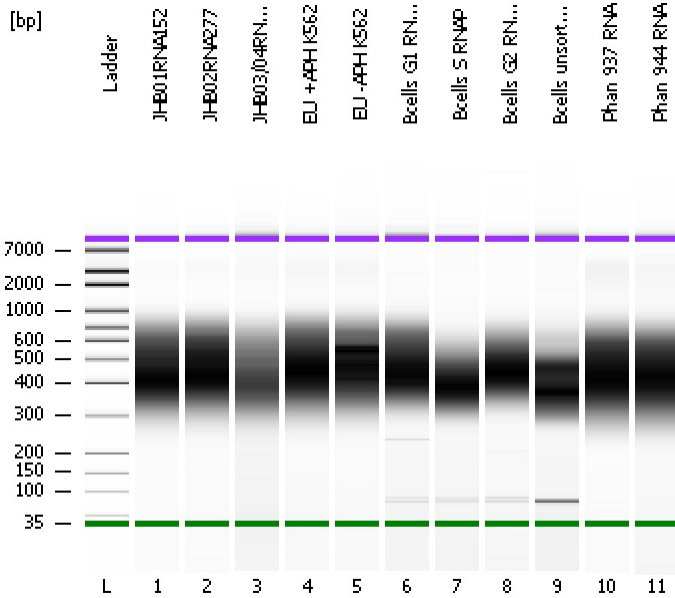


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
Modified: 10/25/2017 3:34:44 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

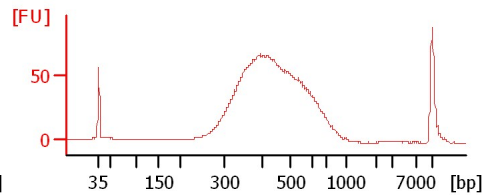
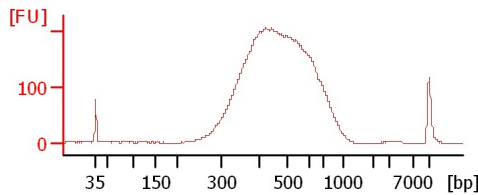
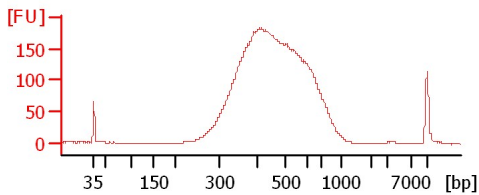
Chip Information:

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

JHB01RNA152

JHB02RNA277

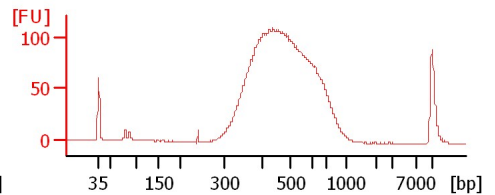
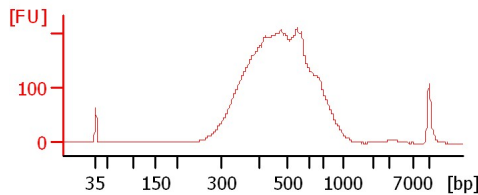
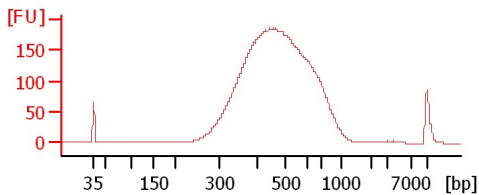
JHB03/04RNA279/425



EU +APH K562

EU -APH K562

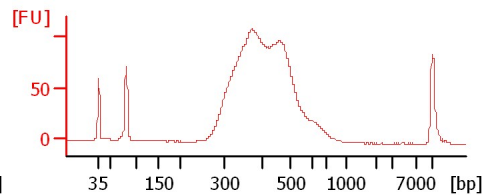
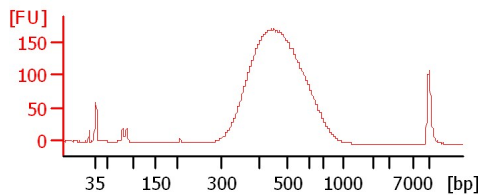
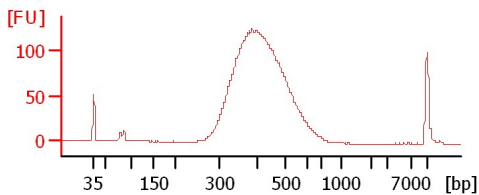
Bcells G1 RNAP



Bcells S RNAP

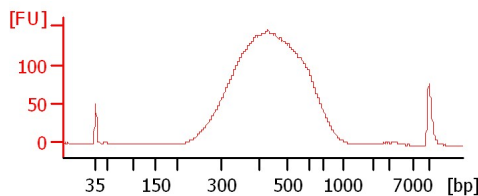
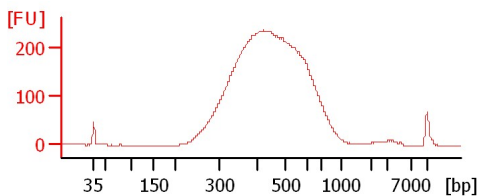
Bcells G2 RNAP

Bcells unsort RNAP



Phan 937 RNA

Phan 944 RNA



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
Modified: 10/25/2017 3:34:44 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JHB01RNA152		<input type="checkbox"/>	✓			
JHB02RNA277		<input type="checkbox"/>	✓			
JHB03/04RNA279/425		<input type="checkbox"/>	✓			
EU +APH K562		<input type="checkbox"/>	✓			
EU -APH K562		<input type="checkbox"/>	✓			
Bcells G1 RNAP		<input type="checkbox"/>	✓			
Bcells S RNAP		<input type="checkbox"/>	✓			
Bcells G2 RNAP		<input type="checkbox"/>	✓			
Bcells unsort RNAP		<input type="checkbox"/>	✓			
Phan 937 RNA		<input type="checkbox"/>	✓			
Phan 944 RNA		<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\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
Modified: 10/25/2017 3:34:44 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

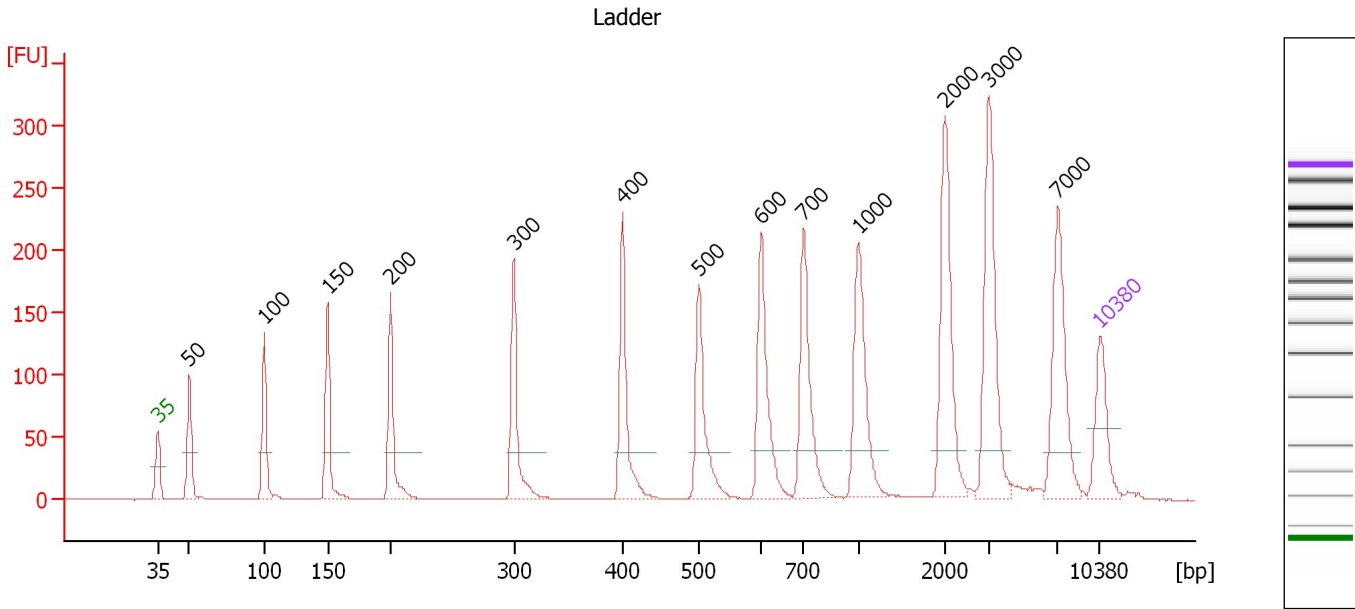
Ladder

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\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
 Modified: 10/25/2017 3:34:44 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

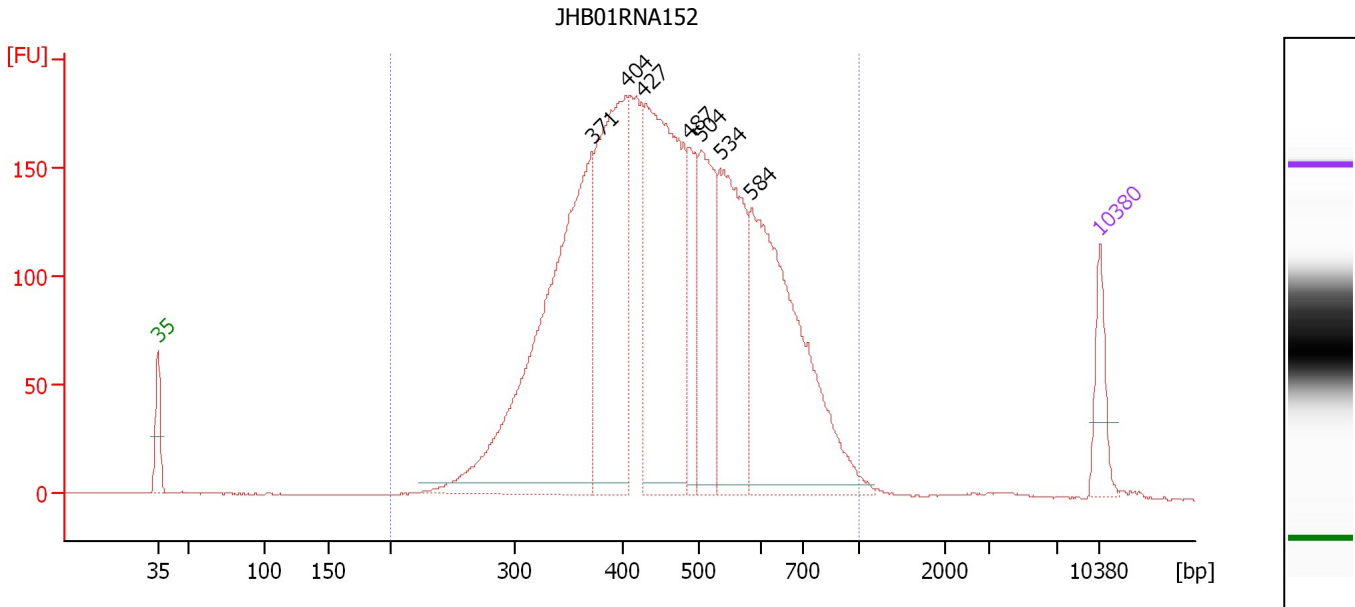
Peak table for Ladder

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	45.37
3	100	150.00	2,272.7	Ladder Peak	50.91
4	150	150.00	1,515.2	Ladder Peak	55.64
5	200	150.00	1,136.4	Ladder Peak	60.28
6	300	150.00	757.6	Ladder Peak	69.47
7	400	150.00	568.2	Ladder Peak	77.57
8	500	150.00	454.5	Ladder Peak	83.21
9	600	150.00	378.8	Ladder Peak	87.85
10	700	150.00	324.7	Ladder Peak	90.99
11	1,000	150.00	227.3	Ladder Peak	95.03
12	2,000	150.00	113.6	Ladder Peak	101.49
13	3,000	150.00	75.8	Ladder Peak	104.72
14	7,000	150.00	32.5	Ladder Peak	109.86
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
 Modified: 10/25/2017 3:34:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : JHB01RNA152

Number of peaks found: 7 Corr. Area 1: 4,124.5
 Noise: 0.2

Peak table for sample 1 : JHB01RNA152

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	371	1,160.03	4,732.0		75.25
3	404	688.62	2,579.9		77.82
4	427	850.89	3,018.3		79.10
5	487	178.76	556.0		82.48
6	504	311.91	937.5		83.40
7	534	459.96	1,305.8		84.77
8	584	752.55	1,952.5		87.10
9	10,380	75.00	10.9	Upper Marker	113.00

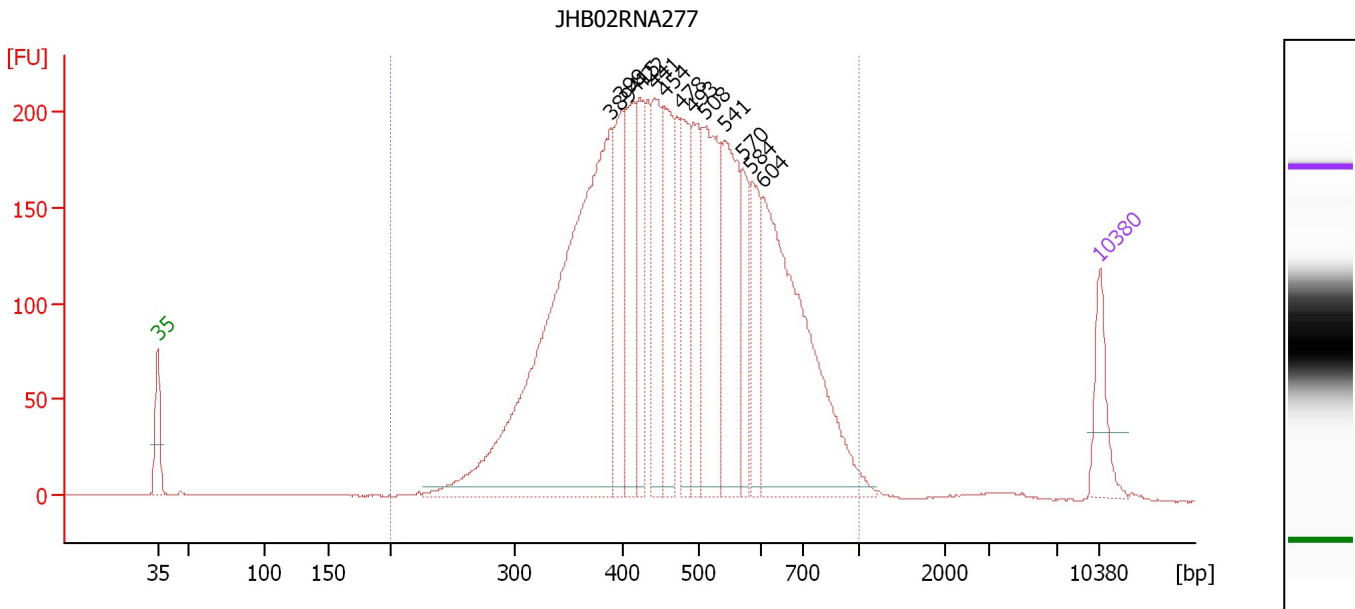
Region table for sample 1 : JHB01RNA152

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	473	4,124.5	16,948.7	4,832.22	98	26.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
 Modified: 10/25/2017 3:34:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : JHB02RNA277

Number of peaks found: 13 Corr. Area 1: 4,756.9
 Noise: 0.2

Peak table for sample 2 : JHB02RNA277

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	389	1,322.79	5,153.2		76.67
3	399	214.13	814.1		77.45
4	415	229.69	838.6		78.41
5	422	158.26	567.8		78.82
6	441	215.25	739.6		79.88
7	454	231.35	772.2		80.61
8	478	187.84	596.0		81.94
9	493	162.15	498.4		82.81
10	508	331.69	988.9		83.59
11	541	299.43	838.9		85.10
12	570	117.41	311.8		86.48
13	584	142.05	368.4		87.12
14	604	644.93	1,616.6		87.99
15	10,380	75.00	10.9	Upper Marker	113.00

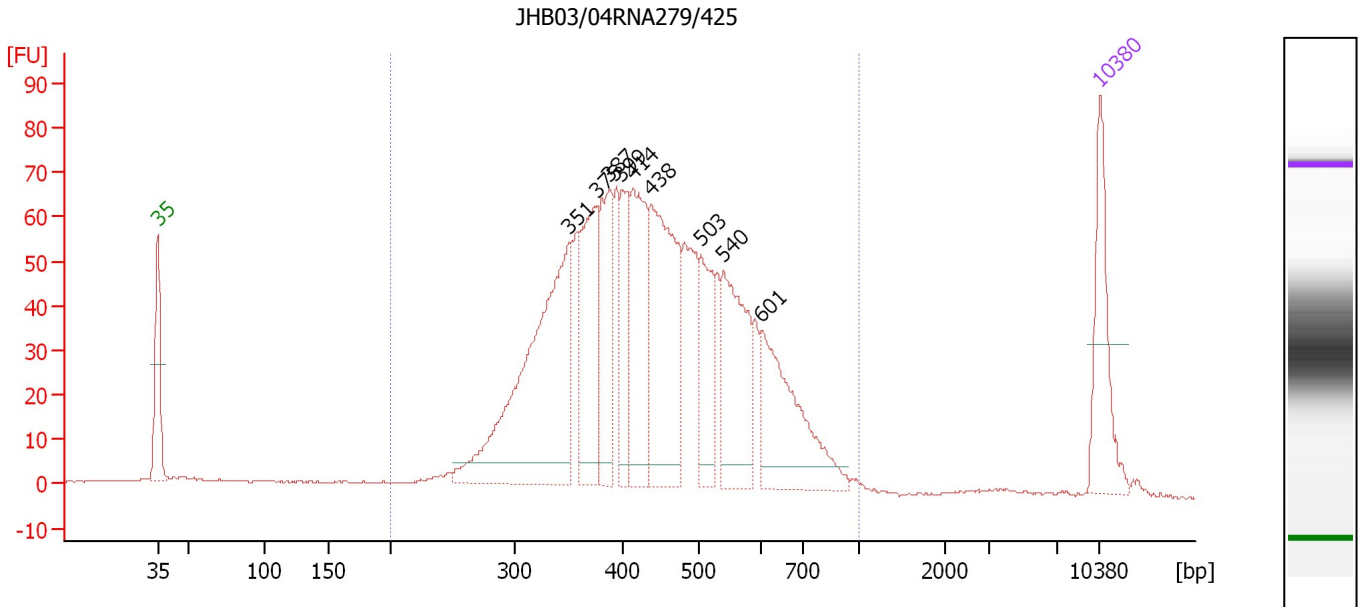
Region table for sample 2 : JHB02RNA277

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	483	4,756.9	16,125.1	4,687.30	98	26.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
 Modified: 10/25/2017 3:34:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : JHB03/04RNA279/425

Number of peaks found: 9 Corr. Area 1: 1,489.1
 Noise: 0.2

Peak table for sample 3 : JHB03/04RNA279/425

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	351	374.52	1,617.4		73.59
3	375	148.54	599.6		75.57
4	387	115.74	452.7		76.54
5	399	79.79	303.2		77.47
6	414	149.56	547.6		78.35
7	438	223.19	772.9		79.69
8	503	82.89	249.8		83.34
9	540	147.32	413.6		85.05
10	601	147.58	372.3		87.86
11	10,380	75.00	10.9	Upper Marker	113.00

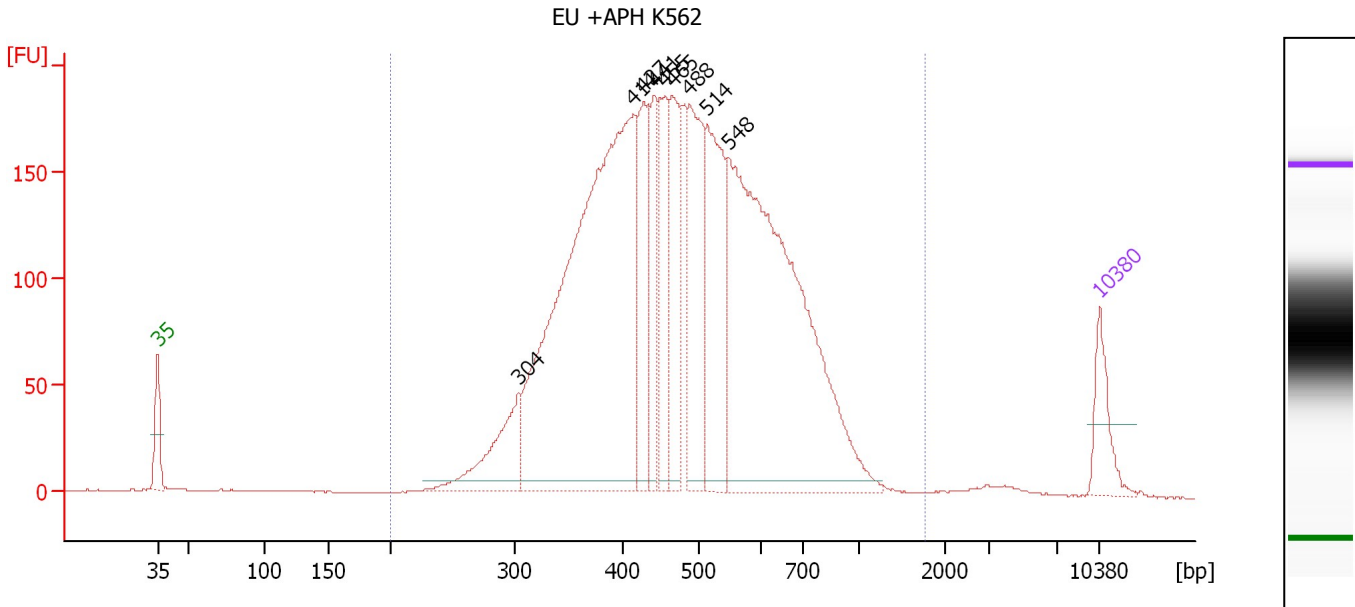
Region table for sample 3 : JHB03/04RNA279/425

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	450	1,489.1	6,836.9	1,857.91	95	26.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
 Modified: 10/25/2017 3:34:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : EU +APH K562

Number of peaks found: 9 Corr. Area 1: 4,253.3
 Noise: 0.2

Peak table for sample 4 : EU +APH K562

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	304	210.09	1,048.1		69.77
3	414	1,553.64	5,687.4		78.35
4	427	241.66	857.1		79.10
5	441	166.94	573.1		79.90
6	455	204.11	679.0		80.70
7	465	239.17	780.0		81.21
8	488	345.08	1,071.7		82.52
9	514	365.77	1,079.1		83.84
10	548	1,270.80	3,514.1		85.43
11	10,380	75.00	10.9	Upper Marker	113.00

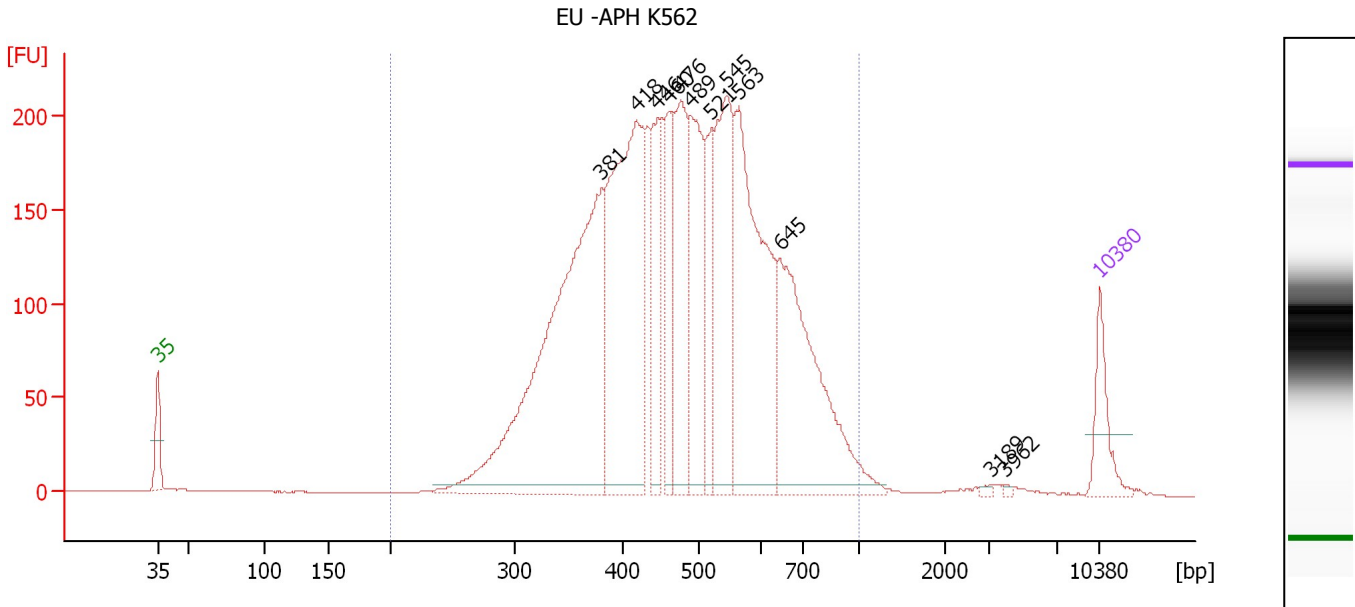
Region table for sample 4 : EU +APH K562

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,776	495	4,253.3	16,685.2	4,904.55	98	30.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
 Modified: 10/25/2017 3:34:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : EU-APH K562

Number of peaks found: 12 Corr. Area 1: 4,530.8
 Noise: 0.2

Peak table for sample 5 : EU-APH K562

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	381	1,127.24	4,488.4		75.99
3	418	757.00	2,743.1		78.59
4	446	226.78	770.8		80.15
5	460	165.72	545.8		80.95
6	476	319.16	1,016.0		81.85
7	489	302.71	937.2		82.61
8	521	148.32	431.6		84.17
9	545	361.23	1,004.0		85.30
10	563	595.08	1,600.1		86.15
11	645	495.70	1,163.7		89.27
12	3,189	4.08	1.9		104.96
13	3,962	3.07	1.2		105.96
14	10,380	75.00	10.9	Upper Marker	113.00

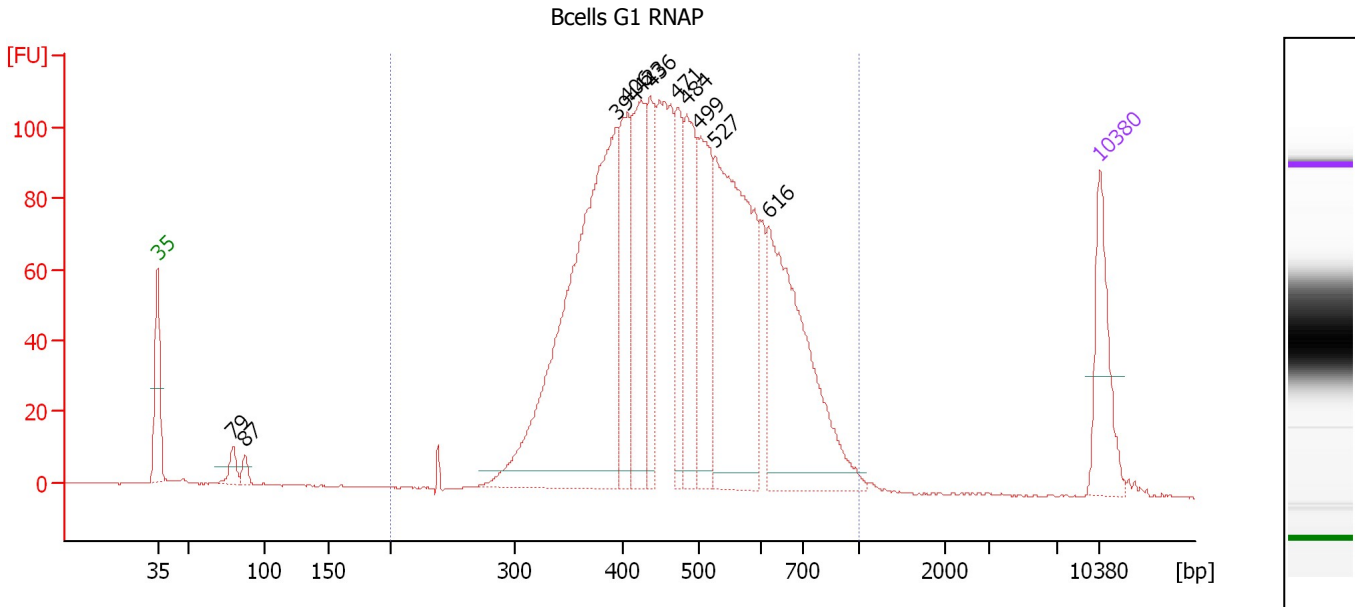
Region table for sample 5 : EU-APH K562

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	488	4,530.8	16,226.4	4,779.37	97	26.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
 Modified: 10/25/2017 3:34:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Bcells G1 RNAP

Number of peaks found: 11 Corr. Area 1: 2,224.2
 Noise: 0.2

Peak table for sample 6 : Bcells G1 RNAP

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	79	22.81	435.5		48.62
3	87	15.06	262.1		49.48
4	394	643.26	2,470.9		77.12
5	406	139.08	519.6		77.88
6	423	178.57	639.2		78.88
7	436	104.56	363.4		79.60
8	471	99.06	318.3		81.60
9	484	149.25	467.1		82.31
10	499	152.32	462.2		83.17
11	527	378.15	1,087.4		84.46
12	616	301.39	740.7		88.36
13	10,380	75.00	10.9	Upper Marker	113.00

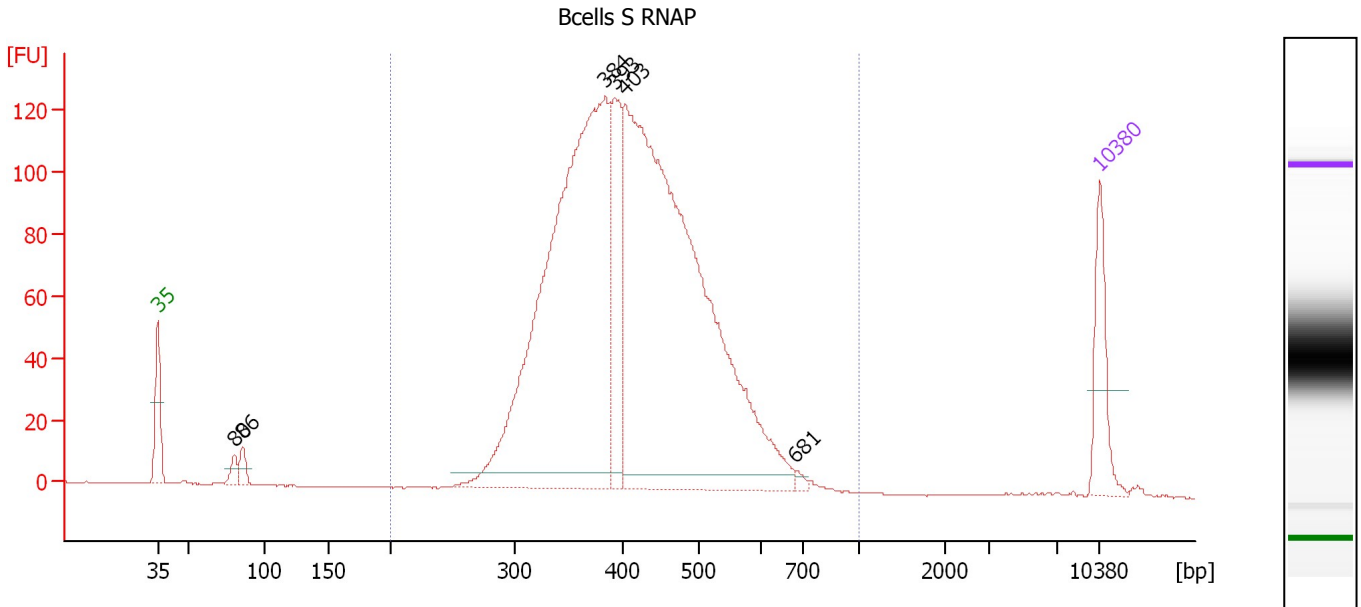
Region table for sample 6 : Bcells G1 RNAP

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	489	2,224.2	8,306.8	2,487.66	97	24.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
 Modified: 10/25/2017 3:34:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Bcells S RNAP

Number of peaks found: 6 Corr. Area 1: 2,103.8
 Noise: 0.2

Peak table for sample 7 : Bcells S RNAP

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	80	20.76	393.3		48.69
3	86	24.95	441.5		49.32
4	384	1,140.34	4,504.3		76.24
5	393	181.88	702.1		76.96
6	403	1,334.92	5,019.4		77.73
7	681	7.16	15.9		90.37
8	10,380	75.00	10.9	Upper Marker	113.00

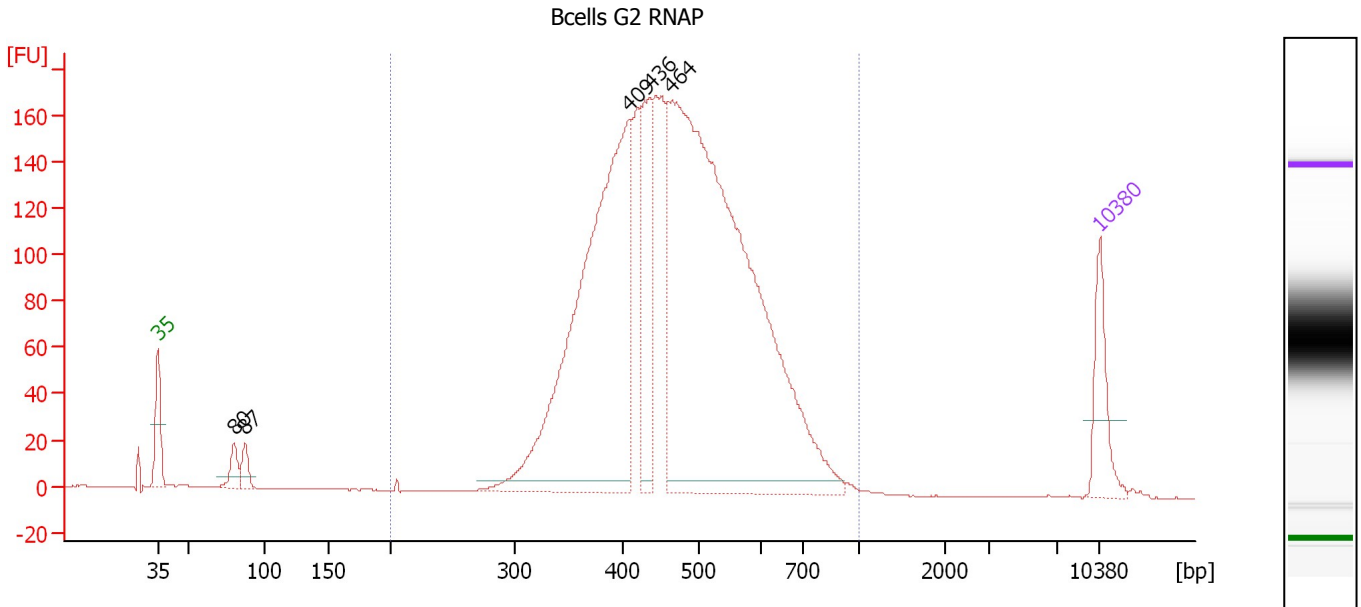
Region table for sample 7 : Bcells S RNAP

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	420	2,103.8	10,221.8	2,706.15	98	19.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
 Modified: 10/25/2017 3:34:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Bcells G2 RNAP

Number of peaks found: 5 Corr. Area 1: 2,913.0
 Noise: 0.1

Peak table for sample 8 : Bcells G2 RNAP

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	80	40.53	769.0		48.68
3	87	34.34	596.0		49.50
4	409	967.02	3,586.5		78.05
5	436	212.50	738.4		79.60
6	464	1,593.87	5,209.1		81.16
7	10,380	75.00	10.9	Upper Marker	113.00

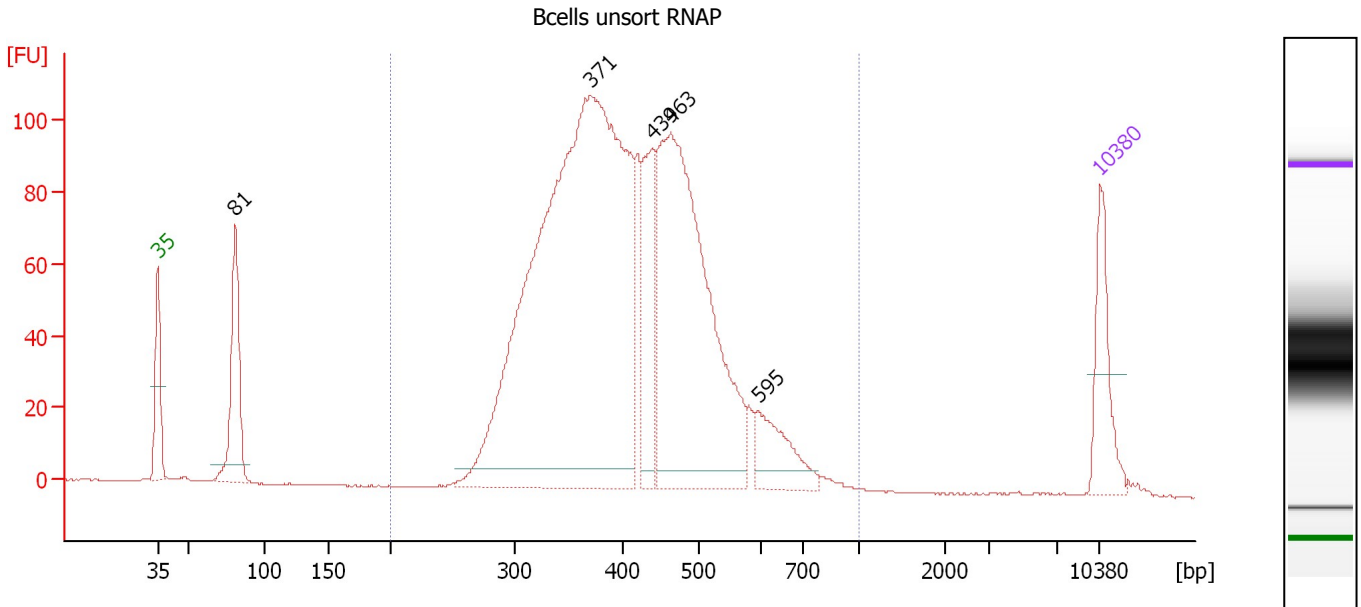
Region table for sample 8 : Bcells G2 RNAP

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	475	2,913.0	10,476.4	3,112.46	97	21.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
 Modified: 10/25/2017 3:34:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Bcells unsort RNAP

Number of peaks found: 5 Corr. Area 1: 1,980.3
 Noise: 0.1

Peak table for sample 9 : Bcells unsort RNAP

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	81	197.28	3,698.7		48.78
3	371	1,459.61	5,968.8		75.18
4	439	156.06	539.0		79.75
5	463	663.42	2,171.8		81.11
6	595	82.07	208.9		87.63
7	10,380	75.00	10.9	Upper Marker	113.00

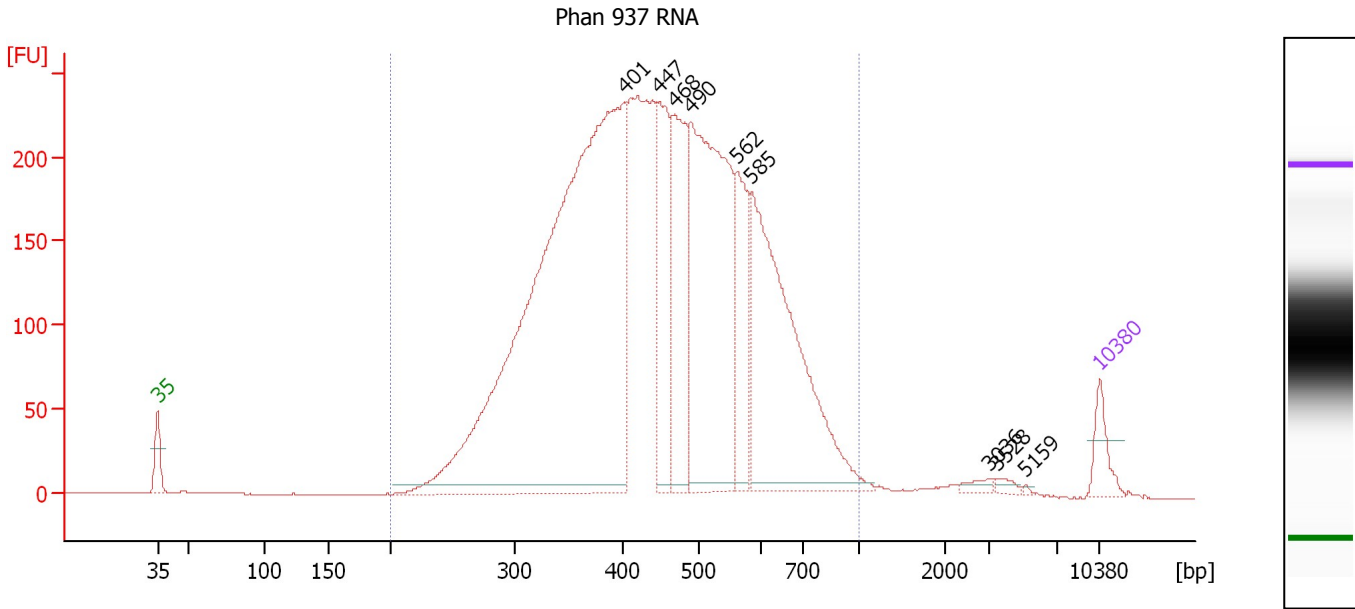
Region table for sample 9 : Bcells unsort RNAP

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	418	1,980.3	9,682.3	2,523.59	94	21.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
 Modified: 10/25/2017 3:34:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Phan 937 RNA

Number of peaks found: 9 Corr. Area 1: 5,645.4
 Noise: 0.2

Peak table for sample 10 : Phan 937 RNA

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	401	3,655.37	13,805.2		77.63
3	447	520.57	1,764.7		80.22
4	468	560.10	1,814.5		81.39
5	490	1,376.35	4,254.6		82.65
6	562	368.70	994.9		86.06
7	585	1,157.77	3,000.6		87.13
8	3,036	20.12	10.0		104.77
9	3,528	16.56	7.1		105.40
10	5,159	3.32	1.0		107.50
11	10,380	75.00	10.9	Upper Marker	113.00

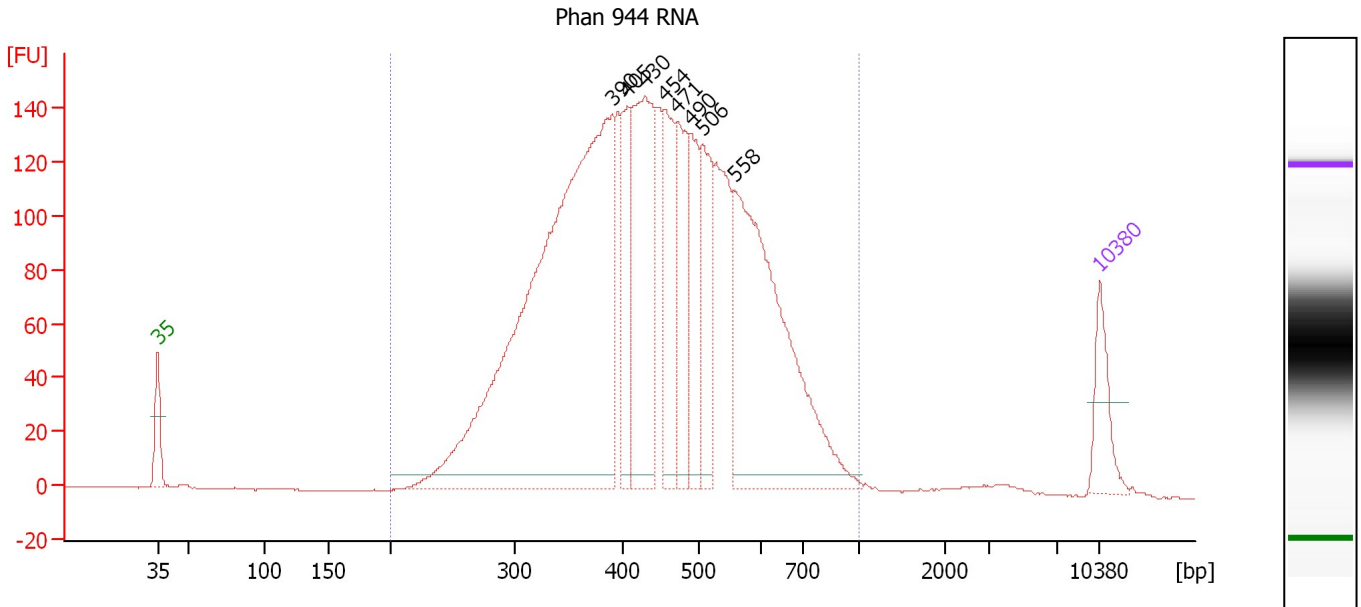
Region table for sample 10 : Phan 937 RNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	460	5,645.4	33,668.5	9,258.79	98	27.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
 Modified: 10/25/2017 3:34:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Phan 944 RNA

Number of peaks found: 8 Corr. Area 1: 3,353.3
 Noise: 0.2

Peak table for sample 11 : Phan 944 RNA

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	390	1,698.17	6,598.6		76.75
3	405	167.99	627.7		77.88
4	430	454.81	1,603.4		79.25
5	454	226.99	757.4		80.62
6	471	206.52	665.0		81.55
7	490	176.05	544.8		82.62
8	506	195.85	586.0		83.50
9	558	735.09	1,995.9		85.90
10	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : Phan 944 RNA

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	452	3,353.3	17,052.6	4,635.28	99	26.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-25\2017-10-25_003.xad

Created: 10/25/2017 2:53:24 PM
Modified: 10/25/2017 3:34:44 PM

Gel Image

