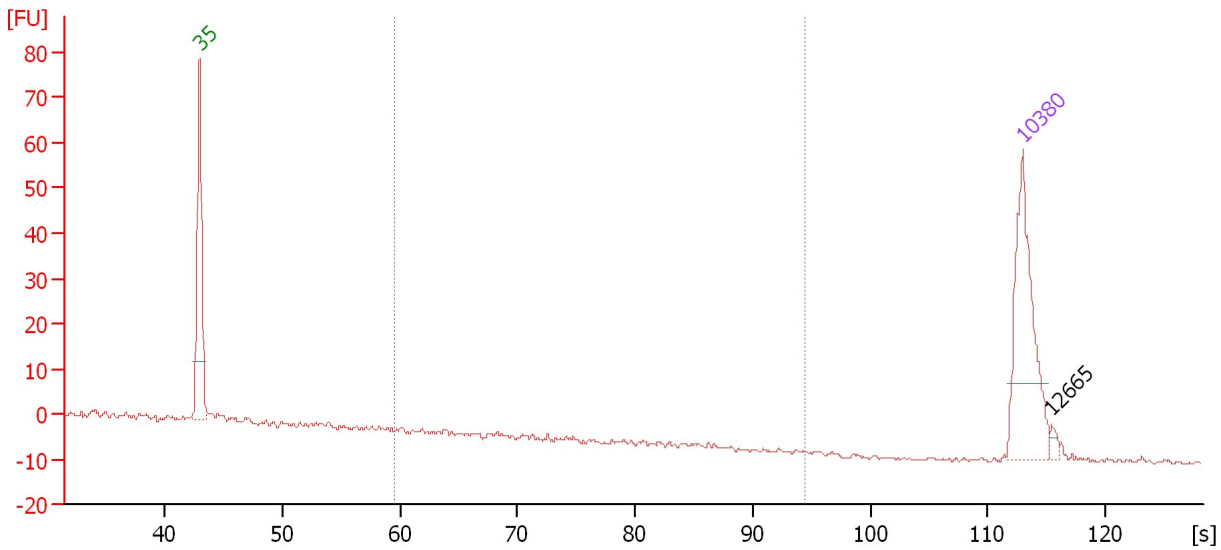
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	505	0.25	0.3	0.8	2	20.5

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**Electropherogram Summary Continued ...**

2



**Overall Results for sample 6 : 2**

Number of peaks found: 1                      Corr. Area 1: 0.3  
 Noise: 0.4

**Peak table for sample 6 : 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00
3	12,665	0.00	0.0		115.42

**Region table for sample 6 : 2**

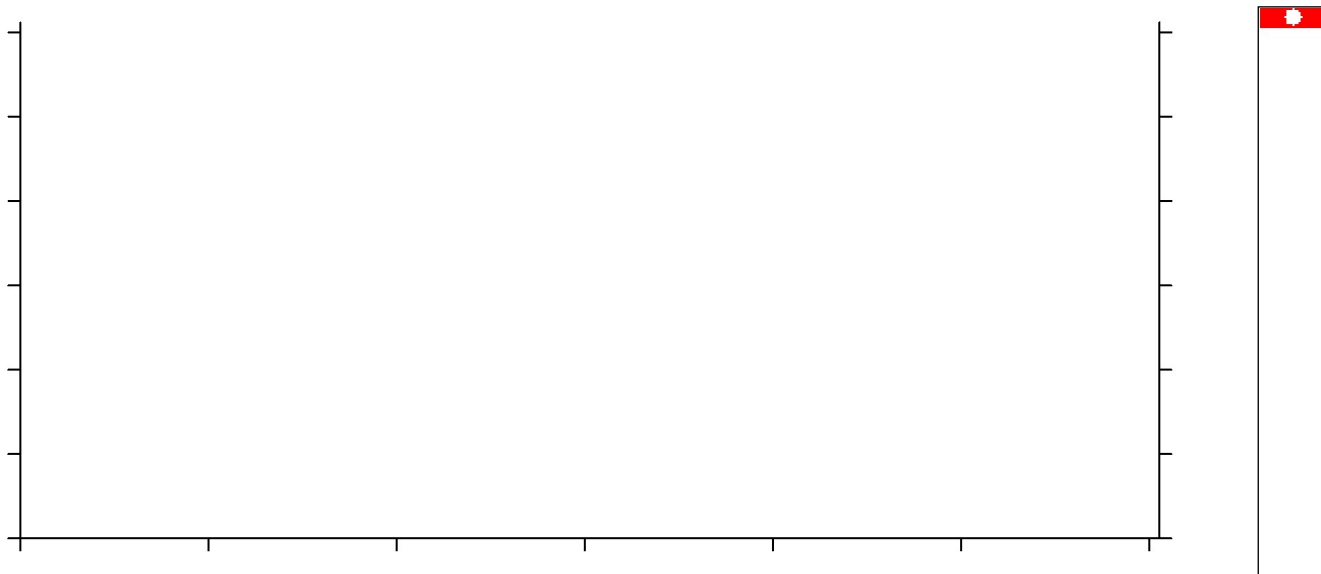
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	245	0.39	0.3	2.5	1	22.8

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**Electropherogram Summary Continued ...**

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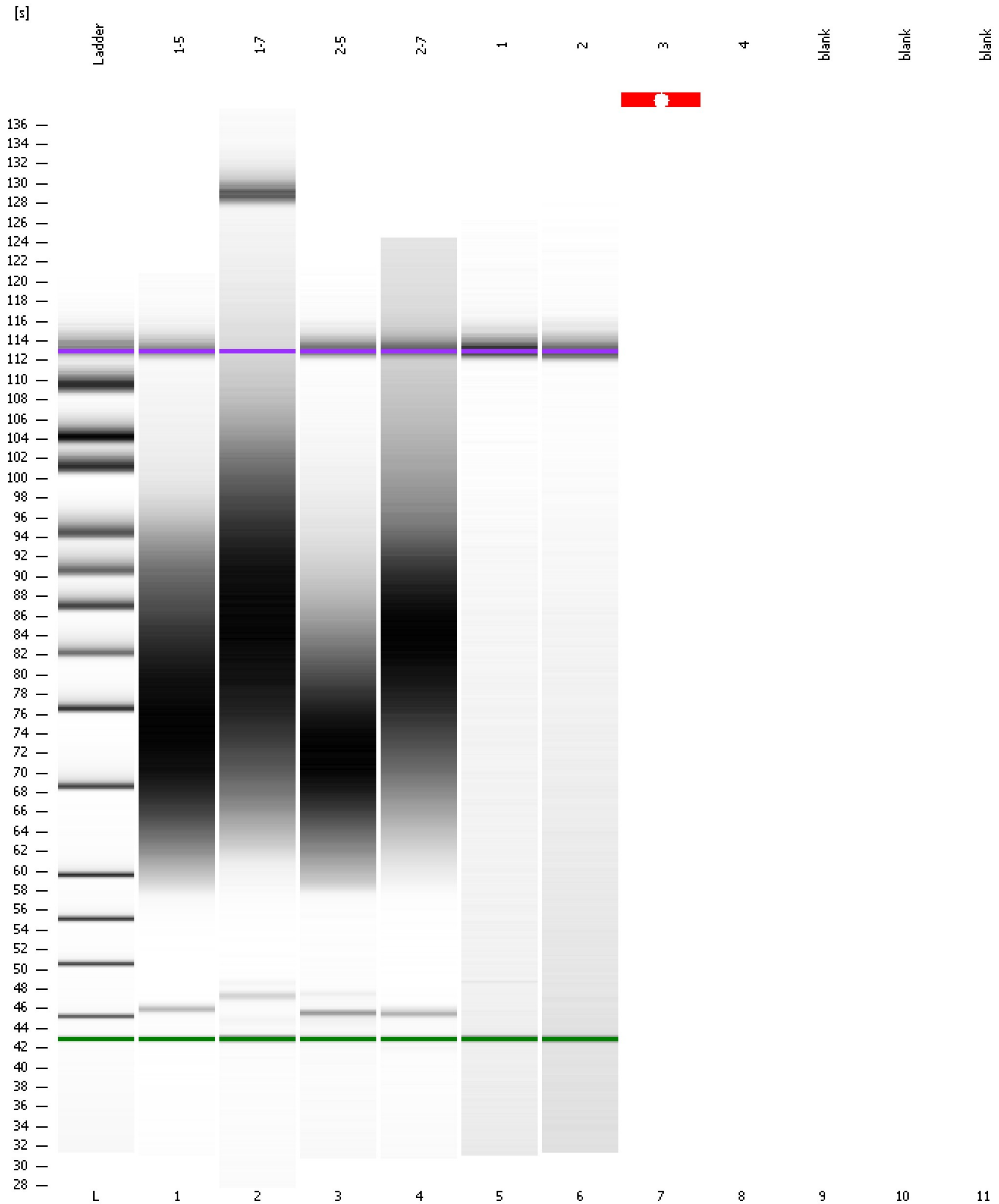
**Setpoint Deviations for sample 7 : 3**

End Analysis Time Range [s] : 13.5

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16\_003.xad

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**Gel Image**





Assay Class: High Sensitivity DNA Assay  
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**Invalid Samples**

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.