

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_004.xad

Created: 6/1/2016 12:30:08 PM
Modified: 6/1/2016 1:10:39 PM

Electrophoresis File Run Summary

Instrument Information:

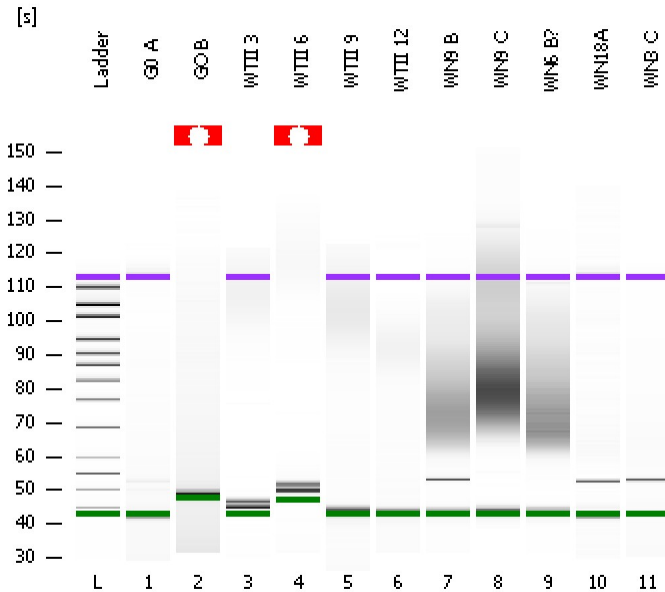
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:

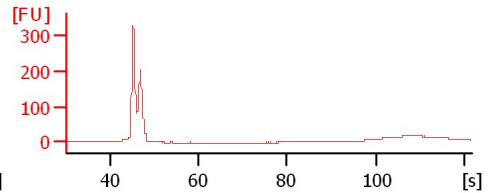
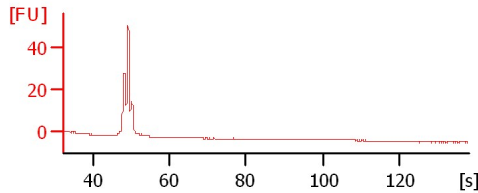
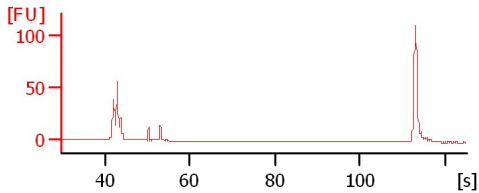
Chip Lot #: Reagent Kit Lot #: Chip Comments:



GO A

GO B

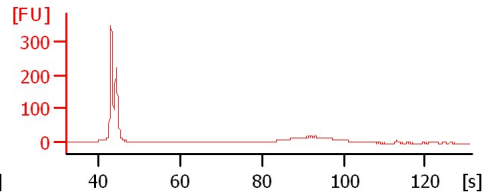
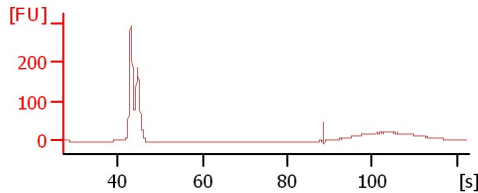
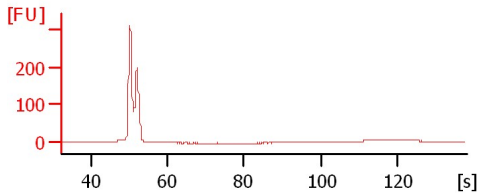
WTII 3



WTII 6

WTII 9

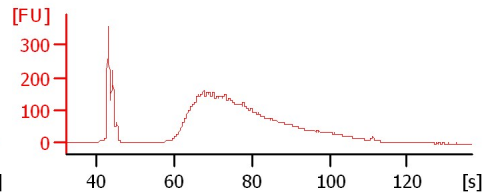
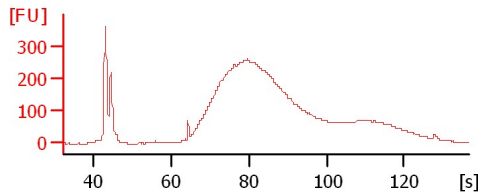
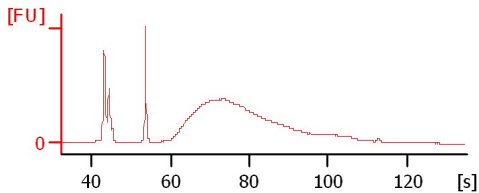
WTII 12



WN9 B

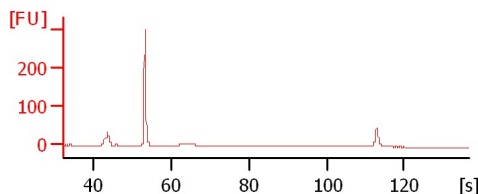
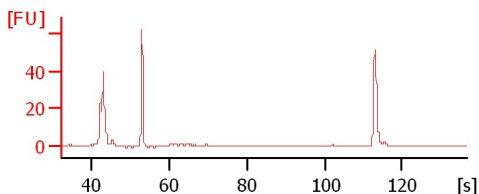
WN9 C

WN6 B?



WN18A

WN3 C



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 Modified: 6/1/2016 1:10:39 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
G0 A		<input type="checkbox"/>	✓			
GO B		<input type="checkbox"/>	✓			
WTII 3		<input type="checkbox"/>	✓			
WTII 6		<input type="checkbox"/>	✓			
WTII 9		<input type="checkbox"/>	✓			
WTII 12		<input type="checkbox"/>	✓			
WN9 B		<input type="checkbox"/>	✓			
WN9 C		<input type="checkbox"/>	✓			
WN6 B?		<input type="checkbox"/>	✓			
WN18A		<input type="checkbox"/>	✓			
WN3 C		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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Created: 6/1/2016 12:30:08 PM
Modified: 6/1/2016 1:10:39 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

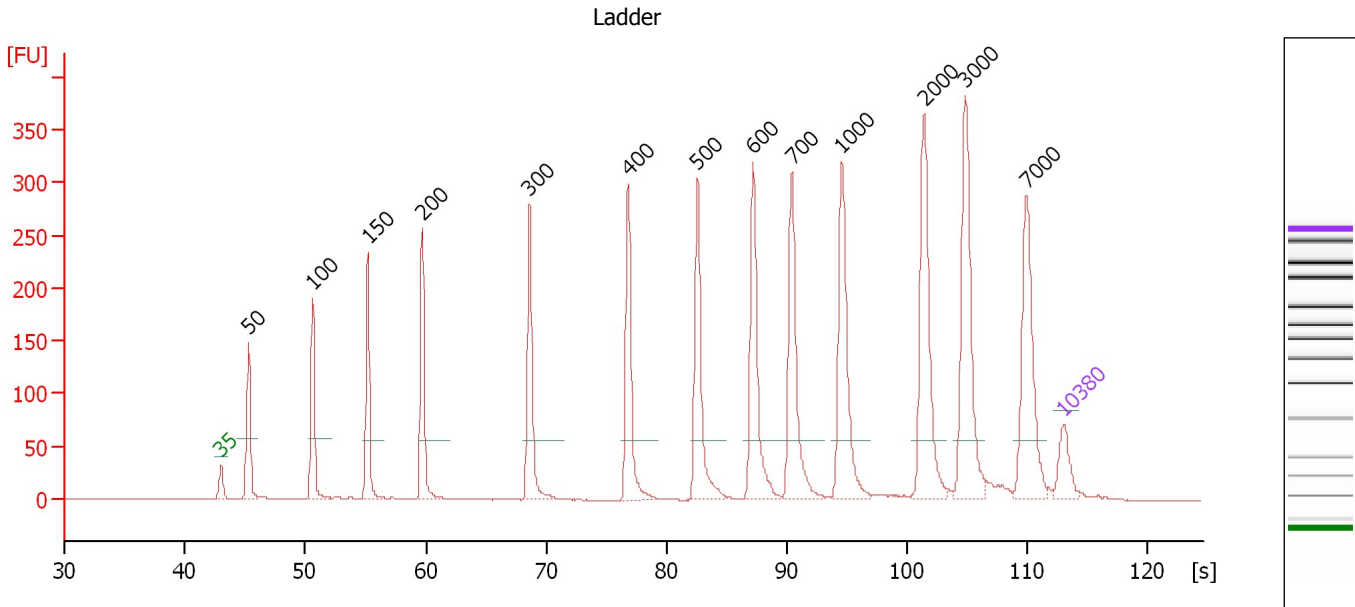
Ladder

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

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Created: 6/1/2016 12:30:08 PM
 Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

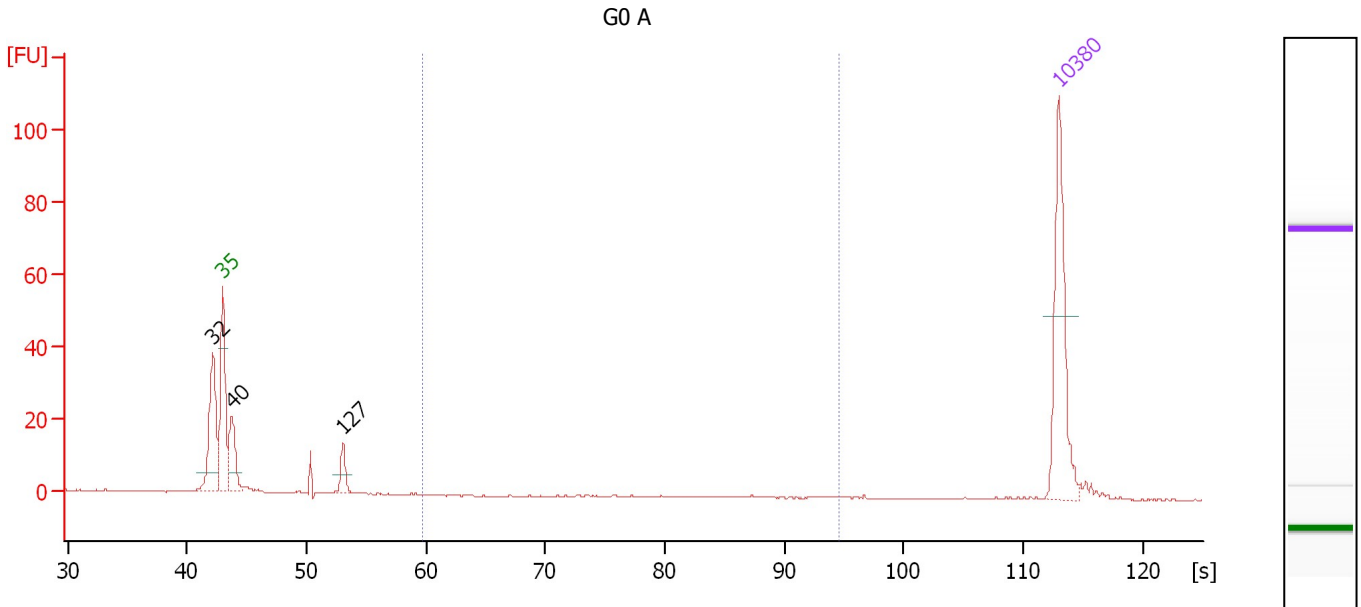
Peak table for Ladder

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	45.28
3	100	150.00	2,272.7	Ladder Peak	50.58
4	150	150.00	1,515.2	Ladder Peak	55.18
5	200	150.00	1,136.4	Ladder Peak	59.69
6	300	150.00	757.6	Ladder Peak	68.61
7	400	150.00	568.2	Ladder Peak	76.82
8	500	150.00	454.5	Ladder Peak	82.57
9	600	150.00	378.8	Ladder Peak	87.21
10	700	150.00	324.7	Ladder Peak	90.43
11	1,000	150.00	227.3	Ladder Peak	94.57
12	2,000	150.00	113.6	Ladder Peak	101.40
13	3,000	150.00	75.8	Ladder Peak	104.79
14	7,000	150.00	32.5	Ladder Peak	109.88
15	10,380	75.00	10.9	Upper Marker	113.00

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Created: 6/1/2016 12:30:08 PM
 Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : GO A

Number of peaks found: 3 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 1 : GO A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.15
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	49.09	1,857.5		43.76
4	127	19.11	227.9		53.07
5	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 1 : GO A

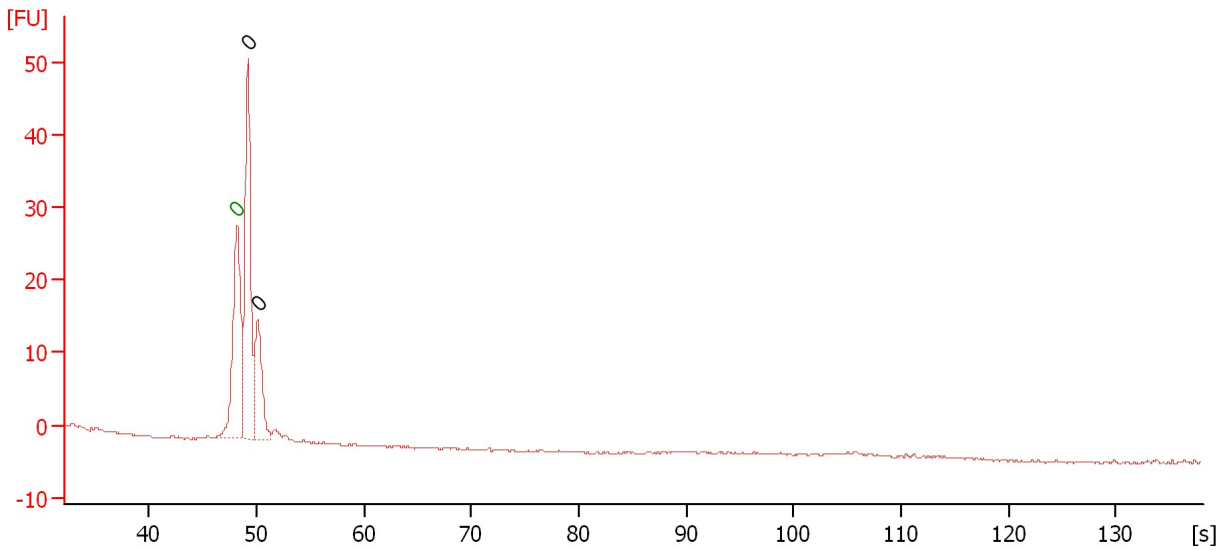
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	705	0.0	0.0	0.01	0	23.2

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Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_004.xad

Created: 6/1/2016 12:30:08 PM
Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary Continued ...

GO B



Overall Results for sample 2 : GO B

Number of peaks found: 2 Noise: 0.1

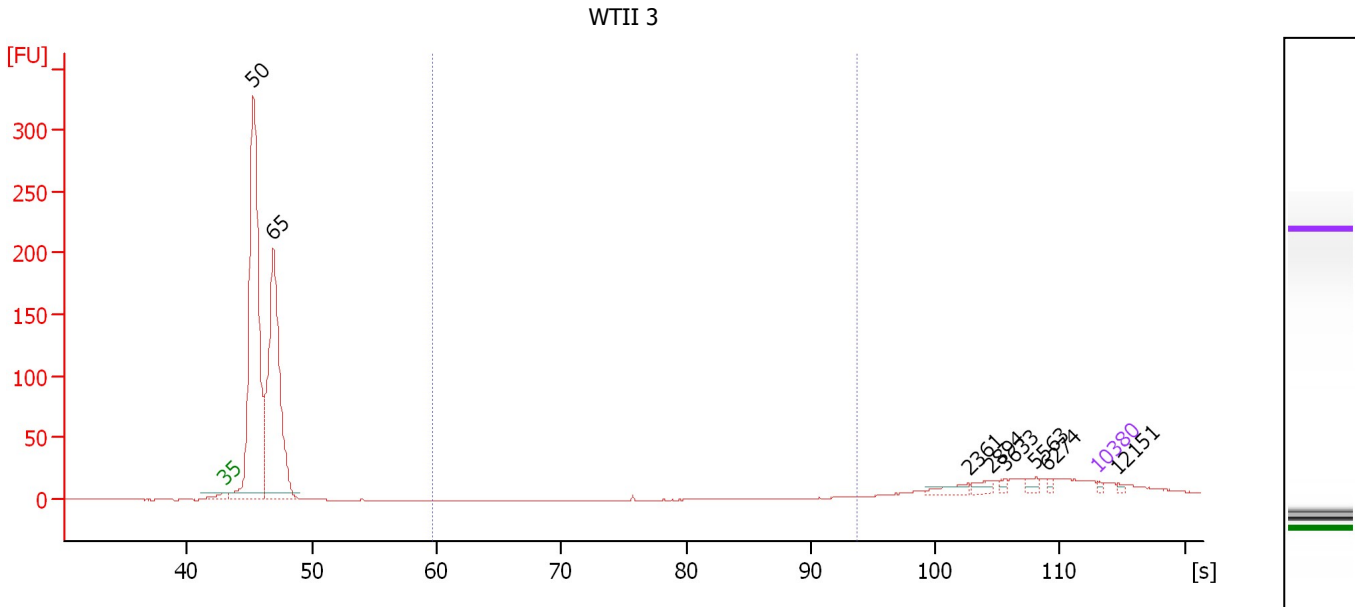
Peak table for sample 2 : GO B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	48.20
2	0	0.00	0.0		49.20
3	0	0.00	0.0		50.10

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_004.xad

Created: 6/1/2016 12:30:08 PM
 Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : WTII 3

Number of peaks found: 8 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 3 : WTII 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	50	23,997.71	720,499.9		45.32
3	65	17,154.28	397,017.7		46.92
4	2,361	367.55	235.9		102.62
5	2,894	291.12	152.4		104.43
6	3,633	125.06	52.2		105.60
7	5,563	236.39	64.4		108.05
8	6,274	123.64	29.9		108.95
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,151	0.00	0.0		114.64

Region table for sample 3 : WTII 3

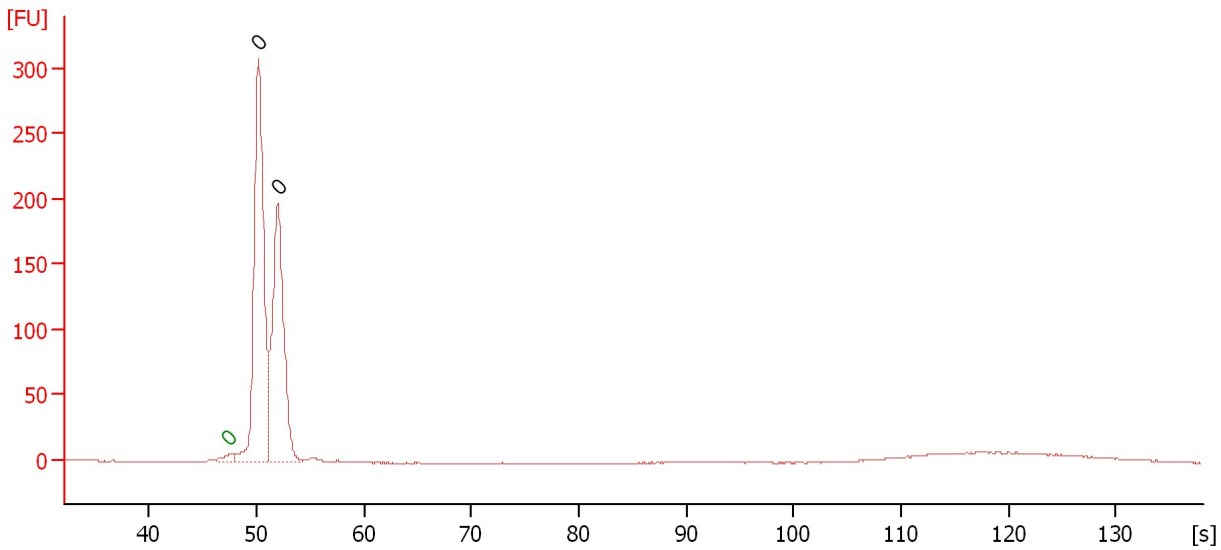
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	935	387	0.0	0.0	0.00	0	0.0

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Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_004.xad

Created: 6/1/2016 12:30:08 PM
Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary Continued ...

WTII 6



Overall Results for sample 4 : WTII 6

Number of peaks found: 2 Noise: 0.3

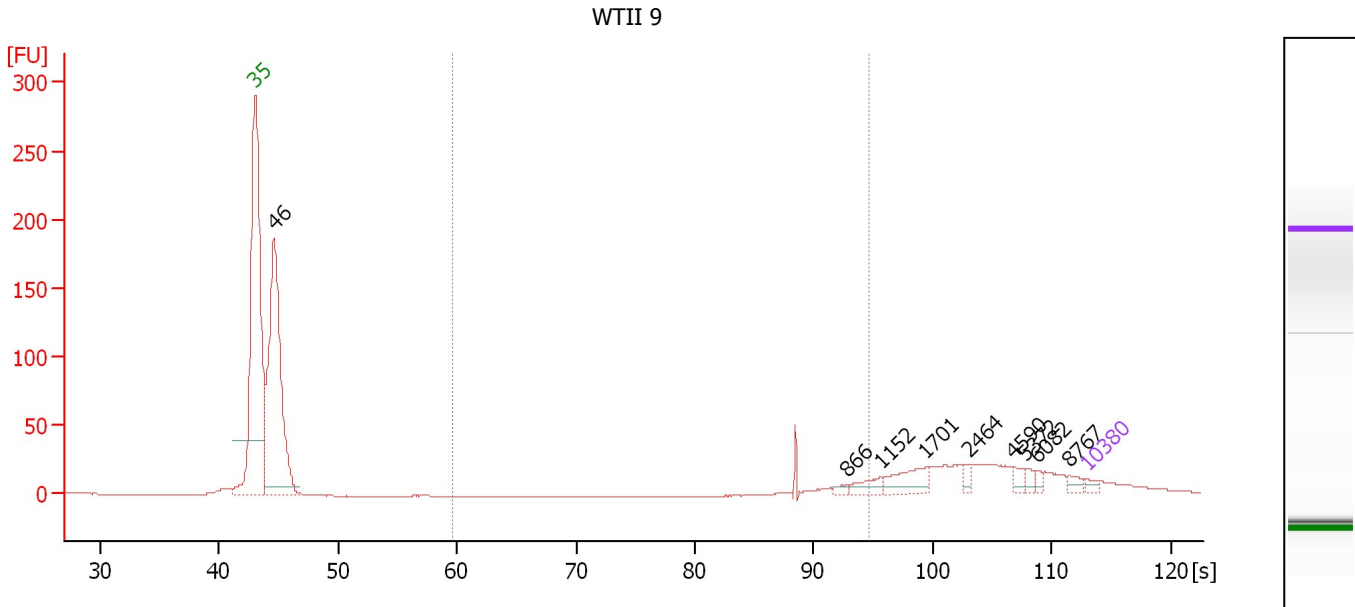
Peak table for sample 4 : WTII 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	47.45
2	0	0.00	0.0		50.15
3	0	0.00	0.0		51.95

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_004.xad

Created: 6/1/2016 12:30:08 PM
 Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WTII 9

Number of peaks found: 9 Corr. Area 1: 32.9
 Noise: 0.2

Peak table for sample 5 : WTII 9

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	46	8,031.14	266,161.7		44.63
3	866	83.39	145.9		92.72
4	1,152	250.18	329.0		95.61
5	1,701	537.62	478.8		99.36
6	2,464	122.79	75.5		102.97
7	4,590	135.53	44.7		106.81
8	5,372	104.41	29.5		107.81
9	6,082	84.26	21.0		108.71
10	8,767	120.11	20.8		111.51
11	10,380	75.00	10.9	Upper Marker	113.00

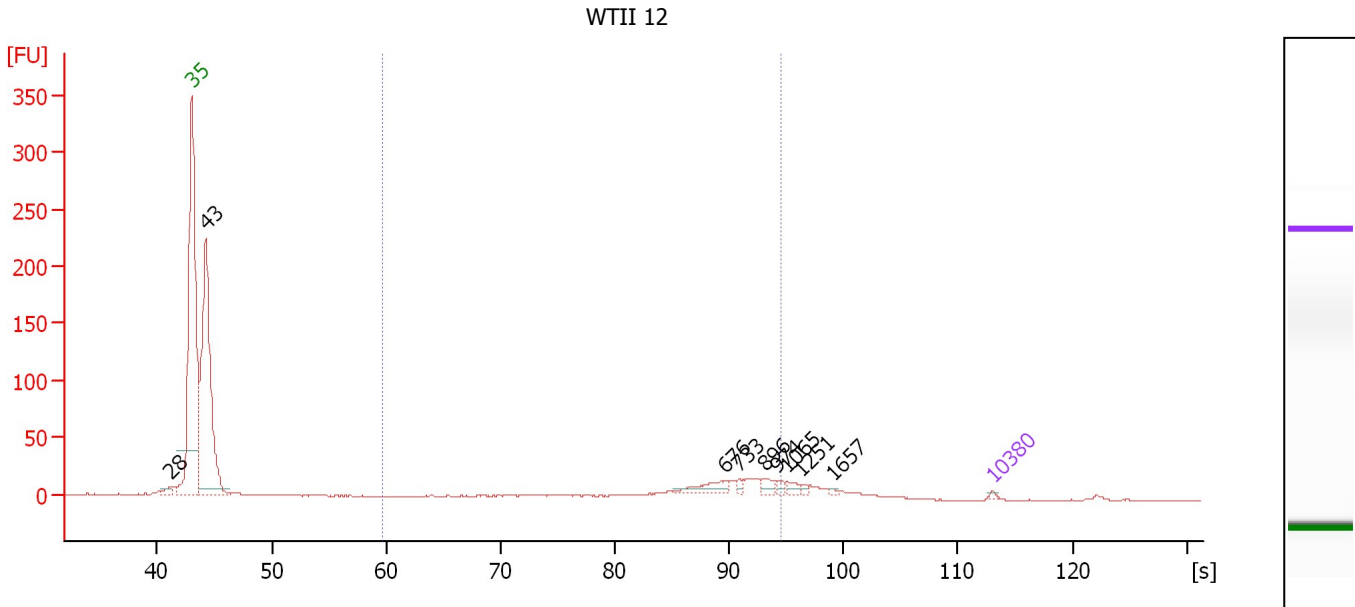
Region table for sample 5 : WTII 9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	801	32.9	659.9	338.67	4	16.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_004.xad

Created: 6/1/2016 12:30:08 PM
 Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : WTII 12

Number of peaks found: 9 Corr. Area 1: 200.1
 Noise: 0.5

Peak table for sample 6 : WTII 12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		41.08
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	23,159.83	815,167.8		44.22
4	676	1,083.71	2,427.6		89.67
5	733	254.99	526.8		90.89
6	896	496.66	839.5		93.14
7	974	225.84	351.2		94.22
8	1,065	359.13	510.9		95.02
9	1,251	157.60	190.9		96.29
10	1,657	102.20	93.5		99.06
11	10,380	75.00	10.9	Upper Marker	113.00

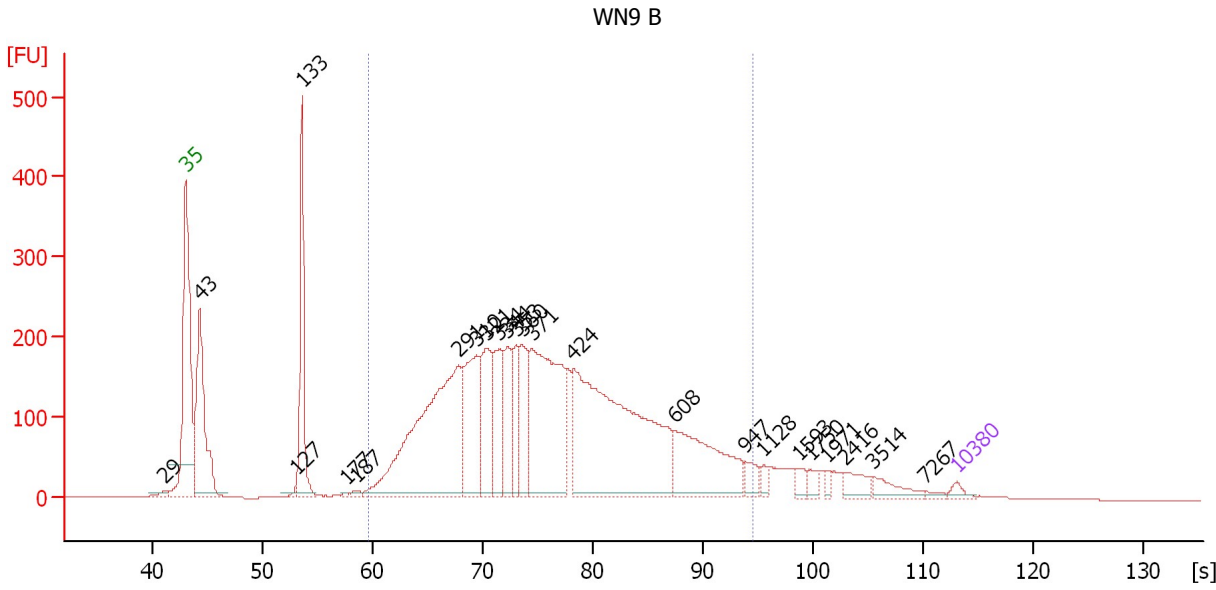
Region table for sample 6 : WTII 12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	671	200.1	15,808.4	6,070.20	24	27.1

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_004.xad

Created: 6/1/2016 12:30:08 PM
 Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : WN9 B

Number of peaks found: 24 Corr. Area 1: 5,490.4
 Noise: 0.3

Peak table for sample 7 : WN9 B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	29	0.00	0.0		41.15
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	3,293.45	115,097.2		44.27
4	127	81.33	972.3		53.04
5	133	2,522.98	28,834.9		53.58
6	177	42.89	366.9		57.62
7	187	78.59	637.2		58.50
8	291	5,849.03	30,446.7		67.81
9	310	2,118.90	10,359.9		69.42
10	321	1,487.60	7,030.8		70.30
11	334	1,198.14	5,431.4		71.42
12	344	935.37	4,123.0		72.20
13	353	865.05	3,710.4		72.98
14	360	1,089.35	4,587.7		73.52
15	371	3,761.42	15,359.3		74.44
16	424	6,352.56	22,704.4		78.19
17	608	1,991.23	4,965.5		87.46
18	947	252.75	404.3		93.84
19	1,128	115.54	155.1		95.45
20	1,593	148.01	140.8		98.62
21	1,750	126.15	109.2		99.69
22	1,971	72.50	55.7		101.20
23	2,416	251.59	157.8		102.81
24	3,514	243.69	105.1		105.44
25	7,267	41.90	8.7		110.12

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Created: 6/1/2016 12:30:08 PM
 Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary Continued ...

... Peak table for sample 7 : WN9 B

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

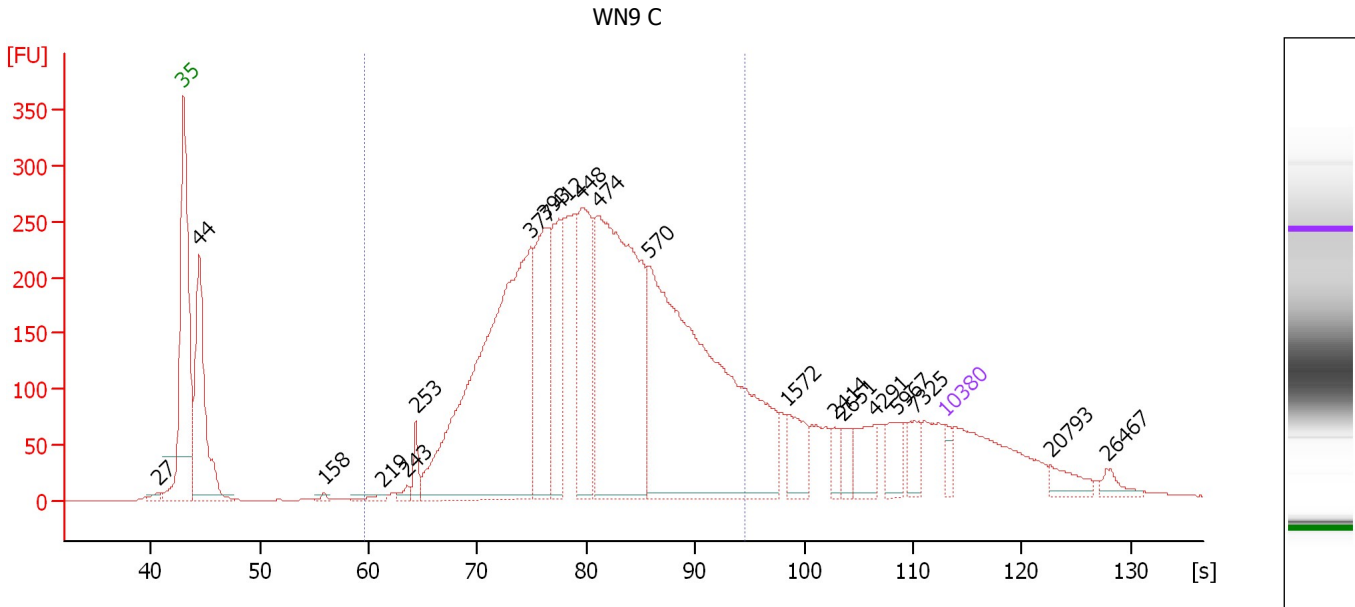
Region table for sample 7 : WN9 B

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
200	1,000	419	5,490.4	111,560.2	26,564.02	79	35.9

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Created: 6/1/2016 12:30:08 PM
 Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : WN9 C

Number of peaks found: 20 Corr. Area 1: 5,968.8
 Noise: 0.2


Peak table for sample 8 : WN9 C

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	27	0.00	0.0		40.70
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	1,603.10	54,588.6		44.44
4	158	25.89	248.1		55.91
5	219	50.04	346.2		61.38
6	243	53.56	334.1		63.51
7	253	138.77	832.6		64.37
8	377	3,947.35	15,870.4		74.92
9	393	1,095.69	4,224.3		76.24
10	412	785.37	2,888.0		77.51
11	448	1,088.24	3,679.9		79.58
12	474	3,118.92	9,967.6		81.08
13	570	3,921.35	10,429.2		85.81
14	1,572	271.58	261.7		98.48
15	2,414	101.14	63.5		102.80
16	2,651	111.51	63.7		103.61
17	4,291	230.64	81.4		106.43
18	5,967	173.94	44.2		108.56
19	7,325	136.59	28.3		110.18
20	10,380	75.00	10.9	Upper Marker	113.00
21	20,793	0.00	0.0		122.62
22	26,467	0.00	0.0		127.86

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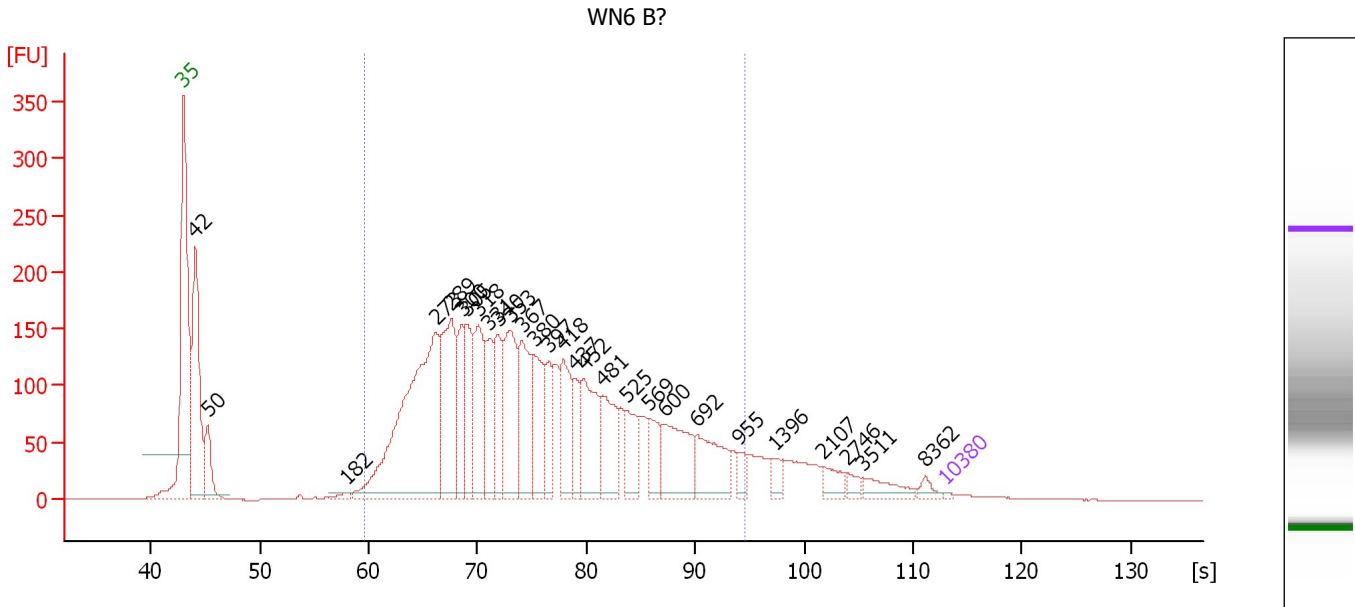
Electropherogram Summary Continued ...**... Region table for sample 8 : WN9 C**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	490	5,968.8	50,947.1	 14,595.08	74	31.4

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Created: 6/1/2016 12:30:08 PM
 Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : WN6 B?

Number of peaks found: 28 Corr. Area 1: 4,420.4
 Noise: 0.3

Peak table for sample 9 : WN6 B?

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	42	17,931.60	642,156.2		44.11
3	50	4,487.09	137,018.5		45.22
4	182	521.23	4,337.9		58.07
5	273	30,079.02	167,057.5		66.18
6	289	12,128.87	63,672.2		67.59
7	300	4,965.76	25,086.6		68.60
8	305	6,058.41	30,053.6		69.05
9	318	7,857.04	37,397.5		70.11
10	331	5,294.35	24,263.9		71.12
11	340	5,574.52	24,855.6		71.88
12	353	8,636.65	37,036.9		72.99
13	367	7,219.16	29,818.4		74.09
14	380	6,225.47	24,800.8		75.20
15	397	3,395.60	12,962.4		76.56
16	418	5,474.32	19,826.3		77.87
17	437	2,665.28	9,246.4		78.93
18	452	6,806.18	22,833.8		79.79
19	481	5,680.16	17,877.6		81.50
20	525	3,377.79	9,753.5		83.72
21	569	2,762.55	7,353.0		85.79
22	600	6,004.37	15,171.0		87.20
23	692	5,151.93	11,279.0		90.17
24	955	1,010.61	1,603.6		93.95
25	1,396	983.41	1,067.4		97.28

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_004.xad

Created: 6/1/2016 12:30:08 PM
 Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary Continued ...

... Peak table for sample 9 : WN6 B?

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,107	1,205.90	867.3		101.76
27	2,746	638.96	352.6		103.93
28	3,511	1,395.33	602.2		105.44
29	8,362	533.95	96.8		111.14
30	10,380	75.00	10.9	Upper Marker	113.00

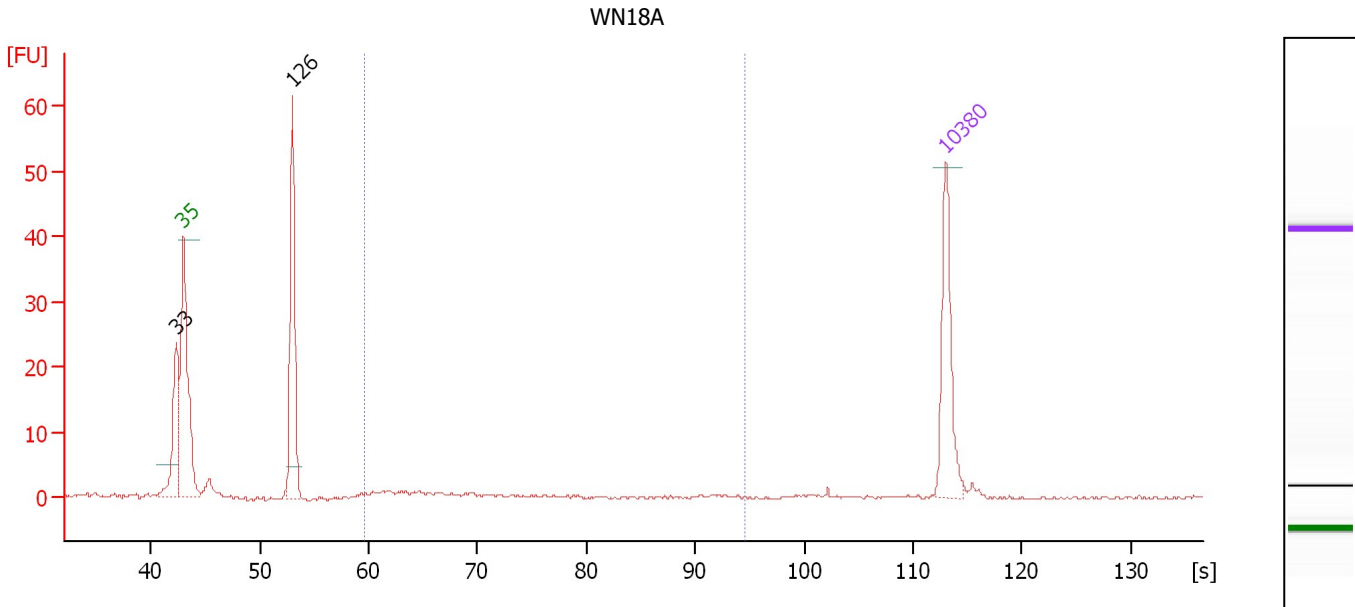
Region table for sample 9 : WN6 B?

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	411	4,420.4	627,675.0	144,843.63	82	37.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_004.xad

Created: 6/1/2016 12:30:08 PM
 Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : WN18A

Number of peaks found: 2 Corr. Area 1: 11.5
 Noise: 0.2

Peak table for sample 10 : WN18A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.33
2	35	125.00	5,411.3	Lower Marker	43.00
3	126	183.49	2,201.5		53.00
4	10,380	75.00	10.9	Upper Marker	113.00

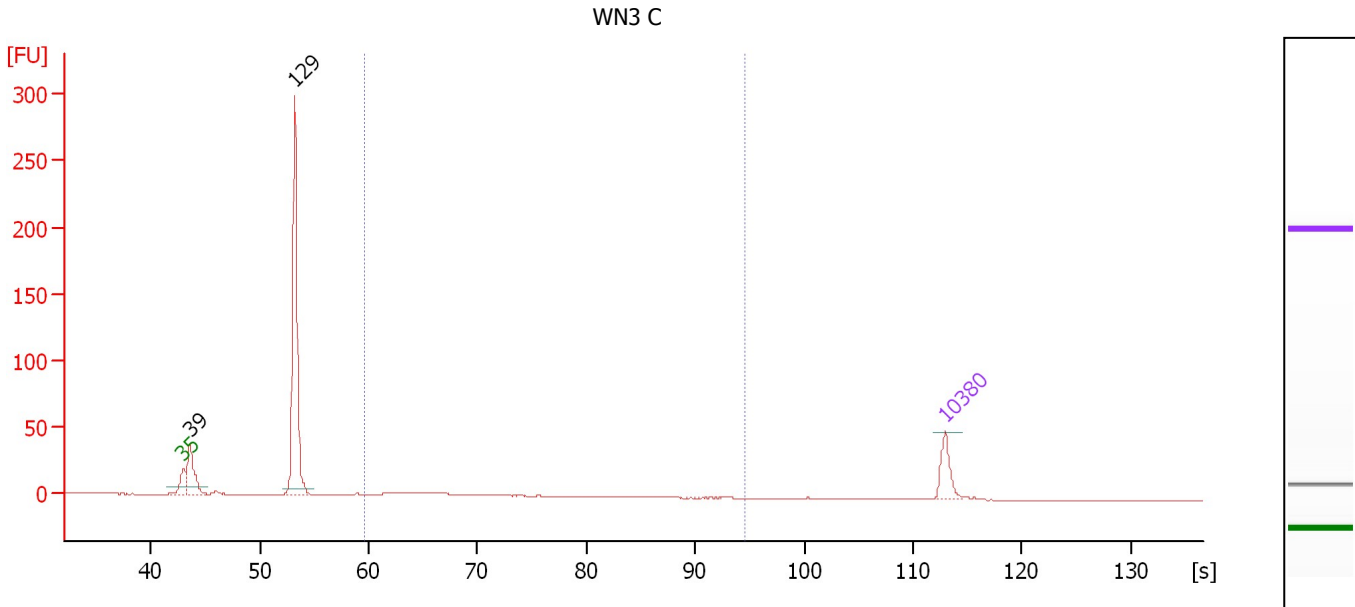
Region table for sample 10 : WN18A

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	325	11.5	177.4	32.09	10	50.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_004.xad

Created: 6/1/2016 12:30:08 PM
 Modified: 6/1/2016 1:10:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : WN3 C

Number of peaks found: 2 Corr. Area 1: 31.2
 Noise: 0.1

Peak table for sample 11 : WN3 C

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	39	230.34	8,942.6		43.61
3	129	956.94	11,255.7		53.23
4	10,380	75.00	10.9	Upper Marker	113.00

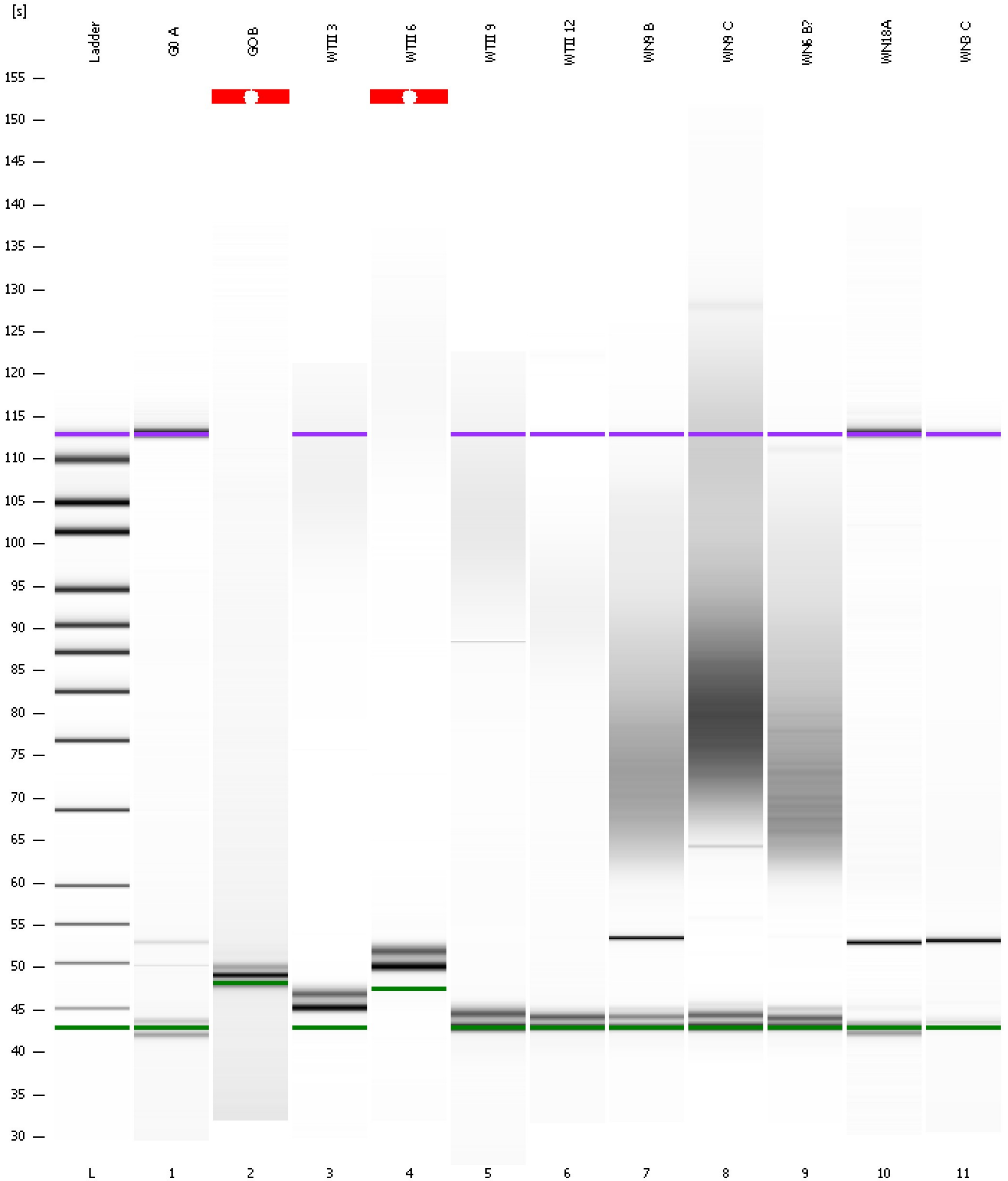
Region table for sample 11 : WN3 C

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	283	31.2	499.4	89.45	8	22.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_004.xad

Created: 6/1/2016 12:30:08 PM
Modified: 6/1/2016 1:10:39 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_004.xad

Created: 6/1/2016 12:30:08 PM
 Modified: 6/1/2016 1:10:39 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		6/1/2016 1:10:36 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\2016-06-01\2016-06-01_004.xad)		Instrument	Run		6/1/2016 12:30:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/1/2016 12:30:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/1/2016 12:30:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/1/2016 12:30:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/1/2016 12:30:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/1/2016 12:30:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/1/2016 12:30:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1