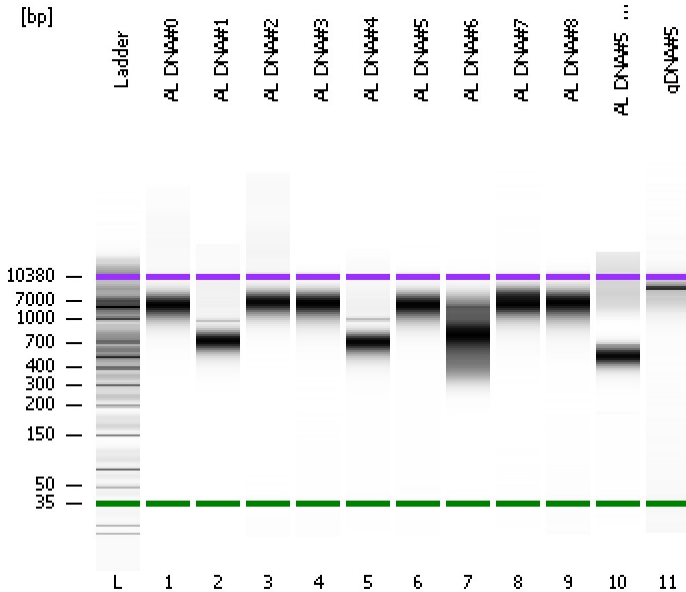


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
Modified: 7/8/2019 4:28:14 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

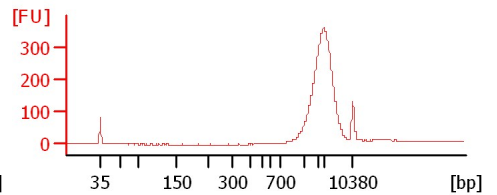
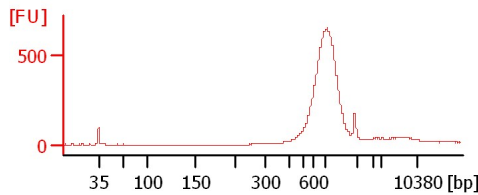
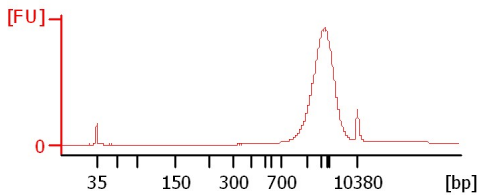
Chip Information:

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

AL DNA#0

AL DNA#1

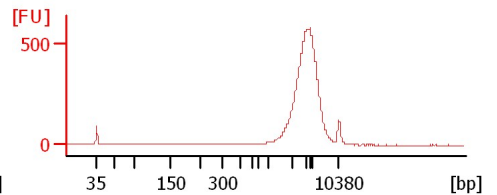
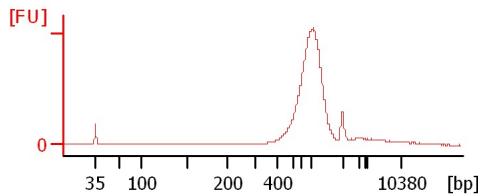
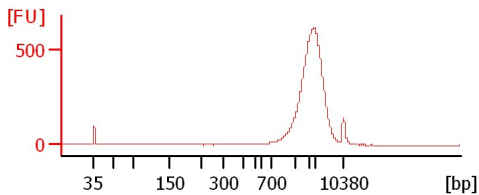
AL DNA#2



AL DNA#3

AL DNA#4

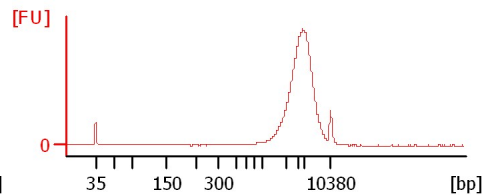
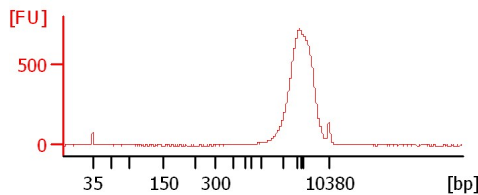
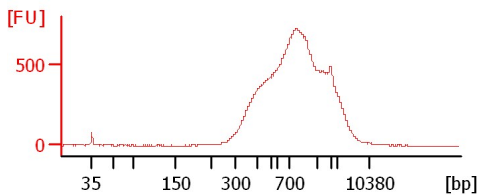
AL DNA#5



AL DNA#6

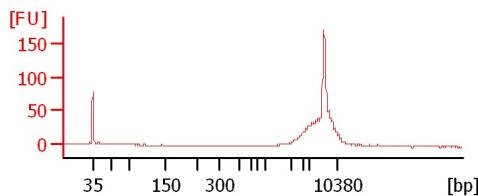
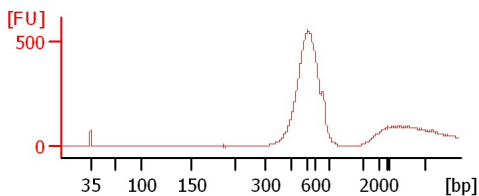
AL DNA#7

AL DNA#8



AL DNA#5_5kb

qDNA#5



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
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AL DNA#1		<input type="checkbox"/>	✓			
AL DNA#2		<input type="checkbox"/>	✓			
AL DNA#3		<input type="checkbox"/>	✓			
AL DNA#4		<input type="checkbox"/>	✓			
AL DNA#5		<input type="checkbox"/>	✓			
AL DNA#6		<input type="checkbox"/>	✓			
AL DNA#7		<input type="checkbox"/>	✓			
AL DNA#8		<input type="checkbox"/>	✓			
AL DNA#5_5kb		<input type="checkbox"/>	✓			
gDNA#5		<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\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
Modified: 7/8/2019 4:28:14 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

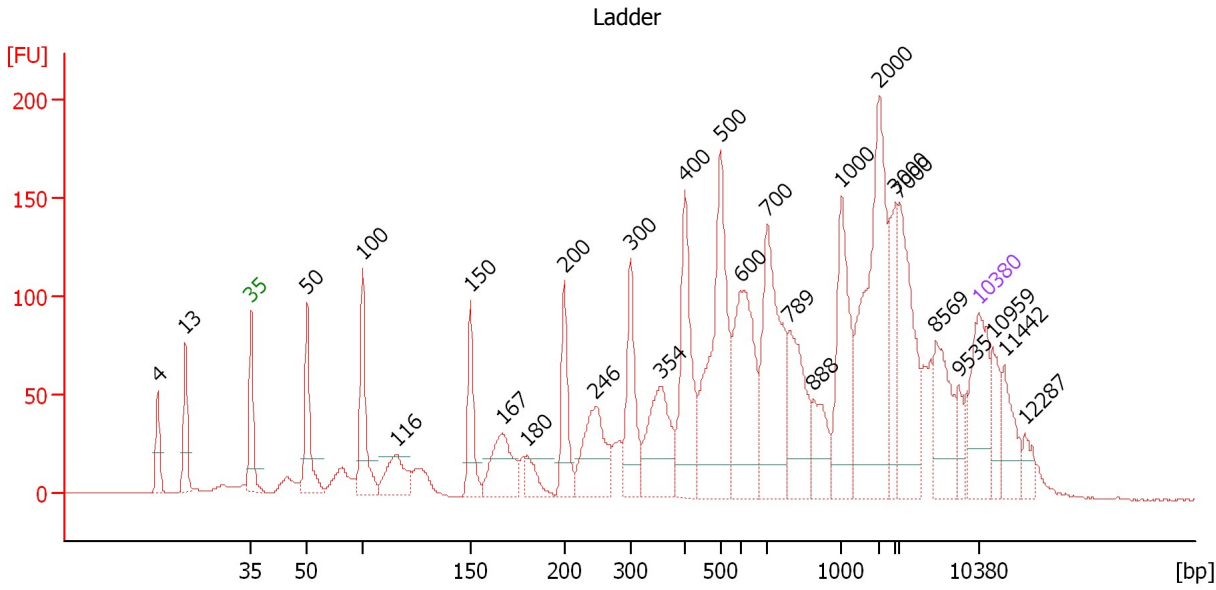
Ladder

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\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 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	4	0.00	0.0		34.01
2	13	0.00	0.0		36.67
3	35	125.00	5,411.3	Lower Marker	43.00
4	50	150.00	4,545.5	Ladder Peak	48.38
5	100	150.00	2,272.7	Ladder Peak	53.71
6	116	0.00	0.0		57.04
7	150	150.00	1,515.2	Ladder Peak	64.09
8	167	0.00	0.0		67.20
9	180	0.00	0.0		69.53
10	200	150.00	1,136.4	Ladder Peak	73.14
11	246	0.00	0.0		76.08
12	300	150.00	757.6	Ladder Peak	79.53
13	354	0.00	0.0		82.36
14	400	150.00	568.2	Ladder Peak	84.74
15	500	150.00	454.5	Ladder Peak	88.19
16	600	150.00	378.8	Ladder Peak	90.02
17	700	150.00	324.7	Ladder Peak	92.68
18	789	0.00	0.0		94.79
19	888	0.00	0.0		97.12
20	1,000	150.00	227.3	Ladder Peak	99.79
21	2,000	150.00	113.6	Ladder Peak	103.45
22	3,000	150.00	75.8	Ladder Peak	105.01
23	7,000	150.00	32.5	Ladder Peak	105.23
24	8,569	0.00	0.0		108.84
25	9,535	0.00	0.0		111.06
26	10,380	75.00	10.9	Upper Marker	113.00
27	10,959	0.00	0.0		114.33

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
Modified: 7/8/2019 4:28:14 PM

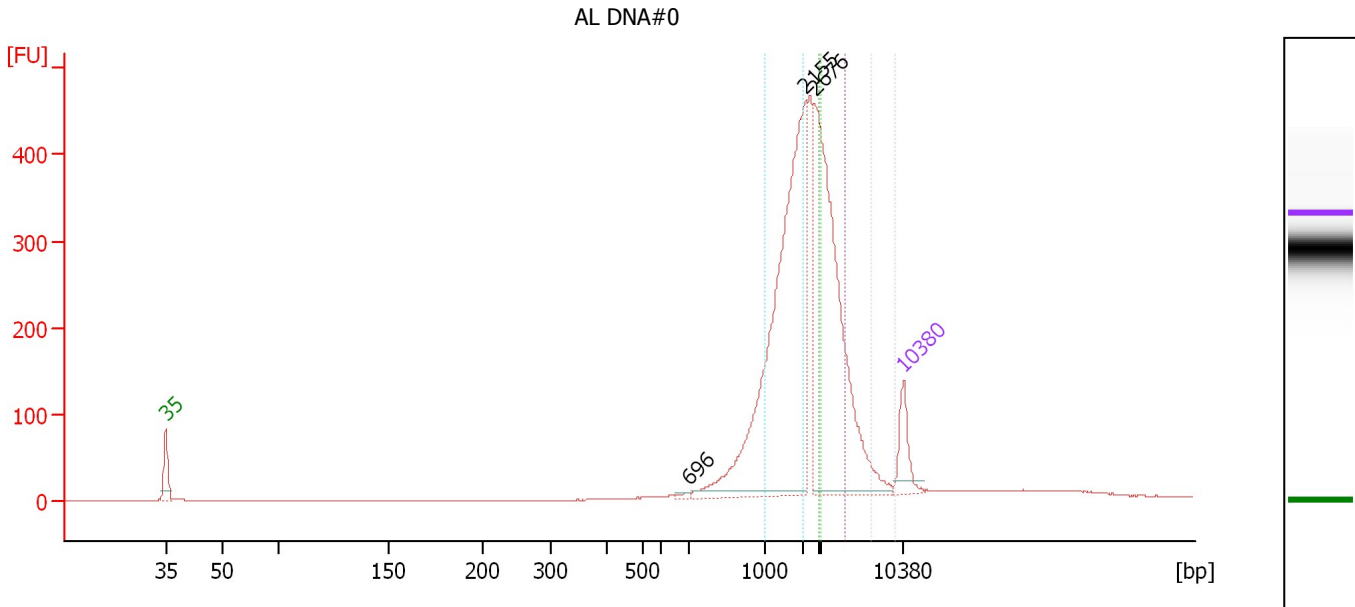
Electropherogram Summary Continued ...**... Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	11,442	0.00	0.0		115.44
29	12,287	0.00	0.0		117.39

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : AL DNA#0

Number of peaks found:	3	Corr. Area 5:	20.9
Noise:	0.4	Corr. Area 6:	20.5
Corr. Area 1:	692.1	Corr. Area 7:	664.9
Corr. Area 2:	21.5	Corr. Area 8:	194.4
Corr. Area 3:	1,079.9	Corr. Area 9:	47.1
Corr. Area 4:	21.2		

Peak table for sample 1 : AL DNA#0

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	696	7.15	15.6		92.57
3	2,155	1,021.33	717.9		103.69
4	2,676	821.94	465.4		104.50
5	10,380	75.00	10.9	Upper Marker	113.00

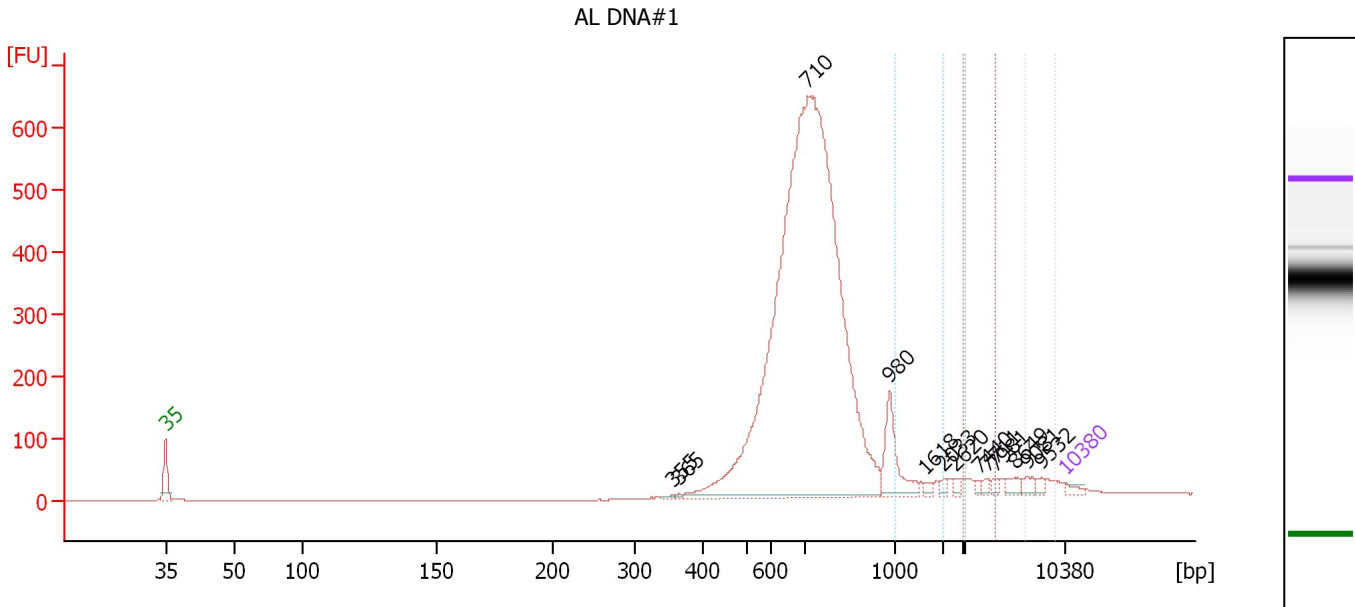
Region table for sample 1 : AL DNA#0

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
1,000	2,000	1,575	758.72	1,079.9	729.8	33	17.6
2,000	3,000	2,464	463.46	692.1	284.9	21	12.1
3,000	4,000	3,005	14.40	21.5	7.3	1	1.2
4,000	5,000	3,494	14.30	21.2	6.2	1	13.0
5,000	6,000	4,404	14.14	20.9	4.9	1	10.3
6,000	7,000	5,316	13.97	20.5	4.0	1	8.6
7,000	8,000	7,356	455.95	664.9	93.9	21	5.5
8,000	9,000	8,358	130.67	194.4	23.7	6	3.3
9,000	10,000	9,374	31.02	47.1	5.0	1	3.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AL DNA#1

Number of peaks found:	13	Corr. Area 5:	1.1
Noise:	0.3	Corr. Area 6:	2.2
Corr. Area 1:	40.9	Corr. Area 7:	56.0
Corr. Area 2:	2.1	Corr. Area 8:	57.9
Corr. Area 3:	99.6	Corr. Area 9:	56.7
Corr. Area 4:	1.1		

Peak table for sample 2 : AL DNA#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	355	44.43	189.6		82.40
3	365	36.05	149.5		82.93
4	710	22,850.84	48,737.2		92.93
5	980	937.60	1,449.6		99.32
6	1,618	76.59	71.7		102.05
7	2,033	60.94	45.4		103.50
8	2,620	82.80	47.9		104.42
9	7,440	57.85	11.8		106.24
10	7,711	67.32	13.2		106.86
11	7,981	59.18	11.2		107.48
12	8,649	128.80	22.6		109.02
13	9,081	123.63	20.6		110.01
14	9,532	77.60	12.3		111.05
15	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 2 : AL DNA#1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
1,000	2,000	1,414	435.35	99.6	466.3	2	22.3
2,000	3,000	2,474	167.24	40.9	102.4	1	11.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

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Modified: 7/8/2019 4:28:14 PM

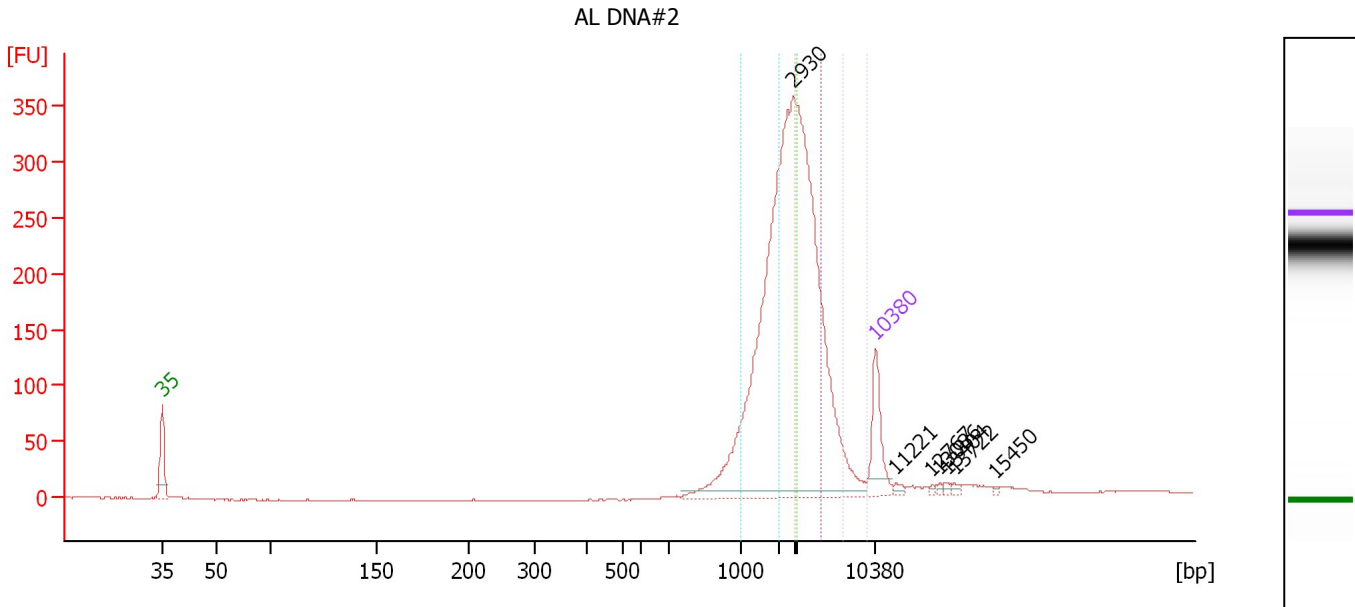
Electropherogram Summary Continued ...**... Region table for sample 2 : AL DNA#1**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
3,000	4,000	3,177	8.72	2.1	4.2	0	8.7
4,000	5,000	3,944	4.41	1.1	1.7	0	9.5
5,000	6,000	4,693	4.49	1.1	1.5	0	8.0
6,000	7,000	5,810	9.21	2.2	2.4	0	10.5
7,000	8,000	7,476	233.46	56.0	47.3	1	4.2
8,000	9,000	8,485	236.79	57.9	42.3	1	3.4
9,000	10,000	9,460	227.52	56.7	36.4	1	3.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : AL DNA#2

Number of peaks found:	7	Corr. Area 5:	17.4
Noise:	0.5	Corr. Area 6:	17.3
Corr. Area 1:	493.1	Corr. Area 7:	623.0
Corr. Area 2:	17.6	Corr. Area 8:	218.3
Corr. Area 3:	568.0	Corr. Area 9:	41.1
Corr. Area 4:	17.5		

Peak table for sample 3 : AL DNA#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	2,930	1,407.35	727.9		104.90
3	10,380	75.00	10.9	Upper Marker	113.00
4	11,221	0.00	0.0		114.93
5	12,767	0.00	0.0		118.49
6	13,086	0.00	0.0		119.22
7	13,404	0.00	0.0		119.95
8	13,722	0.00	0.0		120.68
9	15,450	0.00	0.0		124.66

Region table for sample 3 : AL DNA#2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
1,000	2,000	1,605	388.03	568.0	366.4	26	17.0
2,000	3,000	2,479	322.16	493.1	196.9	22	12.0
3,000	4,000	2,980	11.54	17.6	5.9	1	0.6
4,000	5,000	3,424	11.48	17.5	5.1	1	12.5
5,000	6,000	4,324	11.48	17.4	4.0	1	10.9
6,000	7,000	5,266	11.52	17.3	3.3	1	8.9
7,000	8,000	7,379	416.62	623.0	85.5	28	5.4
8,000	9,000	8,344	143.17	218.3	26.0	10	3.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
Modified: 7/8/2019 4:28:14 PM

Electropherogram Summary Continued ...

... Region table for sample 3 :

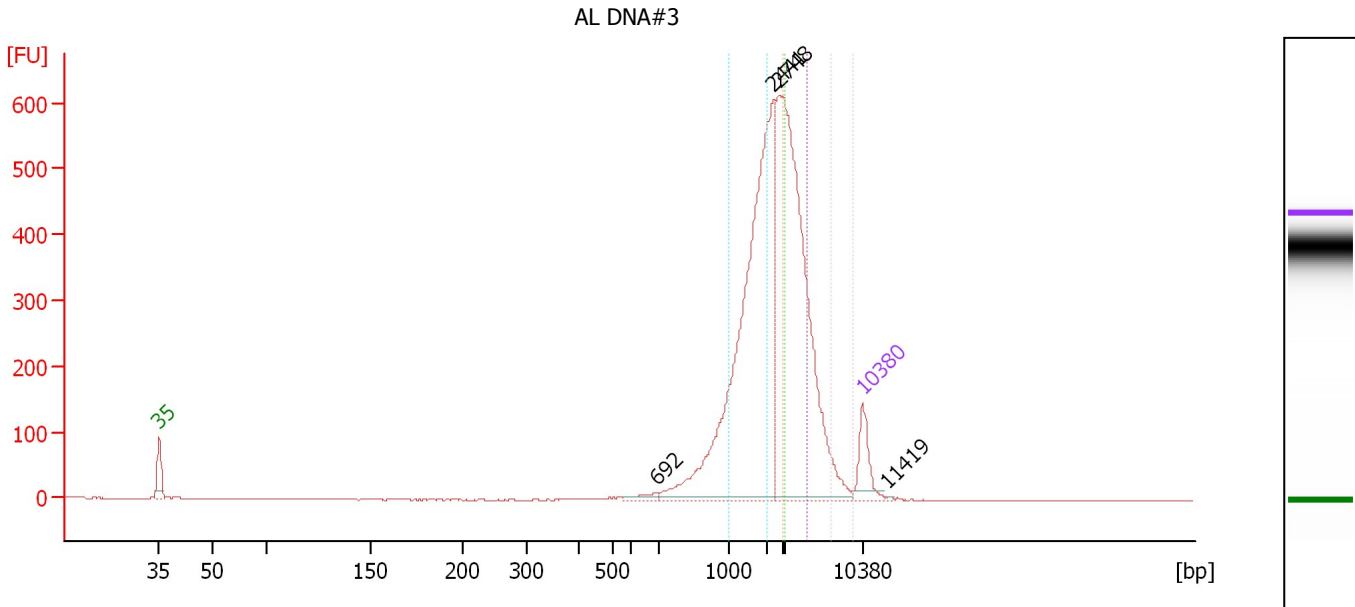
AL DNA#2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
9,000	10,000	9,343	26.40	41.1	4.3	 2	3.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : AL DNA#3

Number of peaks found:	4	Corr. Area 5:	61.5
Noise:	0.3	Corr. Area 6:	30.7
Corr. Area 1:	880.1	Corr. Area 7:	1,035.2
Corr. Area 2:	30.9	Corr. Area 8:	364.0
Corr. Area 3:	1,262.6	Corr. Area 9:	67.4
Corr. Area 4:	30.9		

Peak table for sample 4 : AL DNA#3

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	692	18.37	40.2		92.46
3	2,441	1,127.67	700.0		104.14
4	2,748	1,078.41	594.6		104.61
5	10,380	75.00	10.9	Upper Marker	113.00
6	11,419	0.00	0.0		115.39

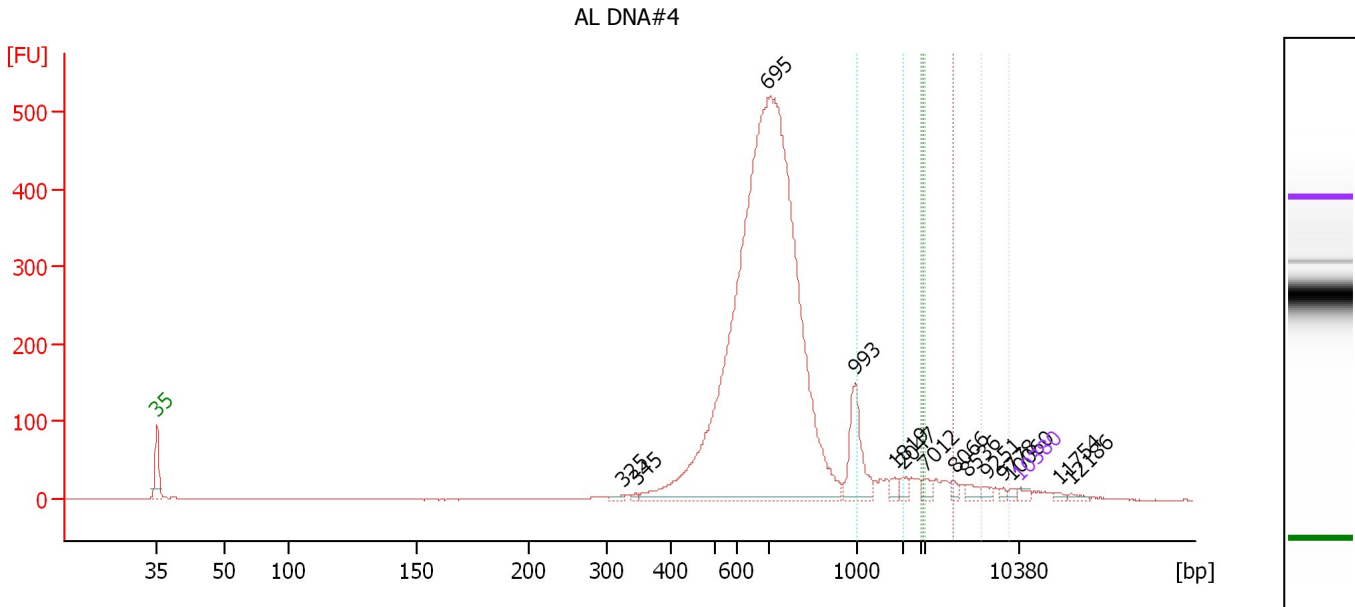
Region table for sample 4 : AL DNA#3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
1,000	2,000	1,583	702.19	1,262.6	672.1	30	17.5
2,000	3,000	2,466	466.93	880.1	286.8	21	11.9
3,000	4,000	2,970	16.40	30.9	8.4	1	0.6
4,000	5,000	3,291	16.44	30.9	7.6	1	9.2
5,000	6,000	4,551	33.06	61.5	11.0	1	17.2
6,000	7,000	5,985	16.66	30.7	4.2	1	8.0
7,000	8,000	7,415	561.75	1,035.2	114.8	25	4.3
8,000	9,000	8,352	193.81	364.0	35.2	9	3.3
9,000	10,000	9,326	35.23	67.4	5.7	2	3.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AL DNA#4

Number of peaks found:	14	Corr. Area 5:	1.2
Noise:	0.3	Corr. Area 6:	1.2
Corr. Area 1:	46.1	Corr. Area 7:	60.9
Corr. Area 2:	2.3	Corr. Area 8:	47.1
Corr. Area 3:	146.1	Corr. Area 9:	35.7
Corr. Area 4:	1.2		

Peak table for sample 5 : AL DNA#4

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	325	69.24	323.2		80.81
3	345	53.46	234.5		81.89
4	695	25,815.79	56,320.1		92.54
5	993	1,175.41	1,792.8		99.63
6	1,819	131.32	109.4		102.79
7	2,047	139.17	103.0		103.53
8	7,012	144.94	31.3		105.26
9	8,066	96.47	18.1		107.68
10	8,536	138.10	24.5		108.76
11	9,251	87.08	14.3		110.40
12	9,778	50.95	7.9		111.62
13	10,060	62.82	9.5		112.26
14	10,380	75.00	10.9	Upper Marker	113.00
15	11,754	0.00	0.0		116.16
16	12,186	0.00	0.0		117.15

Region table for sample 5 : AL DNA#4









From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
1,000	2,000	1,369	876.86	146.1	970.3	3	23.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

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 Modified: 7/8/2019 4:28:14 PM

Electropherogram Summary Continued ...

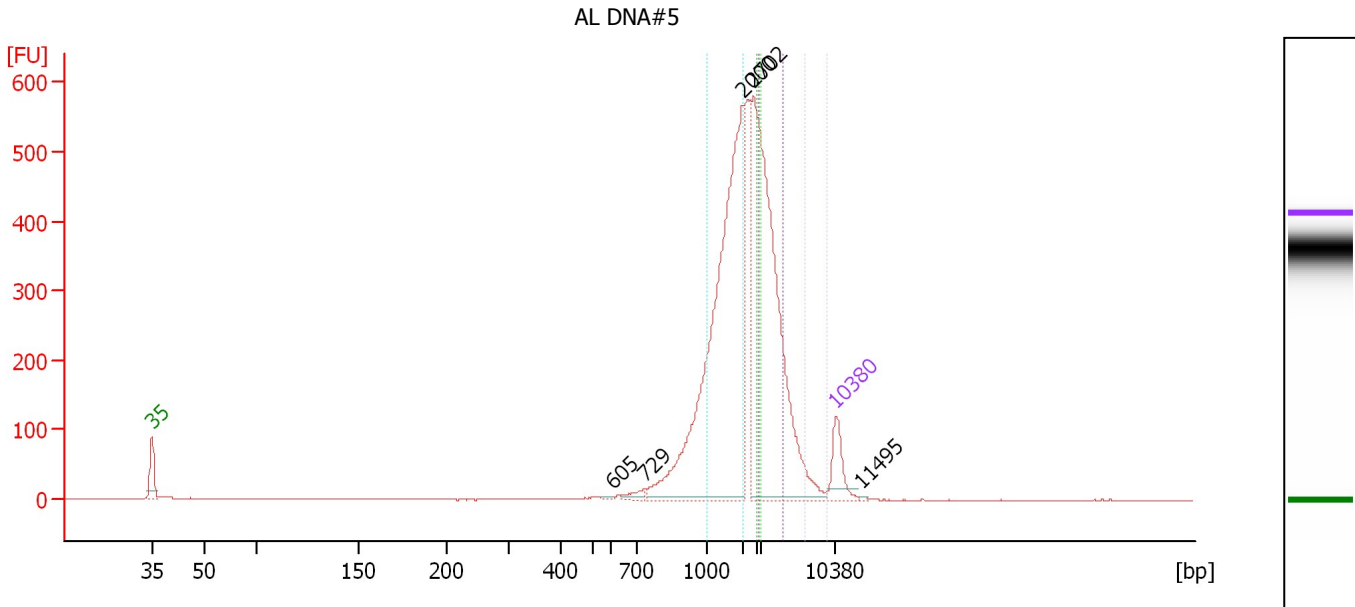
... Region table for sample 5 : AL DNA#4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
2,000	3,000	2,456	257.47	46.1	158.8	 1	12.0
3,000	4,000	3,186	13.00	2.3	6.2	 0	9.2
4,000	5,000	3,990	6.57	1.2	2.5	 0	9.8
5,000	6,000	4,772	6.72	1.2	2.1	 0	8.2
6,000	7,000	5,550	6.89	1.2	1.9	 0	7.0
7,000	8,000	7,442	347.34	60.9	70.7	 1	5.0
8,000	9,000	8,462	263.40	47.1	47.2	 1	3.5
9,000	10,000	9,466	195.43	35.7	31.3	 1	3.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : AL DNA#5

Number of peaks found:	5	Corr. Area 5:	28.1
Noise:	0.5	Corr. Area 6:	27.8
Corr. Area 1:	833.1	Corr. Area 7:	841.8
Corr. Area 2:	56.9	Corr. Area 8:	251.9
Corr. Area 3:	1,372.9	Corr. Area 9:	47.8
Corr. Area 4:	28.2		

Peak table for sample 6 : AL DNA#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	605	5.31	13.3		90.14
3	729	21.45	44.6		93.36
4	2,000	1,145.32	867.7		103.45
5	2,702	1,008.53	565.5		104.54
6	10,380	75.00	10.9	Upper Marker	113.00
7	11,495	0.00	0.0		115.56

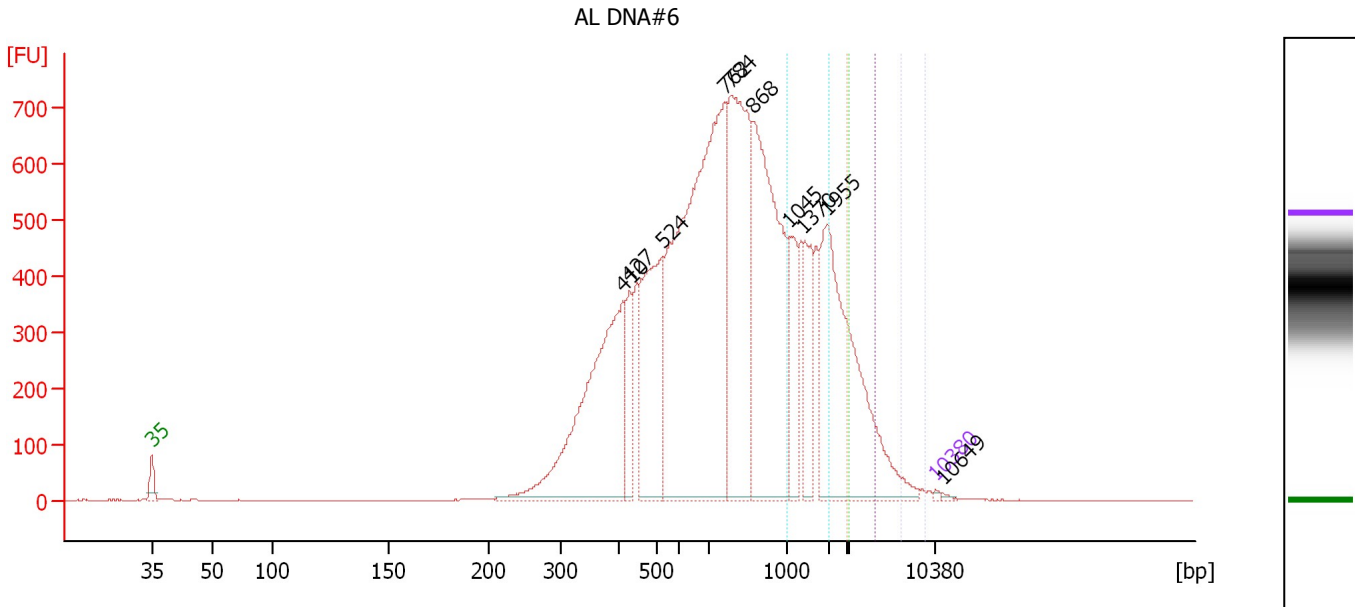
Region table for sample 6 : AL DNA#5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
1,000	2,000	1,571	872.87	1,372.9	841.7	34	17.8
2,000	3,000	2,457	504.57	833.1	311.2	21	11.9
3,000	4,000	3,144	34.55	56.9	16.7	1	8.1
4,000	5,000	3,994	17.26	28.2	6.5	1	12.3
5,000	6,000	4,976	17.28	28.1	5.3	1	9.9
6,000	7,000	5,958	17.24	27.8	4.4	1	8.2
7,000	8,000	7,400	521.63	841.8	106.8	21	4.4
8,000	9,000	8,351	153.15	251.9	27.8	6	3.3
9,000	10,000	9,347	28.47	47.8	4.6	1	3.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : AL DNA#6

Number of peaks found:	10	Corr. Area 5:	30.3
Noise:	0.5	Corr. Area 6:	14.8
Corr. Area 1:	622.8	Corr. Area 7:	509.3
Corr. Area 2:	15.4	Corr. Area 8:	188.5
Corr. Area 3:	1,727.3	Corr. Area 9:	60.4
Corr. Area 4:	15.3		

Peak table for sample 7 : AL DNA#6

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	410	18,753.85	69,273.1		85.10
3	427	3,100.90	11,008.5		85.67
4	524	10,797.64	31,244.1		88.62
5	762	34,654.06	68,937.8		94.14
6	784	15,798.51	30,541.3		94.67
7	868	18,364.67	32,049.2		96.67
8	1,045	3,582.55	5,195.4		99.95
9	1,370	3,861.65	4,271.6		101.14
10	1,955	14,291.91	11,078.6		103.29
11	10,380	75.00	10.9	Upper Marker	113.00
12	10,649	0.00	0.0		113.62

Region table for sample 7 : AL DNA#6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
1,000	2,000	1,488	13,951.76	1,727.3	14,210.7	12	19.6
2,000	3,000	2,421	4,743.62	622.8	2,968.3	4	12.4
3,000	4,000	2,981	117.86	15.4	59.9	0	0.5
4,000	5,000	3,369	117.29	15.3	52.8	0	11.1
5,000	6,000	4,596	234.15	30.3	77.2	0	15.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
Modified: 7/8/2019 4:28:14 PM

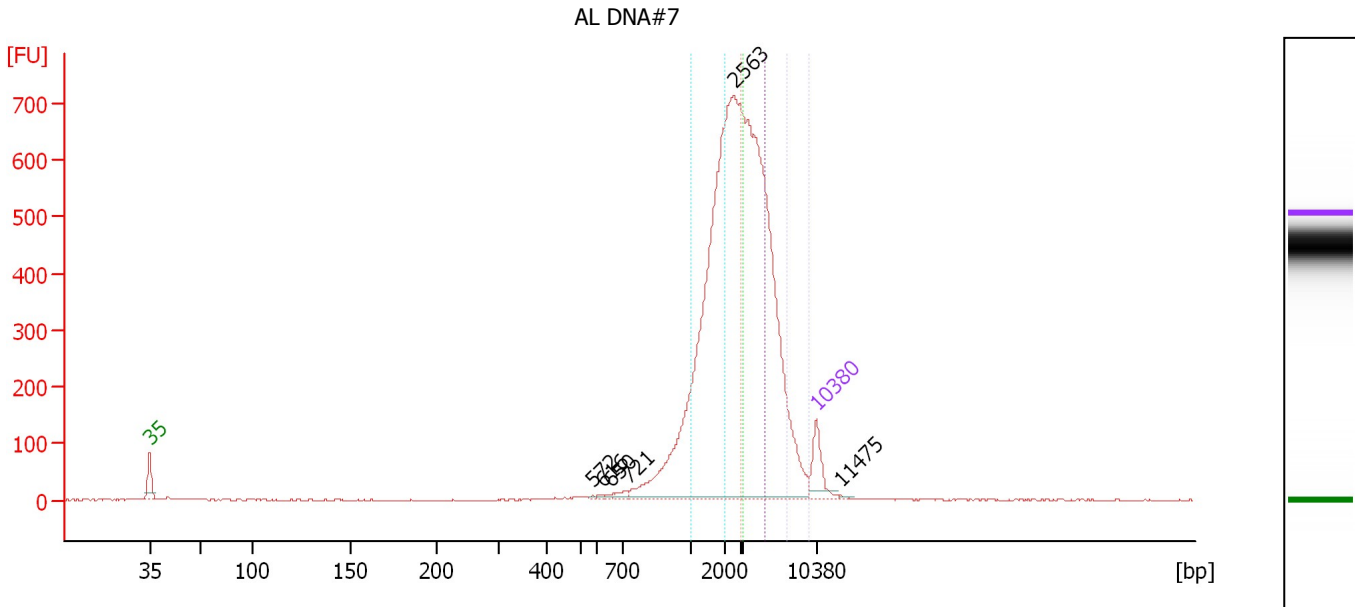
Electropherogram Summary Continued ...**... Region table for sample 7 : AL DNA#6**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
6,000	7,000	5,884	115.69	14.8	29.8	0	7.3
7,000	8,000	7,397	3,969.29	509.3	813.0	4	4.5
8,000	9,000	8,375	1,440.62	188.5	260.6	1	3.4
9,000	10,000	9,393	452.50	60.4	73.0	0	3.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : AL DNA#7

Number of peaks found:	6	Corr. Area 5:	36.2
Noise:	0.8	Corr. Area 6:	35.9
Corr. Area 1:	1,036.9	Corr. Area 7:	1,361.4
Corr. Area 2:	36.8	Corr. Area 8:	790.9
Corr. Area 3:	1,483.7	Corr. Area 9:	196.9
Corr. Area 4:	36.6		

Peak table for sample 8 : AL DNA#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	572	3.66	9.7		89.50
3	616	4.42	10.9		90.45
4	650	5.98	13.9		91.35
5	721	15.63	32.8		93.19
6	2,563	2,954.17	1,746.5		104.33
7	10,380	75.00	10.9	Upper Marker	113.00
8	11,475	0.00	0.0		115.52

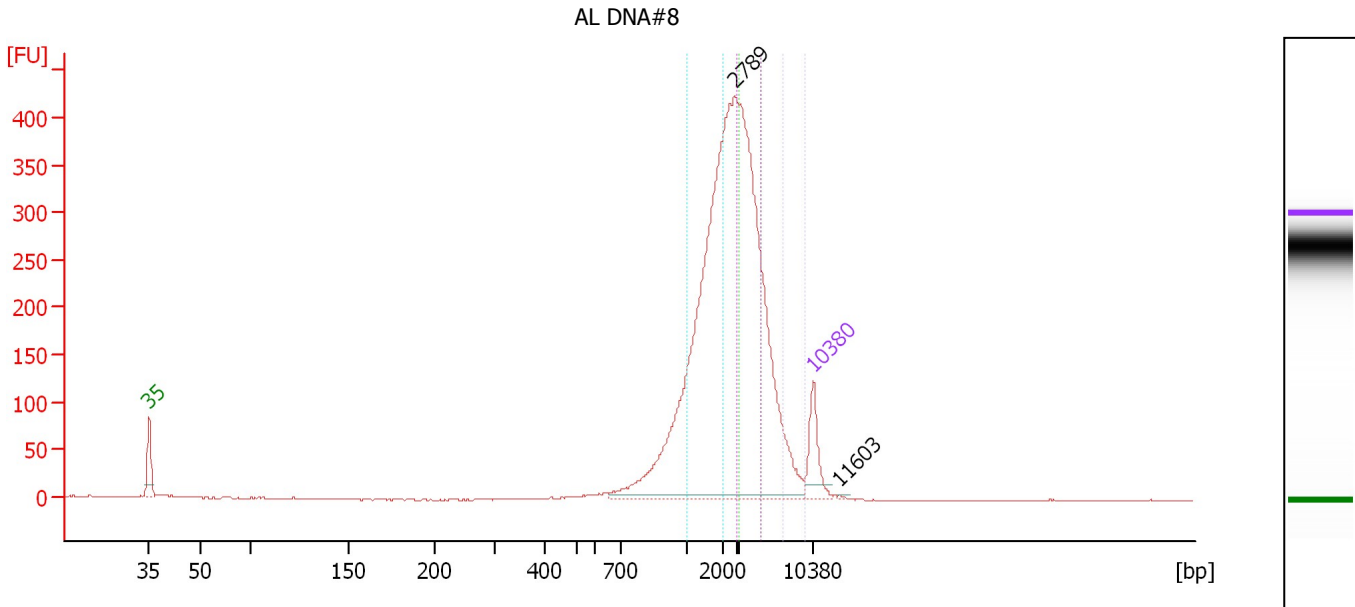
Region table for sample 8 : AL DNA#7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
1,000	2,000	1,585	844.56	1,483.7	807.4	26	17.3
2,000	3,000	2,459	563.16	1,036.9	346.9	18	12.1
3,000	4,000	2,977	20.02	36.8	10.2	1	0.6
4,000	5,000	3,428	19.97	36.6	8.8	1	12.7
5,000	6,000	4,366	19.88	36.2	6.9	1	11.5
6,000	7,000	5,375	19.86	35.9	5.6	1	9.4
7,000	8,000	7,428	756.12	1,361.4	154.2	24	5.1
8,000	9,000	8,380	430.92	790.9	77.9	14	3.4
9,000	10,000	9,337	105.25	196.9	17.1	3	3.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : AL DNA#8

Number of peaks found:	2	Corr. Area 5:	21.9
Noise:	0.5	Corr. Area 6:	21.7
Corr. Area 1:	606.5	Corr. Area 7:	753.5
Corr. Area 2:	22.2	Corr. Area 8:	320.3
Corr. Area 3:	889.4	Corr. Area 9:	80.7
Corr. Area 4:	22.1		

Peak table for sample 9 : AL DNA#8

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	2,789	1,974.06	1,072.3		104.68
3	10,380	75.00	10.9	Upper Marker	113.00
4	11,603	0.00	0.0		115.81

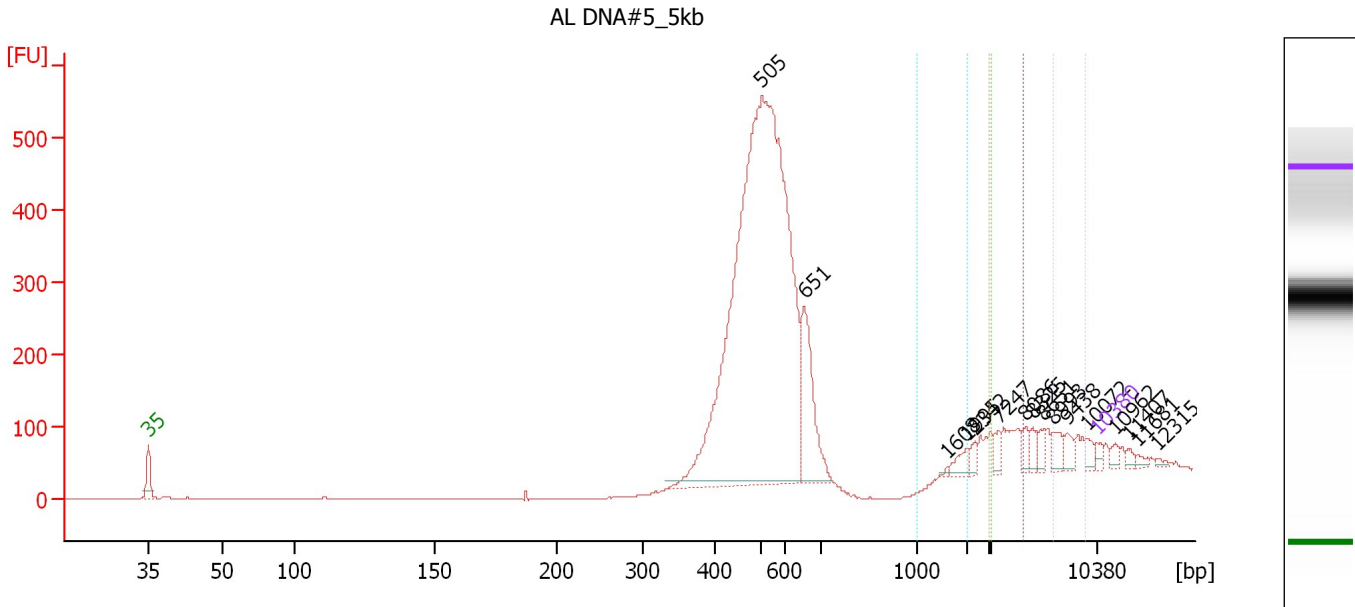
Region table for sample 9 : AL DNA#8

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
1,000	2,000	1,568	600.00	889.4	579.9	29	17.9
2,000	3,000	2,475	389.65	606.5	238.6	20	12.1
3,000	4,000	3,072	14.30	22.2	7.1	1	3.3
4,000	5,000	3,680	14.28	22.1	5.9	1	13.8
5,000	6,000	4,691	14.26	21.9	4.6	1	10.8
6,000	7,000	5,706	14.24	21.7	3.8	1	8.9
7,000	8,000	7,419	495.09	753.5	101.1	24	4.7
8,000	9,000	8,380	206.42	320.3	37.3	10	3.4
9,000	10,000	9,355	51.02	80.7	8.3	3	2.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : AL DNA#5 5kb

Number of peaks found:	16	Corr. Area 5:	2.2
Noise:	0.5	Corr. Area 6:	4.8
Corr. Area 1:	71.1	Corr. Area 7:	133.9
Corr. Area 2:	2.0	Corr. Area 8:	131.2
Corr. Area 3:	32.8	Corr. Area 9:	110.0
Corr. Area 4:	4.1		

Peak table for sample 10 : AL DNA#5 5kb










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	505	14,244.12	42,747.5		88.28
3	651	1,342.16	3,122.2		91.39
4	1,608	21.12	19.9		102.02
5	1,995	151.60	115.1		103.43
6	2,342	78.07	50.5		103.98
7	7,247	113.72	23.8		105.80
8	8,086	132.25	24.8		107.72
9	8,325	102.85	18.7		108.28
10	8,651	114.61	20.1		109.02
11	8,993	158.79	26.8		109.81
12	9,438	125.14	20.1		110.83
13	10,072	87.84	13.2		112.29
14	10,380	75.00	10.9	Upper Marker	113.00
15	10,962	0.00	0.0		114.34
16	11,407	0.00	0.0		115.36
17	11,681	0.00	0.0		115.99
18	12,315	0.00	0.0		117.45

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
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Electropherogram Summary Continued ...

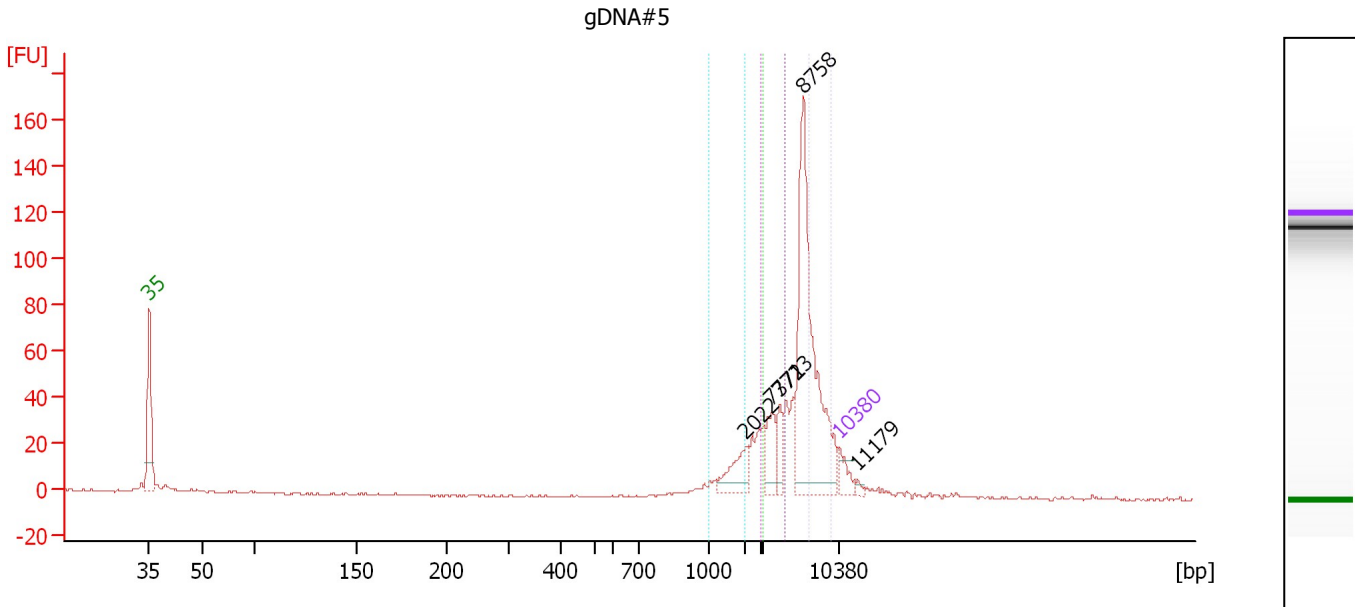
... Region table for sample 10 : AL DNA#5 5kb

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
1,000	2,000	1,822	109.16	32.8	90.8	 1	6.4
2,000	3,000	2,508	231.87	71.1	140.1	 2	11.7
3,000	4,000	3,002	6.55	2.0	3.3	 0	0.9
4,000	5,000	3,753	13.58	4.1	5.5	 0	15.5
5,000	6,000	4,813	7.38	2.2	2.3	 0	7.4
6,000	7,000	5,874	15.90	4.8	4.1	 0	9.8
7,000	8,000	7,486	446.07	133.9	90.3	 3	4.1
8,000	9,000	8,470	428.50	131.2	76.6	 3	3.4
9,000	10,000	9,461	352.48	110.0	56.5	 3	3.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : gDNA#5

Number of peaks found:	5	Corr. Area 5:	1.5
Noise:	0.4	Corr. Area 6:	1.5
Corr. Area 1:	36.9	Corr. Area 7:	75.8
Corr. Area 2:	1.5	Corr. Area 8:	181.9
Corr. Area 3:	41.0	Corr. Area 9:	110.7
Corr. Area 4:	1.5		

Peak table for sample 11 : gDNA#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	2,022	159.61	119.6		103.49
3	7,371	147.97	30.4		106.08
4	7,723	94.17	18.5		106.89
5	8,758	1,072.98	185.6		109.27
6	10,380	75.00	10.9	Upper Marker	113.00
7	11,179	0.00	0.0		114.84

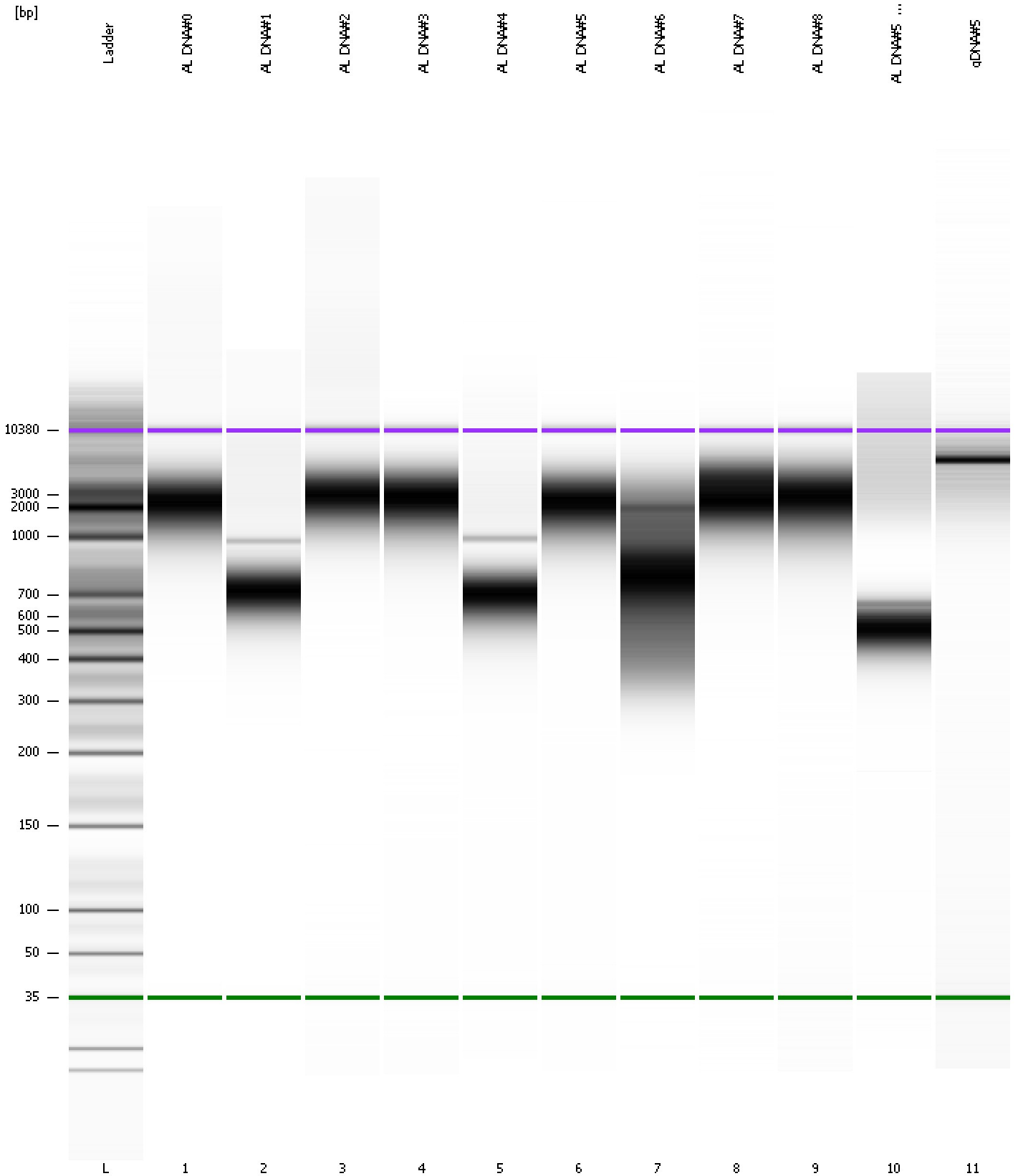
Region table for sample 11 : gDNA#5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
1,000	2,000	1,597	170.19	41.0	161.4	8	17.3
2,000	3,000	2,491	146.41	36.9	89.1	7	12.0
3,000	4,000	2,979	5.95	1.5	3.0	0	0.6
4,000	5,000	3,426	5.97	1.5	2.6	0	12.6
5,000	6,000	4,349	6.01	1.5	2.1	0	11.2
6,000	7,000	5,323	6.13	1.5	1.7	0	9.1
7,000	8,000	7,470	306.78	75.8	62.2	14	5.0
8,000	9,000	8,626	719.56	181.9	126.4	35	3.0
9,000	10,000	9,374	431.65	110.7	69.8	21	3.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
Modified: 7/8/2019 4:28:14 PM

Gel Image

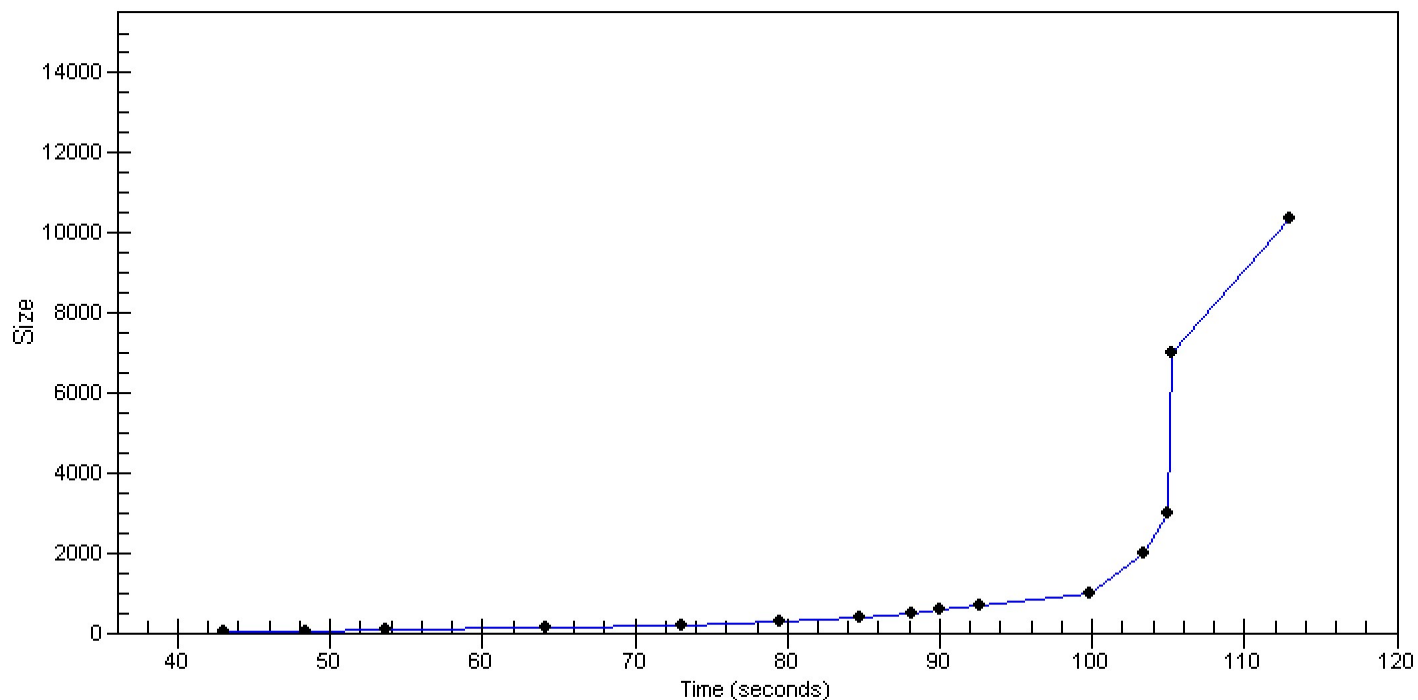


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
Modified: 7/8/2019 4:28:14 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-08\2019-07-08_001.xad

Created: 7/8/2019 12:38:13 PM
 Modified: 7/8/2019 4:28:14 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		7/8/2019 1:19:31 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\2019-07-08\2019-07-08_001.xad)		Instrument	Run		7/8/2019 12:38:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/8/2019 12:38:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/8/2019 12:38:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/8/2019 12:38:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/8/2019 12:38:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/8/2019 12:38:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/8/2019 12:38:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1