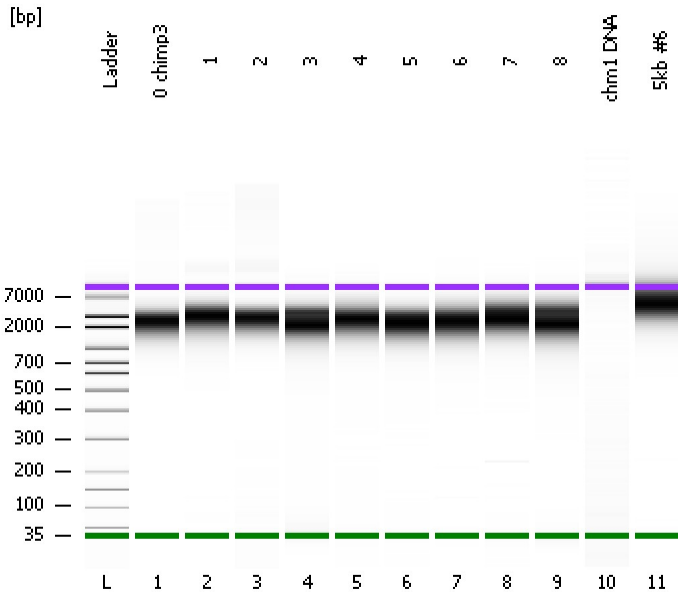


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
Modified: 7/2/2019 5:35:27 PM

Electrophoresis File Run Summary



Instrument Information:

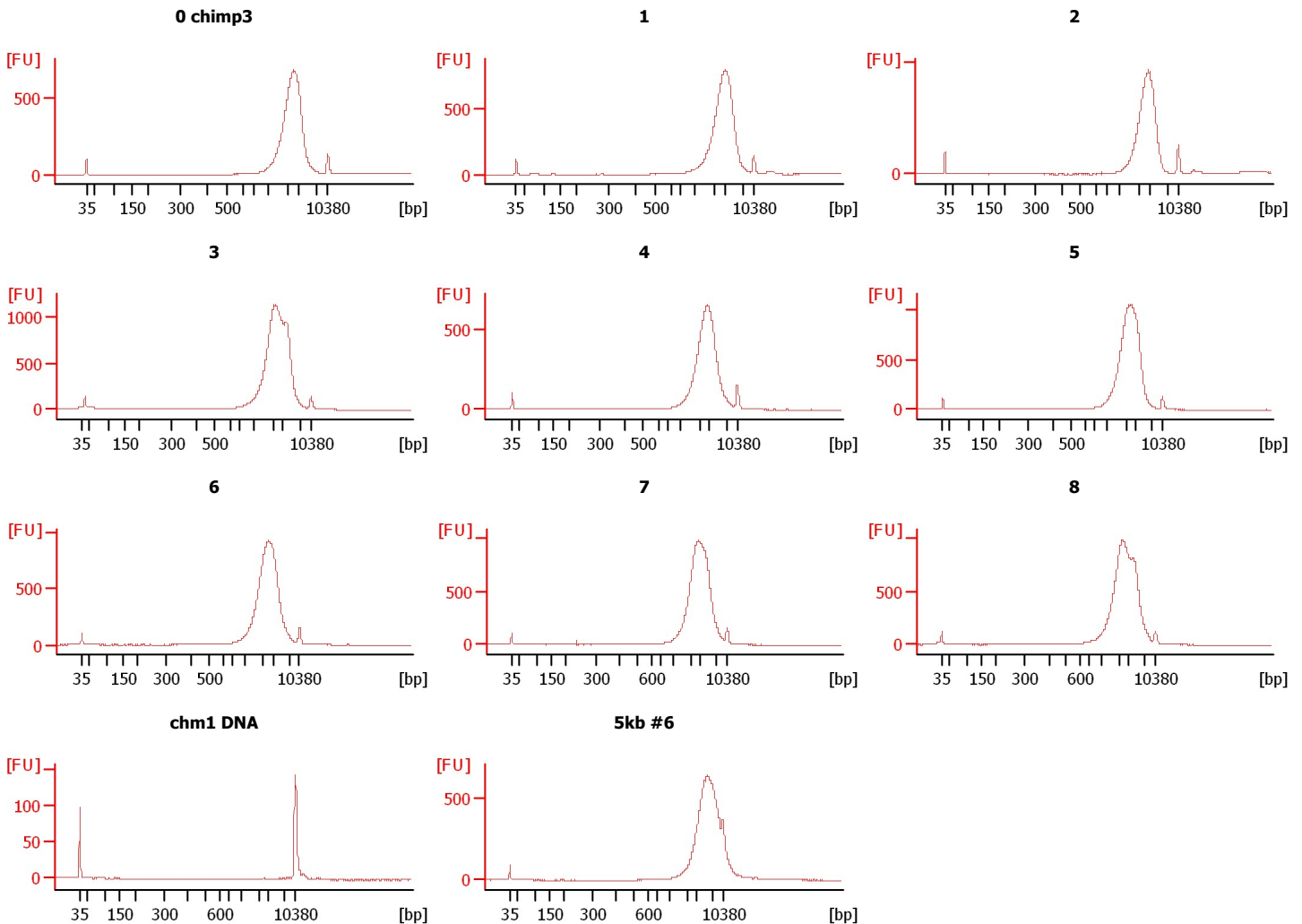
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
 Modified: 7/2/2019 5:35:27 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
0 chimp3		<input type="checkbox"/>	✓			
1		<input type="checkbox"/>	✓			
2		<input type="checkbox"/>	✓			
3		<input type="checkbox"/>	✓			
4		<input type="checkbox"/>	✓			
5		<input type="checkbox"/>	✓			
6		<input type="checkbox"/>	✓			
7		<input type="checkbox"/>	✓			
8		<input type="checkbox"/>	✓			
chm1 DNA		<input type="checkbox"/>	✓			
5kb #6		<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\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
Modified: 7/2/2019 5:35:27 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

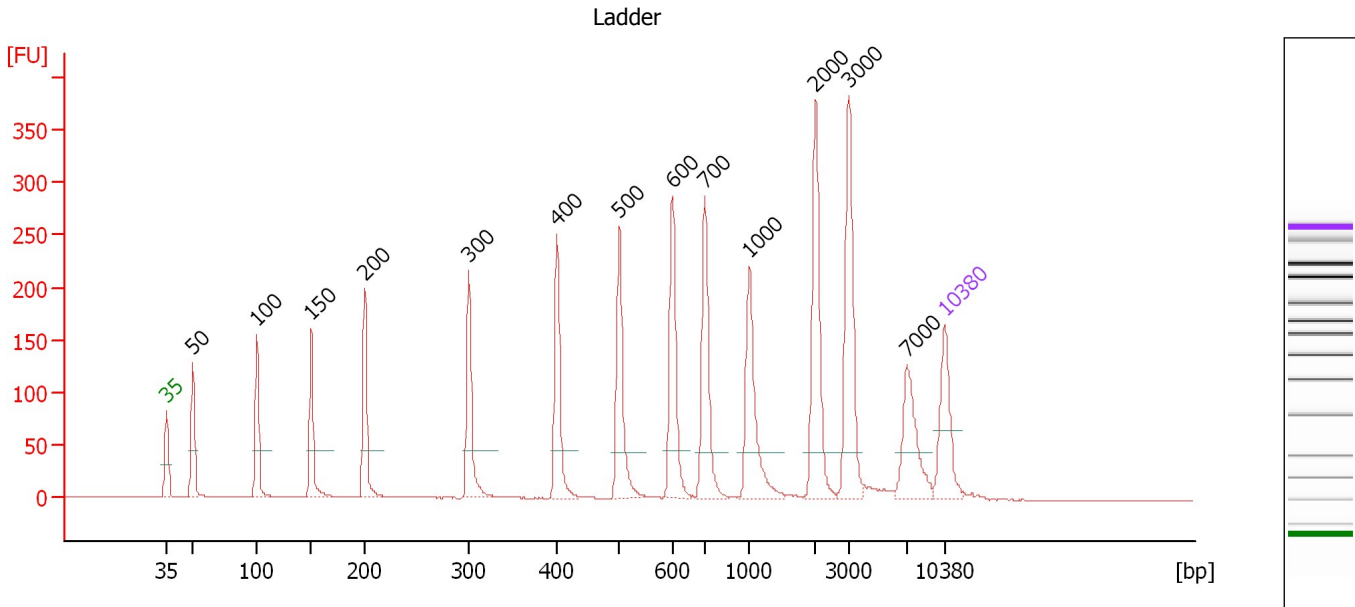
Ladder

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\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
 Modified: 7/2/2019 5:35:27 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

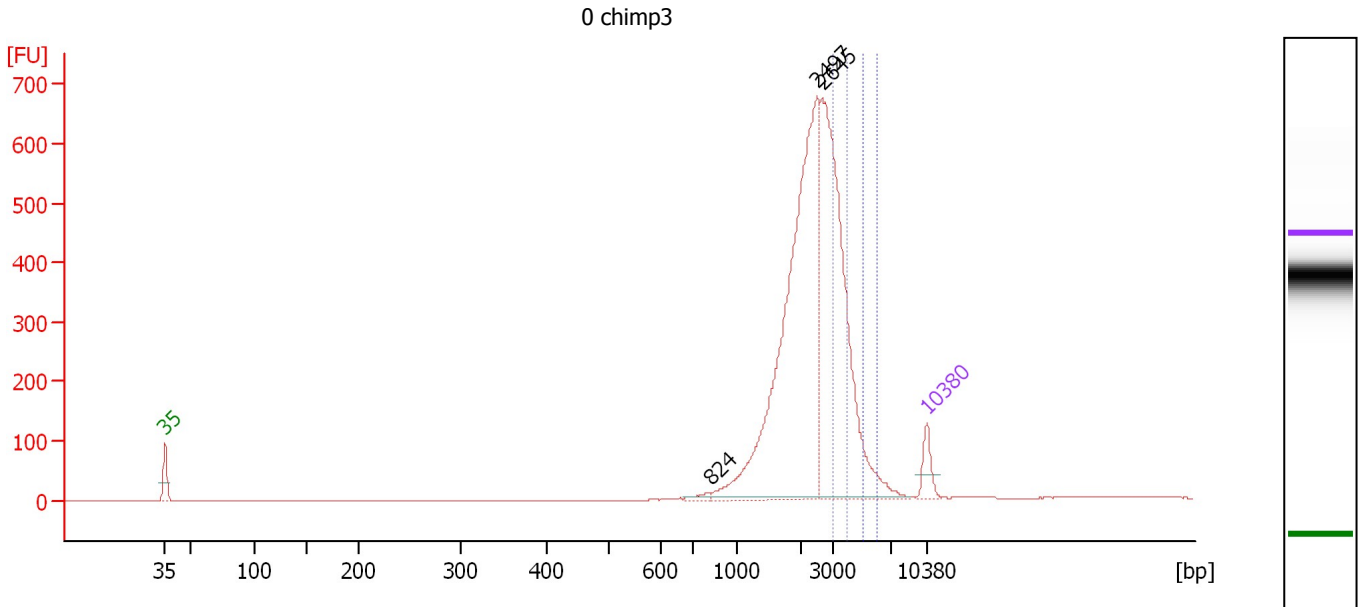
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.35
3	100	150.00	2,272.7	Ladder Peak	51.11
4	150	150.00	1,515.2	Ladder Peak	56.01
5	200	150.00	1,136.4	Ladder Peak	60.81
6	300	150.00	757.6	Ladder Peak	70.22
7	400	150.00	568.2	Ladder Peak	78.14
8	500	150.00	454.5	Ladder Peak	83.76
9	600	150.00	378.8	Ladder Peak	88.51
10	700	150.00	324.7	Ladder Peak	91.44
11	1,000	150.00	227.3	Ladder Peak	95.48
12	2,000	150.00	113.6	Ladder Peak	101.43
13	3,000	150.00	75.8	Ladder Peak	104.41
14	7,000	150.00	32.5	Ladder Peak	109.69
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
 Modified: 7/2/2019 5:35:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 0 chimp3

Number of peaks found: 3 Corr. Area 1: 584.2
 Noise: 0.3 Corr. Area 2: 79.5

Peak table for sample 1 : 0 chimp3

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	824	21.67	39.8		93.11
3	2,497	1,872.43	1,136.1		102.91
4	2,645	1,408.49	806.8		103.35
5	10,380	75.00	10.9	Upper Marker	113.00

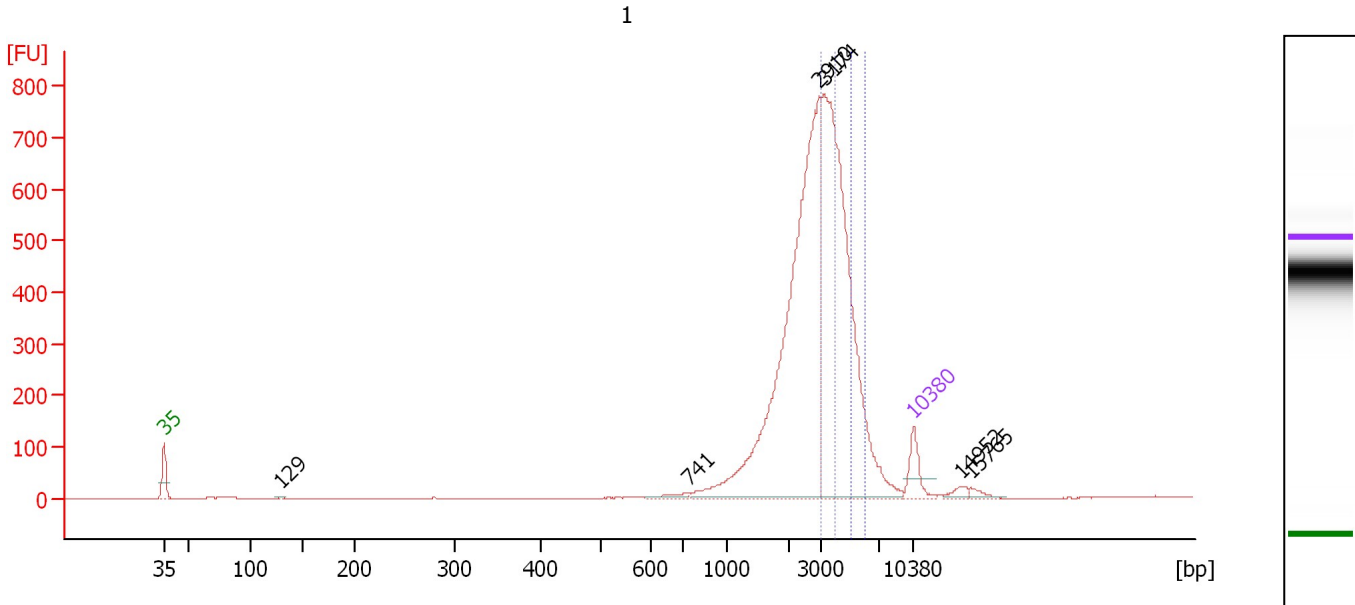
Region table for sample 1 : 0 chimp3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
3,000	4,000	3,424	472.32	584.2	209.0	14	8.5
5,000	6,000	5,367	65.20	79.5	18.4	2	5.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
 Modified: 7/2/2019 5:35:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 1

Number of peaks found: 6 Corr. Area 1: 990.3
 Noise: 0.3 Corr. Area 2: 378.5

Peak table for sample 2 : 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	129	5.65	66.4		53.95
3	741	22.40	45.8		91.99
4	2,910	1,631.25	849.4		104.14
5	3,174	1,391.83	664.4		104.64
6	10,380	75.00	10.9	Upper Marker	113.00
7	14,952	0.00	0.0		117.48
8	15,765	0.00	0.0		118.28

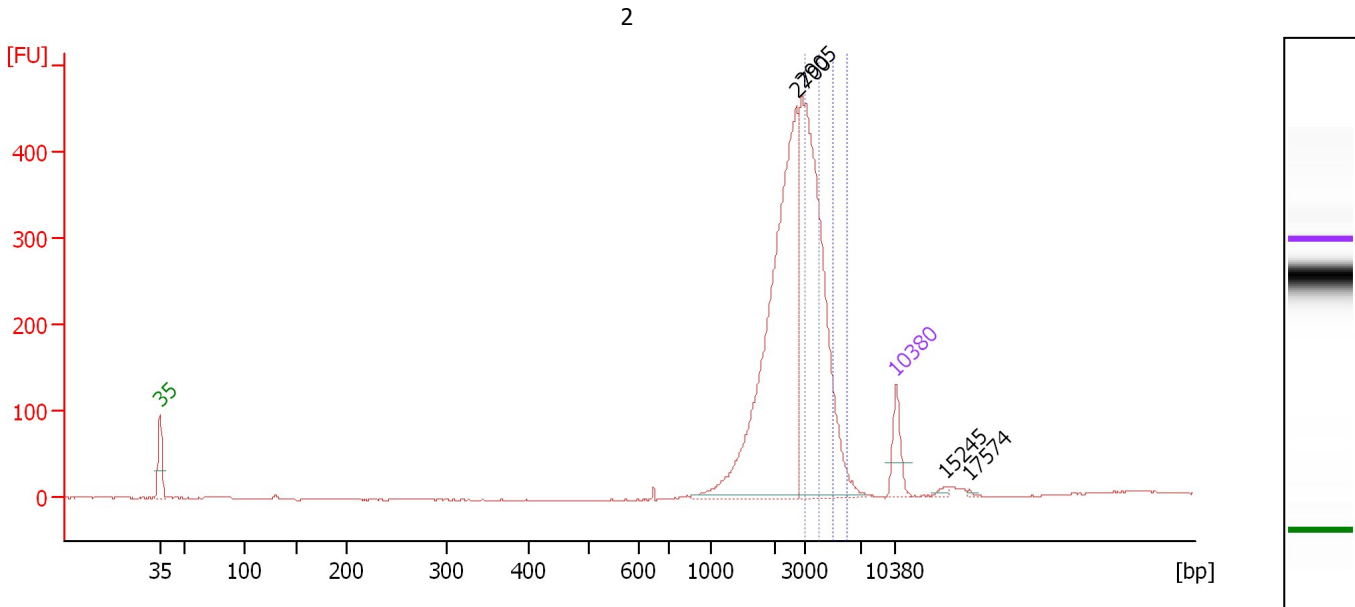
Region table for sample 2 : 1

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	3,450	599.43	990.3	263.2	20	8.7
5,000	6,000	5,374	232.34	378.5	65.5	7	5.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
 Modified: 7/2/2019 5:35:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 2

Number of peaks found: 4 Corr. Area 1: 510.0
 Noise: 0.3 Corr. Area 2: 87.4

Peak table for sample 3 : 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	2,700	1,083.85	608.1		103.51
3	2,905	914.44	476.9		104.12
4	10,380	75.00	10.9	Upper Marker	113.00
5	15,245	0.00	0.0		117.77
6	17,574	0.00	0.0		120.05

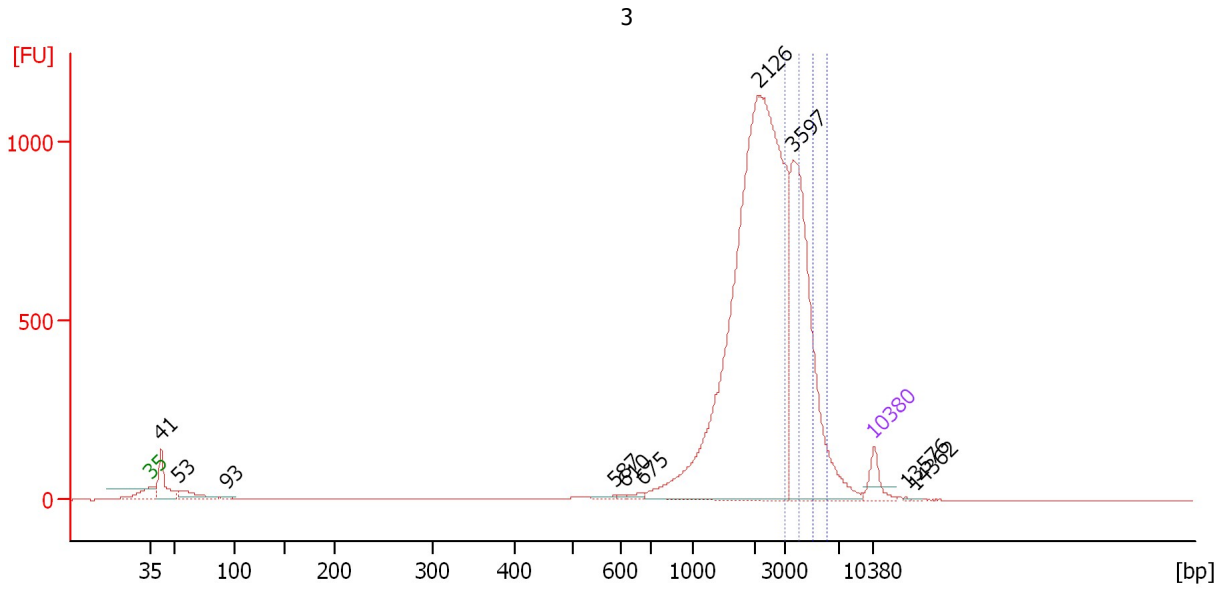
Region table for sample 3 : 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
3,000	4,000	3,451	394.25	510.0	173.1	20	8.6
5,000	6,000	5,345	68.52	87.4	19.4	3	5.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
 Modified: 7/2/2019 5:35:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 3

Number of peaks found: 10 Corr. Area 1: 1,170.0
 Noise: 0.3 Corr. Area 2: 372.1

Peak table for sample 4 : 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	41	277.75	10,209.0		43.98
3	53	129.86	3,698.0		45.72
4	93	20.39	332.6		50.29
5	587	14.81	38.2		87.89
6	610	7.05	17.5		88.81
7	675	19.80	44.4		90.71
8	2,126	3,398.84	2,422.4		101.80
9	3,597	1,210.19	509.8		105.19
10	10,380	75.00	10.9	Upper Marker	113.00
11	13,576	0.00	0.0		116.13
12	14,362	0.00	0.0		116.90

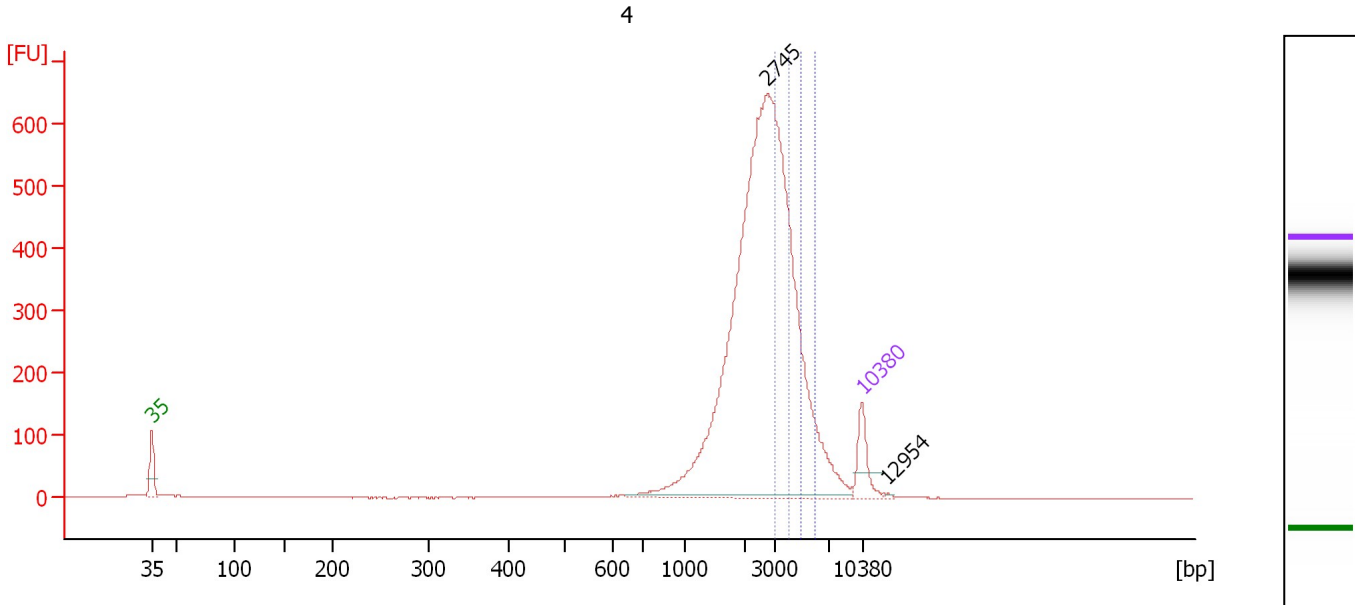
Region table for sample 4 : 3

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	3,463	603.81	1,170.0	264.2	12	8.4
5,000	6,000	5,364	194.73	372.1	55.0	4	5.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
 Modified: 7/2/2019 5:35:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 4

Number of peaks found: 2 Corr. Area 1: 727.5
 Noise: 0.3 Corr. Area 2: 218.4

Peak table for sample 5 : 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	2,745	2,289.62	1,264.0		103.65
3	10,380	75.00	10.9	Upper Marker	113.00
4	12,954	0.00	0.0		115.52

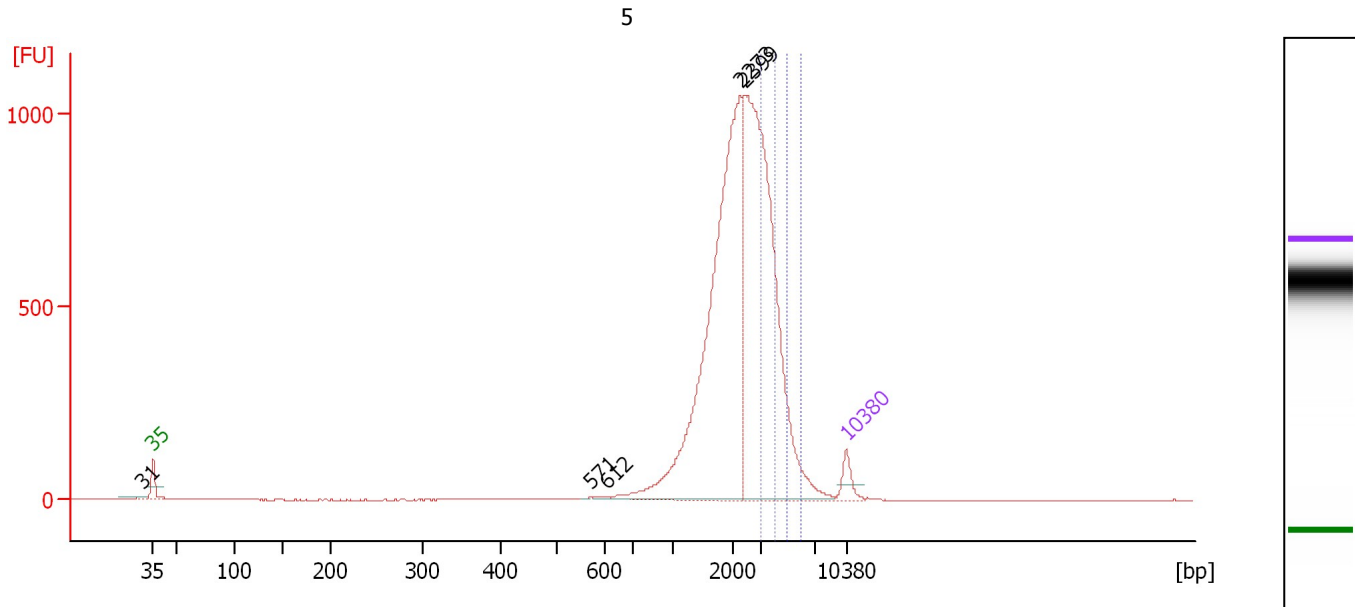
Region table for sample 5 : 4

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	3,433	384.65	727.5	169.8	16	8.9
5,000	6,000	5,410	117.14	218.4	32.8	5	5.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
 Modified: 7/2/2019 5:35:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 5

Number of peaks found: 5 Corr. Area 1: 1,053.0
 Noise: 0.3 Corr. Area 2: 182.9

Peak table for sample 6 : 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.82
2	35	125.00	5,411.3	Lower Marker	43.00
3	571	4.71	12.5		87.15
4	612	10.66	26.4		88.86
5	2,273	2,393.20	1,595.0		102.24
6	2,399	2,419.90	1,528.2		102.62
7	10,380	75.00	10.9	Upper Marker	113.00

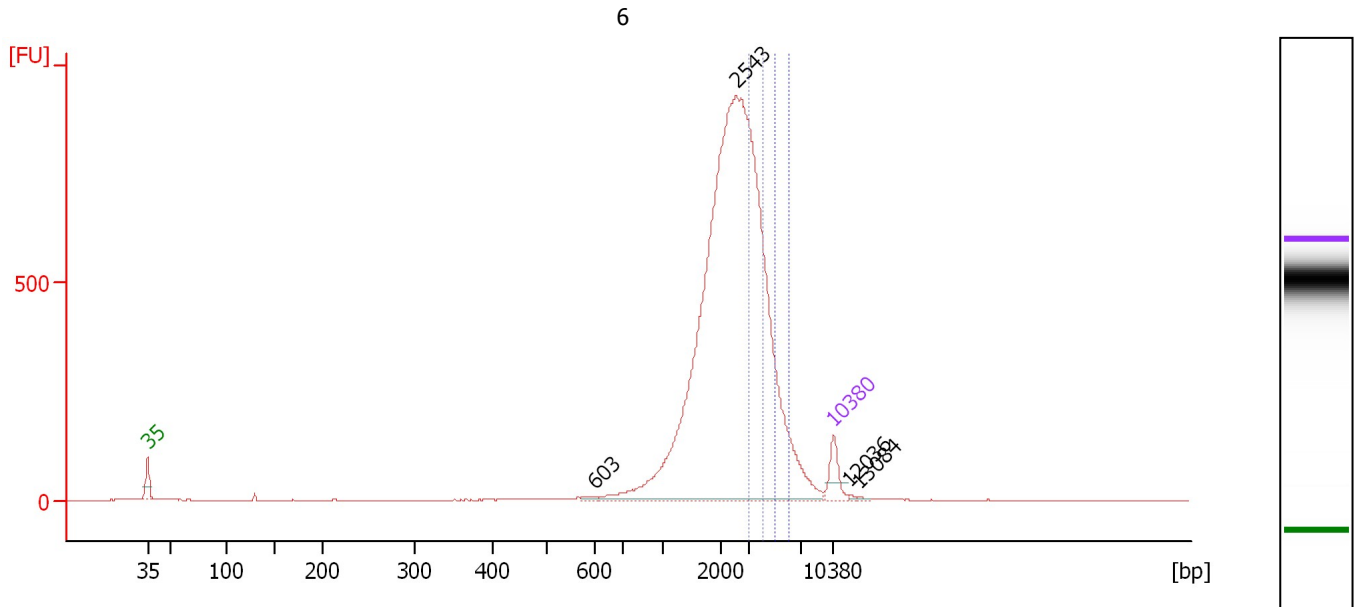
Region table for sample 6 : 5

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	3,416	673.94	1,053.0	298.9	14	8.7
5,000	6,000	5,366	118.76	182.9	33.5	2	5.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
 Modified: 7/2/2019 5:35:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 6

Number of peaks found: 4 Corr. Area 1: 970.1
 Noise: 0.3 Corr. Area 2: 273.2

Peak table for sample 7 : 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	603	8.96	22.5		88.60
3	2,543	3,810.84	2,270.3		103.05
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,036	0.00	0.0		114.62
6	13,084	0.00	0.0		115.65

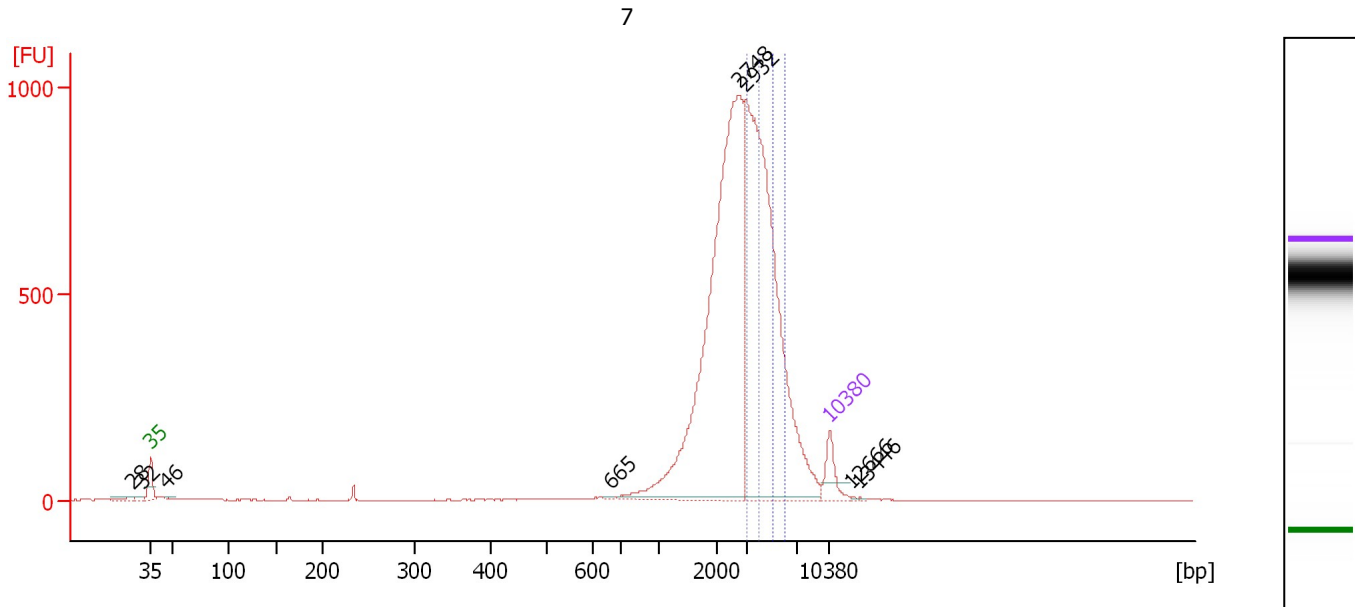
Region table for sample 7 : 6

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	3,436	547.26	970.1	241.3	14	8.8
5,000	6,000	5,393	156.33	273.2	43.9	4	5.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
 Modified: 7/2/2019 5:35:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 7

Number of peaks found: 8 Corr. Area 1: 1,156.7
 Noise: 0.3 Corr. Area 2: 606.1

Peak table for sample 8 : 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		41.14
2	32	0.00	0.0		42.23
3	35	125.00	5,411.3	Lower Marker	43.00
4	46	11.50	380.4		44.69
5	665	5.34	12.1		90.43
6	2,748	1,833.08	1,010.7		103.66
7	2,932	1,693.75	875.4		104.20
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,666	0.00	0.0		115.24
10	13,446	0.00	0.0		116.01

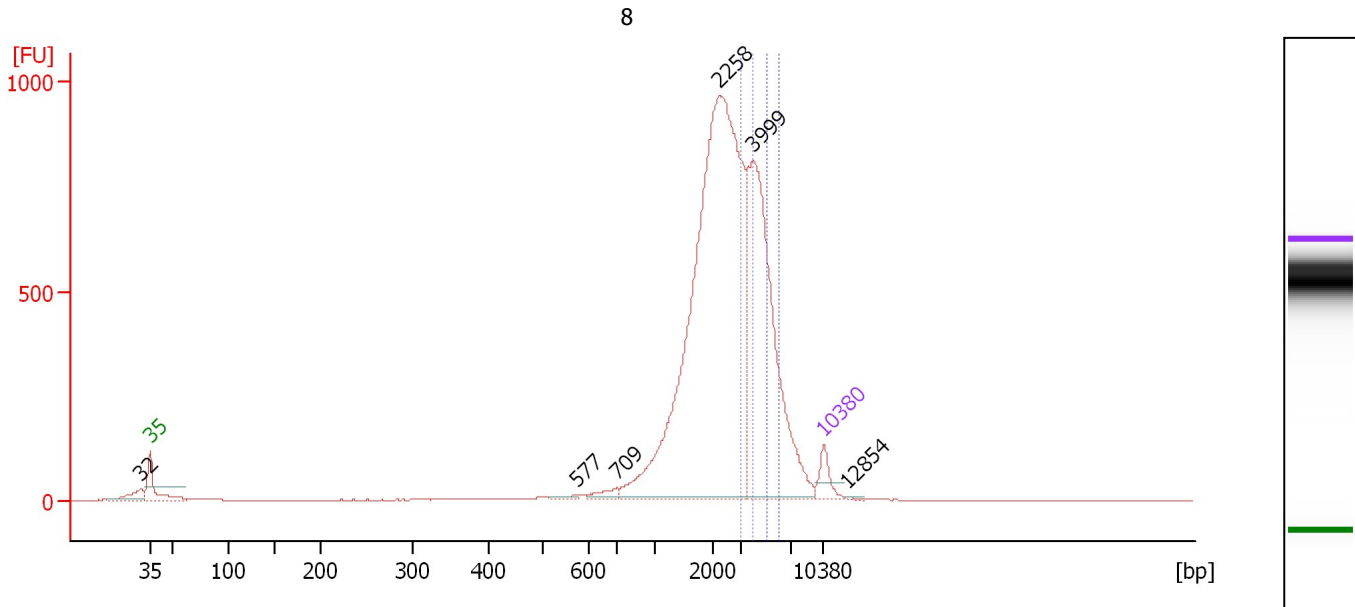
Region table for sample 8 : 7

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	3,460	561.05	1,156.7	245.7	15	8.6
5,000	6,000	5,396	298.19	606.1	83.7	8	5.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
 Modified: 7/2/2019 5:35:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 8

Number of peaks found: 6 Corr. Area 1: 1,006.2
 Noise: 0.5 Corr. Area 2: 568.2

Peak table for sample 9 : 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.01
2	35	125.00	5,411.3	Lower Marker	43.00
3	577	14.84	39.0		87.43
4	709	45.22	96.7		91.56
5	2,258	3,138.19	2,105.9		102.20
6	3,999	1,412.66	535.3		105.72
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,854	0.00	0.0		115.43

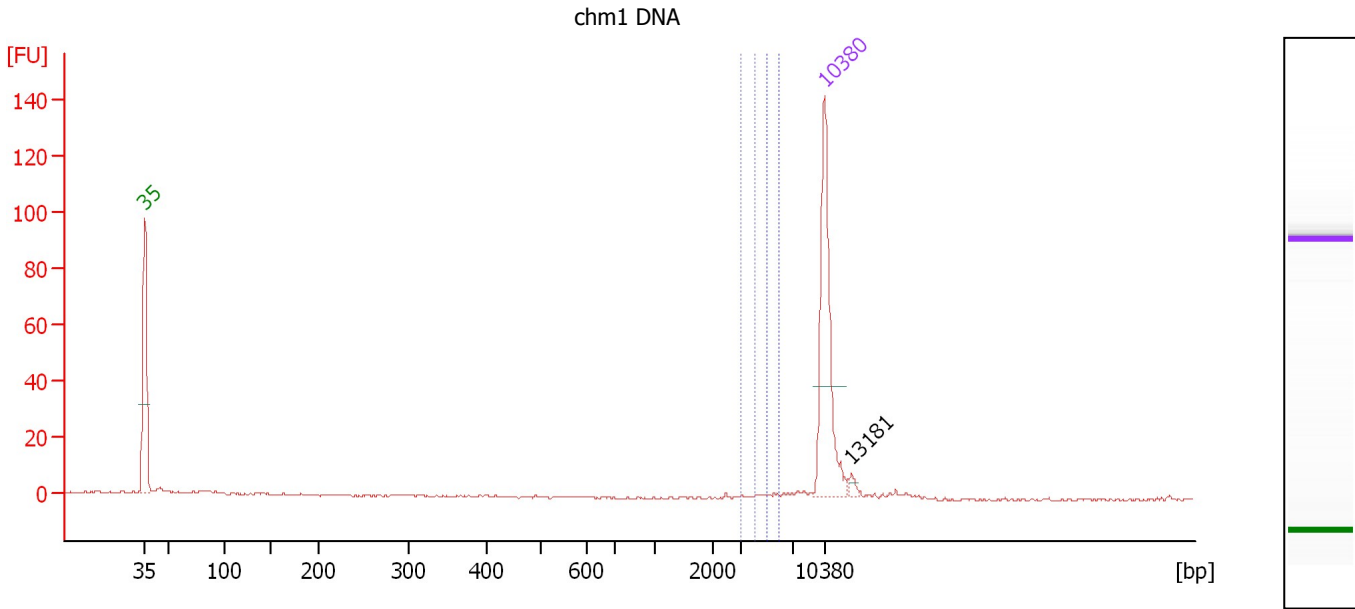
Region table for sample 9 : 8

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	3,456	563.17	1,006.2	246.9	12	8.7
5,000	6,000	5,398	322.60	568.2	90.6	7	5.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
 Modified: 7/2/2019 5:35:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : chm1 DNA

Number of peaks found: 1 Corr. Area 1: 0.1
 Noise: 0.4 Corr. Area 2: 0.8

Peak table for sample 10 : chm1 DNA

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	13,181	0.00	0.0		115.75

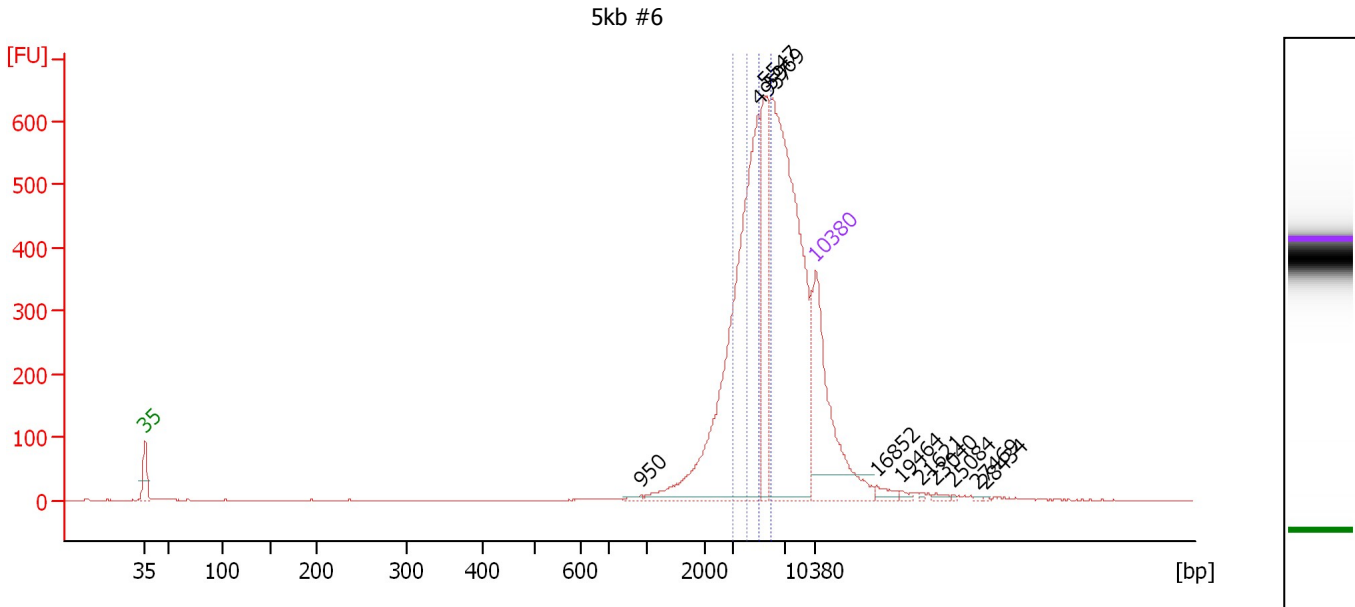
Region table for sample 10 : chm1 DNA

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	3,063	0.06	0.1	0.0	0	3.3
5,000	6,000	5,531	0.48	0.8	0.1	3	5.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
 Modified: 7/2/2019 5:35:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 5kb #6

Number of peaks found: 11 Corr. Area 1: 470.4
 Noise: 0.2 Corr. Area 2: 772.5

Peak table for sample 11 : 5kb #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	950	1.54	2.4		94.80
3	4,957	212.06	64.8		106.99
4	5,547	64.45	17.6		107.77
5	5,969	219.77	55.8		108.33
6	10,380	75.00	10.9	Upper Marker	113.00
7	16,852	0.00	0.0		119.34
8	19,464	0.00	0.0		121.90
9	21,621	0.00	0.0		124.02
10	23,040	0.00	0.0		125.41
11	25,084	0.00	0.0		127.41
12	27,469	0.00	0.0		129.75
13	28,434	0.00	0.0		130.69

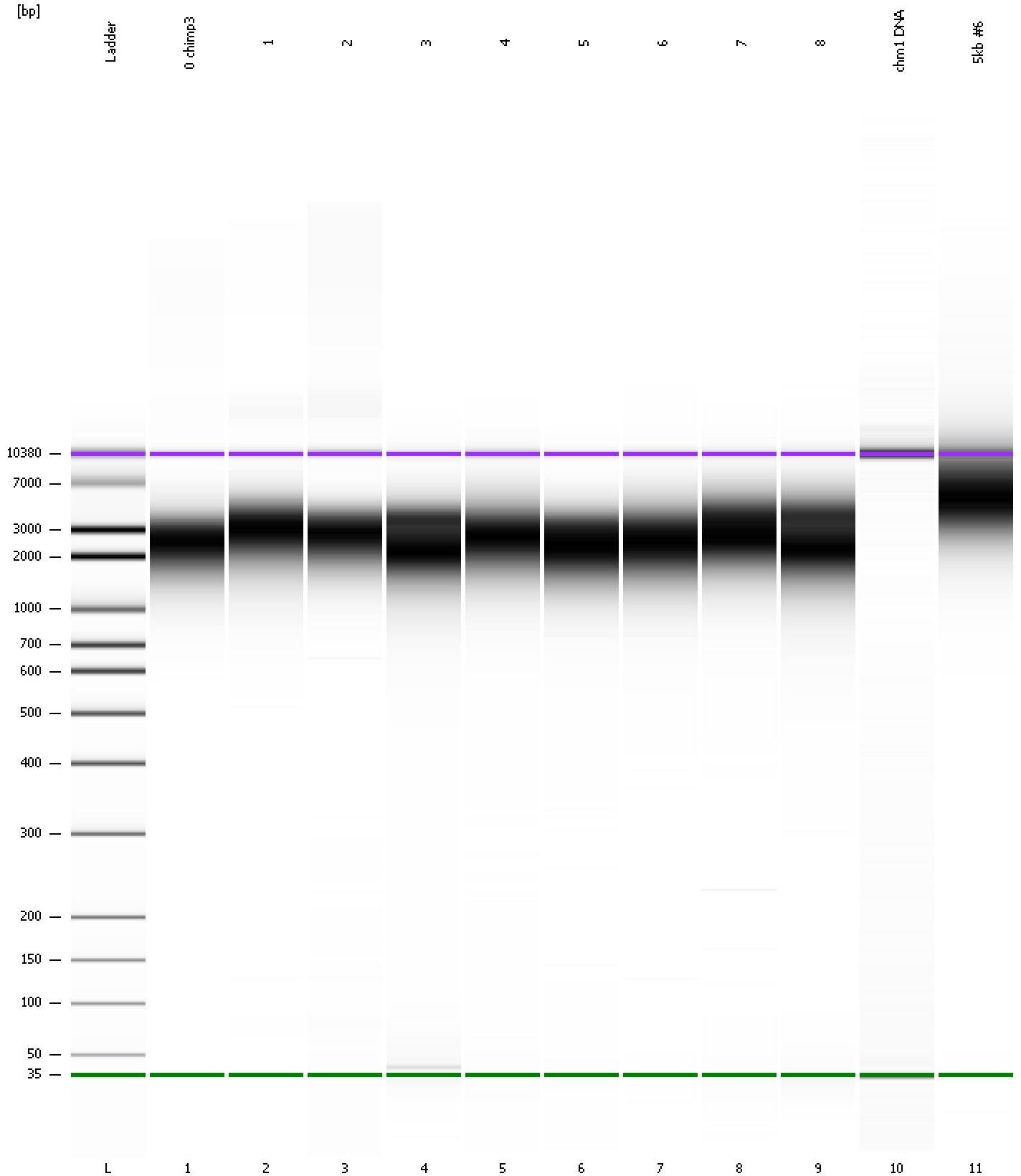
Region table for sample 11 : 5kb #6

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	3,499	51.33	470.4	22.2	10	8.2
5,000	6,000	5,468	85.52	772.5	23.7	17	5.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
Modified: 7/2/2019 5:35:27 PM

Gel Image

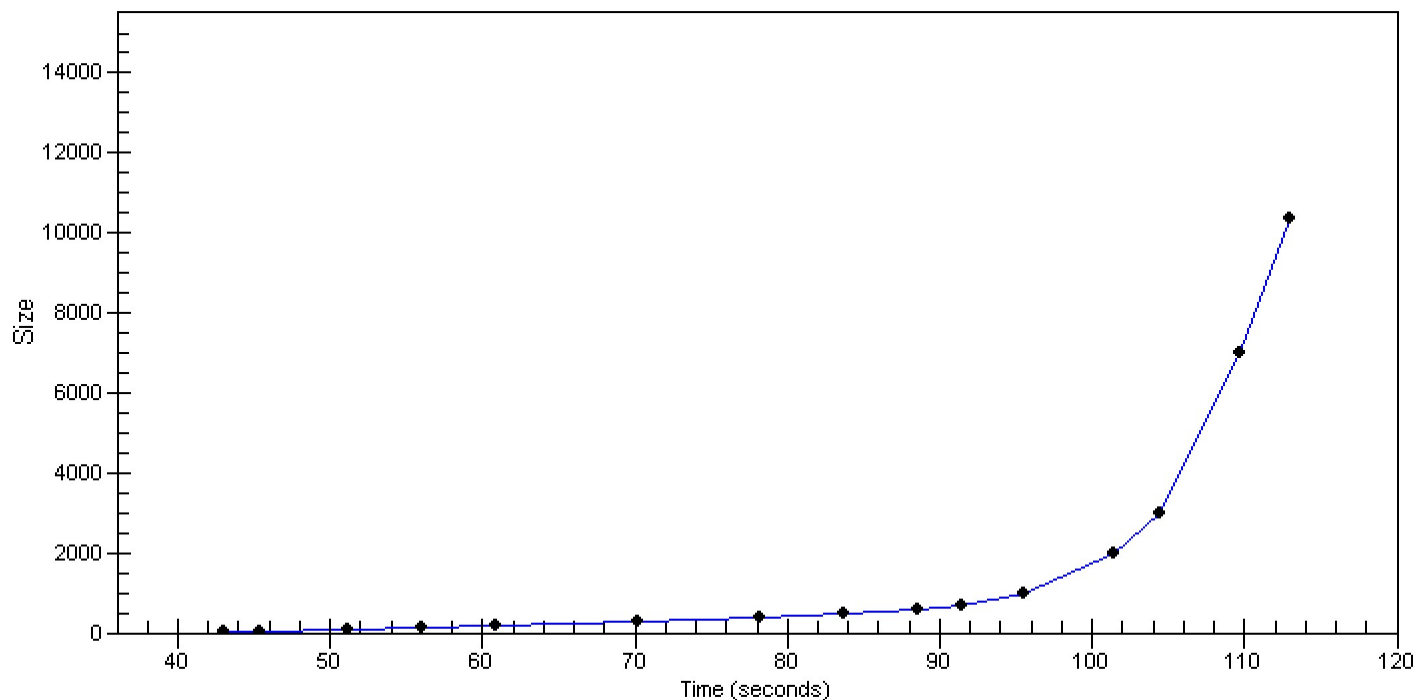


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad

Created: 7/2/2019 4:52:36 PM
Modified: 7/2/2019 5:35:27 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay Created: 7/2/2019 4:52:36 PM
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad Modified: 7/2/2019 5:35:27 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		7/2/2019 5:33:54 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\2019-07-02\2019-07-02_002.xad)		Instrument	Run		7/2/2019 4:52:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/2/2019 4:52:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/2/2019 4:52:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/2/2019 4:52:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/2/2019 4:52:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/2/2019 4:52:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/2/2019 4:52:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1