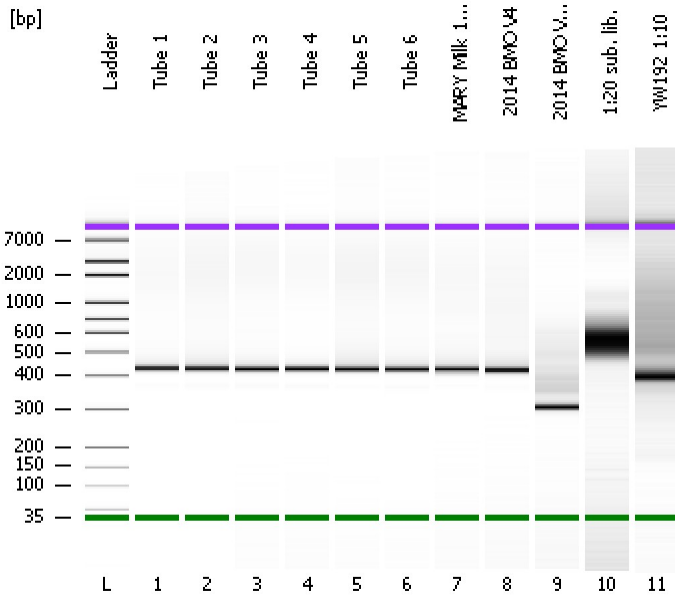


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
Modified: 7/15/2014 9:30:13 AM

Electrophoresis File Run Summary



Instrument Information:

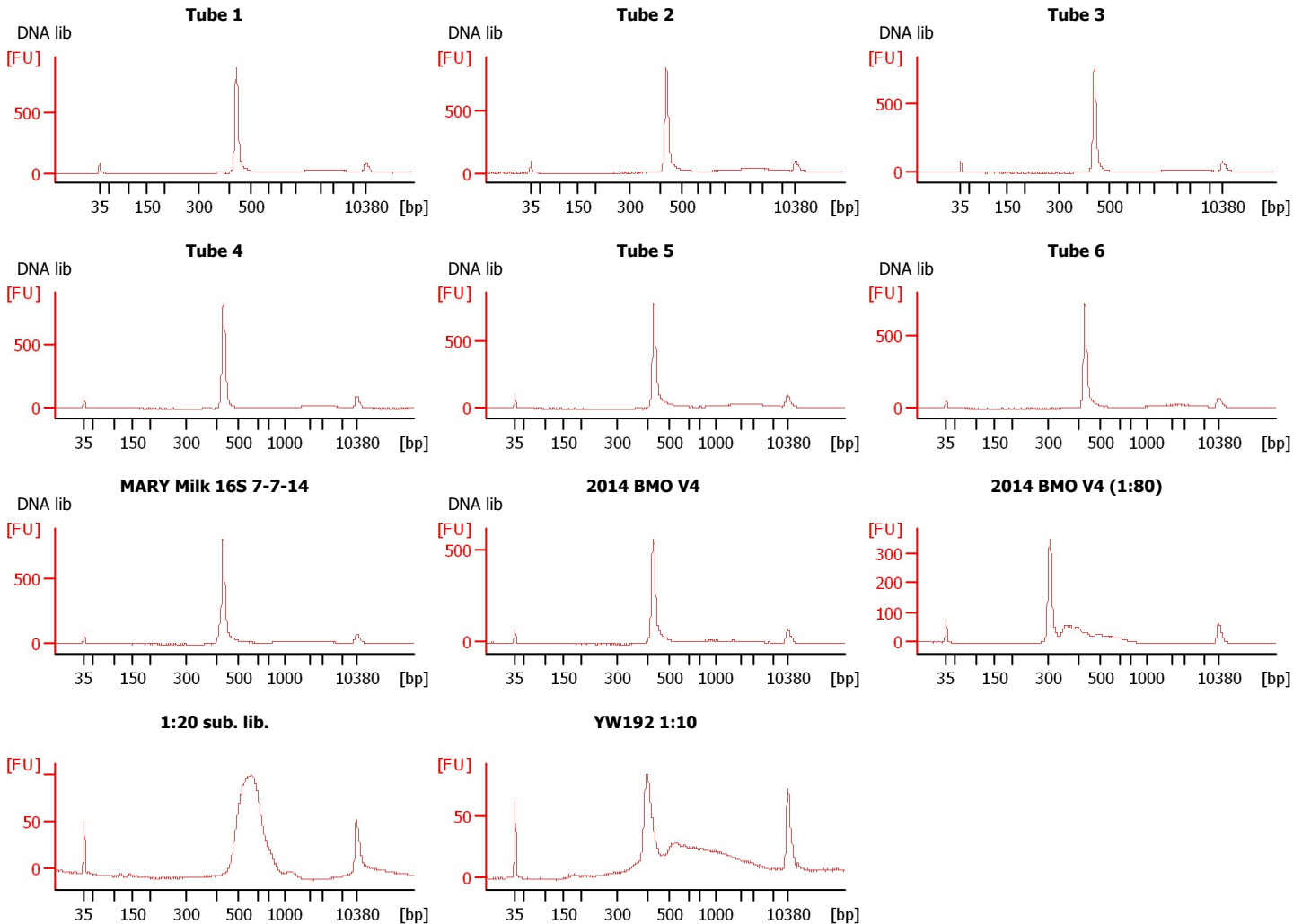
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Tube 1	DNA lib	<input type="checkbox"/>	✓			
Tube 2	DNA lib	<input type="checkbox"/>	✓			
Tube 3	DNA lib	<input type="checkbox"/>	✓			
Tube 4	DNA lib	<input type="checkbox"/>	✓			
Tube 5	DNA lib	<input type="checkbox"/>	✓			
Tube 6	DNA lib	<input type="checkbox"/>	✓			
MARY Milk 16S 7-7-14	DNA lib	<input type="checkbox"/>	✓			
2014 BMO V4	DNA lib	<input type="checkbox"/>	✓			
2014 BMO V4 (1:80)		<input type="checkbox"/>	✓			
1:20 sub. lib.		<input type="checkbox"/>	✓			
YW192 1:10		<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\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

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

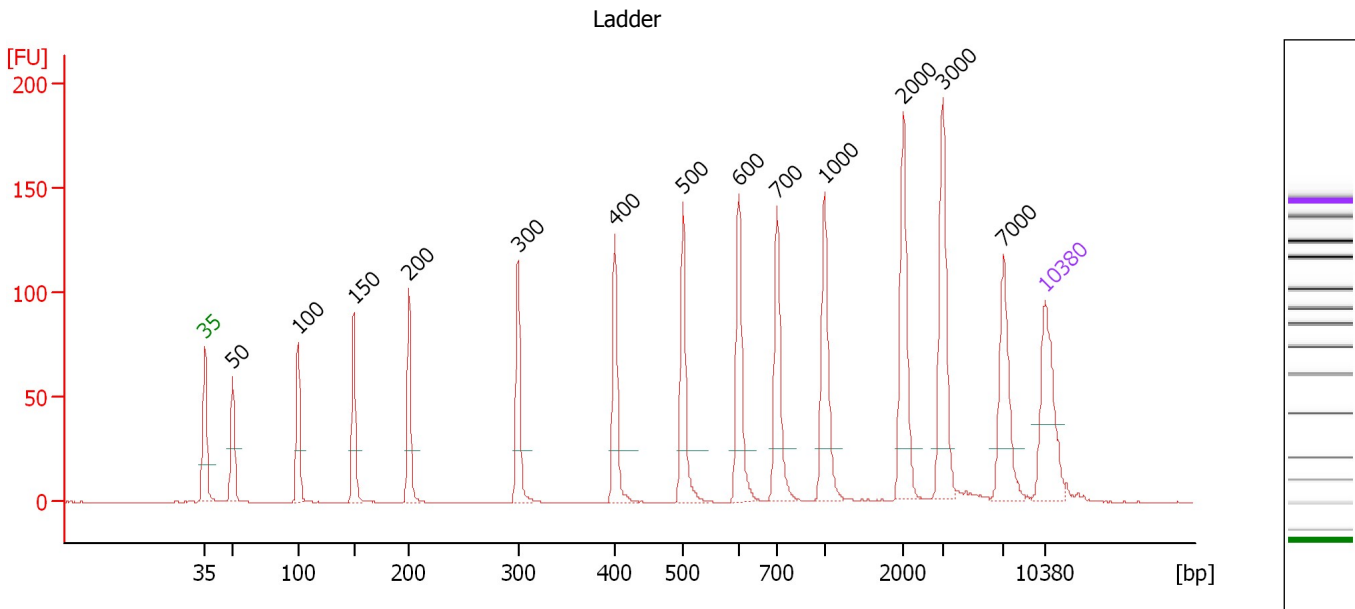
Ladder

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\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

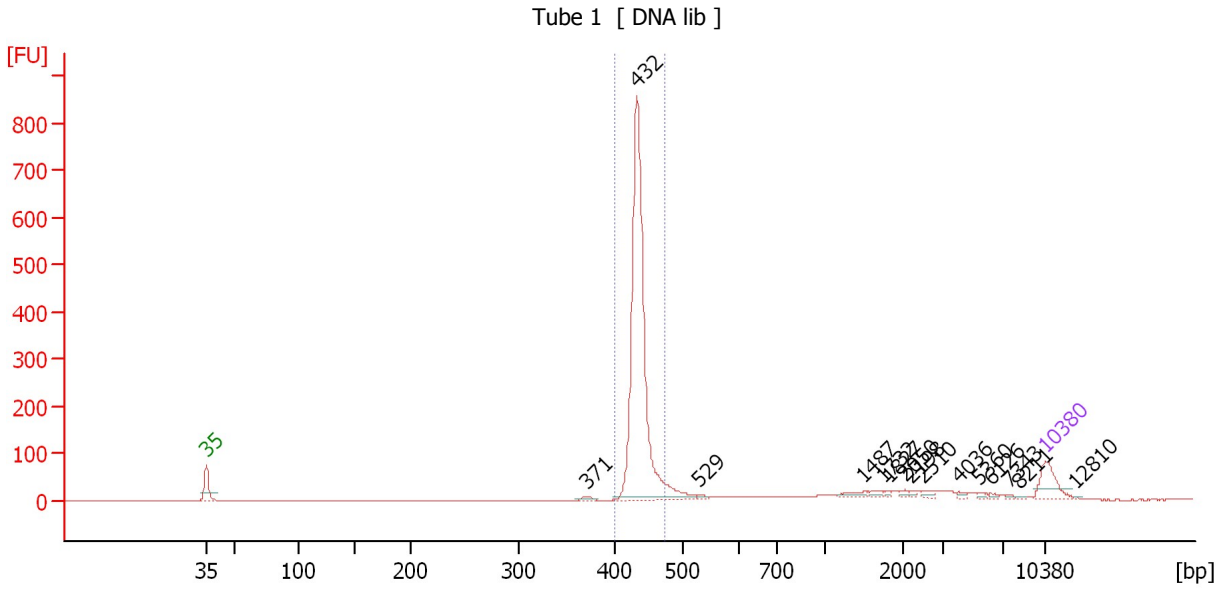
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
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\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Tube 1

Number of peaks found: 15 Corr. Area 1: 1,269.7
 Noise: 0.1

Peak table for sample 1 : Tube 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	371	13.19	53.9	
3	432	1,260.46	4,420.3	
4	529	5.58	16.0	
5	1,487	17.71	18.1	
6	1,732	12.36	10.8	
7	1,827	6.24	5.2	
8	2,050	9.61	7.1	
9	2,198	7.68	5.3	
10	2,510	11.12	6.7	
11	4,036	7.45	2.8	
12	5,360	5.87	1.7	
13	6,126	5.05	1.3	
14	7,343	3.46	0.7	
15	8,211	3.21	0.6	
16	10,380	75.00	10.9	Upper Marker
17	12,810	0.00	0.0	

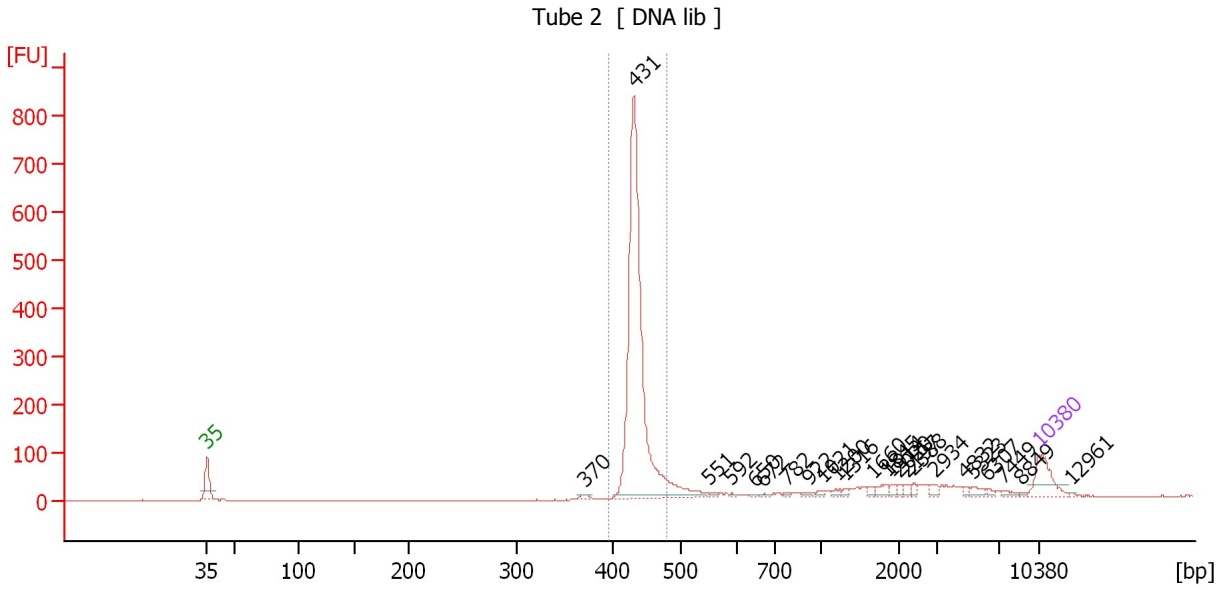
Region table for sample 1 : Tube 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
400	472	435	4,203.6	1,206.29	1,269.7	74	2.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Tube 2

Number of peaks found: 24 Corr. Area 1: 1,304.3
 Noise: 0.6


Peak table for sample 2 : Tube 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	370	7.38	30.2	
3	431	1,187.37	4,174.1	
4	551	8.02	22.0	
5	592	4.56	11.7	
6	650	5.48	12.8	
7	672	5.60	12.6	
8	782	4.81	9.3	
9	922	7.50	12.3	
10	1,021	7.68	11.4	
11	1,200	8.63	10.9	
12	1,316	6.79	7.8	
13	1,660	10.95	10.0	
14	1,845	17.66	14.5	
15	1,914	9.24	7.3	
16	2,020	9.31	7.0	
17	2,197	9.27	6.4	
18	2,388	9.31	5.9	
19	2,934	11.07	5.7	
20	4,832	7.65	2.4	
21	5,323	14.44	4.1	
22	6,307	6.16	1.5	
23	7,449	8.49	1.7	
24	8,849	2.62	0.4	
25	10,380	75.00	10.9	Upper Marker
26	12,961	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
Modified: 7/15/2014 9:30:13 AM

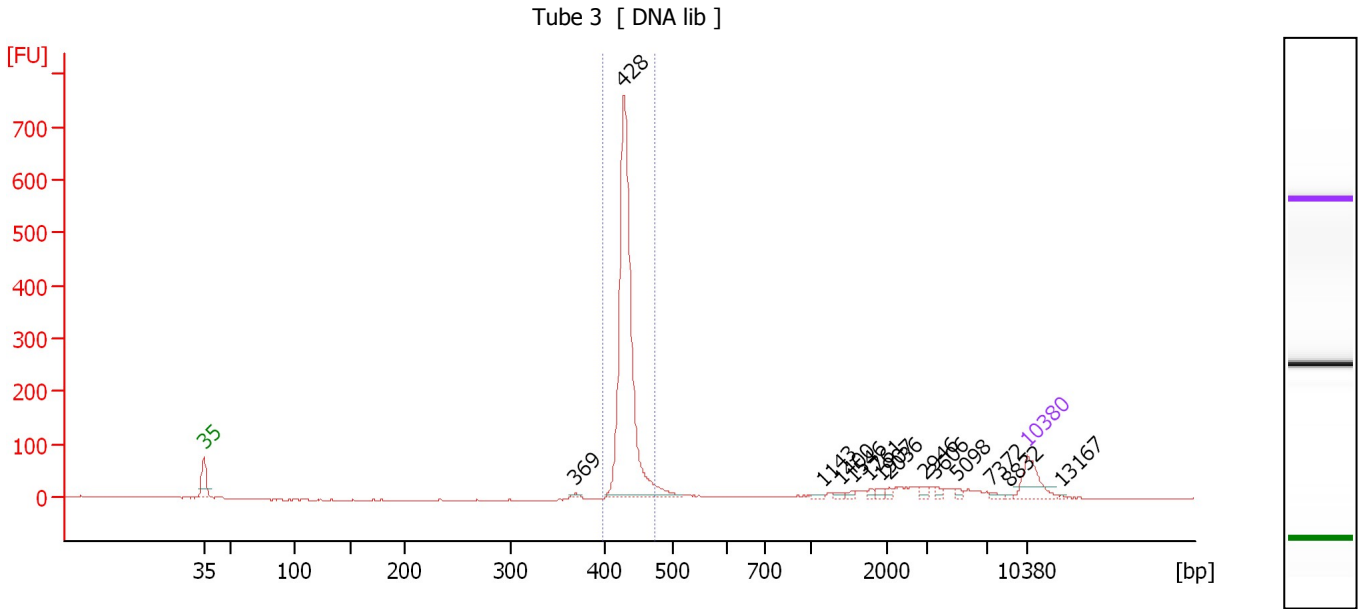
Electropherogram Summary Continued ...**... Region table for sample 2 : Tube 2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
395	480	435	3,860.5	1,109.15	 1,304.3	72	2.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Tube 3

Number of peaks found: 14 Corr. Area 1: 1,129.2
 Noise: 1.0

Peak table for sample 3 : Tube 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	369	6.61	27.2	
3	428	1,078.58	3,822.0	
4	1,143	5.88	7.8	
5	1,400	7.28	7.9	
6	1,546	7.21	7.1	
7	1,761	8.02	6.9	
8	1,907	9.54	7.6	
9	2,036	7.40	5.5	
10	2,946	10.49	5.4	
11	3,606	8.27	3.5	
12	5,098	7.94	2.4	
13	7,372	6.93	1.4	
14	8,832	2.28	0.4	
15	10,380	75.00	10.9	Upper Marker
16	13,167	0.00	0.0	

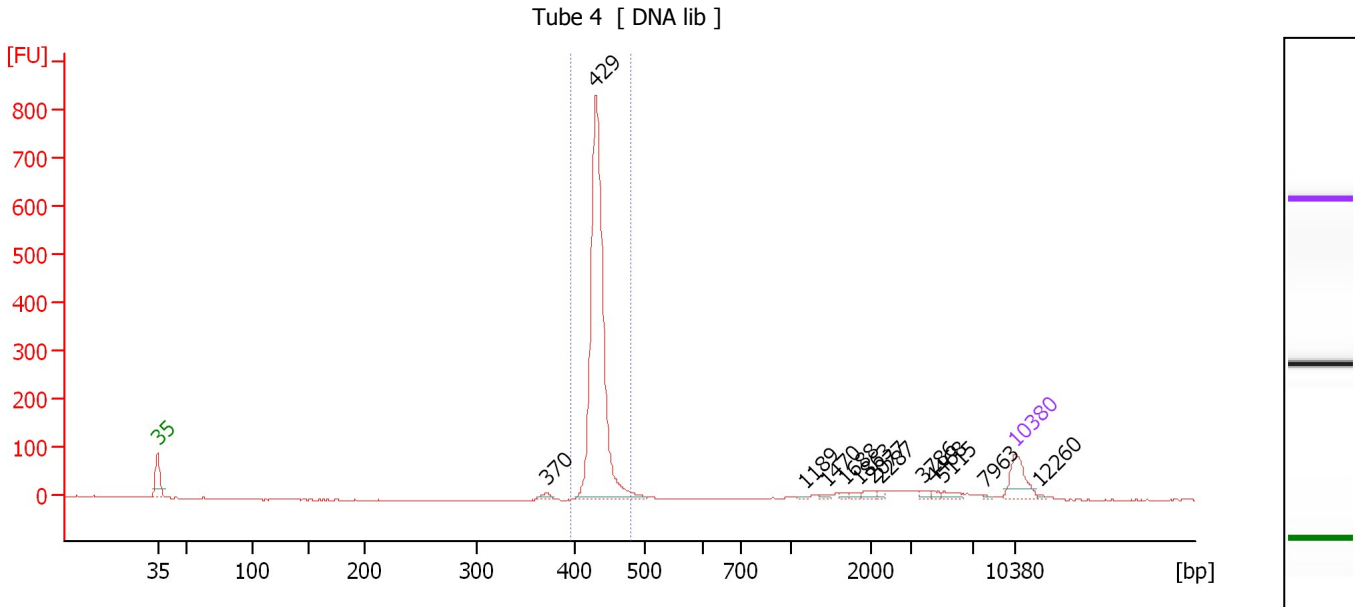
Region table for sample 3 : Tube 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
398	474	432	3,632.4	1,035.24	1,129.2	79	2.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Tube 4

Number of peaks found: 13 Corr. Area 1: 1,235.4
 Noise: 0.9

Peak table for sample 4 : Tube 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	370	9.96	40.8	
3	429	1,085.00	3,836.2	
4	1,189	3.63	4.6	
5	1,470	6.01	6.2	
6	1,688	7.58	6.8	
7	1,863	8.00	6.5	
8	2,077	12.31	9.0	
9	2,287	6.99	4.6	
10	3,786	8.52	3.4	
11	4,468	8.80	3.0	
12	5,115	14.63	4.3	
13	7,963	3.31	0.6	
14	10,380	75.00	10.9	Upper Marker
15	12,260	0.00	0.0	

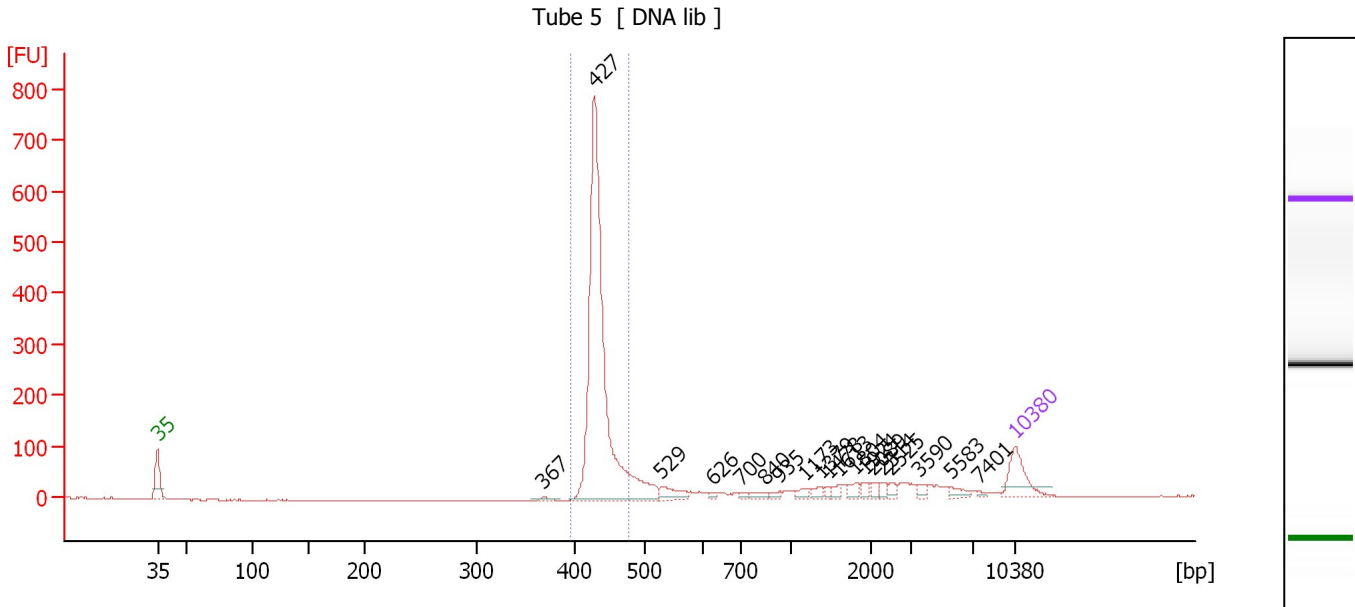
Region table for sample 4 : Tube 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
396	479	432	3,711.5	1,058.36	1,235.4	86	2.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Tube 5

Number of peaks found: 19 Corr. Area 1: 1,241.2
 Noise: 0.7

Peak table for sample 5 : Tube 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	367	7.55	31.2	
3	427	1,072.11	3,807.7	
4	529	42.49	121.8	
5	626	6.44	15.6	
6	700	7.06	15.3	
7	840	14.08	25.4	
8	935	10.45	16.9	
9	1,173	15.12	19.5	
10	1,379	14.35	15.8	
11	1,478	8.80	9.0	
12	1,613	12.07	11.3	
13	1,804	14.73	12.4	
14	1,924	11.02	8.7	
15	2,089	10.97	8.0	
16	2,314	10.71	7.0	
17	2,525	13.73	8.2	
18	3,590	11.39	4.8	
19	5,583	17.17	4.7	
20	7,401	5.24	1.1	
21	10,380	75.00	10.9	Upper Marker

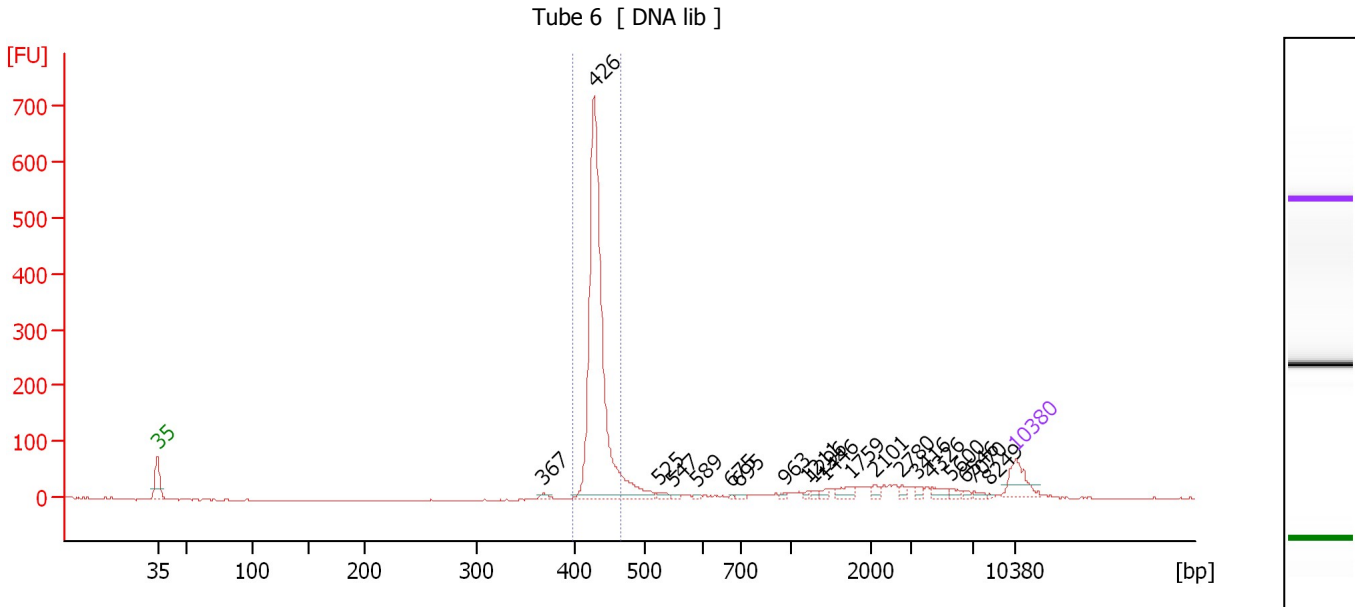
Region table for sample 5 : Tube 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
396	476	433	3,295.8	941.06	1,241.2	71	2.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Tube 6

Number of peaks found: 20 Corr. Area 1: 1,058.8
 Noise: 1.3

Peak table for sample 6 : Tube 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	367	9.36	38.6	
3	426	1,233.46	4,384.4	
4	525	12.70	36.7	
5	547	5.94	16.5	
6	589	3.93	10.1	
7	675	3.28	7.4	
8	695	4.96	10.8	
9	963	4.73	7.4	
10	1,211	6.17	7.7	
11	1,296	7.71	9.0	
12	1,446	10.20	10.7	
13	1,759	24.59	21.2	
14	2,101	11.84	8.5	
15	2,780	10.71	5.8	
16	3,416	9.90	4.4	
17	4,326	19.52	6.8	
18	5,600	11.41	3.1	
19	6,546	6.93	1.6	
20	7,070	7.96	1.7	
21	8,249	3.14	0.6	
22	10,380	75.00	10.9	Upper Marker

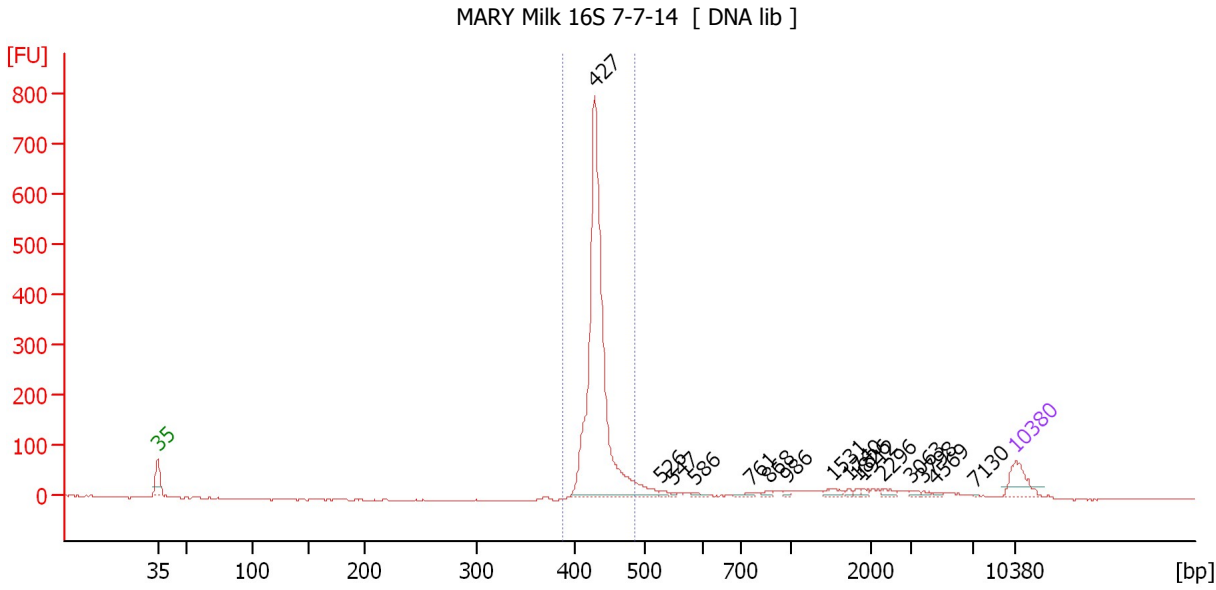
Region table for sample 6 : Tube 6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
396	466	431	4,012.2	1,140.14	1,058.8	73	2.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : MARY Milk 16S 7-7-14

Number of peaks found: 16 Corr. Area 1: 1,296.6
 Noise: 1.1

Peak table for sample 7 : MARY Milk 16S 7-7-14

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	427	1,361.42	4,828.8	
3	526	10.92	31.5	
4	547	5.78	16.0	
5	586	7.13	18.4	
6	761	10.17	20.2	
7	868	9.23	16.1	
8	986	7.35	11.3	
9	1,531	18.55	18.4	
10	1,740	7.34	6.4	
11	1,826	7.18	6.0	
12	1,912	7.04	5.6	
13	2,296	14.01	9.2	
14	3,063	8.61	4.3	
15	3,798	6.58	2.6	
16	4,569	6.48	2.1	
17	7,130	1.93	0.4	
18	10,380	75.00	10.9	Upper Marker

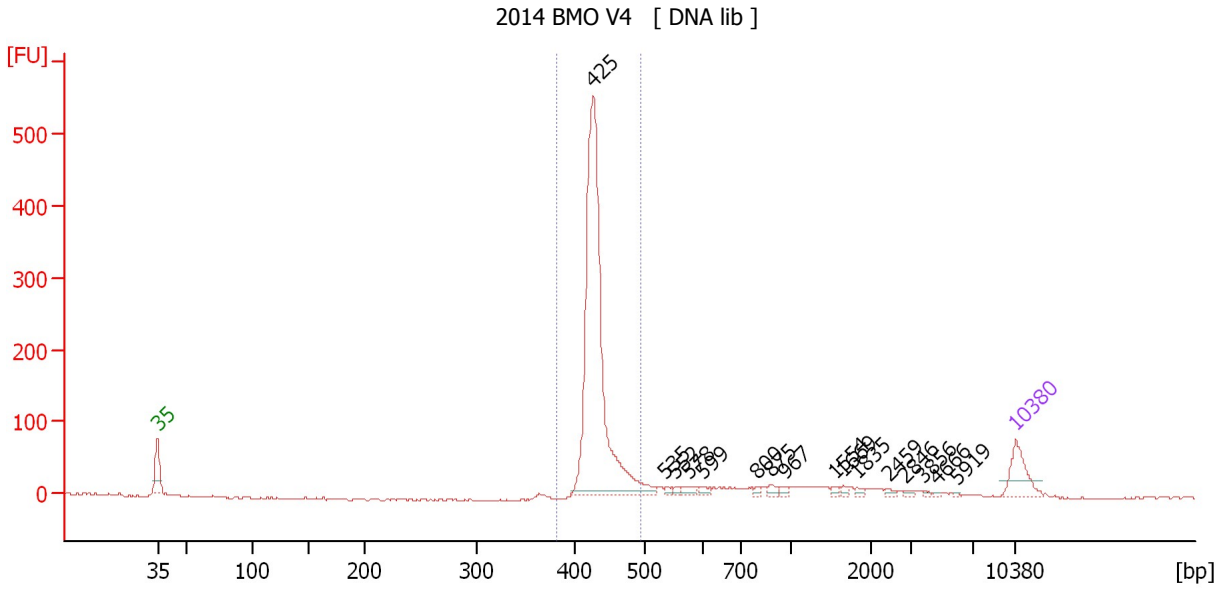
Region table for sample 7 : MARY Milk 16S 7-7-14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
387	484	432	4,628.6	1,318.19	1,296.6	78	3.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 2014 BMO V4

Number of peaks found: 16 Corr. Area 1: 1,041.6
 Noise: 1.0

Peak table for sample 8 : 2014 BMO V4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	425	1,134.92	4,048.7	
3	535	9.46	26.8	
4	552	8.75	24.0	
5	578	17.78	46.6	
6	599	11.84	30.0	
7	800	7.91	15.0	
8	875	14.25	24.7	
9	967	8.92	14.0	
10	1,554	7.63	7.4	
11	1,669	7.15	6.5	
12	1,835	7.72	6.4	
13	2,459	7.45	4.6	
14	2,846	5.78	3.1	
15	3,856	3.89	1.5	
16	4,666	2.61	0.8	
17	5,919	2.09	0.5	
18	10,380	75.00	10.9	Upper Marker

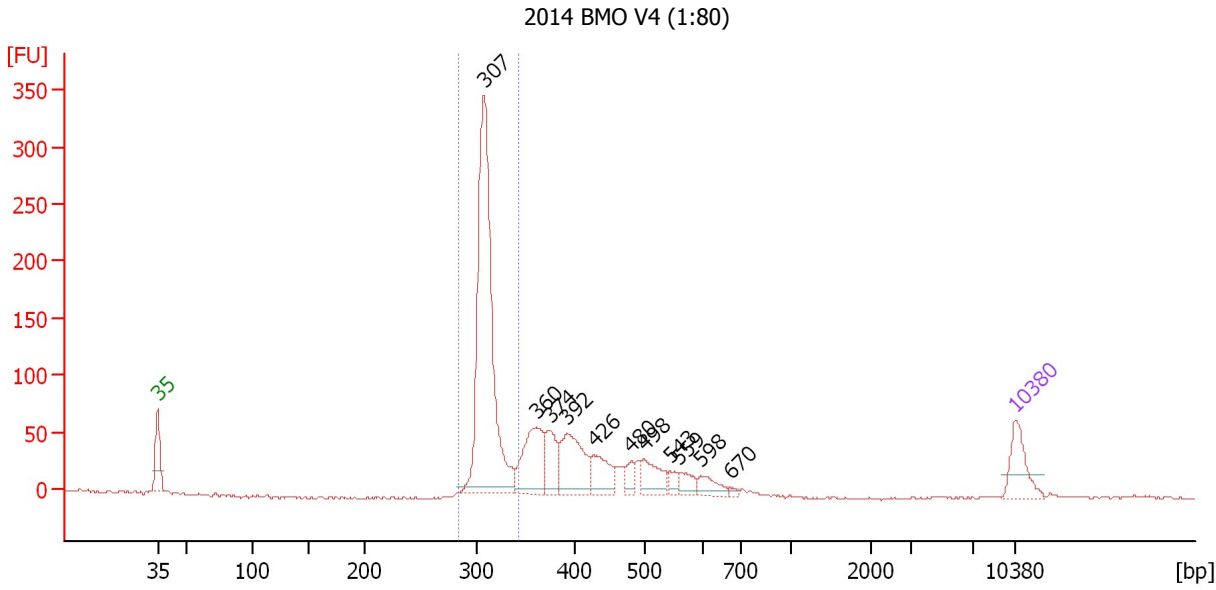
Region table for sample 8 : 2014 BMO V4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
382	492	430	3,872.2	1,098.79	1,041.6	78	3.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 2014 BMO V4 (1:80)

Number of peaks found: 11 Corr. Area 1: 692.9
 Noise: 0.8

Peak table for sample 9 : 2014 BMO V4 (1:80)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	307	892.27	4,401.6	
3	360	184.69	778.3	
4	374	95.88	388.2	
5	392	180.80	699.0	
6	426	85.86	305.4	
7	480	28.42	89.7	
8	498	76.90	233.7	
9	543	22.06	61.6	
10	559	35.85	97.2	
11	598	39.08	99.1	
12	670	7.30	16.5	
13	10,380	75.00	10.9	Upper Marker

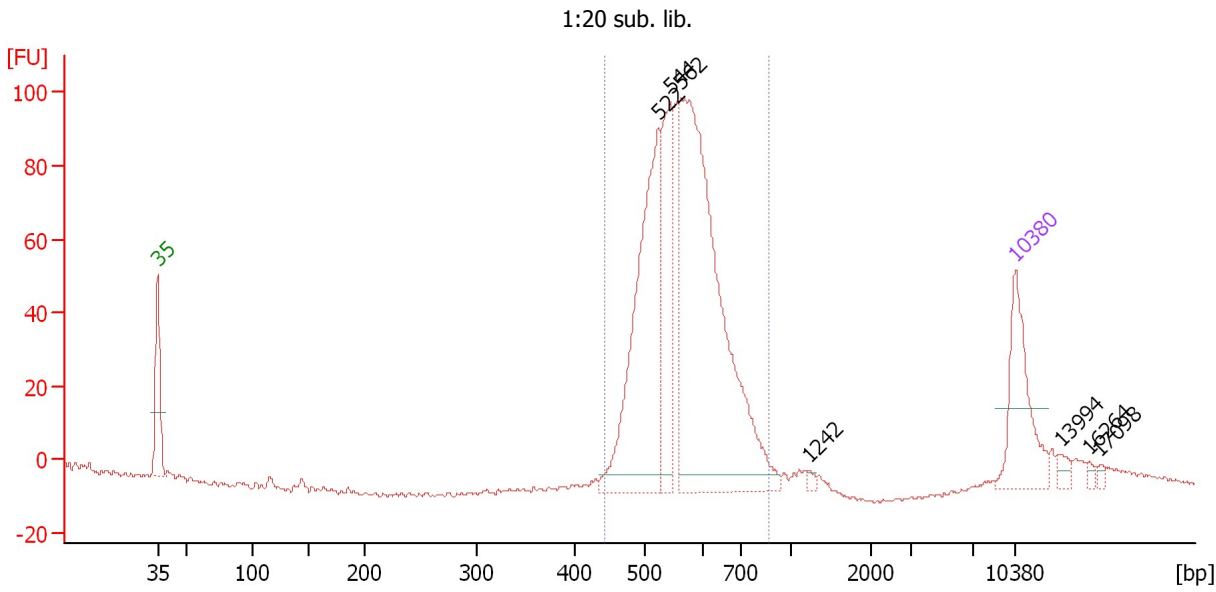
Region table for sample 9 : 2014 BMO V4 (1:80)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
284	342	310	4,394.2	897.99	692.9	49	2.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 1:20 sub. lib.

Number of peaks found: 7 Corr. Area 1: 848.3
 Noise: 0.5

Peak table for sample 10 : 1:20 sub. lib.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	522	300.89	872.7	
3	544	132.01	367.8	
4	562	526.61	1,419.5	
5	1,242	3.82	4.7	
6	10,380	75.00	10.9	Upper Marker
7	13,994	0.00	0.0	
8	16,264	0.00	0.0	
9	17,098	0.00	0.0	

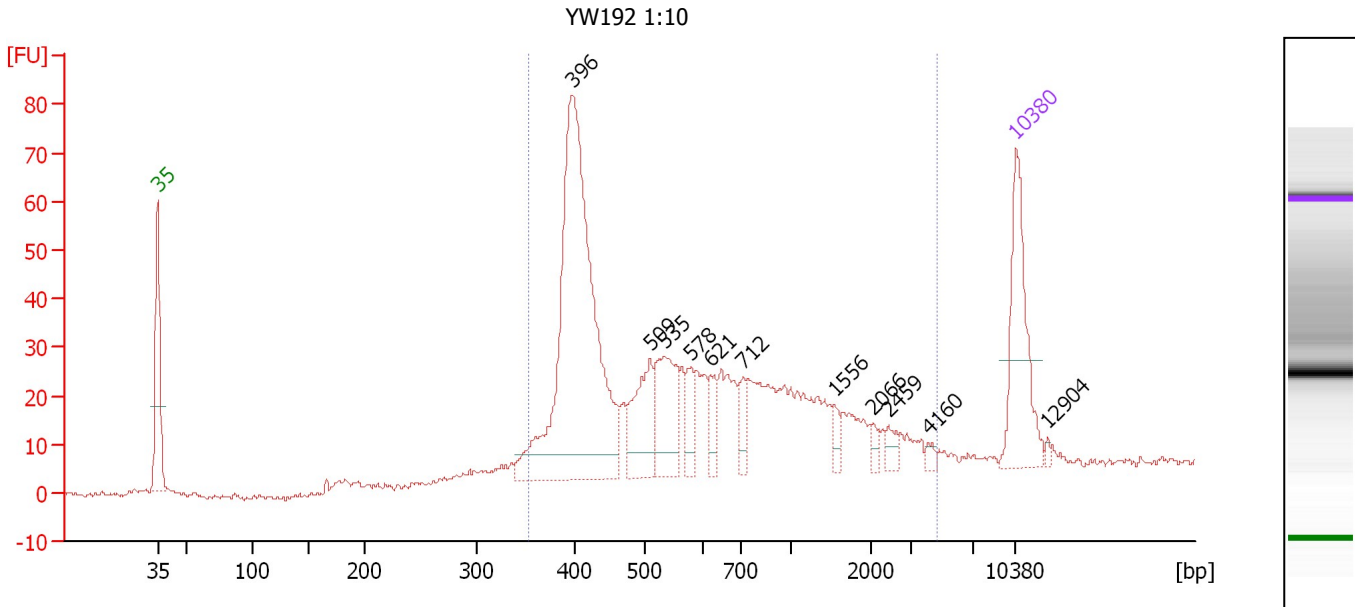
Region table for sample 10 : 1:20 sub. lib.

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
443	868	571	2,465.5	914.53	848.3	94	11.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : YW192 1:10

Number of peaks found: 11 Corr. Area 1: 771.8
 Noise: 0.6

Peak table for sample 11 : YW192 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	396	411.77	1,573.7	
3	509	63.69	189.7	
4	535	72.07	204.0	
5	578	21.28	55.7	
6	621	19.20	46.8	
7	712	17.25	36.7	
8	1,556	8.29	8.1	
9	2,066	6.19	4.5	
10	2,459	8.06	5.0	
11	4,160	4.08	1.5	
12	10,380	75.00	10.9	Upper Marker
13	12,904	0.00	0.0	

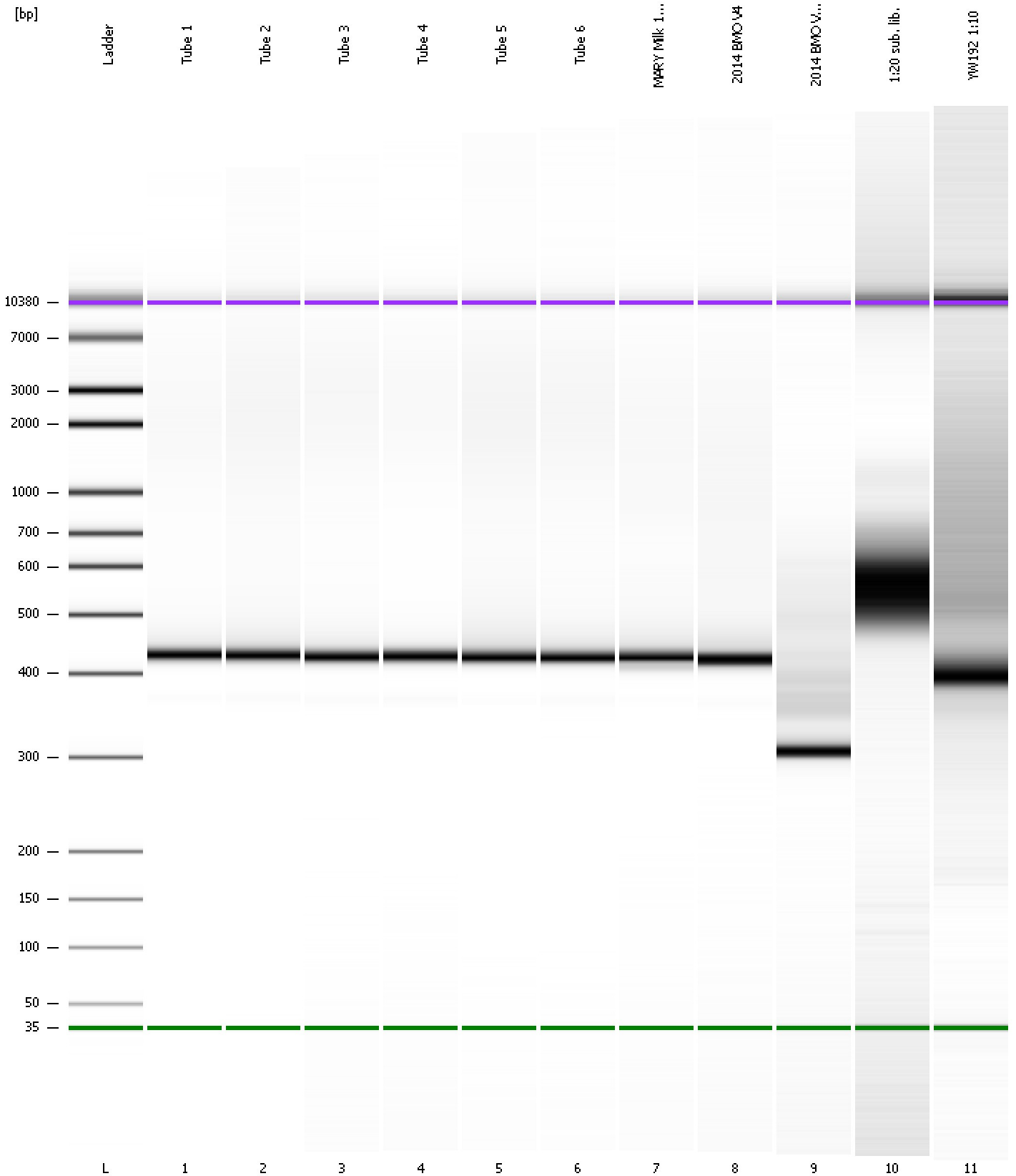
Region table for sample 11 : YW192 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
352	4,682	806	2,574.3	915.12	771.8	92	83.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
Modified: 7/15/2014 9:30:13 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad

Created: 7/15/2014 8:26:13 AM
 Modified: 7/15/2014 9:30:13 AM

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		7/15/2014 9:07:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-07-15\2014-07-15_001.xad)		Instrument	Run		7/15/2014 8:26:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/15/2014 8:26:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/15/2014 8:26:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/15/2014 8:26:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/15/2014 8:26:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/15/2014 8:26:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/15/2014 8:26:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1