

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_003.xad

Created: 8/18/2014 11:28:03 AM
Modified: 8/18/2014 12:03:43 PM

Electrophoresis File Run Summary

Instrument Information:

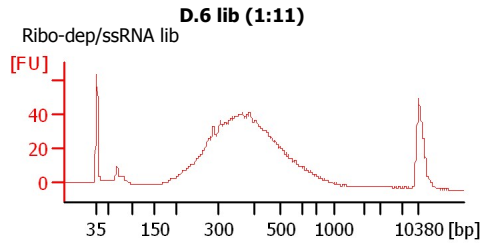
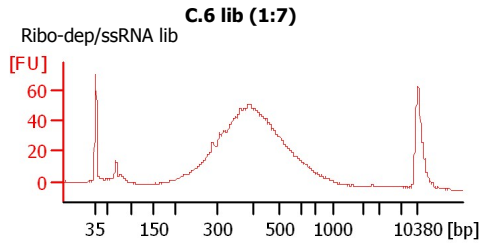
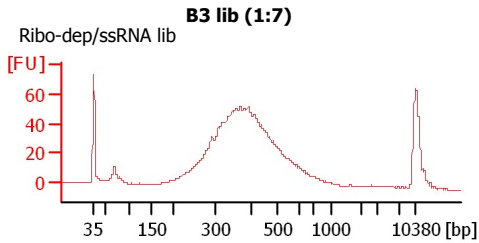
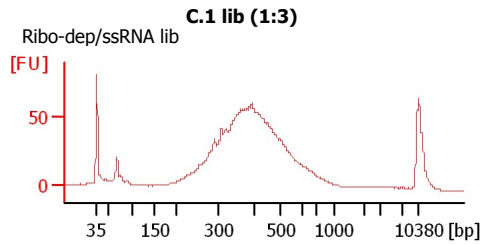
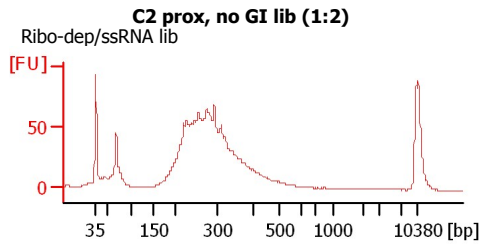
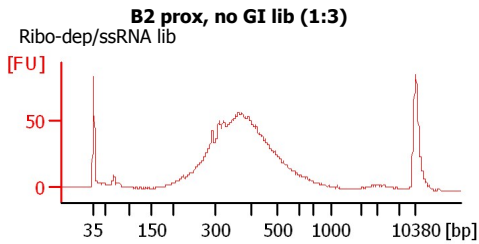
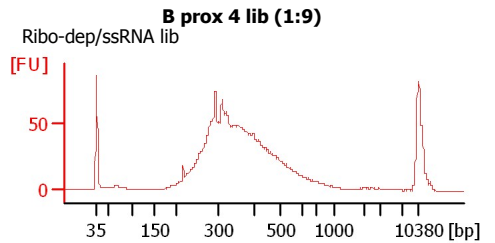
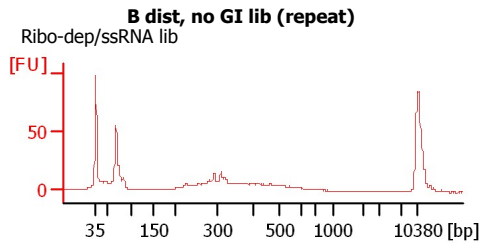
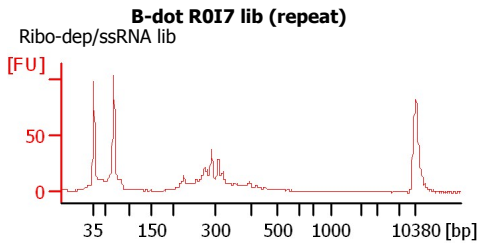
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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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 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_003.xad

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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
B-dot ROI7 lib (repeat)	Ribo-dep/ssRNA lib	<input type="checkbox"/>	✓			
B dist, no GI lib (repeat)	Ribo-dep/ssRNA lib	<input type="checkbox"/>	✓			
B prox 4 lib (1:9)	Ribo-dep/ssRNA lib	<input type="checkbox"/>	✓			
B2 prox, no GI lib (1:3)	Ribo-dep/ssRNA lib	<input type="checkbox"/>	✓			
C2 prox, no GI lib (1:2)	Ribo-dep/ssRNA lib	<input type="checkbox"/>	✓			
C.1 lib (1:3)	Ribo-dep/ssRNA lib	<input type="checkbox"/>	✓			
B3 lib (1:7)	Ribo-dep/ssRNA lib	<input type="checkbox"/>	✓			
C.6 lib (1:7)	Ribo-dep/ssRNA lib	<input type="checkbox"/>	✓			
D.6 lib (1:11)	Ribo-dep/ssRNA lib	<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>				
sample 11		<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

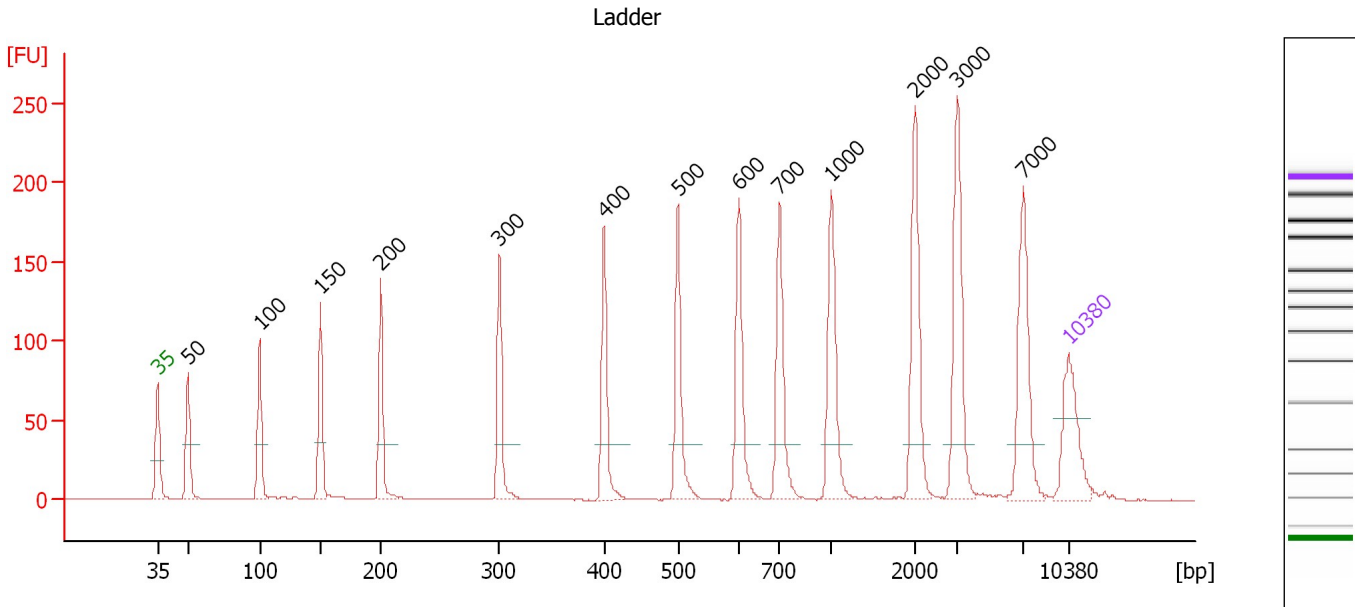
Ladder

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

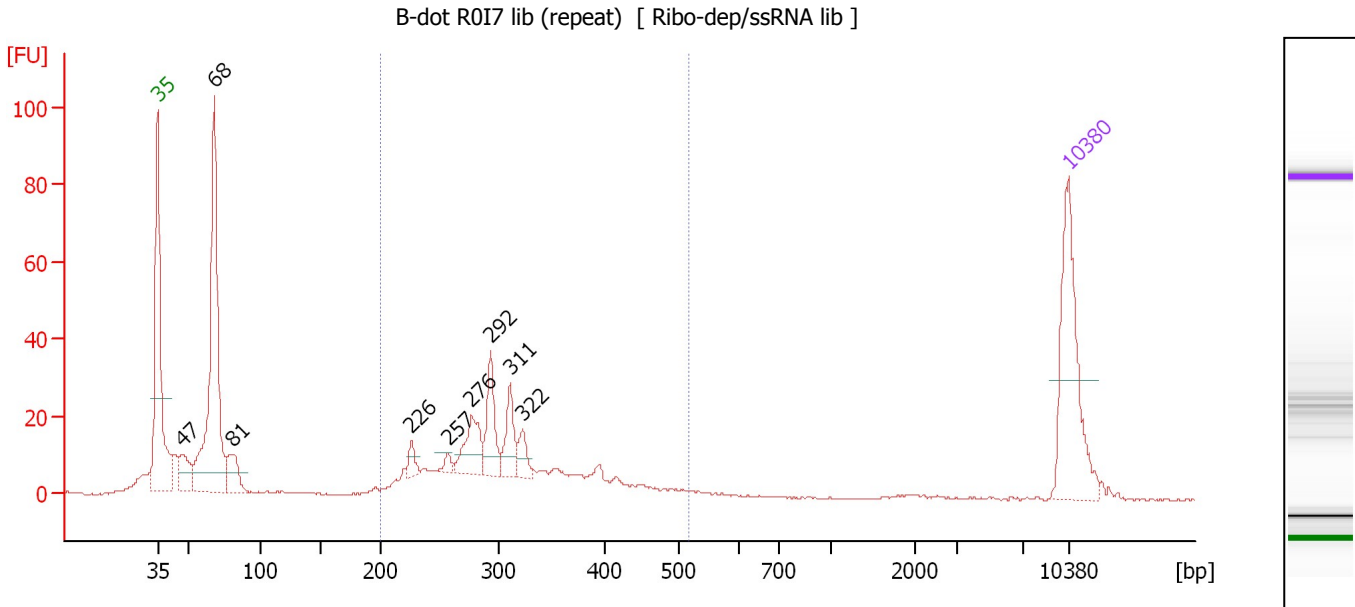
Peak table for Ladder

Peak	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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : B-dot R0I7 lib (repeat)

Number of peaks found: 9 Corr. Area 1: 287.0
 Noise: 0.2

Peak table for sample 1 : B-dot R0I7 lib (repeat)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	28.59	913.4	
3	68	234.46	5,206.2	
4	81	28.81	535.8	
5	226	10.41	69.9	
6	257	5.50	32.5	
7	276	35.79	196.1	
8	292	37.14	192.4	
9	311	27.19	132.7	
10	322	14.68	69.0	
11	10,380	75.00	10.9	Upper Marker

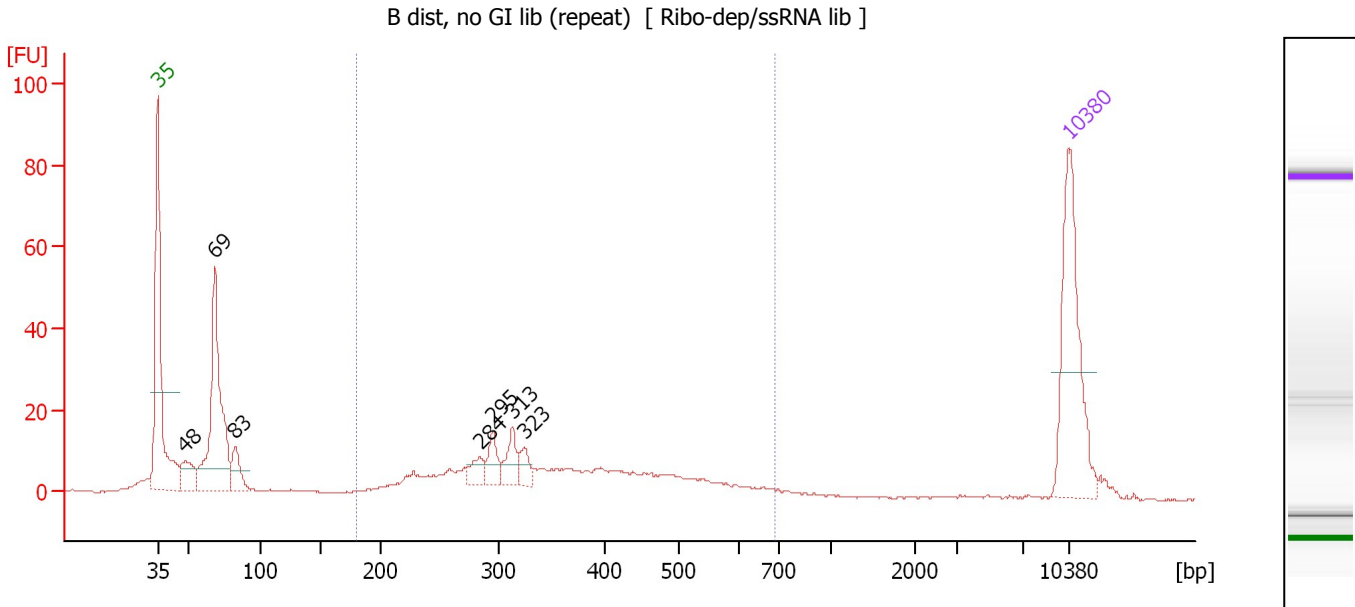
Region table for sample 1 : B-dot R0I7 lib (repeat)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	518	311	1,602.9	314.03	287.0	50	20.2

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Electropherogram Summary Continued ...



Overall Results for sample 2 : B dist, no GI lib (repeat)

Number of peaks found: 7 Corr. Area 1: 242.4
 Noise: 0.2

Peak table for sample 2 : B dist, no GI lib (repeat)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	23.71	743.2	
3	69	145.29	3,198.2	
4	83	21.89	399.8	
5	284	12.29	65.6	
6	295	16.44	84.6	
7	313	18.18	88.1	
8	323	11.51	53.9	
9	10,380	75.00	10.9	Upper Marker

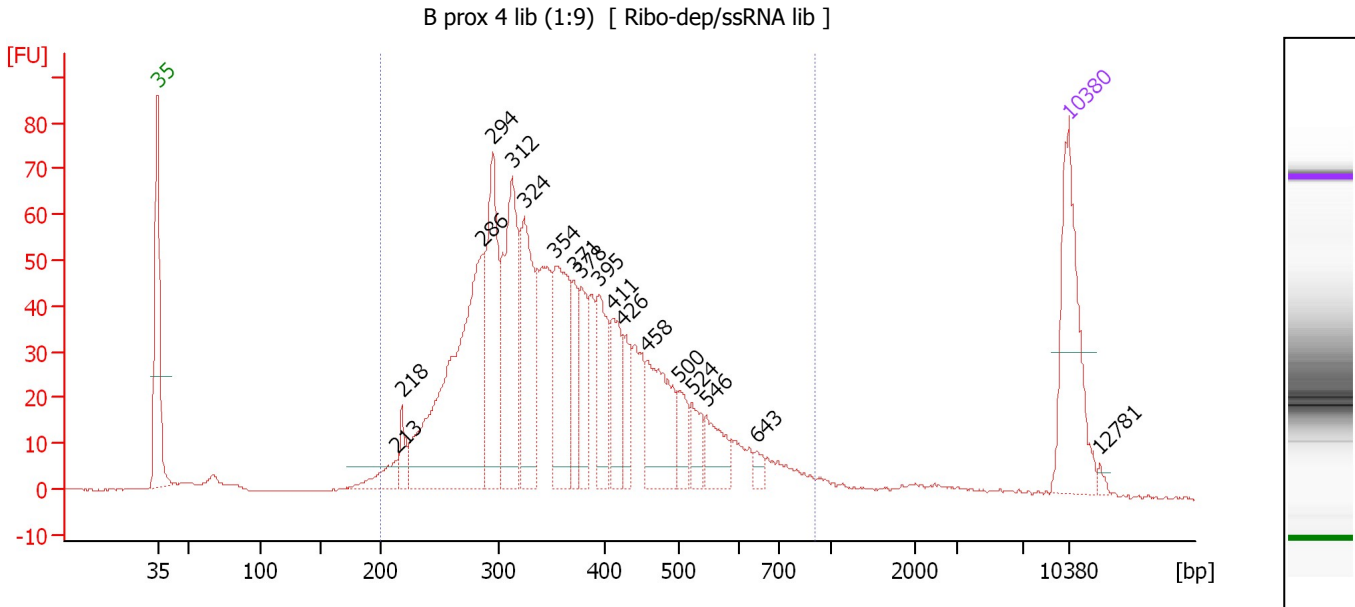
Region table for sample 2 : B dist, no GI lib (repeat)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
180	690	367	1,111.0	239.43	242.4	56	29.6

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Electropherogram Summary Continued ...



Overall Results for sample 3 : B prox 4 lib (1:9)

Number of peaks found: 18 Corr. Area 1: 1,323.7
 Noise: 0.1

Peak table for sample 3 : B prox 4 lib (1:9)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	213	21.15	150.4	
3	218	19.14	133.2	
4	286	261.97	1,387.5	
5	294	116.81	601.6	
6	312	133.00	645.2	
7	324	97.39	455.8	
8	354	95.28	408.4	
9	371	36.29	148.1	
10	378	42.15	168.9	
11	395	53.77	206.1	
12	411	43.68	161.0	
13	426	26.14	93.0	
14	458	72.36	239.1	
15	500	21.91	66.4	
16	524	19.80	57.3	
17	546	27.73	76.9	
18	643	6.86	16.2	
19	10,380	75.00	10.9	Upper Marker
20	12,781	0.00	0.0	

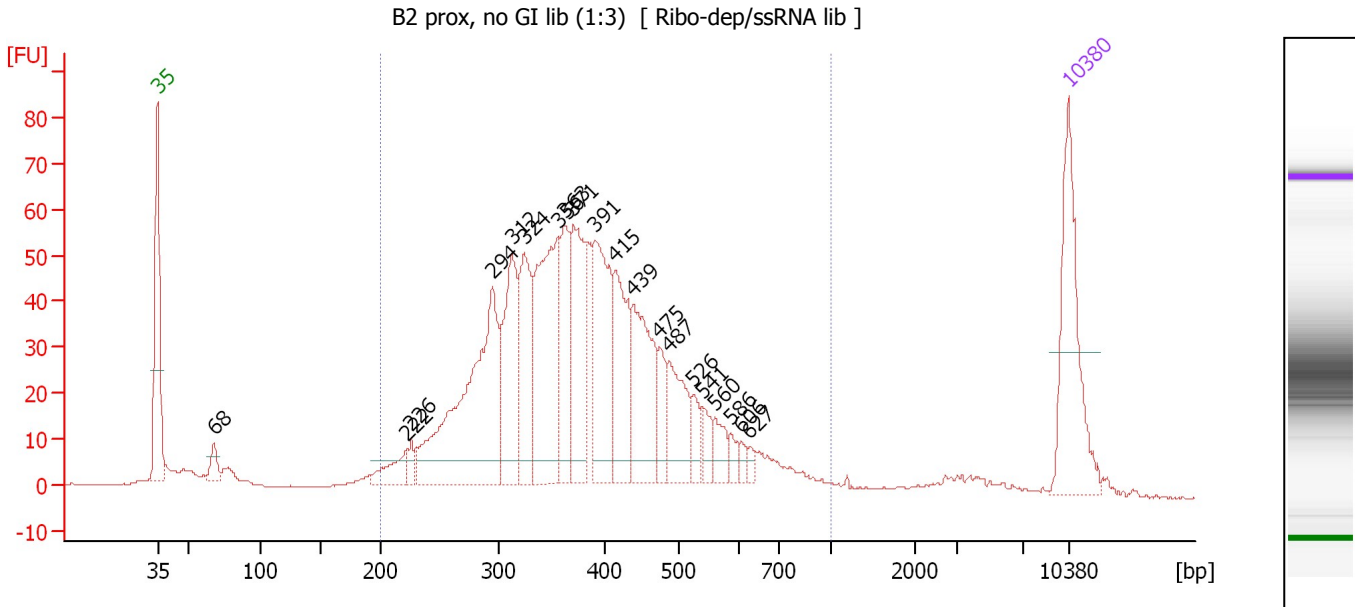
Region table for sample 3 : B prox 4 lib (1:9)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	910	376	6,007.3	1,347.49	1,323.7	95	29.4

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Electropherogram Summary Continued ...



Overall Results for sample 4 : B2 prox, no GI lib (1:3)

Number of peaks found: 20 Corr. Area 1: 1,245.4
 Noise: 0.2

Peak table for sample 4 : B2 prox, no GI lib (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	68	15.17	336.8	
3	222	24.04	164.3	
4	226	9.77	65.5	
5	294	213.76	1,100.8	
6	312	91.78	445.6	
7	324	81.16	379.3	
8	356	144.84	616.1	
9	363	61.15	255.5	
10	371	86.85	355.0	
11	391	103.32	400.4	
12	415	72.75	265.4	
13	439	85.96	296.5	
14	475	23.84	76.1	
15	487	50.02	155.5	
16	526	16.30	47.0	
17	541	13.50	37.8	
18	560	15.03	40.7	
19	586	7.15	18.5	
20	606	6.37	15.9	
21	627	4.62	11.2	
22	10,380	75.00	10.9	Upper Marker

Region table for sample 4 : B2 prox, no GI lib (1:3)

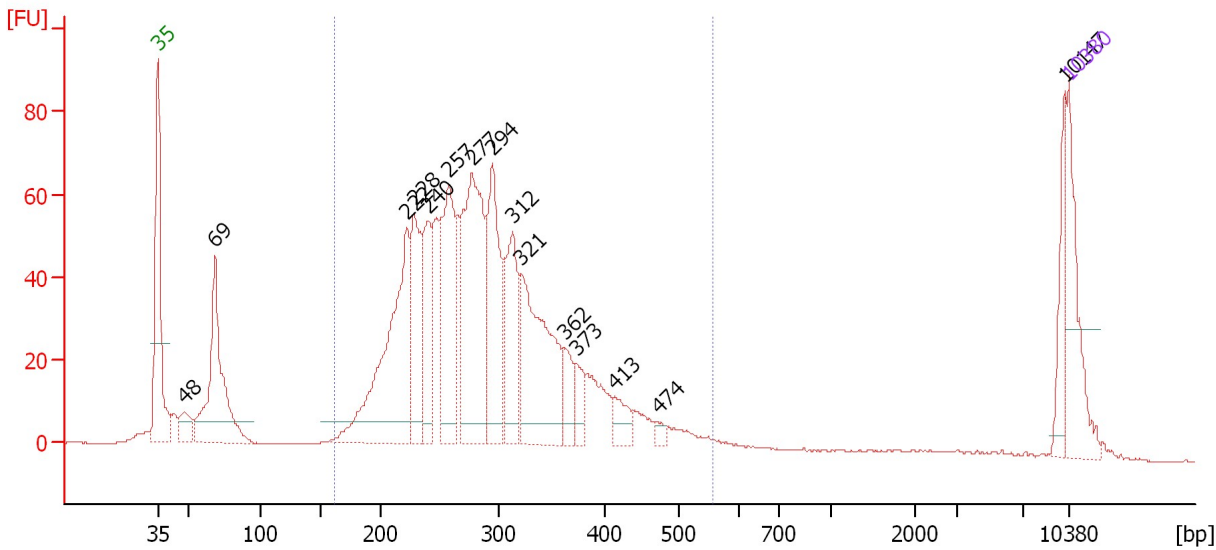
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	394	5,349.8	1,265.24	1,245.4	91	28.4

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Electropherogram Summary Continued ...

C2 prox, no GI lib (1:2) [Ribo-dep/ssRNA lib]



Overall Results for sample 5 : C2 prox, no GI lib (1:2)

Number of peaks found: 15 Corr. Area 1: 1,239.4
 Noise: 0.2

Peak table for sample 5 : C2 prox, no GI lib (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	30.24	954.9	
3	69	205.63	4,532.5	
4	222	277.04	1,892.2	
5	228	115.90	769.9	
6	240	99.90	630.5	
7	257	170.19	1,002.4	
8	277	270.43	1,479.0	
9	294	156.94	808.2	
10	312	106.64	517.4	
11	321	208.20	982.4	
12	362	34.64	145.1	
13	373	25.62	103.9	
14	413	26.27	96.3	
15	474	7.97	25.5	
16	10,147	40.06	6.0	
17	10,380	75.00	10.9	Upper Marker

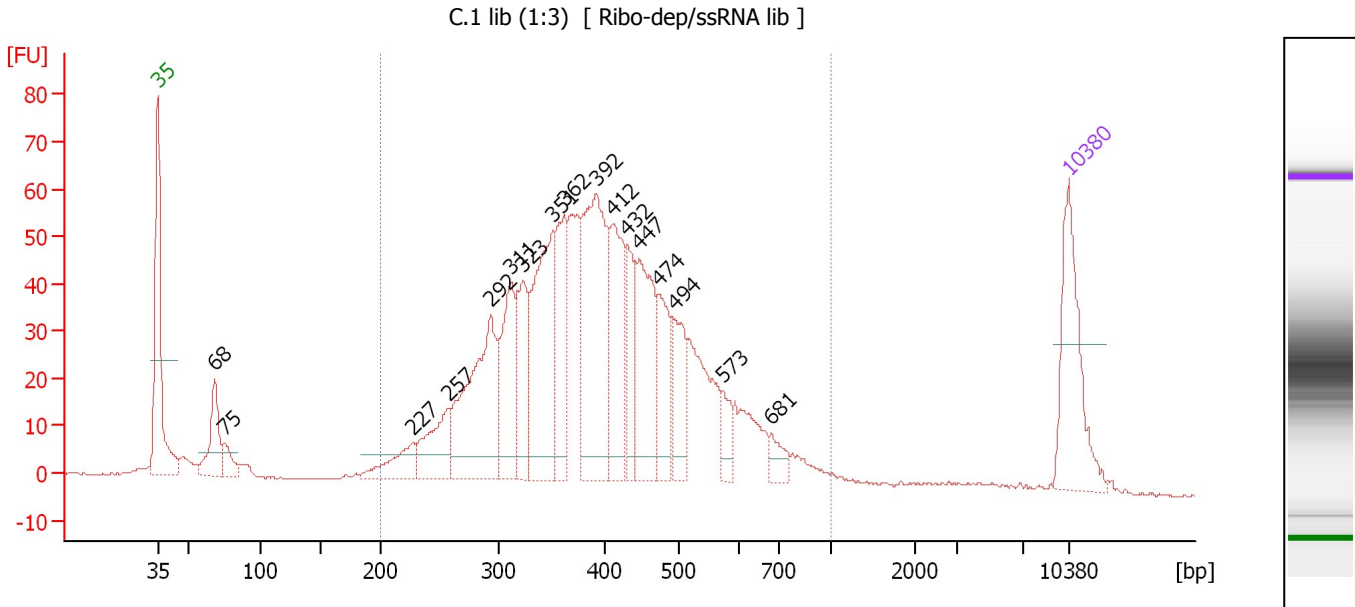
Region table for sample 5 : C2 prox, no GI lib (1:2)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
161	558	294	10,148.6	1,839.91	1,239.4	83	23.9

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Electropherogram Summary Continued ...



Overall Results for sample 6 : C.1 lib (1:3)

Number of peaks found: 17 Corr. Area 1: 1,301.4
 Noise: 0.1

Peak table for sample 6 : C.1 lib (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	68	57.13	1,264.8	
3	75	21.39	429.4	
4	227	38.50	257.0	
5	257	58.91	347.9	
6	292	168.42	872.4	
7	311	91.61	446.0	
8	323	74.16	348.4	
9	351	159.60	688.6	
10	362	82.31	344.6	
11	392	186.07	718.6	
12	412	101.89	374.7	
13	432	47.69	167.4	
14	447	104.26	353.5	
15	474	59.32	189.6	
16	494	51.37	157.4	
17	573	18.24	48.3	
18	681	14.86	33.1	
19	10,380	75.00	10.9	Upper Marker

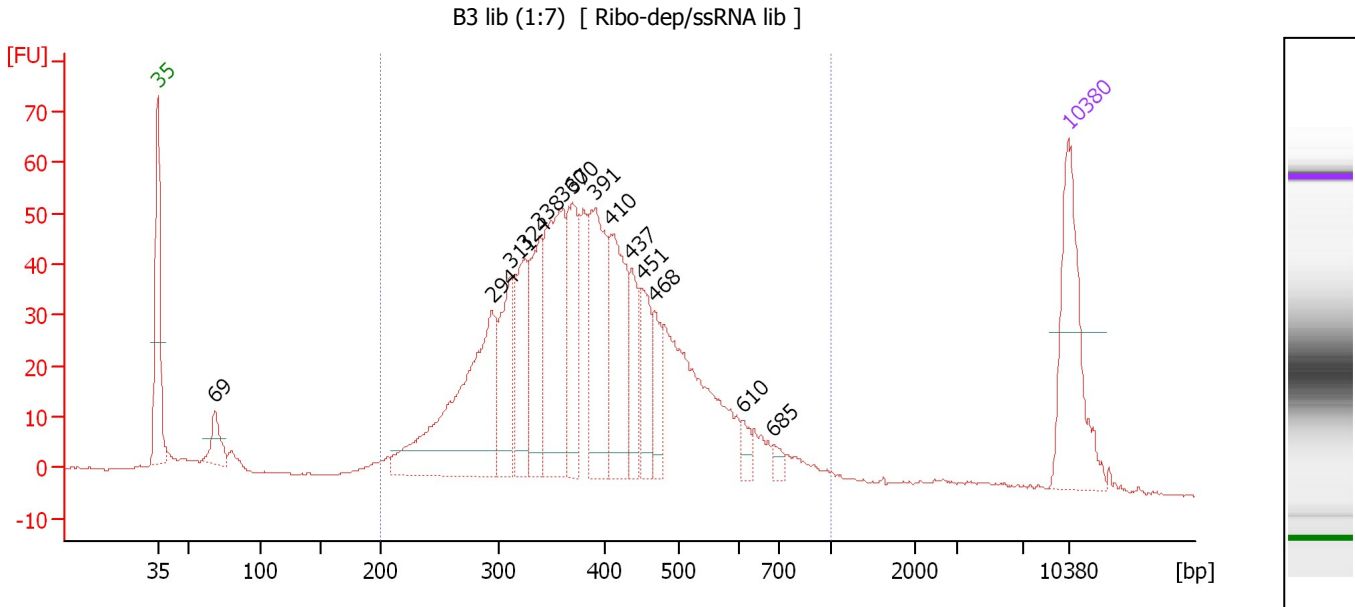
Region table for sample 6 : C.1 lib (1:3)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
200	1,000	412	6,367.3	1,565.24	1,301.4	92	28.6

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Electropherogram Summary Continued ...



Overall Results for sample 7 : B3 lib (1:7)

Number of peaks found: 14 Corr. Area 1: 1,164.2
 Noise: 0.2

Peak table for sample 7 : B3 lib (1:7)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	69	28.15	618.4	
3	294	201.94	1,042.4	
4	311	69.07	336.7	
5	324	69.53	325.0	
6	338	72.90	326.7	
7	360	128.30	540.3	
8	370	76.25	312.2	
9	391	103.02	399.6	
10	410	85.80	317.2	
11	437	39.41	136.8	
12	451	42.07	141.3	
13	468	28.88	93.6	
14	610	9.33	23.2	
15	685	6.55	14.5	
16	10,380	75.00	10.9	Upper Marker

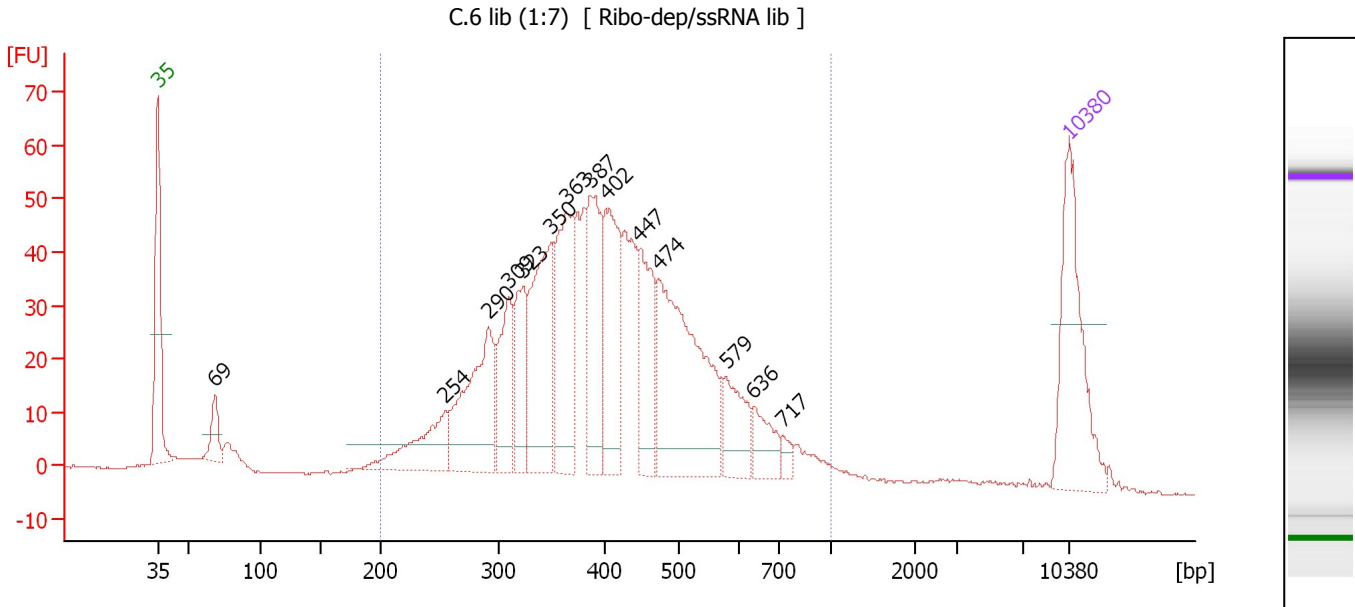
Region table for sample 7 : B3 lib (1:7)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	403	5,090.1	1,229.43	1,164.2	92	28.6

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Electropherogram Summary Continued ...



Overall Results for sample 8 : C.6 lib (1:7)

Number of peaks found: 14 Corr. Area 1: 1,136.3
 Noise: 0.1

Peak table for sample 8 : C.6 lib (1:7)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	69	24.96	550.6	
3	254	58.98	352.0	
4	290	111.92	584.1	
5	309	60.50	296.4	
6	323	55.41	260.1	
7	350	117.79	510.2	
8	363	100.58	419.4	
9	387	82.80	324.4	
10	402	94.49	356.1	
11	447	68.02	230.3	
12	474	173.97	556.5	
13	579	39.16	102.4	
14	636	25.12	59.9	
15	717	7.30	15.4	
16	10,380	75.00	10.9	Upper Marker

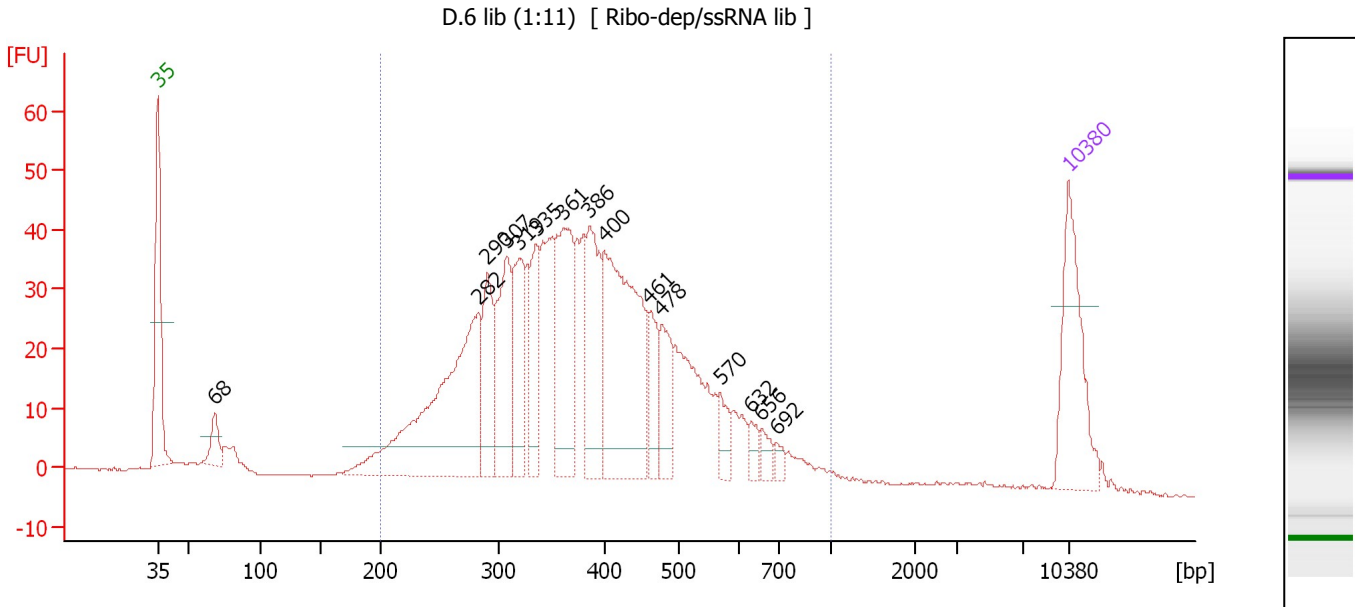
Region table for sample 8 : C.6 lib (1:7)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	420	4,872.9	1,214.43	1,136.3	93	29.3

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Electropherogram Summary Continued ...



Overall Results for sample 9 : D.6 lib (1:11)

Number of peaks found: 15 Corr. Area 1: 1,006.7
 Noise: 0.2

Peak table for sample 9 : D.6 lib (1:11)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	68	25.84	573.2	
3	282	261.57	1,406.4	
4	290	74.35	388.4	
5	307	91.56	451.3	
6	319	76.97	365.3	
7	335	65.71	297.4	
8	361	115.67	485.6	
9	386	91.68	360.1	
10	400	208.02	787.8	
11	461	36.30	119.2	
12	478	43.36	137.4	
13	570	19.19	51.0	
14	632	11.19	26.8	
15	656	10.64	24.6	
16	692	6.95	15.2	
17	10,380	75.00	10.9	Upper Marker

Region table for sample 9 : D.6 lib (1:11)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	396	6,276.0	1,470.95	1,006.7	93	30.2

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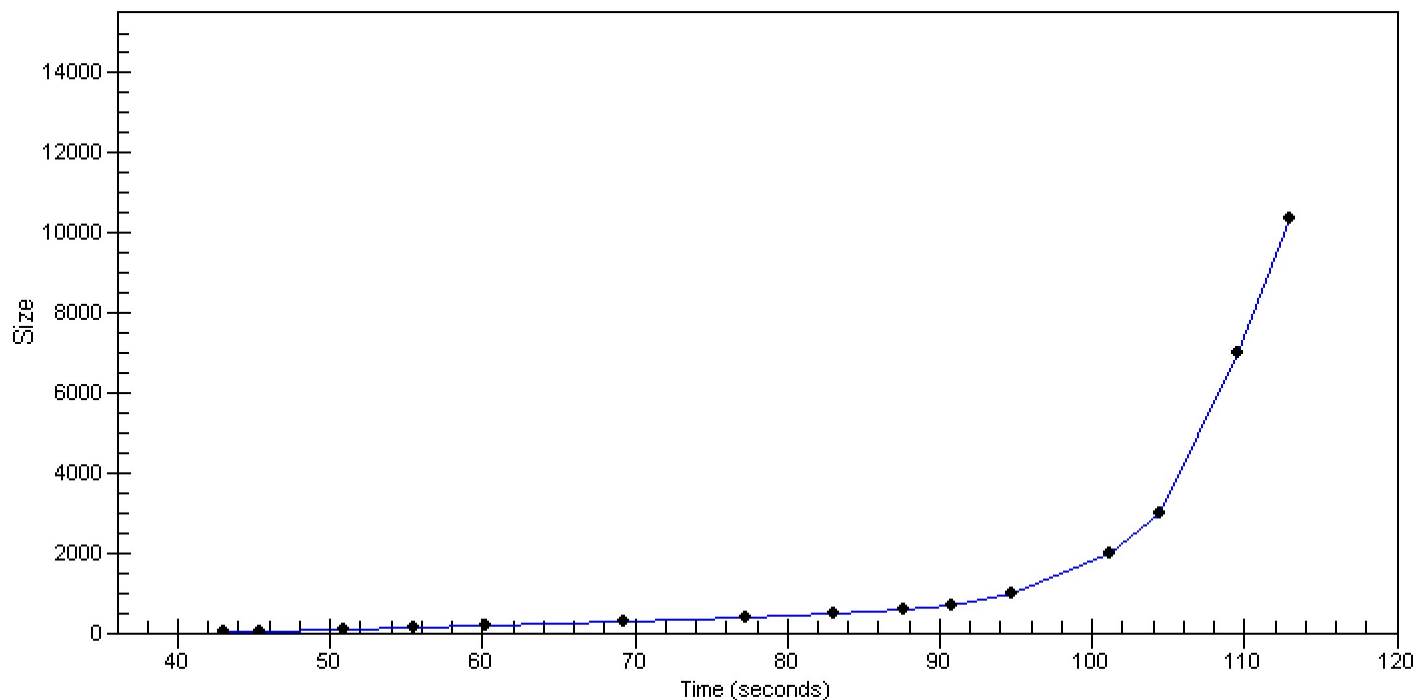
Gel Image

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Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_003.xad

Created: 8/18/2014 11:28:03 AM
Modified: 8/18/2014 12:03:43 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_003.xad

Created: 8/18/2014 11:28:03 AM
 Modified: 8/18/2014 12:03:43 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		8/18/2014 12:03:39 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\2014-08-18\2014-08-18_003.xad)		Instrument	Run		8/18/2014 11:28:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/18/2014 11:28:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/18/2014 11:28:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/18/2014 11:28:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/18/2014 11:28:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/18/2014 11:28:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/18/2014 11:28:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1