

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-20\2019-09-20_003.xad

Created: 9/20/2019 4:42:18 PM
Modified: 9/20/2019 5:23:36 PM

Electrophoresis File Run Summary

Instrument Information:

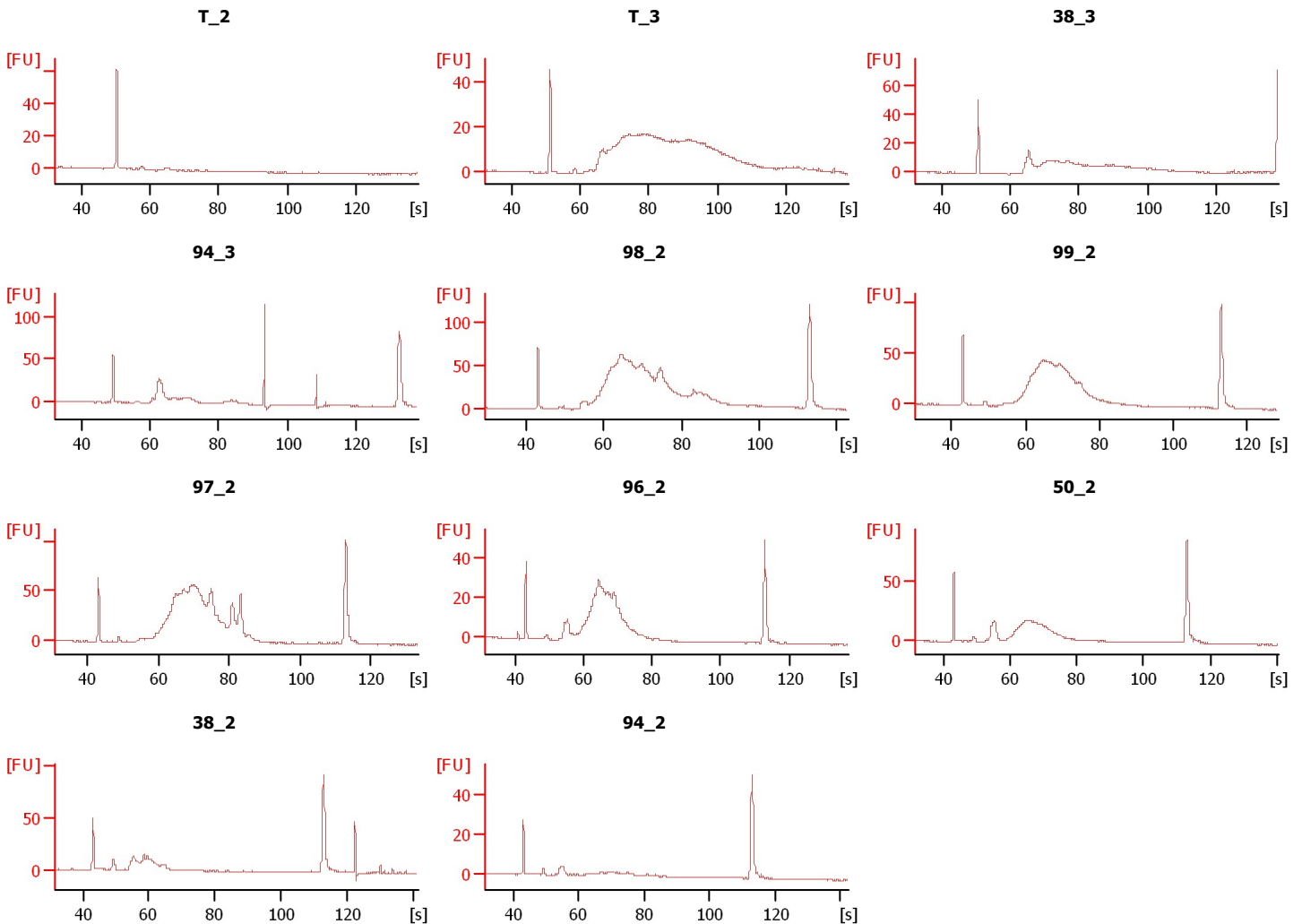
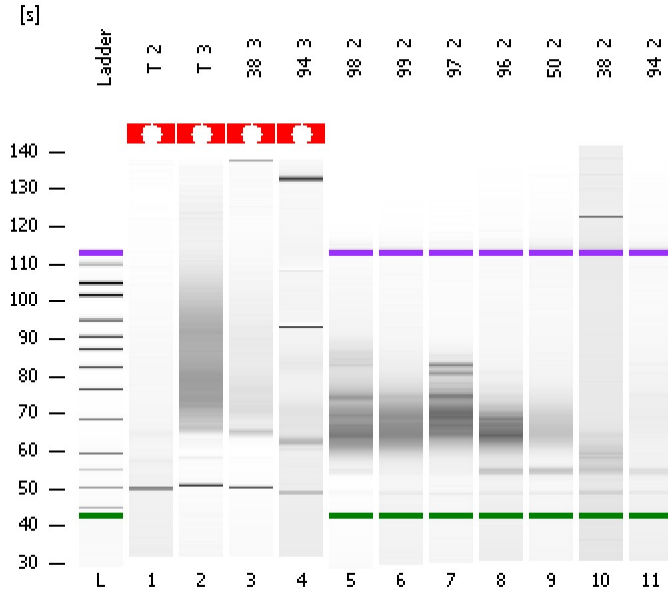
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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
T_2		<input type="checkbox"/>	✓			
T_3		<input type="checkbox"/>	✓			
38_3		<input type="checkbox"/>	✓			
94_3		<input type="checkbox"/>	✓			
98_2		<input type="checkbox"/>	✓			
99_2		<input type="checkbox"/>	✓			
97_2		<input type="checkbox"/>	✓			
96_2		<input type="checkbox"/>	✓			
50_2		<input type="checkbox"/>	✓			
38_2		<input type="checkbox"/>	✓			
94_2		<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

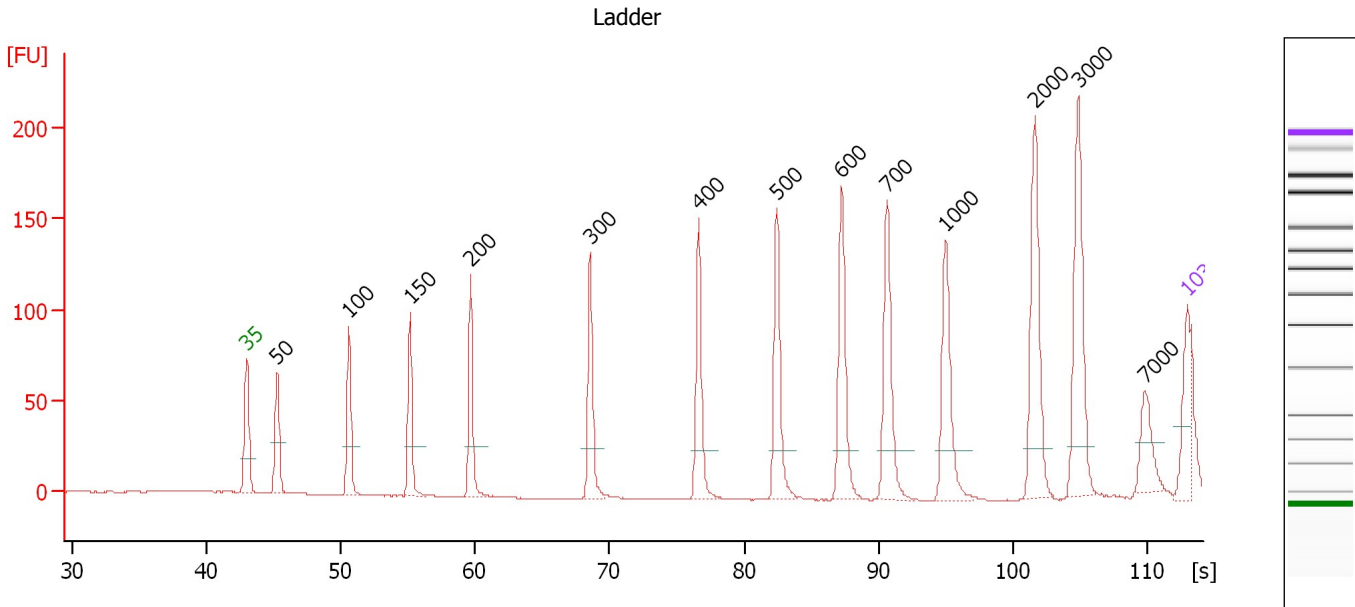
Ladder

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: 0.2

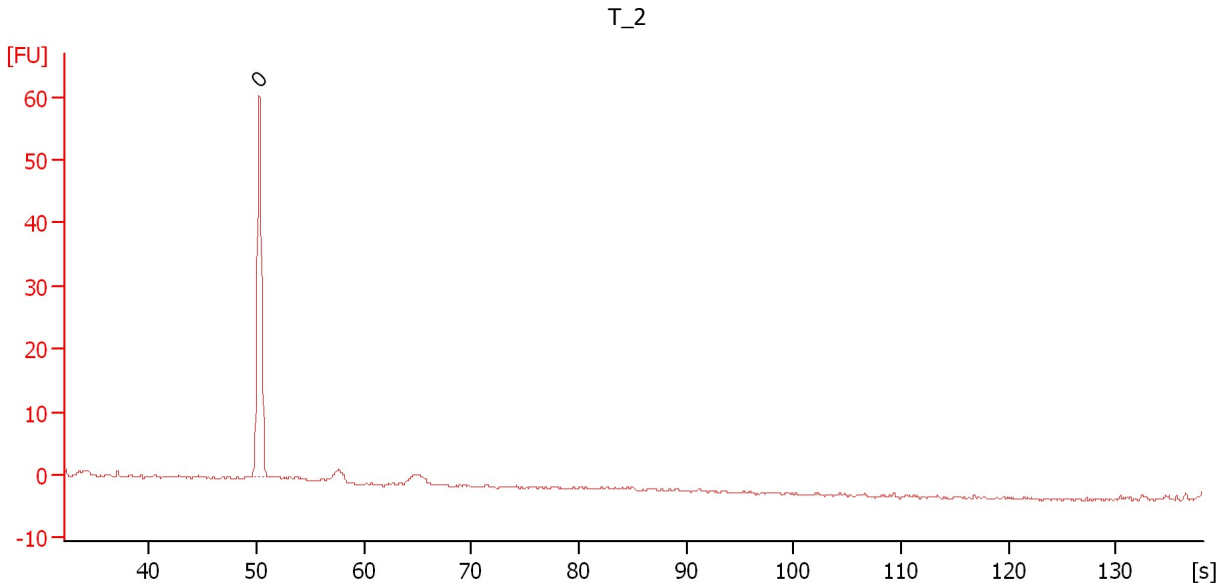
Peak table for Ladder

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	45.24
3	100	150.00	2,272.7	Ladder Peak	50.60
4	150	150.00	1,515.2	Ladder Peak	55.15
5	200	150.00	1,136.4	Ladder Peak	59.67
6	300	150.00	757.6	Ladder Peak	68.55
7	400	150.00	568.2	Ladder Peak	76.62
8	500	150.00	454.5	Ladder Peak	82.46
9	600	150.00	378.8	Ladder Peak	87.25
10	700	150.00	324.7	Ladder Peak	90.65
11	1,000	150.00	227.3	Ladder Peak	95.01
12	2,000	150.00	113.6	Ladder Peak	101.65
13	3,000	150.00	75.8	Ladder Peak	104.88
14	7,000	150.00	32.5	Ladder Peak	109.80
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : T_2

Number of peaks found: 0 Noise: 0.2

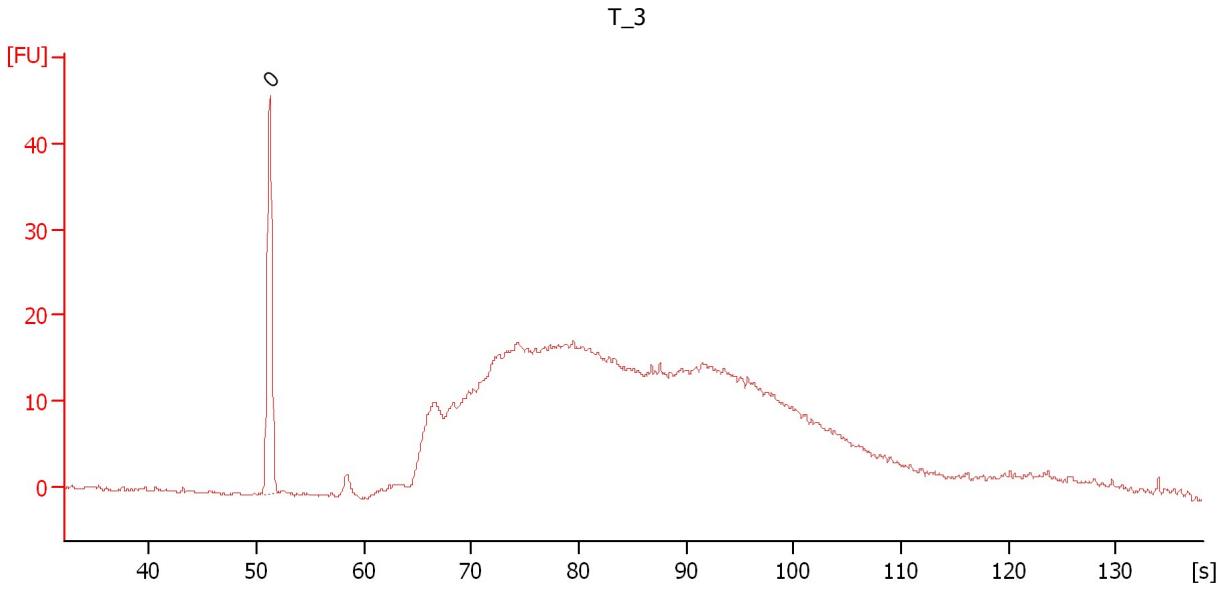
Peak table for sample 1 : T_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.25

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Electropherogram Summary Continued ...



Overall Results for sample 2 : T_3

Number of peaks found: 0 Noise: 0.2

Peak table for sample 2 : T_3

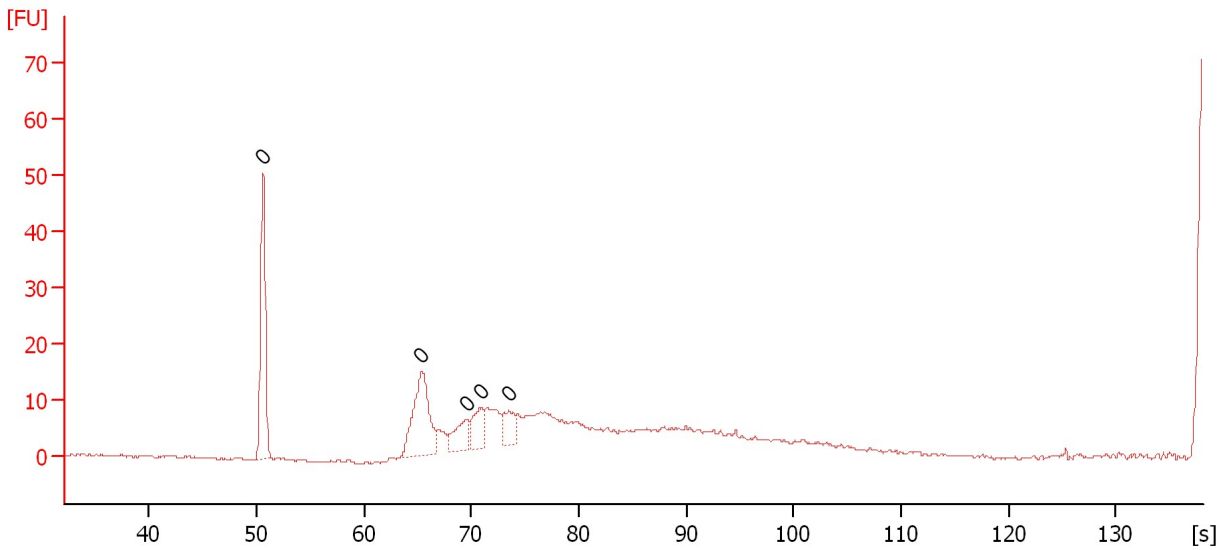
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		51.20

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...

38_3



Overall Results for sample 3 : 38_3

Number of peaks found: 0 Noise: 0.2

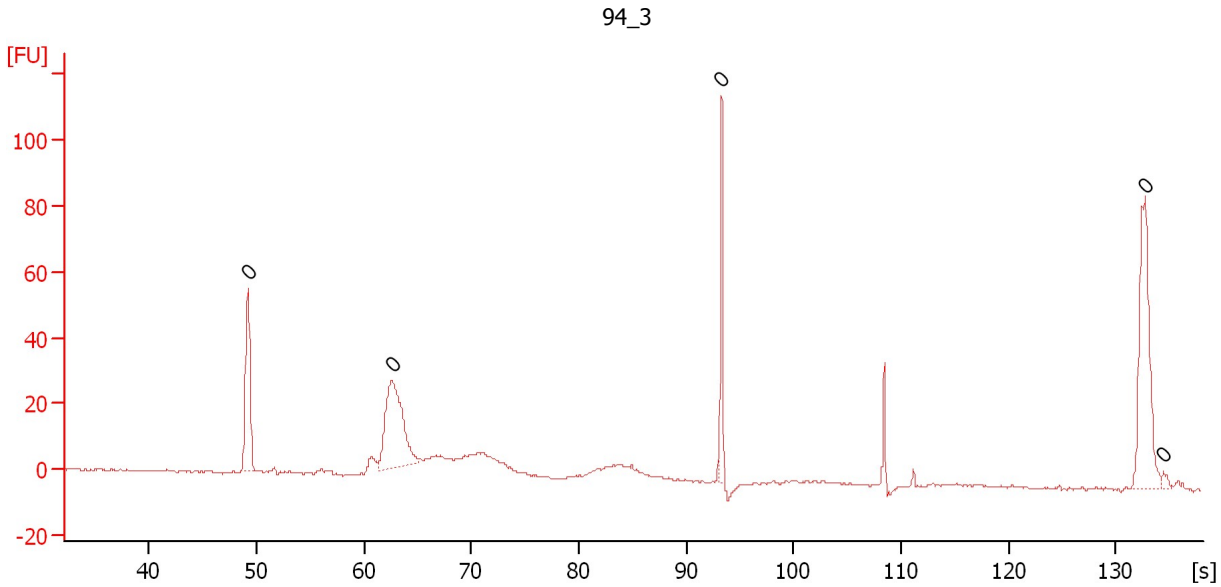
Peak table for sample 3 : 38_3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.60
2	0	0.00	0.0		65.35
3	0	0.00	0.0		69.50
4	0	0.00	0.0		70.80
5	0	0.00	0.0		73.50

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 94_3

Number of peaks found: 0 Noise: 0.4

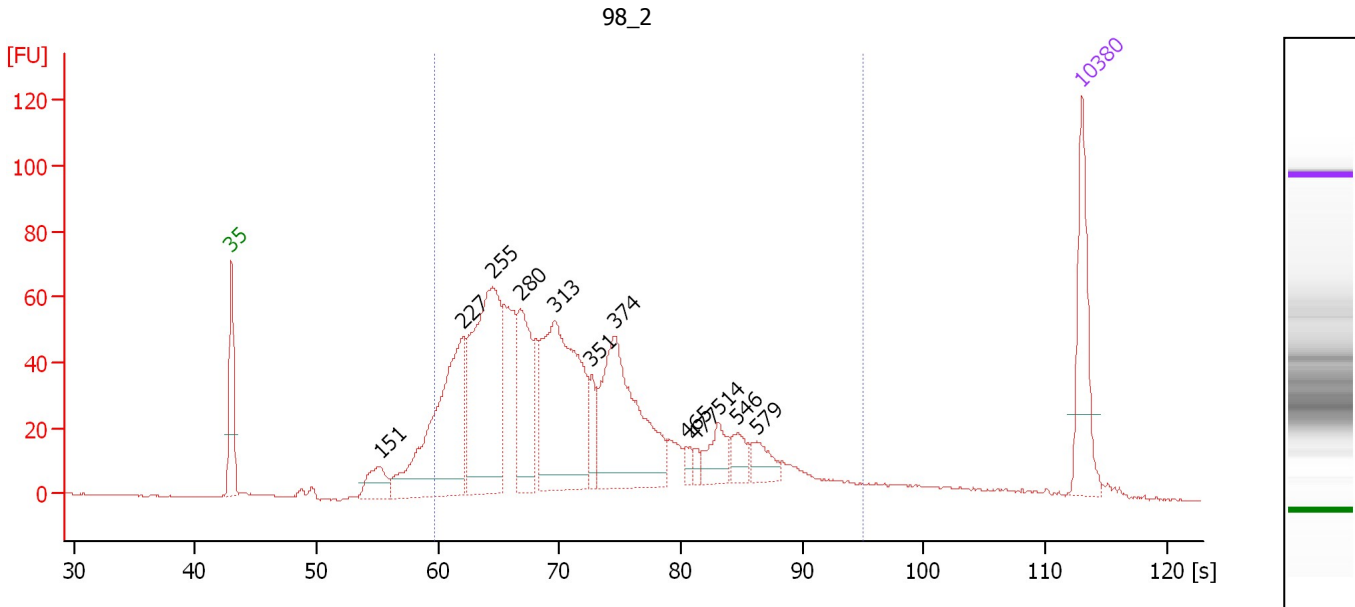
Peak table for sample 4 : 94_3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		49.20
2	0	0.00	0.0		62.60
3	0	0.00	0.0		93.30
4	0	0.00	0.0		132.65
5	0	0.00	0.0		134.40

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-20\2019-09-20_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 98_2

Number of peaks found: 12 Corr. Area 1: 1,480.1
 Noise: 0.2

Peak table for sample 5 : 98_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	151	45.99	461.6		55.24
3	227	291.48	1,943.2		62.09
4	255	309.90	1,843.8		64.52
5	280	126.55	684.6		66.78
6	313	298.99	1,446.8		69.60
7	351	28.31	122.2		72.65
8	374	234.41	948.6		74.55
9	465	9.64	31.4		80.43
10	477	7.85	24.9		81.09
11	514	39.52	116.5		83.13
12	546	24.97	69.3		84.67
13	579	26.24	68.6		86.26
14	10,380	75.00	10.9	Upper Marker	113.00

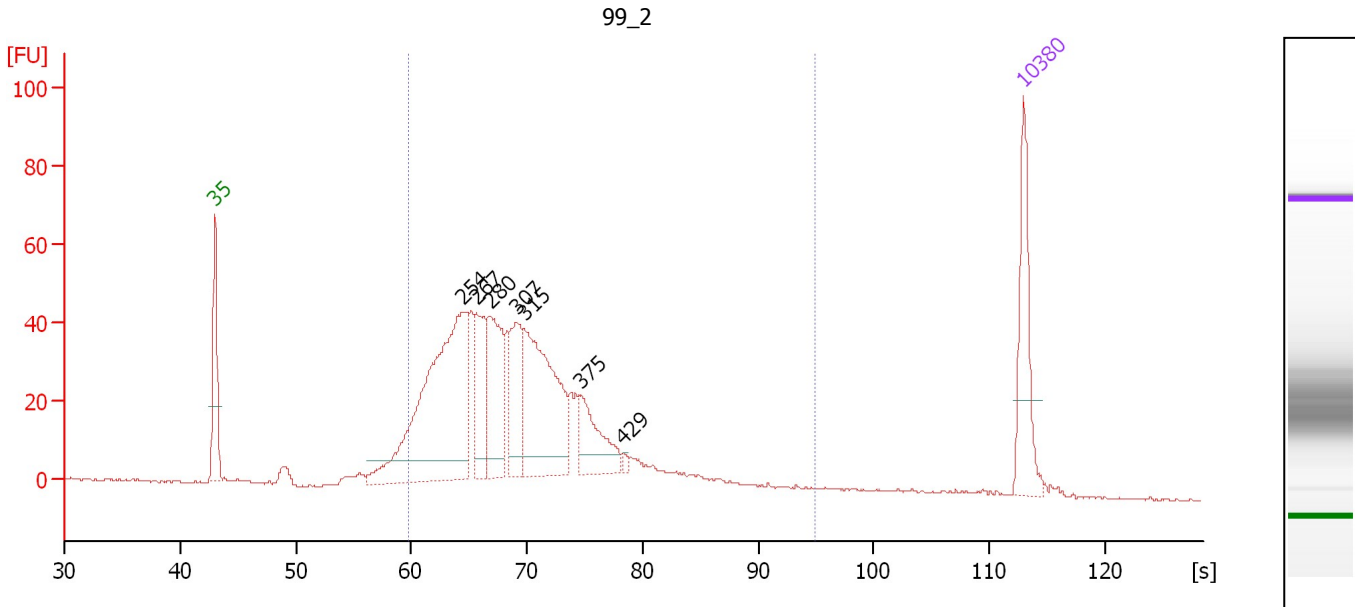
Region table for sample 5 : 98_2

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
59.67	95.01	354	1,656.16	1,480.1	8,185.6	89	37.4

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 99_2

Number of peaks found: 7 Corr. Area 1: 925.1
 Noise: 0.3

Peak table for sample 6 : 99_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	254	415.69	2,476.9		64.49
3	267	95.05	539.7		65.60
4	280	131.39	709.7		66.81
5	307	87.53	432.3		69.09
6	315	227.35	1,094.1		69.74
7	375	72.00	291.1		74.58
8	429	4.28	15.1		78.30
9	10,380	75.00	10.9	Upper Marker	113.00

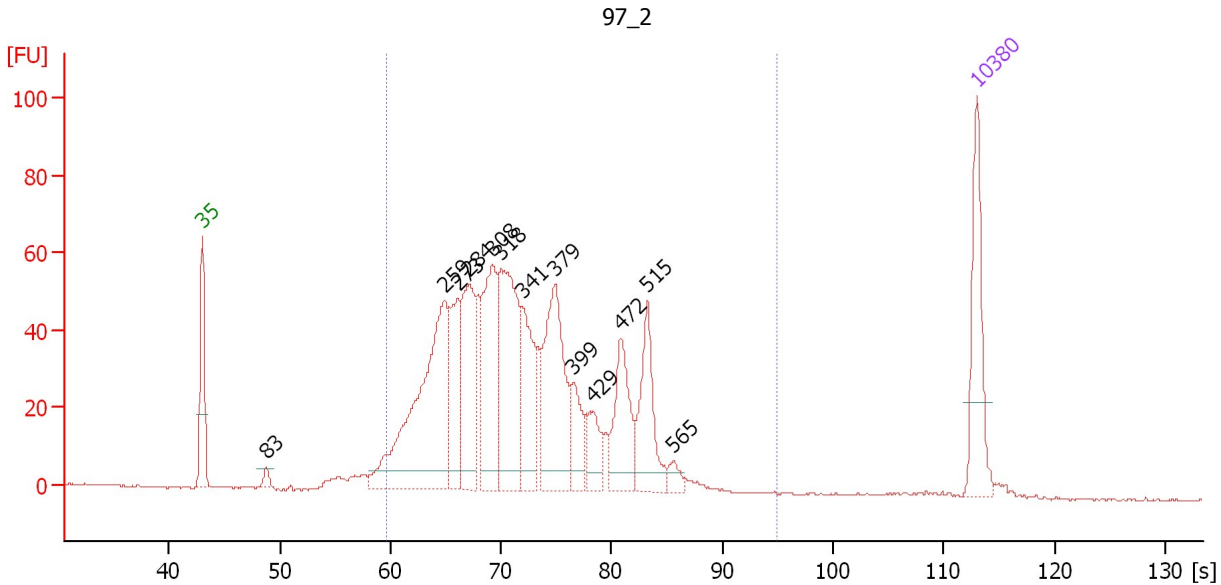
Region table for sample 6 : 99_2

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
59.67	95.01	319	1,302.79	925.1	6,738.2	92	30.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-20\2019-09-20_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 97_2

Number of peaks found: 13 Corr. Area 1: 1,243.6
 Noise: 0.3

Peak table for sample 7 : 97_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	83	10.47	191.0		48.78
3	259	339.20	1,985.5		64.89
4	273	94.88	527.5		66.11
5	284	138.14	737.0		67.13
6	308	158.47	780.4		69.17
7	318	200.00	951.4		70.04
8	341	105.28	467.3		71.88
9	379	170.51	682.4		74.89
10	399	46.32	175.9		76.54
11	429	38.60	136.2		78.34
12	472	88.16	283.1		80.82
13	515	88.78	261.0		83.19
14	565	12.00	32.2		85.57
15	10,380	75.00	10.9	Upper Marker	113.00

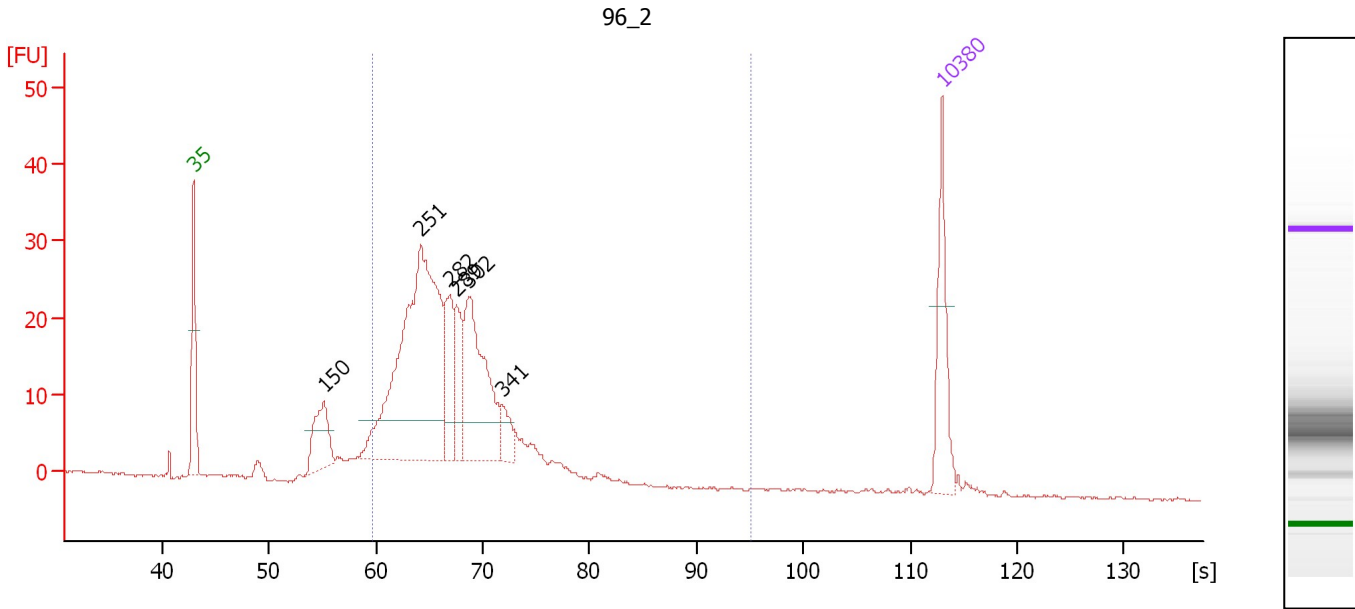
Region table for sample 7 : 97_2

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
59.67	95.01	349	1,584.96	1,243.6	7,512.3	96	26.3

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 8 : 96_2

Number of peaks found: 6 Corr. Area 1: 389.5
 Noise: 0.2

Peak table for sample 8 : 96_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	150	94.05	950.1		55.15
3	251	568.75	3,426.4		64.24
4	282	91.96	494.0		66.95
5	289	70.48	369.7		67.56
6	302	214.17	1,074.4		68.71
7	341	29.32	130.4		71.82
8	10,380	75.00	10.9	Upper Marker	113.00

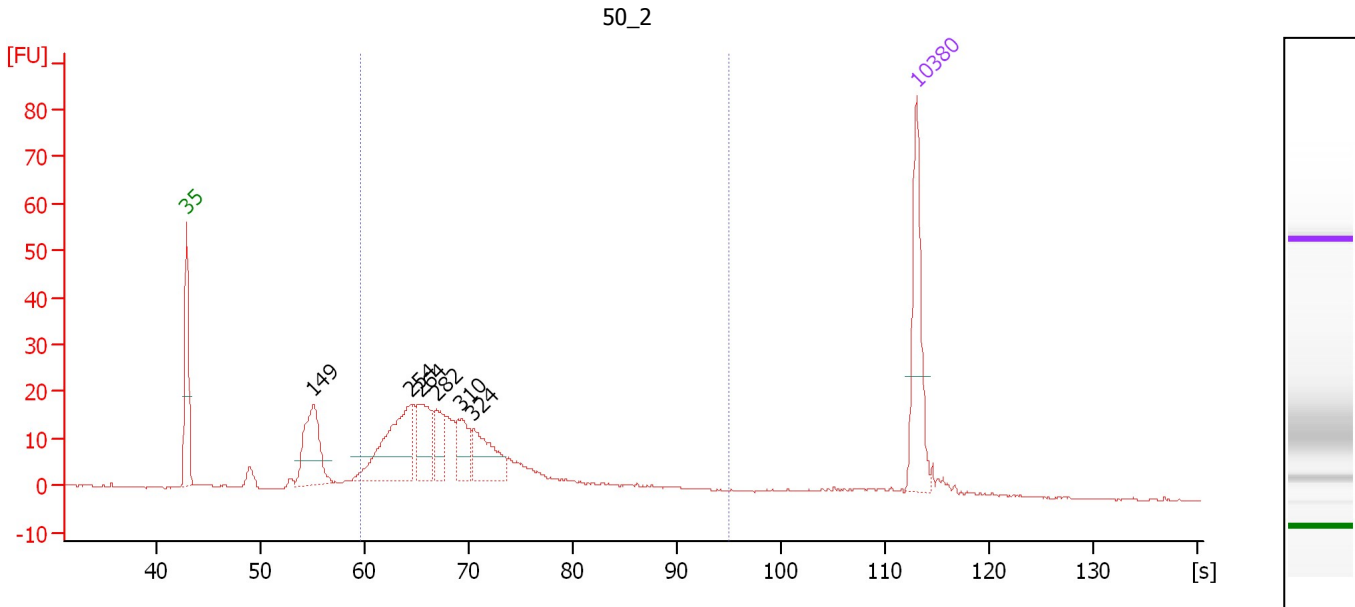
Region table for sample 8 : 96_2

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
59.67	95.01	285	1,227.58	389.5	6,733.9	87	18.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-20\2019-09-20_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 50_2

Number of peaks found: 6 Corr. Area 1: 327.6
 Noise: 0.2

Peak table for sample 9 : 50_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	149	108.95	1,104.4		55.10
3	254	132.20	789.8		64.43
4	264	66.91	384.0		65.35
5	282	34.18	183.6		66.95
6	310	40.50	198.2		69.32
7	324	58.38	272.8		70.51
8	10,380	75.00	10.9	Upper Marker	113.00

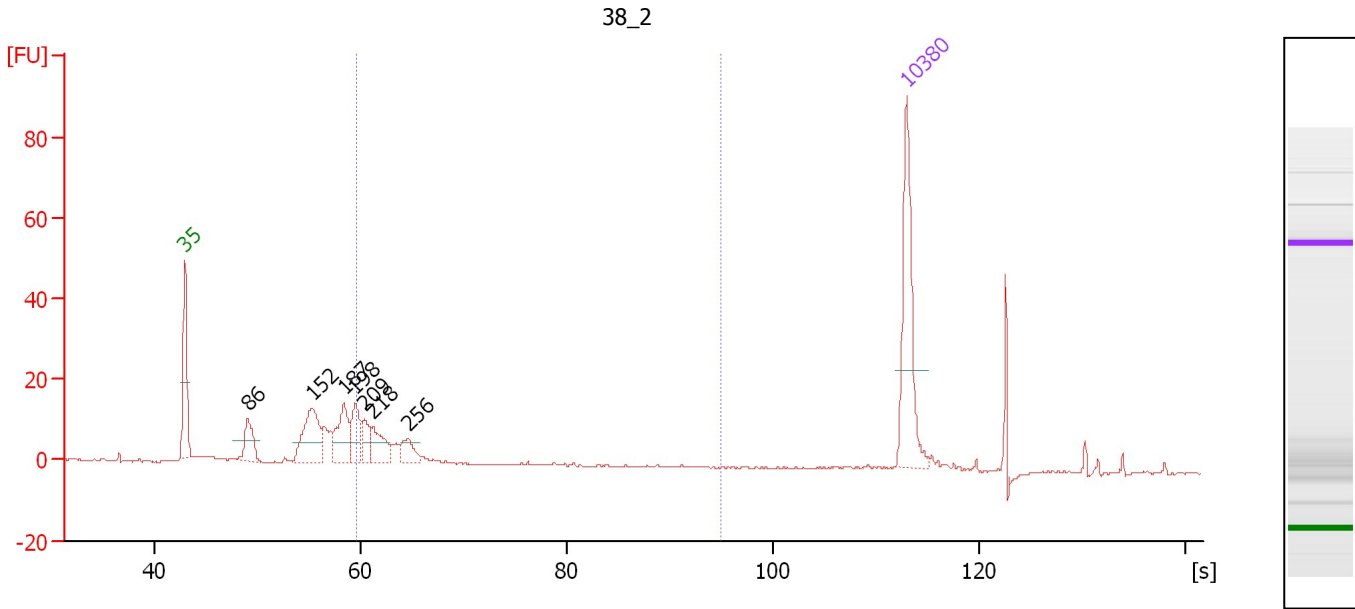
Region table for sample 9 : 50_2

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
59.67	95.01	327	558.78	327.6	2,878.8	74	35.5

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Electropherogram Summary Continued ...



Overall Results for sample 10 : 38_2

Number of peaks found: 7 Corr. Area 1: 72.0
 Noise: 0.2

Peak table for sample 10 : 38_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	86	38.16	672.8		49.09
3	152	76.16	759.1		55.33
4	187	50.58	410.7		58.46
5	198	36.51	279.3		59.50
6	209	21.78	158.2		60.43
7	218	32.16	223.5		61.27
8	256	20.17	119.3		64.65
9	10,380	75.00	10.9	Upper Marker	113.00

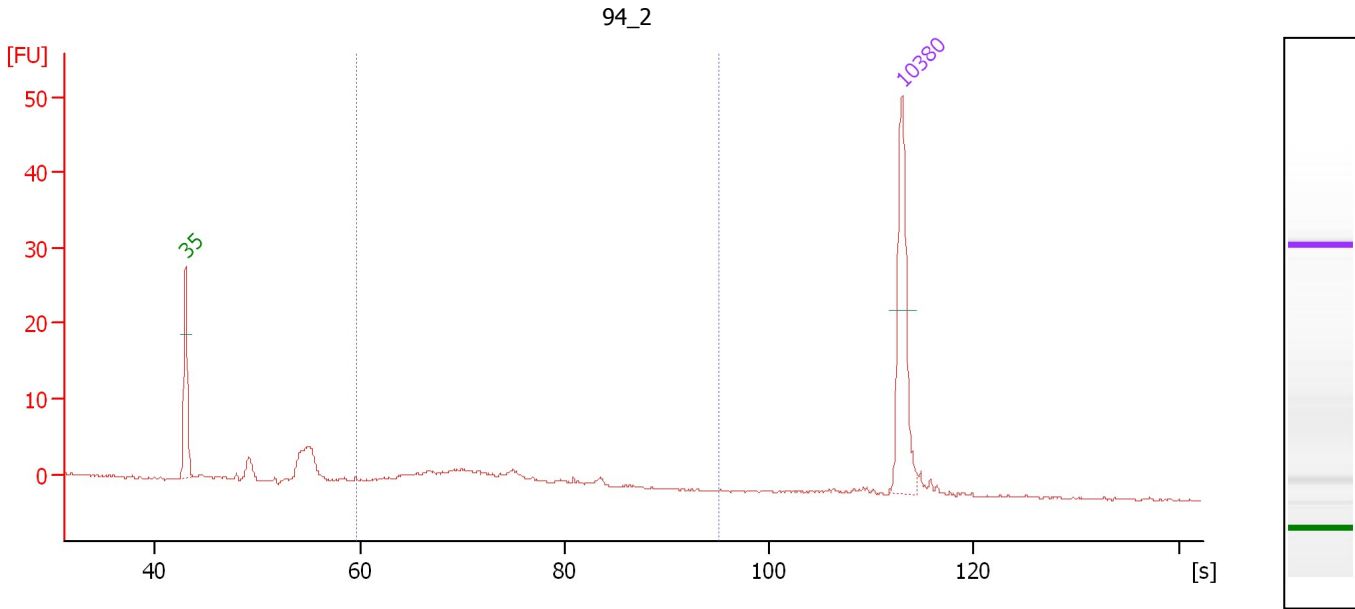
Region table for sample 10 : 38_2

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
59.67	95.01	243	114.71	72.0	743.3	32	28.3

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Electropherogram Summary Continued ...



Overall Results for sample 11 : 94_2

Number of peaks found: 0 Corr. Area 1: 35.7
 Noise: 0.2

Peak table for sample 11 : 94_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

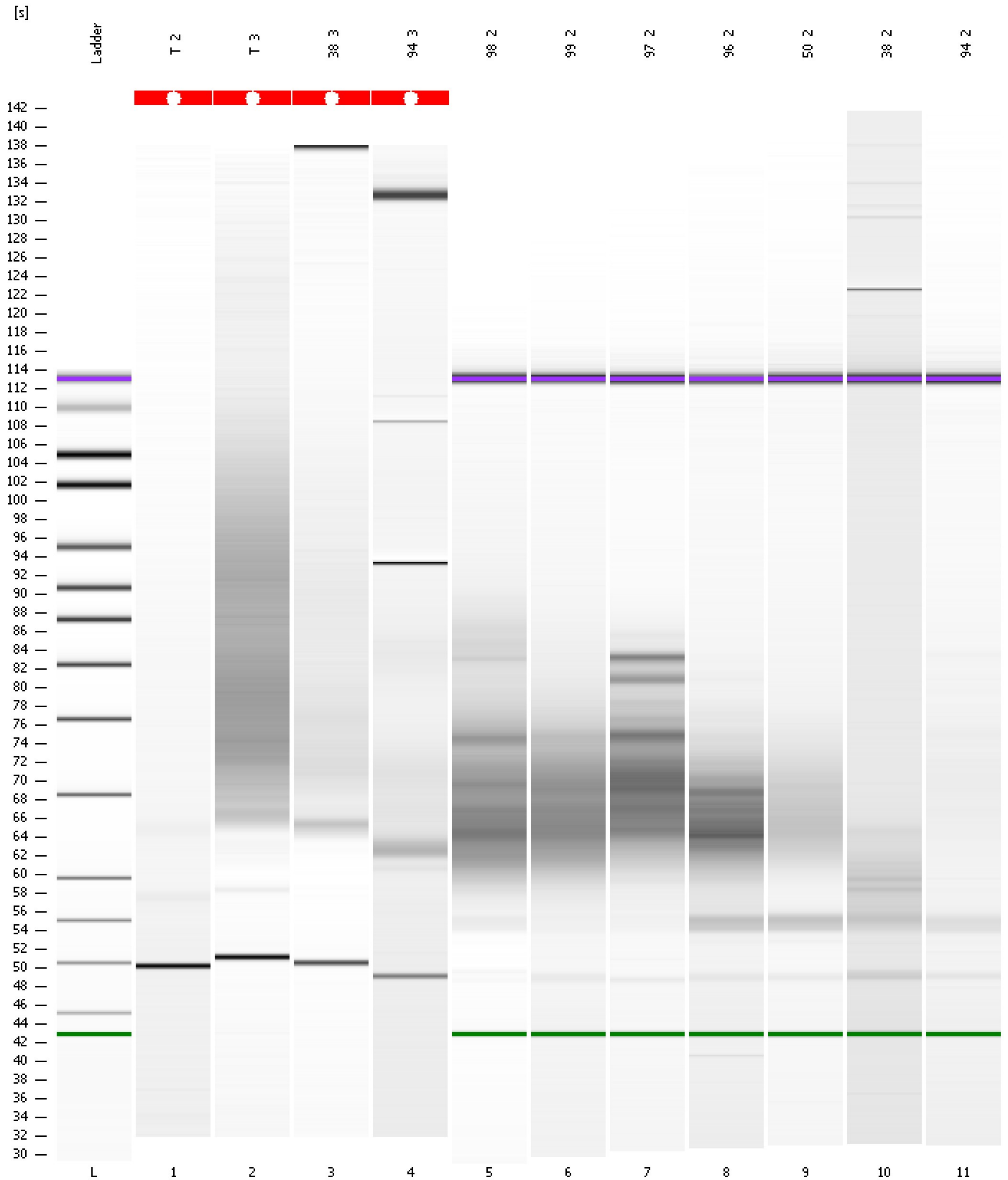
Region table for sample 11 : 94_2

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
59.67	95.01	352	87.38	35.7	404.8	56	23.9

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Gel Image

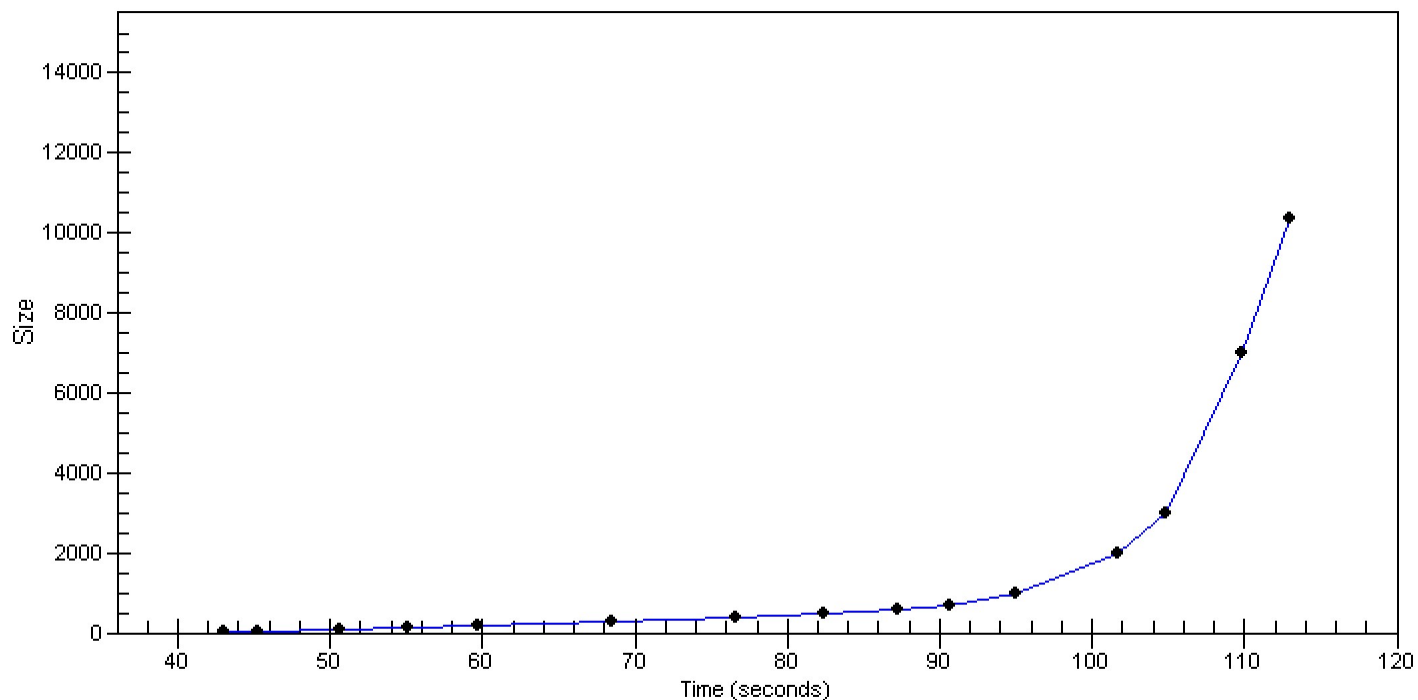


Assay Class: High Sensitivity DNA Assay
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Curves

Standard Curve



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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		9/20/2019 5:23:35 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\2019-09-20\2019-09-20_003.xad)		Instrument	Run		9/20/2019 4:42:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/20/2019 4:42:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/20/2019 4:42:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/20/2019 4:42:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/20/2019 4:42:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/20/2019 4:42:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/20/2019 4:42:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1