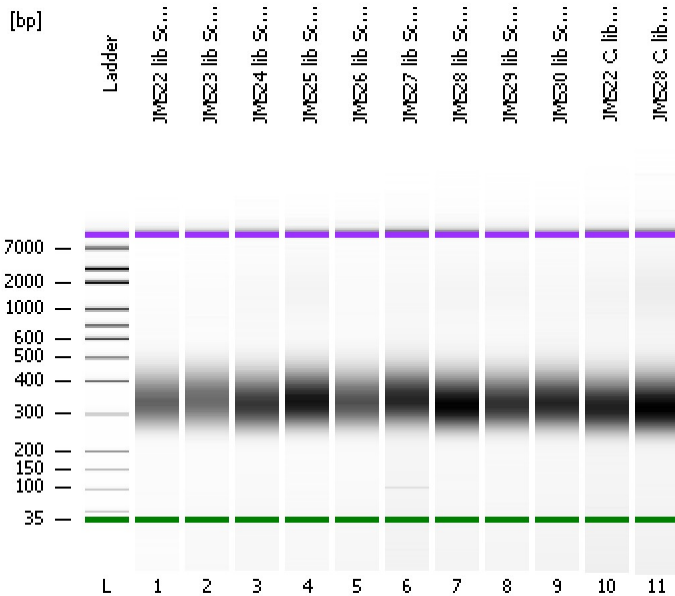


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
Modified: 8/8/2014 3:21:20 PM

Electrophoresis File Run Summary



Instrument Information:

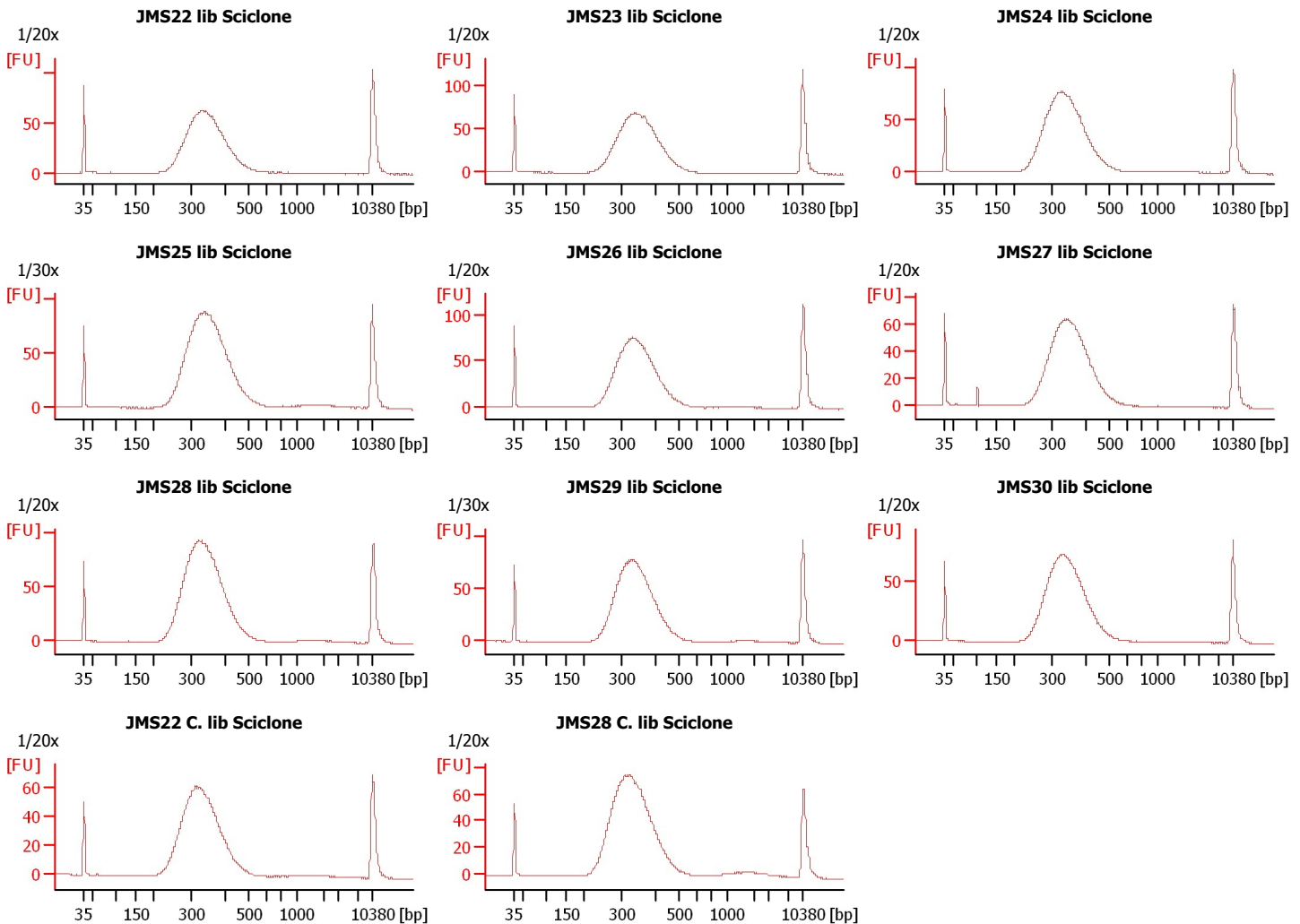
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JMS22 lib Sciclone	1/20x	<input type="checkbox"/>	✓			
JMS23 lib Sciclone	1/20x	<input type="checkbox"/>	✓			
JMS24 lib Sciclone	1/20x	<input type="checkbox"/>	✓			
JMS25 lib Sciclone	1/30x	<input type="checkbox"/>	✓			
JMS26 lib Sciclone	1/20x	<input type="checkbox"/>	✓			
JMS27 lib Sciclone	1/20x	<input type="checkbox"/>	✓			
JMS28 lib Sciclone	1/20x	<input type="checkbox"/>	✓			
JMS29 lib Sciclone	1/30x	<input type="checkbox"/>	✓			
JMS30 lib Sciclone	1/20x	<input type="checkbox"/>	✓			
JMS22 C. lib Sciclone	1/20x	<input type="checkbox"/>	✓			
JMS28 C. lib Sciclone	1/20x	<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\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
Modified: 8/8/2014 3:21:20 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

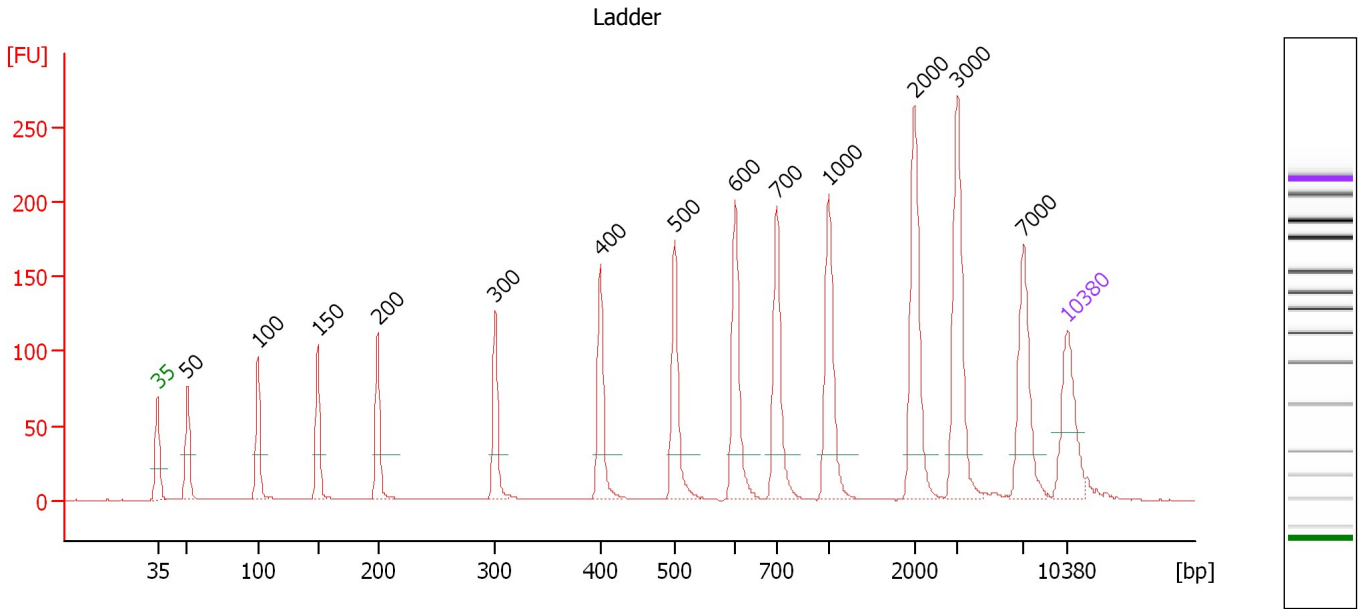
Ladder

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\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

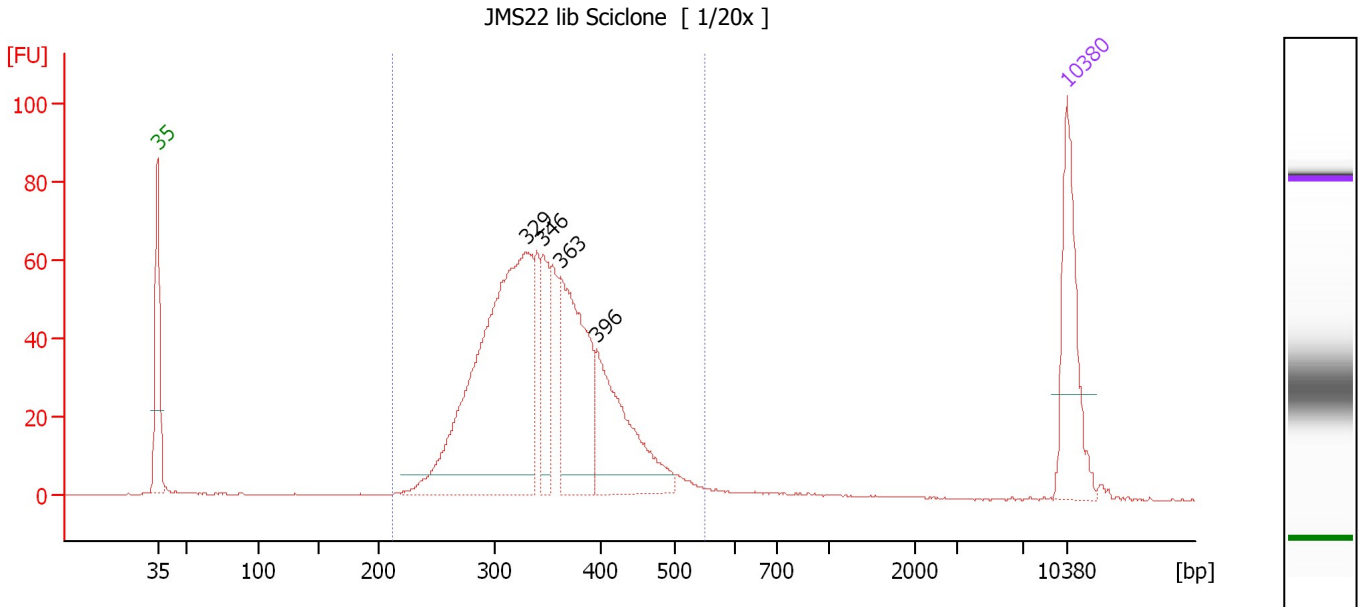
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : JMS22 lib Sciclone

Number of peaks found: 4 Corr. Area 1: 969.8
 Noise: 0.2

Peak table for sample 1 : JMS22 lib Sciclone

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	329	436.88	2,009.4	
3	346	61.78	270.8	
4	363	165.86	693.2	
5	396	134.19	513.2	
6	10,380	75.00	10.9	Upper Marker

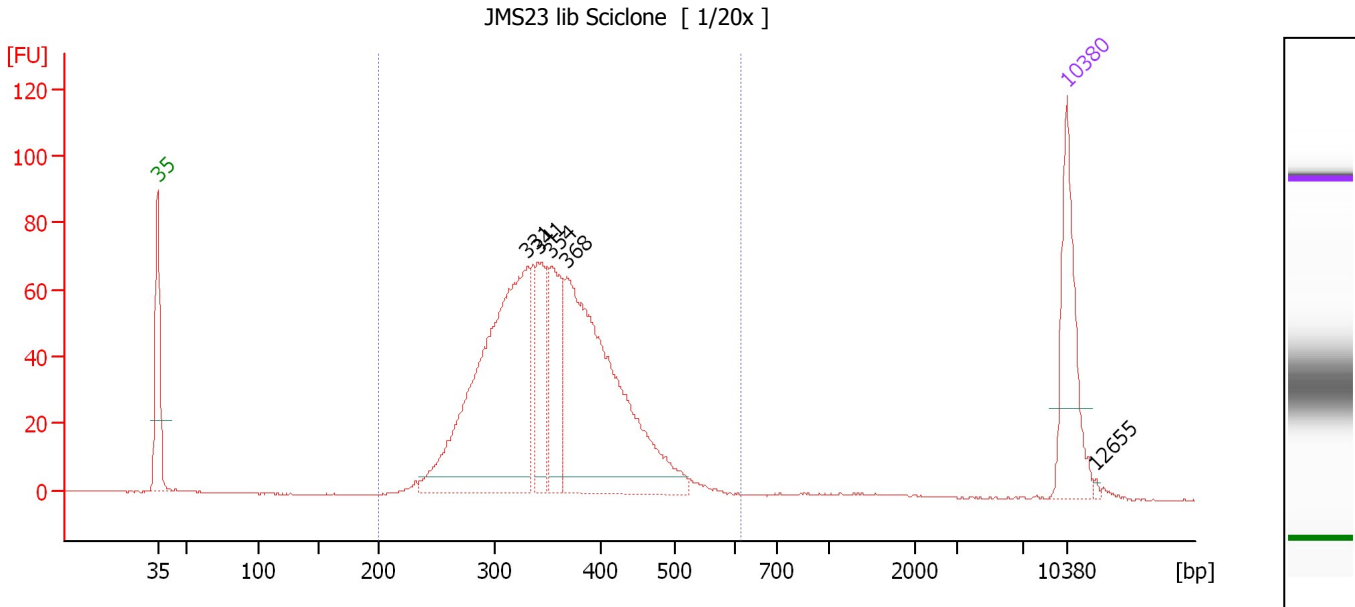
Region table for sample 1 : JMS22 lib Sciclone

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
213	550	348	4,252.8	946.33	969.8	97	16.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : JMS23 lib Sciclone

Number of peaks found: 5 Corr. Area 1: 1,129.7
 Noise: 0.1

Peak table for sample 2 : JMS23 lib Sciclone

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	331	391.11	1,791.2	
3	341	71.77	319.3	
4	354	95.71	410.1	
5	368	354.15	1,457.2	
6	10,380	75.00	10.9	Upper Marker
7	12,655	0.00	0.0	

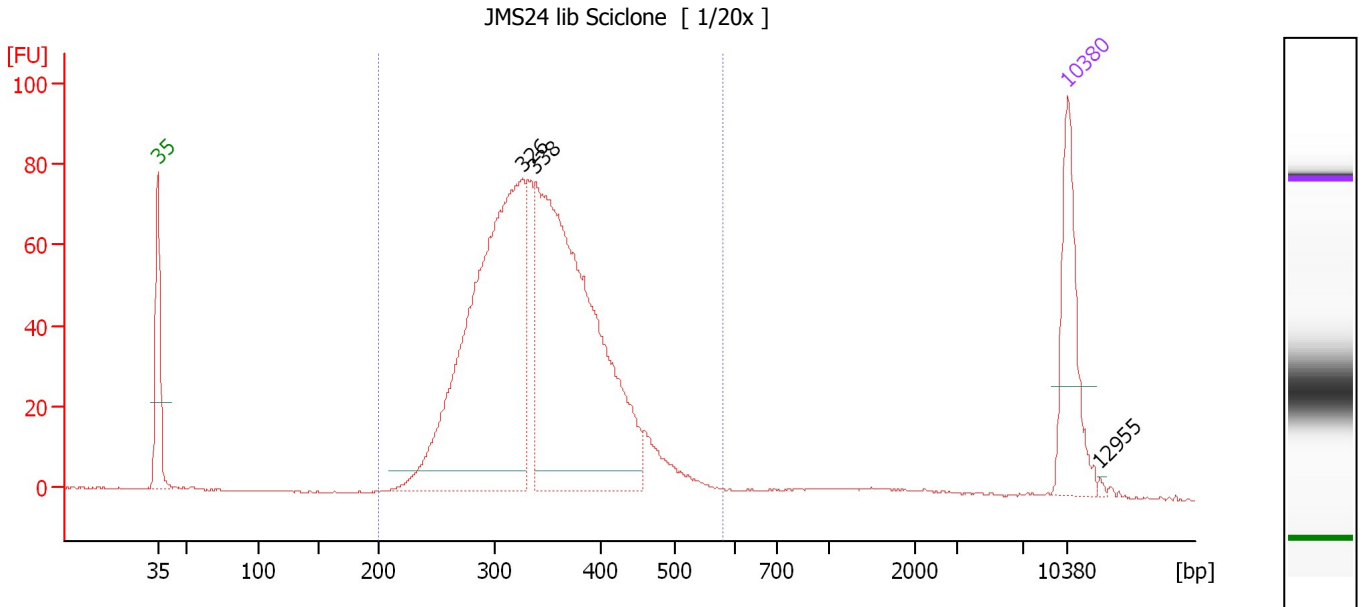
Region table for sample 2 : JMS23 lib Sciclone

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	615	355	4,365.0	987.45	1,129.7	98	16.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : JMS24 lib Sciclone

Number of peaks found: 3 Corr. Area 1: 1,244.4
 Noise: 0.1

Peak table for sample 3 : JMS24 lib Sciclone

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	326	536.86	2,495.5	
3	338	540.68	2,423.4	
4	10,380	75.00	10.9	Upper Marker
5	12,955	0.00	0.0	

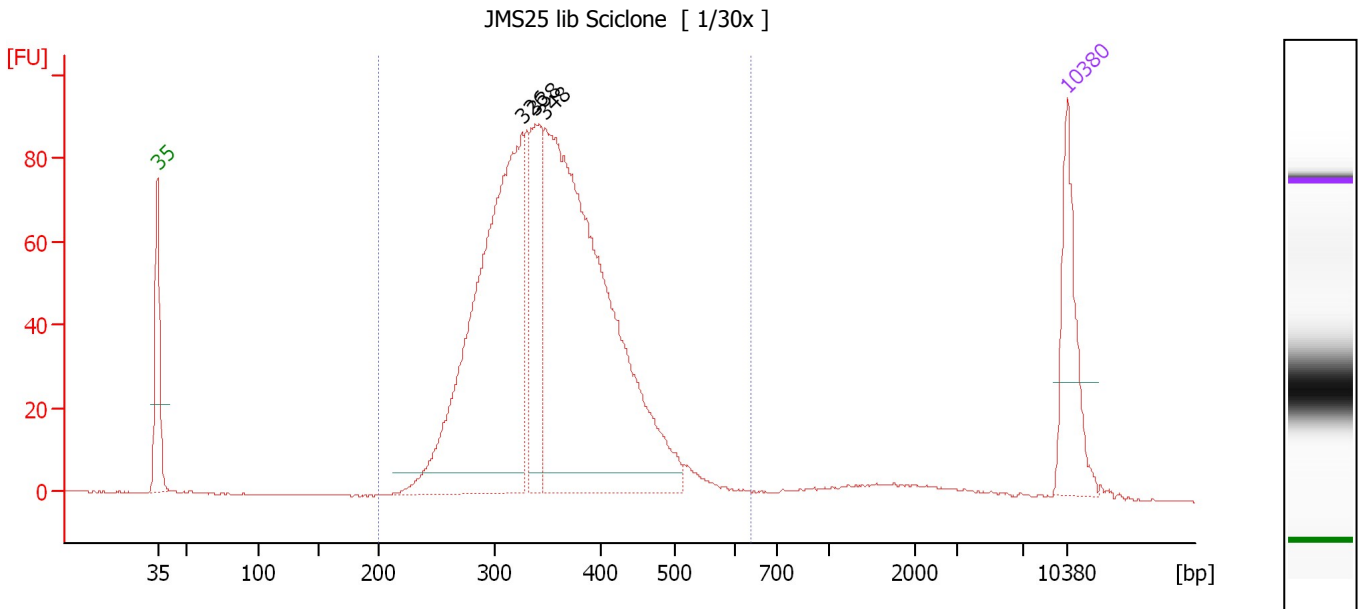
Region table for sample 3 : JMS24 lib Sciclone

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	580	344	5,542.2	1,214.18	1,244.4	95	16.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : JMS25 lib Sciclone

Number of peaks found: 3 Corr. Area 1: 1,432.0
 Noise: 0.2

Peak table for sample 4 : JMS25 lib Sciclone

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	326	579.08	2,692.4	
3	338	141.12	632.3	
4	348	740.09	3,225.4	
5	10,380	75.00	10.9	Upper Marker

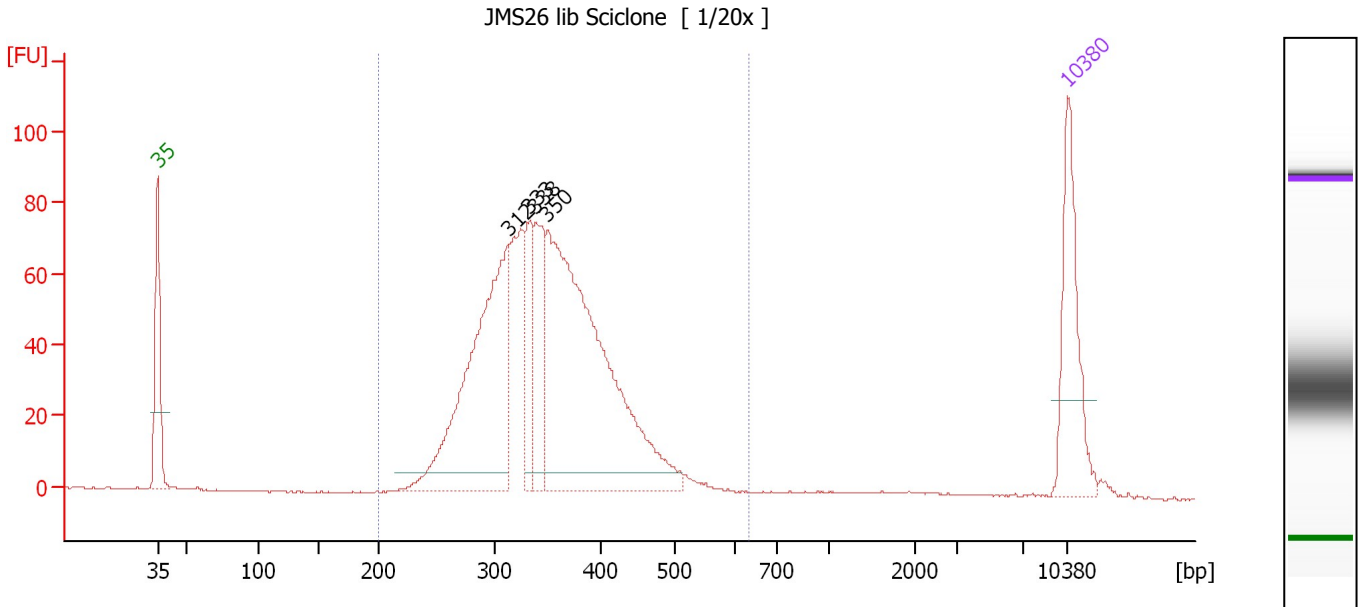
Region table for sample 4 : JMS25 lib Sciclone

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	640	355	6,822.8	1,538.06	1,432.0	96	17.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : JMS26 lib Sciclone

Number of peaks found: 4 Corr. Area 1: 1,163.4
 Noise: 0.2

Peak table for sample 5 : JMS26 lib Sciclone

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	312	299.19	1,452.2	
3	333	67.61	308.0	
4	338	82.76	370.7	
5	350	434.76	1,884.3	
6	10,380	75.00	10.9	Upper Marker

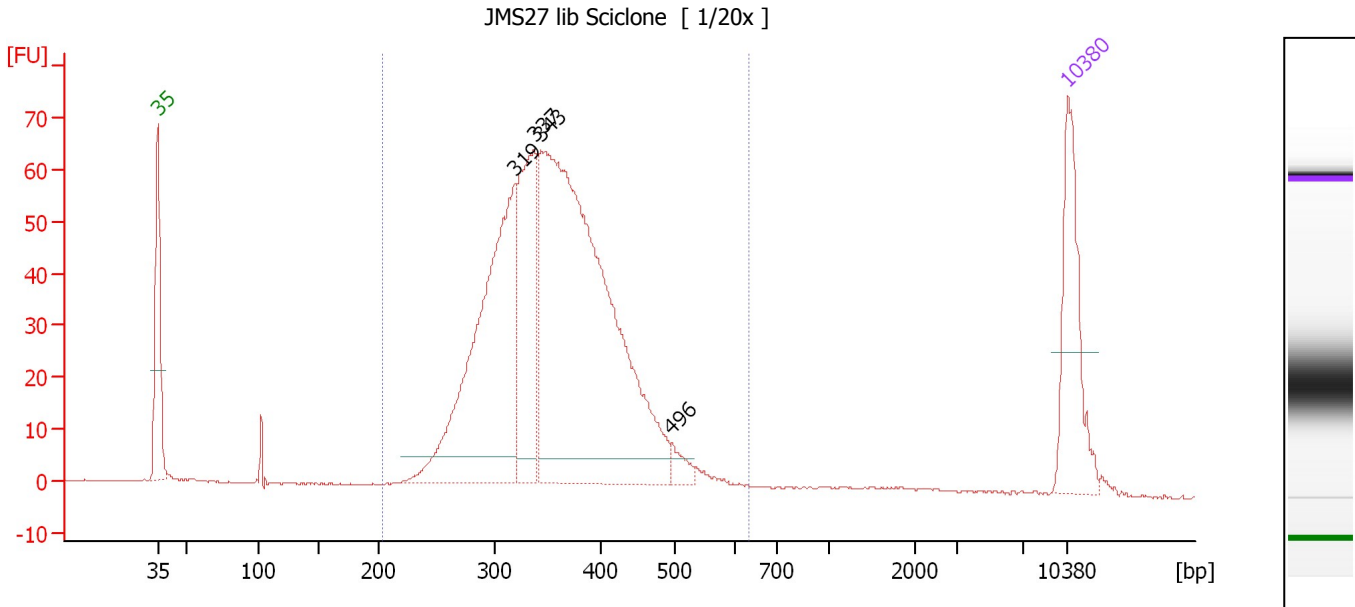
Region table for sample 5 : JMS26 lib Sciclone

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	631	350	4,443.8	992.65	1,163.4	98	16.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : JMS27 lib Sciclone

Number of peaks found: 4 Corr. Area 1: 1,012.4
 Noise: 0.1

Peak table for sample 6 : JMS27 lib Sciclone

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	319	333.20	1,584.8	
3	337	159.34	716.6	
4	343	626.19	2,764.5	
5	496	12.69	38.7	
6	10,380	75.00	10.9	Upper Marker

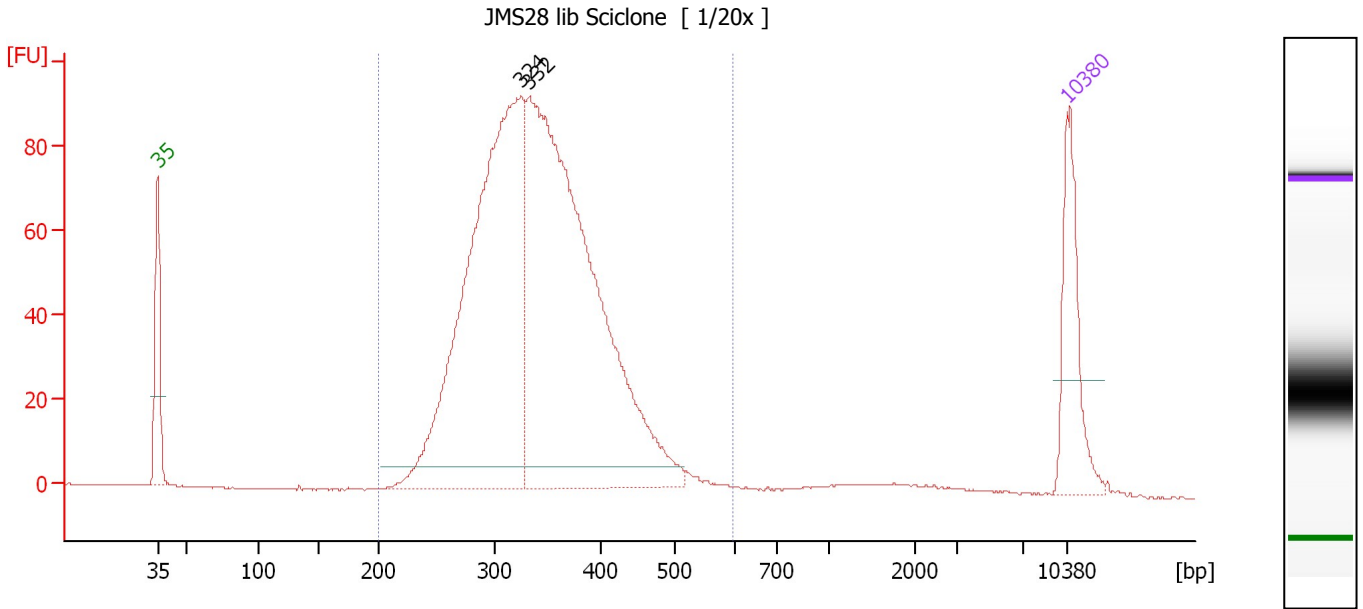
Region table for sample 6 : JMS27 lib Sciclone

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
204	632	359	5,062.6	1,155.49	1,012.4	96	17.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : JMS28 lib Sciclone

Number of peaks found: 2 Corr. Area 1: 1,443.9
 Noise: 0.1

Peak table for sample 7 : JMS28 lib Sciclone

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	324	668.91	3,126.4	
3	332	797.58	3,636.6	
4	10,380	75.00	10.9	Upper Marker

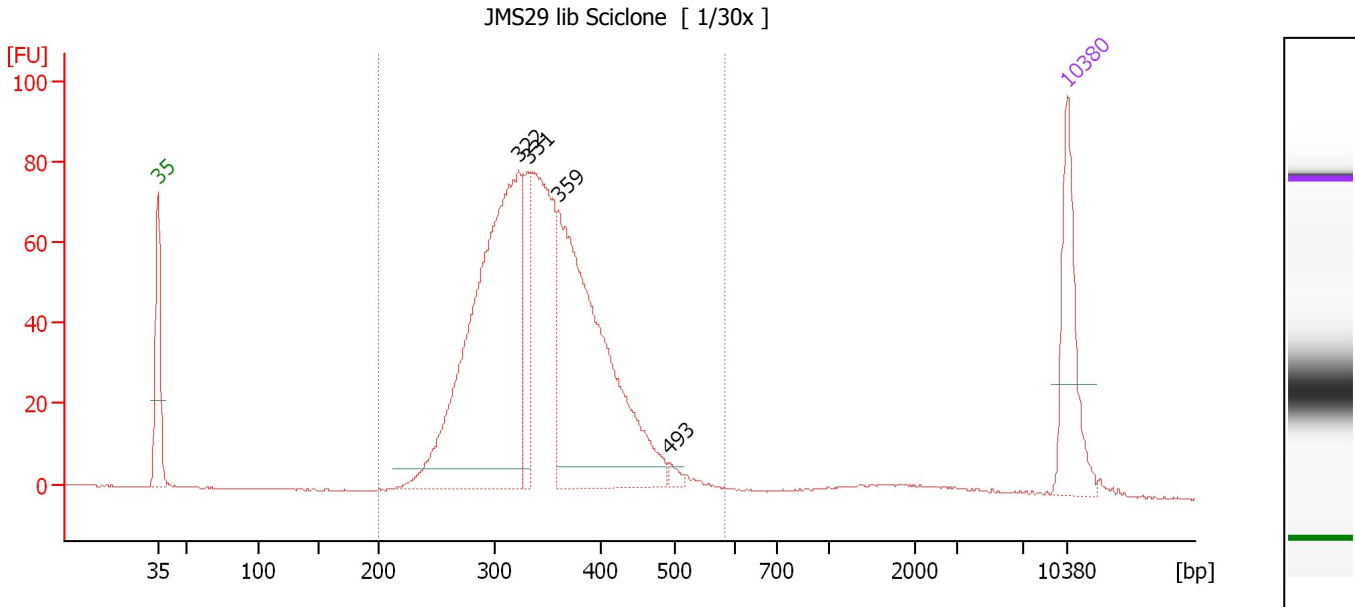
Region table for sample 7 : JMS28 lib Sciclone

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	596	343	6,787.2	1,482.17	1,443.9	97	16.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : JMS29 lib Sciclone

Number of peaks found: 4 Corr. Area 1: 1,183.6
 Noise: 0.2

Peak table for sample 8 : JMS29 lib Sciclone

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	322	531.58	2,498.2	
3	331	73.58	336.6	
4	359	399.52	1,684.3	
5	493	6.51	20.0	
6	10,380	75.00	10.9	Upper Marker

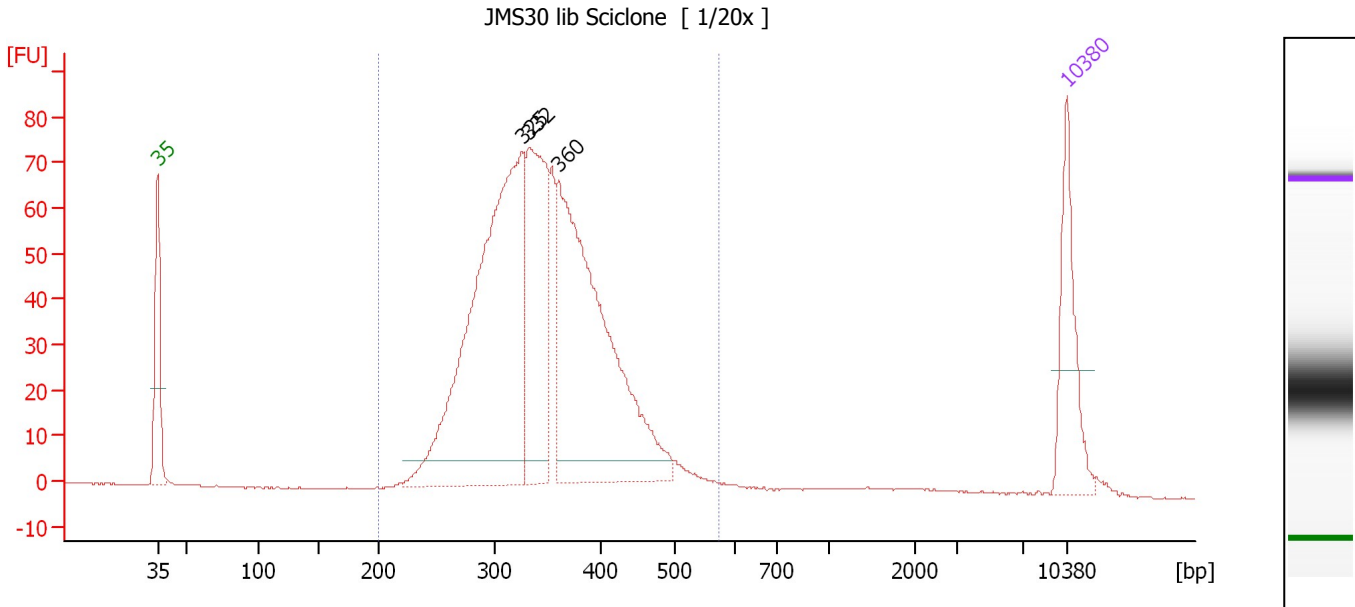
Region table for sample 8 : JMS29 lib Sciclone

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	583	345	5,770.2	1,273.17	1,183.6	96	16.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : JMS30 lib Sciclone

Number of peaks found: 3 Corr. Area 1: 1,123.0
 Noise: 0.1

Peak table for sample 9 : JMS30 lib Sciclone

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	325	574.05	2,673.4	
3	332	227.30	1,037.8	
4	360	458.18	1,927.1	
5	10,380	75.00	10.9	Upper Marker

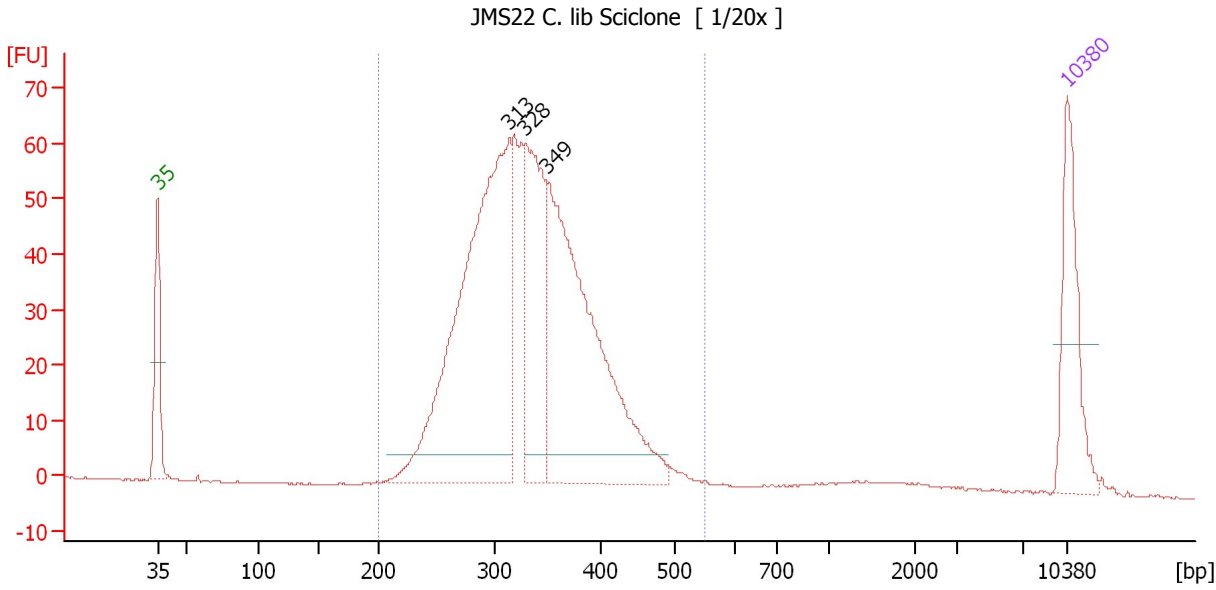
Region table for sample 9 : JMS30 lib Sciclone

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	572	347	6,252.2	1,386.49	1,123.0	97	16.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : JMS22 C. lib Sciclone

Number of peaks found: 3 Corr. Area 1: 932.9
 Noise: 0.1

Peak table for sample 10 : JMS22 C. lib Sciclone

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	313	521.31	2,520.4	
3	328	180.44	832.7	
4	349	408.49	1,772.2	
5	10,380	75.00	10.9	Upper Marker

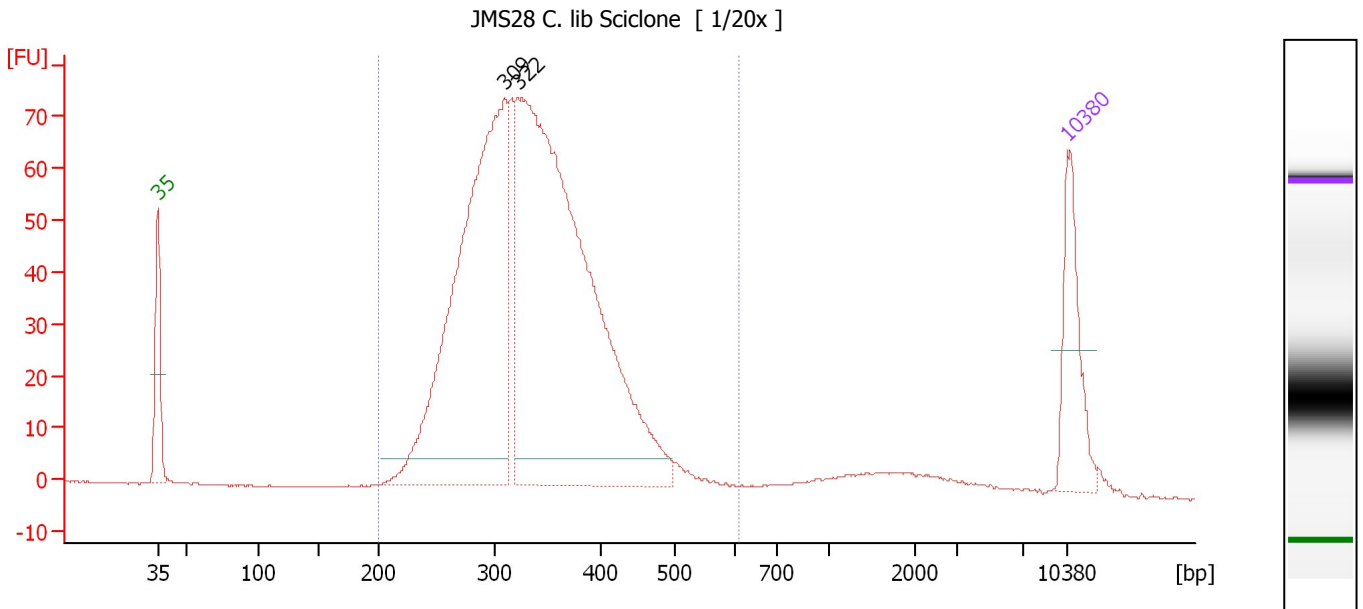
Region table for sample 10 : JMS22 C. lib Sciclone

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	549	334	5,901.7	1,259.49	932.9	97	16.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : JMS28 C. lib Sciclone

Number of peaks found: 2 Corr. Area 1: 1,191.5
 Noise: 0.1

Peak table for sample 11 : JMS28 C. lib Sciclone

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	309	667.56	3,274.4	
3	322	951.11	4,472.5	
4	10,380	75.00	10.9	Upper Marker

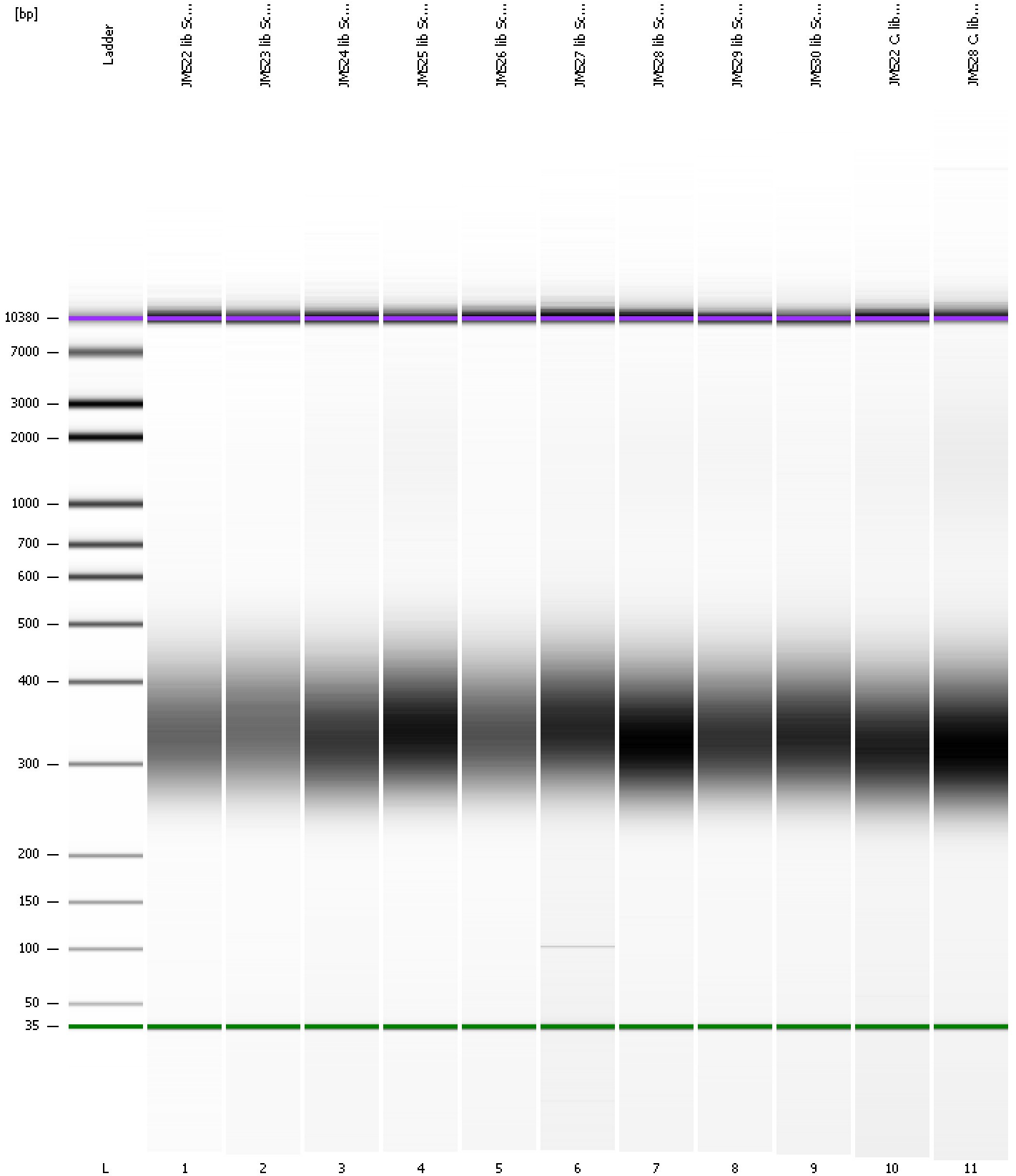
Region table for sample 11 : JMS28 C. lib Sciclone

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	611	337	7,905.0	1,690.55	1,191.5	95	17.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
Modified: 8/8/2014 3:21:20 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-08\2014-08-08_003.xad

Created: 8/8/2014 2:30:13 PM
 Modified: 8/8/2014 3:21:20 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		8/8/2014 3:10:40 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\2014-08-08\2014-08-08_003.xad)		Instrument	Run		8/8/2014 2:30:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/8/2014 2:30:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/8/2014 2:30:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/8/2014 2:30:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/8/2014 2:30:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/8/2014 2:30:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/8/2014 2:30:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1