

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_005.xad

Created: 4/4/2014 1:10:33 PM
Modified: 4/4/2014 1:55:25 PM

Electrophoresis File Run Summary

Instrument Information:

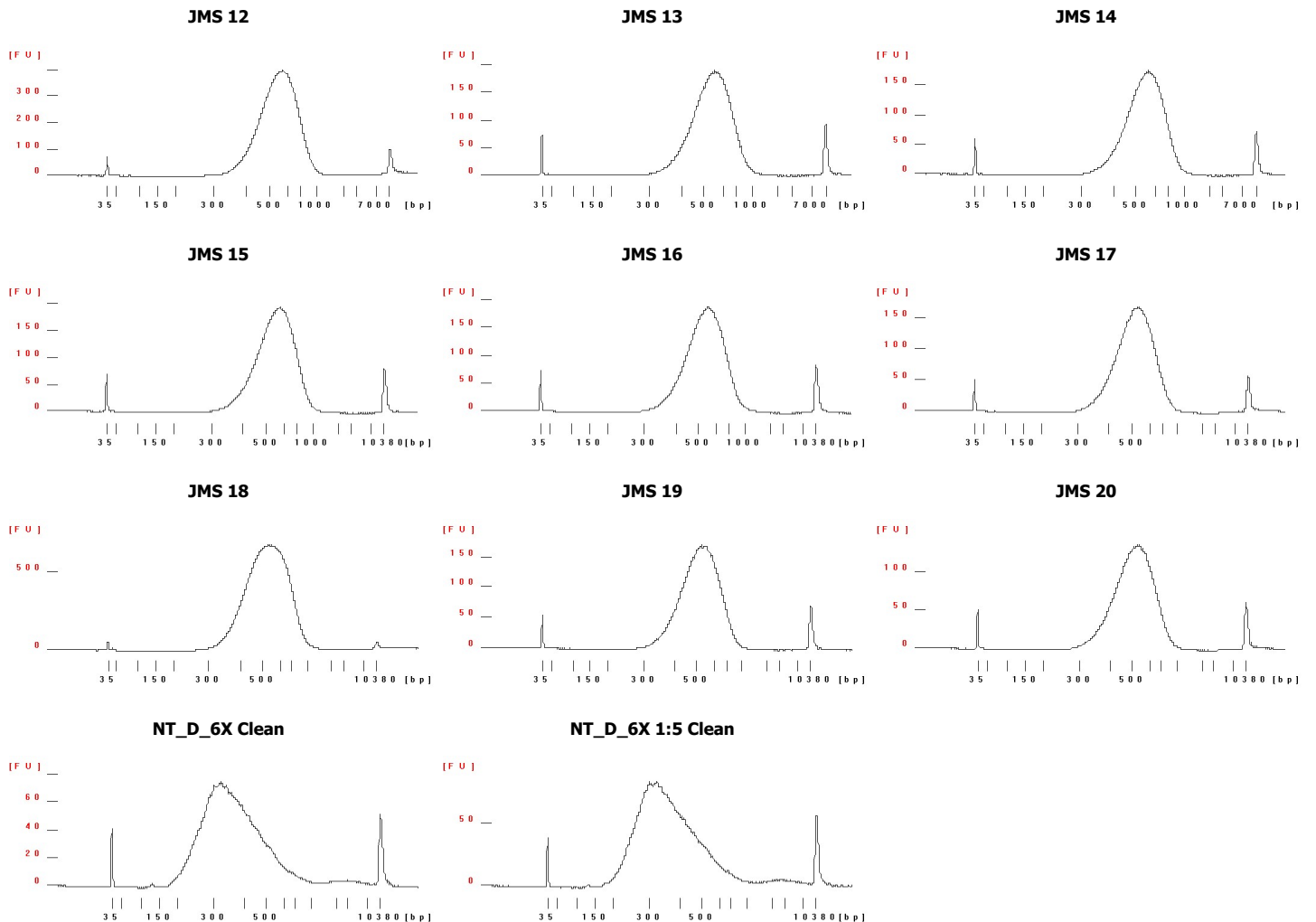
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JMS 12		<input type="checkbox"/>				
JMS 13		<input type="checkbox"/>				
JMS 14		<input type="checkbox"/>				
JMS 15		<input type="checkbox"/>				
JMS 16		<input type="checkbox"/>				
JMS 17		<input type="checkbox"/>				
JMS 18		<input type="checkbox"/>				
JMS 19		<input type="checkbox"/>				
JMS 20		<input type="checkbox"/>				
NT_D_6X Clean		<input type="checkbox"/>				
NT_D_6X 1:5 Clean		<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

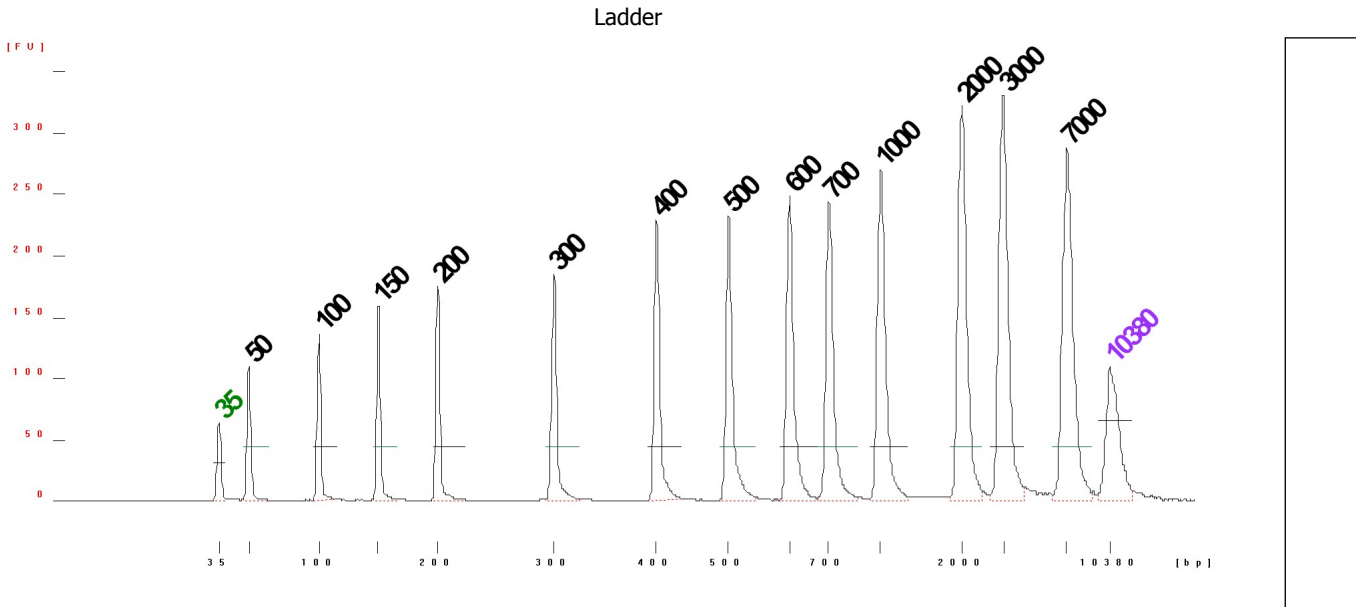
Ladder

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

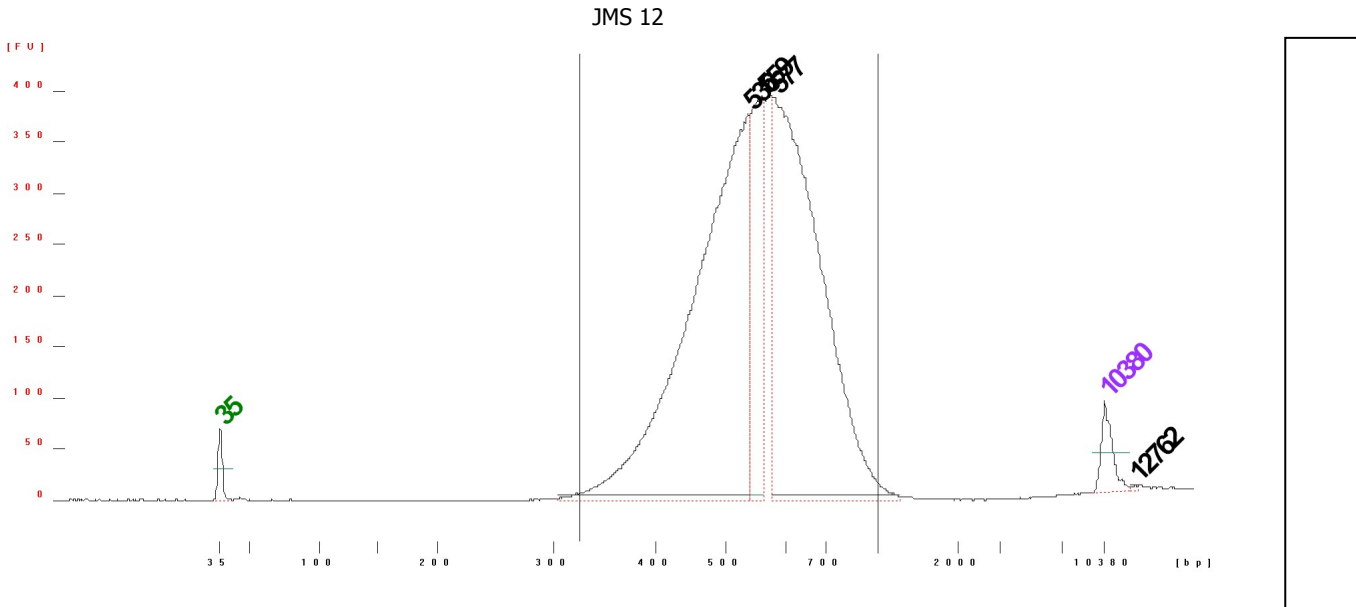
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.35	50	150.00	4,545.5	Ladder Peak
3	50.88	100	150.00	2,272.7	Ladder Peak
4	55.53	150	150.00	1,515.2	Ladder Peak
5	60.19	200	150.00	1,136.4	Ladder Peak
6	69.37	300	150.00	757.6	Ladder Peak
7	77.41	400	150.00	568.2	Ladder Peak
8	83.07	500	150.00	454.5	Ladder Peak
9	87.85	600	150.00	378.8	Ladder Peak
10	90.95	700	150.00	324.7	Ladder Peak
11	95.02	1,000	150.00	227.3	Ladder Peak
12	101.39	2,000	150.00	113.6	Ladder Peak
13	104.66	3,000	150.00	75.8	Ladder Peak
14	109.65	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...



Overall Results for sample 1 : JMS 12

Number of peaks found: 4 Corr. Area 1: 5,173.7
 Noise: 0.2

Peak table for sample 1 : JMS 12

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	84.77	536	2,987.35	8,451.1	
3	85.87	559	626.16	1,698.6	
4	86.76	577	2,540.93	6,671.3	
5	113.00	10,380	75.00	10.9	Upper Marker
6	115.36	12,762	0.00	0.0	

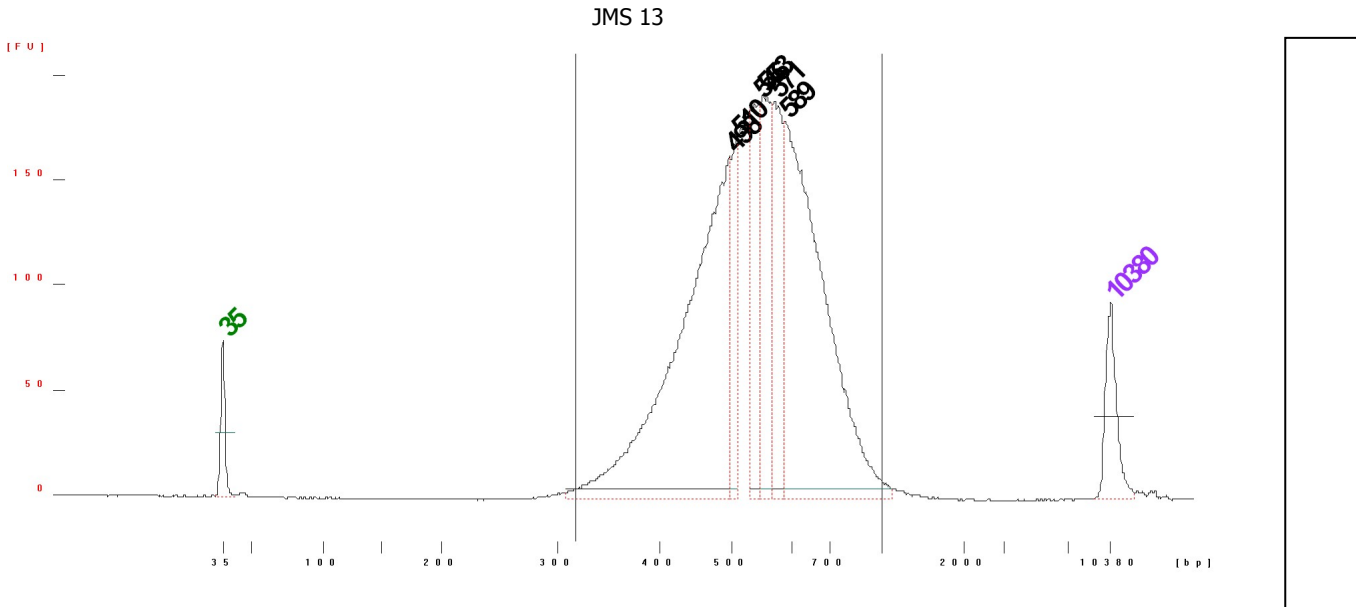
Region table for sample 1 : JMS 12

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
327	1,000	561	17,902.9	6,346.12	5,173.7	100	18.4

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Electropherogram Summary Continued ...



Overall Results for sample 2 : JMS 13

Number of peaks found: 6 Corr. Area 1: 2,637.5
 Noise: 0.3

Peak table for sample 2 : JMS 13

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	82.94	498	1,095.56	3,335.4	
3	83.53	510	135.10	401.7	
4	85.25	546	231.12	641.8	
5	85.59	553	233.00	638.8	
6	86.47	571	252.41	669.6	
7	87.31	589	865.64	2,227.8	
8	113.00	10,380	75.00	10.9	Upper Marker

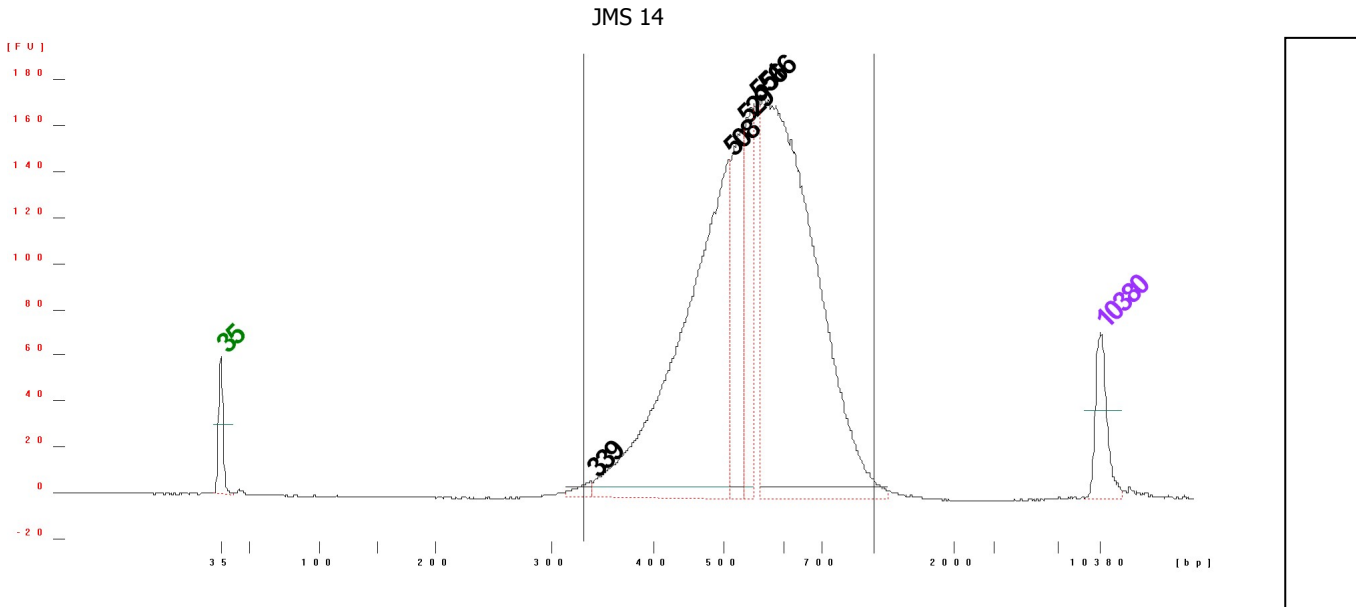
Region table for sample 2 : JMS 13

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
319	1,000	549	8,830.5	3,049.74	■ 2,637.5	99	19.2

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Electropherogram Summary Continued ...



Overall Results for sample 3 : JMS 14

Number of peaks found: 5 Corr. Area 1: 2,325.2
 Noise: 0.2

Peak table for sample 3 : JMS 14

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	72.50	339	22.78	101.8	
3	83.45	508	1,183.88	3,530.9	
4	84.47	529	291.38	834.0	
5	85.49	551	254.61	700.6	
6	86.21	566	1,462.82	3,917.6	
7	113.00	10,380	75.00	10.9	Upper Marker

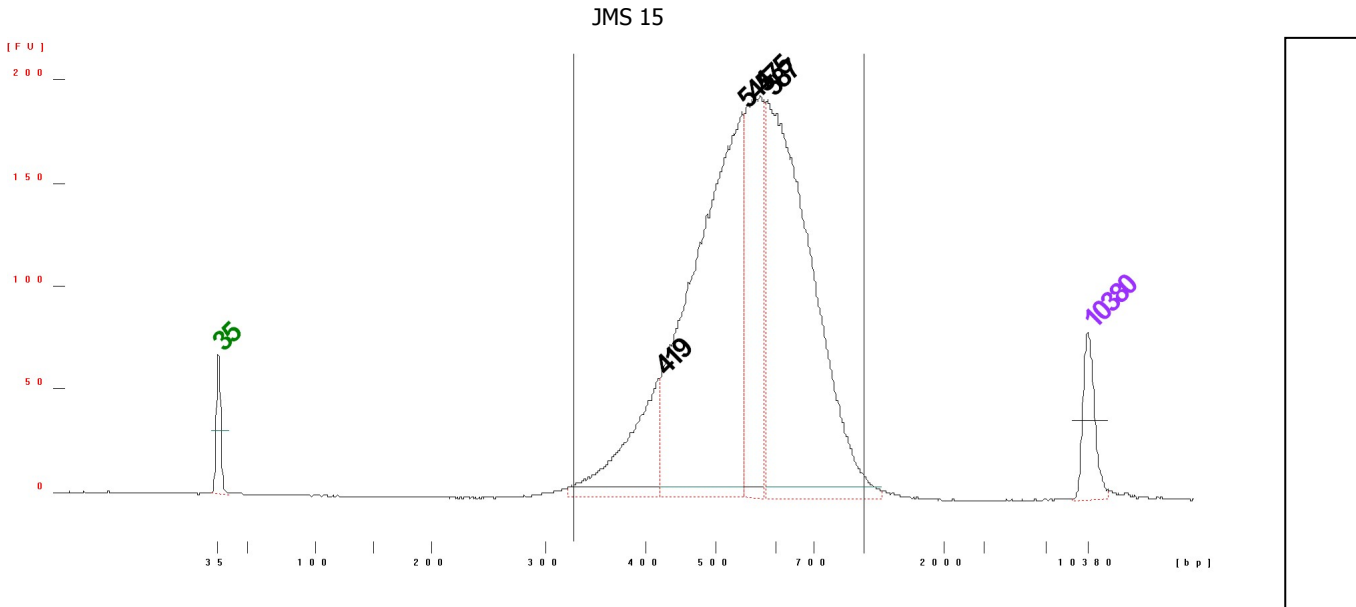
Region table for sample 3 : JMS 14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
332	1,000	559	9,346.5	3,292.18	2,325.2	99	18.9

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Electropherogram Summary Continued ...



Overall Results for sample 4 : JMS 15

Number of peaks found: 4 Corr. Area 1: 2,636.2
 Noise: 0.2

Peak table for sample 4 : JMS 15

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	78.47	419	293.49	1,062.0	
3	85.17	544	1,255.12	3,496.1	
4	86.63	575	443.58	1,169.9	
5	87.23	587	1,175.09	3,032.7	
6	113.00	10,380	75.00	10.9	Upper Marker

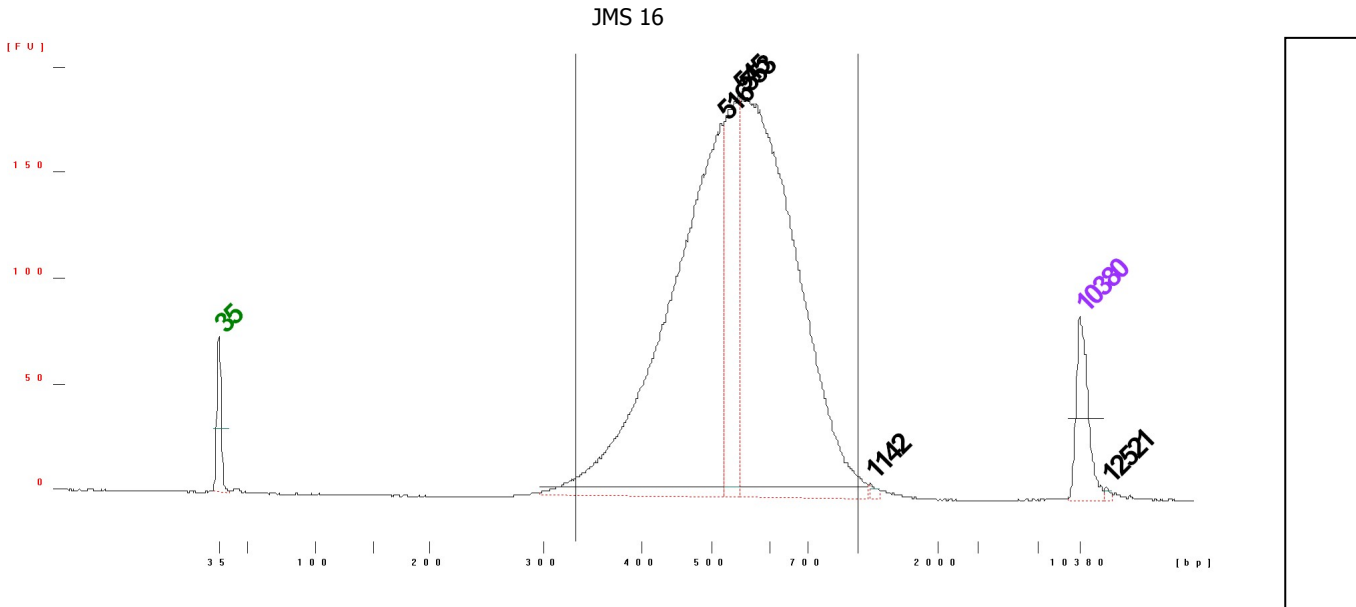
Region table for sample 4 : JMS 15

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
328	1,000	564	9,077.1	3,217.08	2,636.2	99	19.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_005.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : JMS 16

Number of peaks found: 5 Corr. Area 1: 2,614.3
 Noise: 0.2

Peak table for sample 5 : JMS 16

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	83.83	516	1,275.31	3,745.7	
3	85.22	545	331.30	921.2	
4	85.61	553	1,341.40	3,674.9	
5	95.92	1,142	5.04	6.7	
6	113.00	10,380	75.00	10.9	Upper Marker
7	115.12	12,521	0.00	0.0	

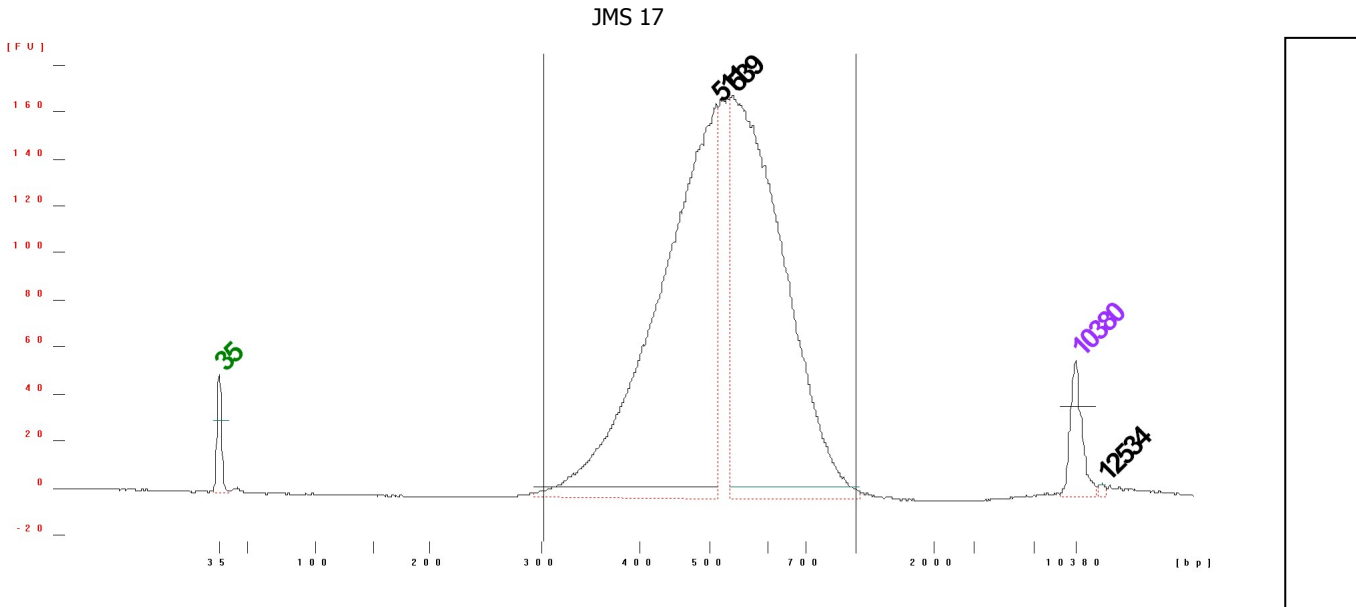
Region table for sample 5 : JMS 16

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
333	1,000	548	8,450.0	2,916.60	2,614.3	98	19.3

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



Overall Results for sample 6 : JMS 17

Number of peaks found: 3 Corr. Area 1: 2,323.4
 Noise: 0.2

Peak table for sample 6 : JMS 17

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	83.60	511	1,931.13	5,724.3	
3	84.91	539	1,785.41	5,023.3	
4	113.00	10,380	75.00	10.9	Upper Marker
5	115.14	12,534	0.00	0.0	

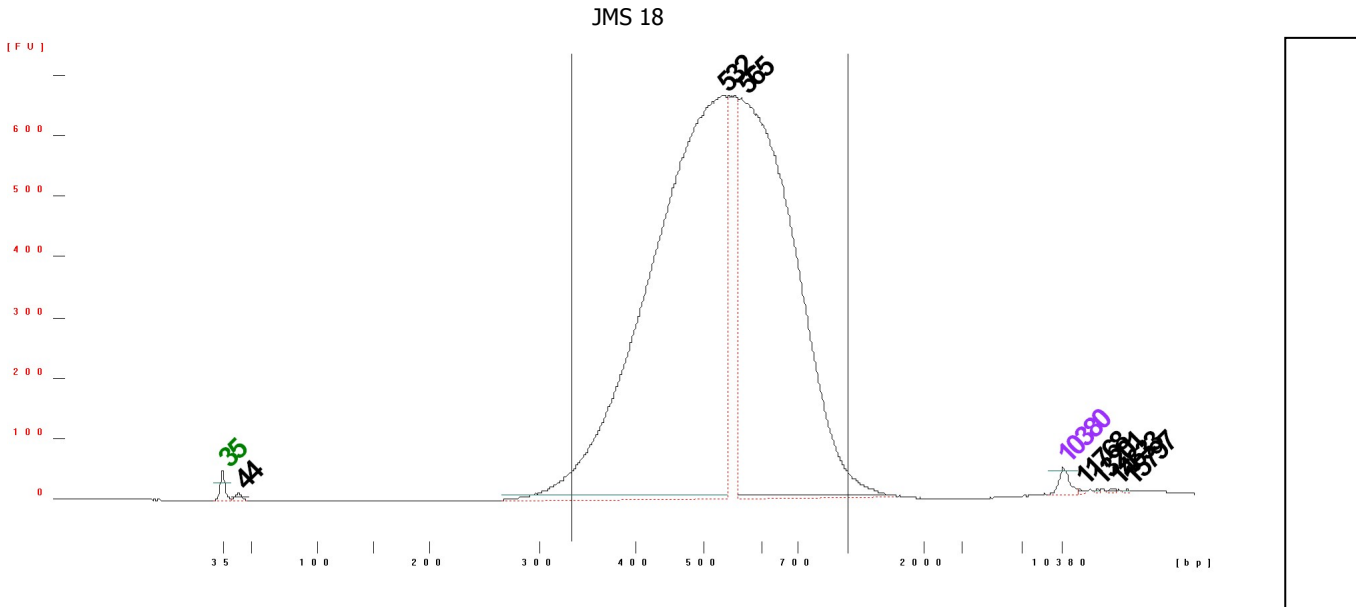
Region table for sample 6 : JMS 17

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
301	1,000	529	11,823.7	3,950.44	2,323.4	99	18.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_005.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : JMS 18

Number of peaks found: 7 Corr. Area 1: 10,694.7
 Noise: 0.2

Peak table for sample 7 : JMS 18

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	44.33	44	69.77	2,429.2	
3	84.62	532	15,332.59	43,638.3	
4	86.17	565	10,785.86	28,929.9	
5	113.00	10,380	75.00	10.9	Upper Marker
6	114.38	11,768	0.00	0.0	
7	115.80	13,201	0.00	0.0	
8	117.22	14,633	0.00	0.0	
9	118.37	15,797	0.00	0.0	

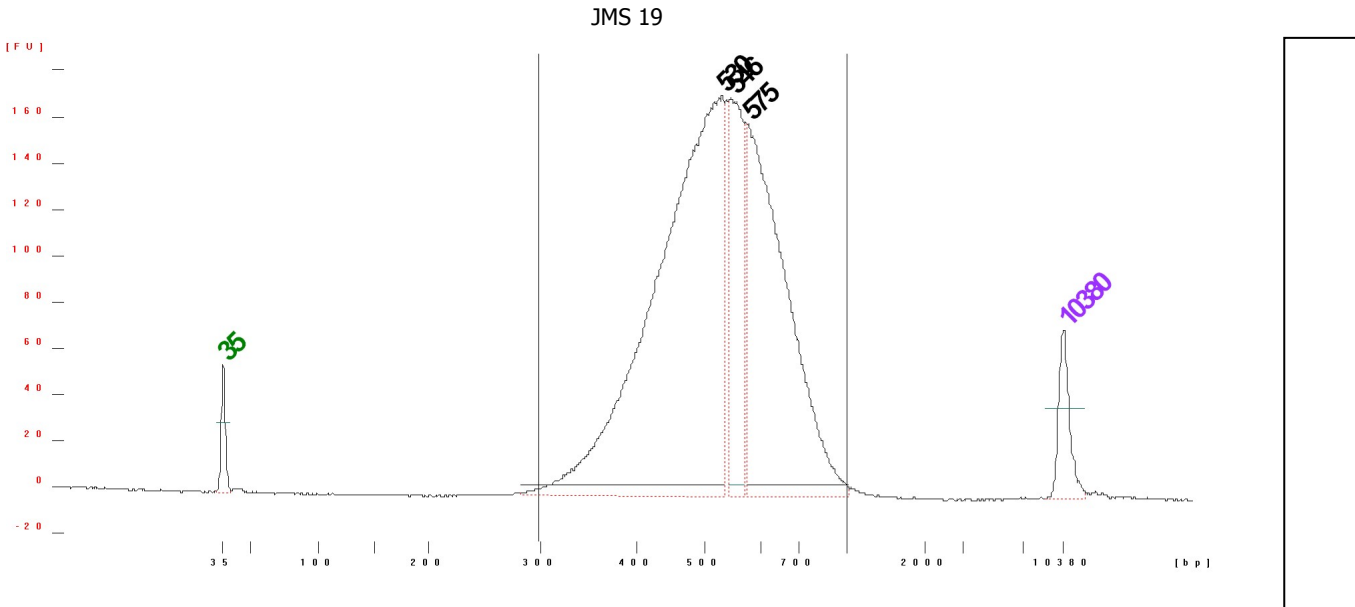
Region table for sample 7 : JMS 18

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
334	1,000	544	82,730.0	28,122.76	10,694.7	98	20.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-04\2014-04-04_005.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : JMS 19

Number of peaks found: 3 Corr. Area 1: 2,454.7
 Noise: 0.3

Peak table for sample 8 : JMS 19

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	84.53	530	1,952.44	5,576.4	
3	85.28	546	378.35	1,049.3	
4	86.66	575	1,002.29	2,640.6	
5	113.00	10,380	75.00	10.9	Upper Marker

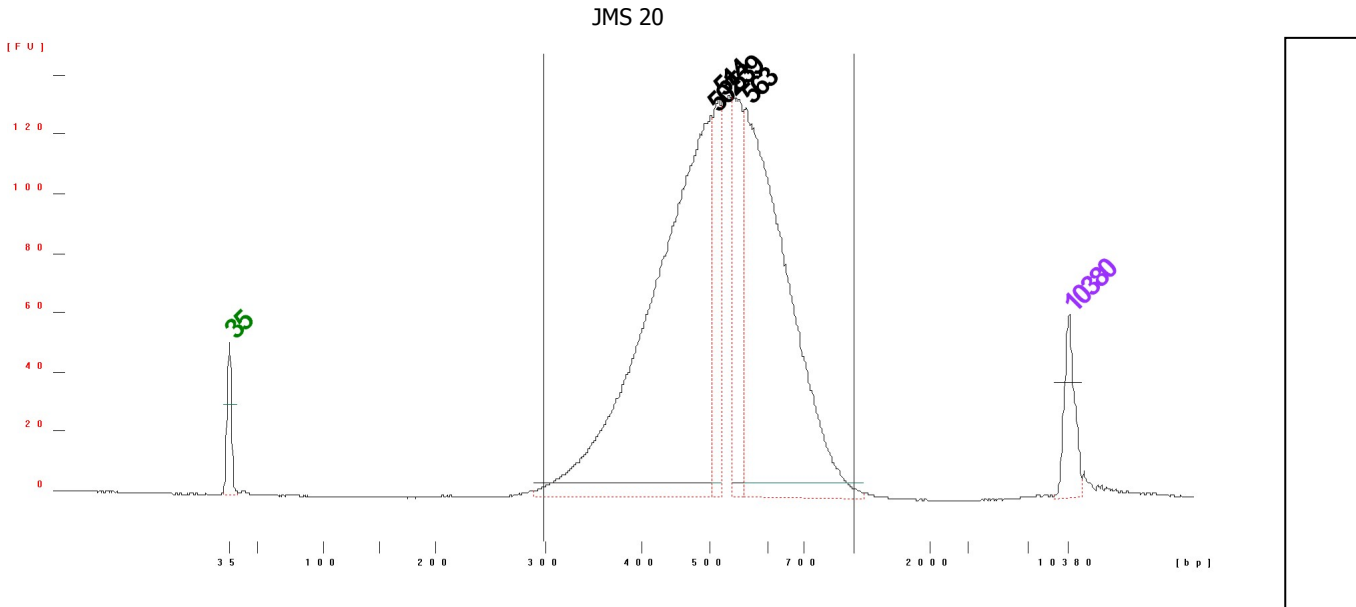
Region table for sample 8 : JMS 19

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
298	1,000	532	10,608.1	3,548.80	2,454.7	100	19.4

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



Overall Results for sample 9 : JMS 20

Number of peaks found: 4 Corr. Area 1: 1,954.1
 Noise: 0.2

Peak table for sample 9 : JMS 20

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	83.18	502	1,648.42	4,973.2	
3	83.76	514	218.43	643.5	
4	84.96	539	288.29	809.8	
5	86.07	563	1,134.54	3,055.1	
6	113.00	10,380	75.00	10.9	Upper Marker

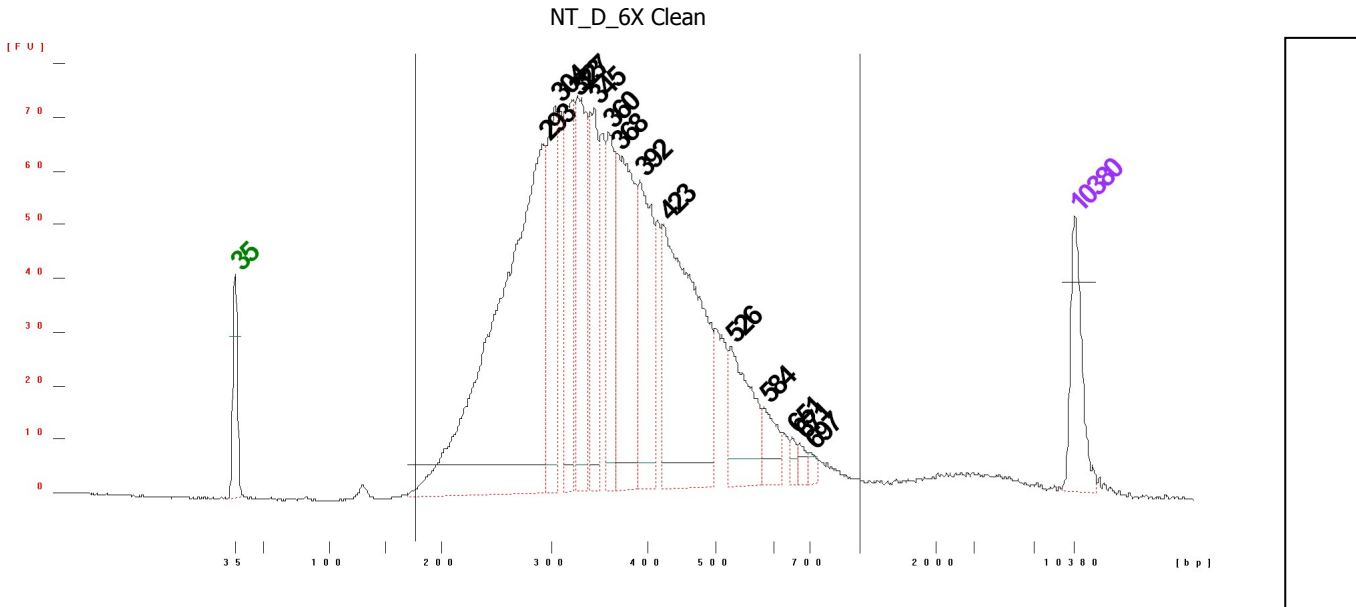
Region table for sample 9 : JMS 20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
298	1,000	525	10,681.2	3,517.93	1,954.1	99	19.5

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Electropherogram Summary Continued ...



Overall Results for sample 10 : NT D 6X Clean

Number of peaks found: 14 Corr. Area 1: 1,729.1
 Noise: 0.2

Peak table for sample 10 : NT D 6X Clean

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	68.73	293	1,037.15	5,361.1	
3	69.71	304	236.55	1,177.8	
4	71.18	323	205.80	966.8	
5	71.58	327	254.48	1,177.4	
6	72.96	345	178.85	786.3	
7	74.16	360	145.21	612.0	
8	74.82	368	309.99	1,277.0	
9	76.78	392	217.09	838.9	
10	78.73	423	461.95	1,653.4	
11	84.33	526	131.25	377.8	
12	87.09	584	43.14	111.9	
13	89.44	651	11.10	25.8	
14	90.07	671	11.15	25.2	
15	90.87	697	9.64	21.0	
16	113.00	10,380	75.00	10.9	Upper Marker

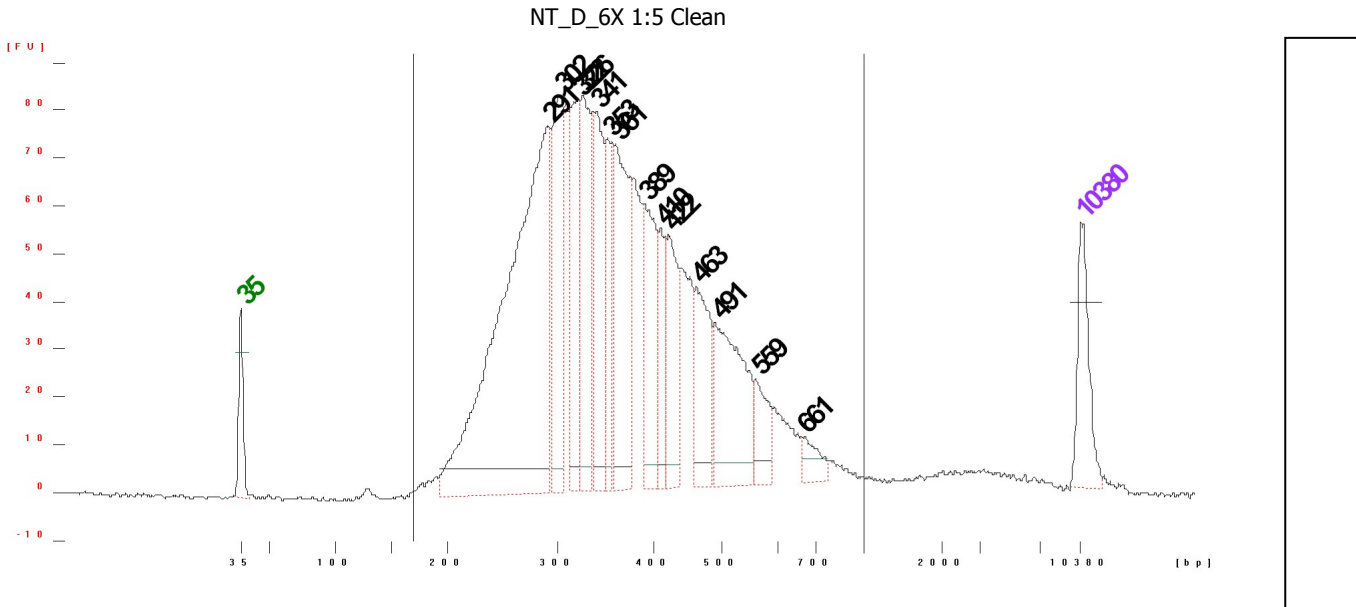
Region table for sample 10 : NT D 6X Clean

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
177	1,000	376	17,270.5	3,851.27	1,729.0	97	30.3

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Electropherogram Summary Continued ...



Overall Results for sample 11 : NT D 6X 1:5 Clean

Number of peaks found: 14 Corr. Area 1: 1,922.6
 Noise: 0.4

Peak table for sample 11 : NT D 6X 1:5 Clean

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	68.51	291	1,096.03	5,712.7	
3	69.53	302	269.72	1,352.8	
4	71.13	322	184.18	866.7	
5	71.49	326	224.79	1,043.5	
6	72.64	341	205.44	913.5	
7	73.67	353	117.52	503.8	
8	74.24	361	257.13	1,080.3	
9	76.56	389	183.16	712.8	
10	77.98	410	76.97	284.5	
11	78.64	422	142.75	512.8	
12	80.96	463	143.34	469.5	
13	82.56	491	229.61	708.7	
14	85.89	559	58.65	159.0	
15	89.76	661	32.60	74.7	
16	113.00	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : NT D 6X 1:5 Clean

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
170	1,000	376	18,060.6	4,015.54	1,922.6	97	30.7

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Gel Image

Assay Class: High Sensitivity DNA Assay
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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		4/4/2014 1:51:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-04\2014-04-04_005.xad)		Instrument	Run		4/4/2014 1:10:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/4/2014 1:10:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/4/2014 1:10:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/4/2014 1:10:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/4/2014 1:10:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/4/2014 1:10:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/4/2014 1:10:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1