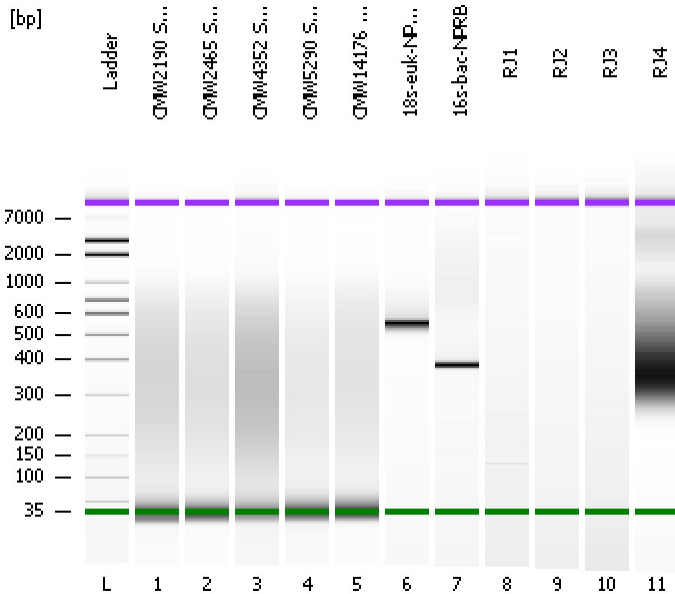


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

Created: 5/9/2014 10:02:41 AM
Modified: 5/9/2014 10:58:37 AM

Electrophoresis File Run Summary



Instrument Information:

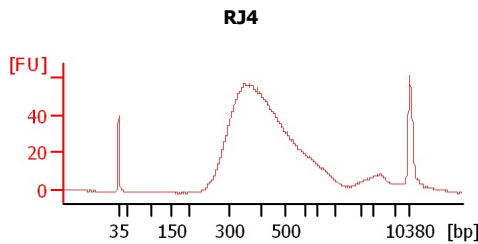
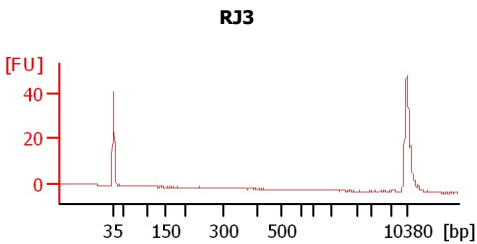
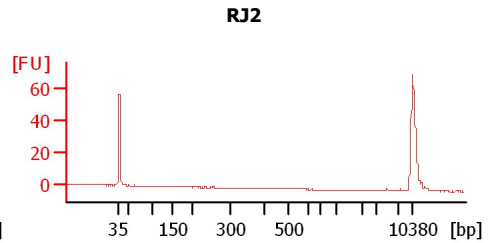
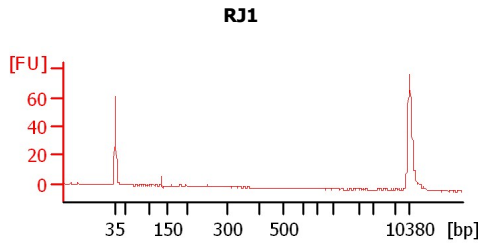
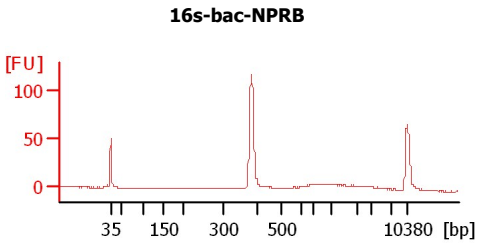
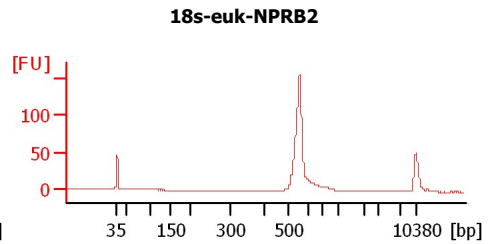
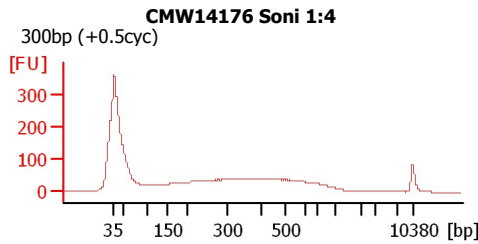
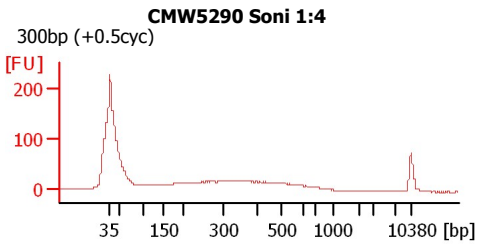
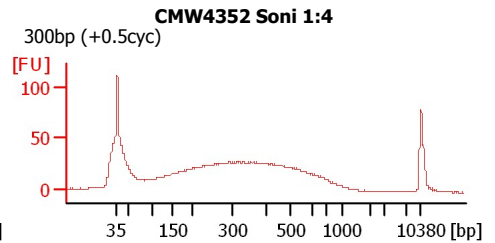
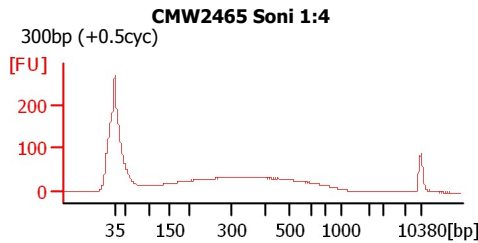
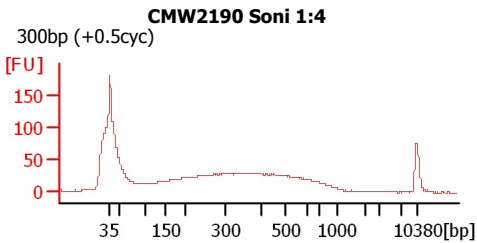
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2014-05-09\2014-05-09_005.xad

Created: 5/9/2014 10:02:41 AM
 Modified: 5/9/2014 10:58:37 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
CMW2190 Soni 1:4	300bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW2465 Soni 1:4	300bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW4352 Soni 1:4	300bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW5290 Soni 1:4	300bp (+0.5cyc)	<input type="checkbox"/>	✓			
CMW14176 Soni 1:4	300bp (+0.5cyc)	<input type="checkbox"/>	✓			
18s-euk-NPRB2		<input type="checkbox"/>	✓			
16s-bac-NPRB		<input type="checkbox"/>	✓			
RJ1		<input type="checkbox"/>	✓			
RJ2		<input type="checkbox"/>	✓			
RJ3		<input type="checkbox"/>	✓			
RJ4		<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\2014-05-09\2014-05-09_005.xad

Created: 5/9/2014 10:02:41 AM
Modified: 5/9/2014 10:58:37 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

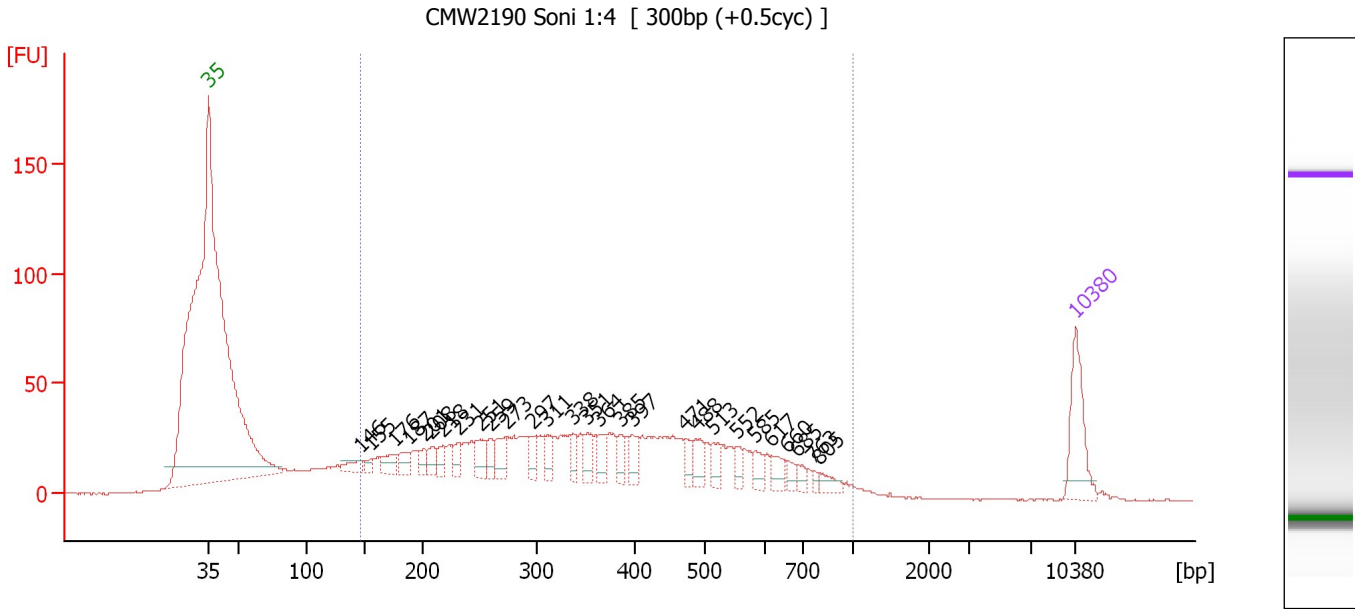
Ladder

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\2014-05-09\2014-05-09_005.xad

Created: 5/9/2014 10:02:41 AM
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Electropherogram Summary



Overall Results for sample 1 : CMW2190 Soni 1:4

Number of peaks found: 28 Corr. Area 1: 1,298.3
 Noise: 0.2

Peak table for sample 1 : CMW2190 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	146	27.18	281.3	
3	155	12.44	121.9	
4	176	33.50	288.4	
5	187	27.06	219.1	
6	201	18.23	137.4	
7	208	25.56	186.5	
8	218	24.68	171.2	
9	231	25.31	166.0	
10	251	43.34	262.1	
11	259	23.53	137.6	
12	273	40.11	222.6	
13	297	26.25	134.0	
14	311	27.89	135.9	
15	338	25.55	114.7	
16	351	30.81	133.0	
17	364	30.13	125.4	
18	385	21.84	85.9	
19	397	31.05	118.4	
20	471	20.94	67.4	
21	488	30.97	96.1	
22	513	24.25	71.6	
23	552	16.65	45.7	
24	585	21.24	55.1	
25	617	25.58	62.8	
26	660	14.05	32.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

Created: 5/9/2014 10:02:41 AM
Modified: 5/9/2014 10:58:37 AM

Electropherogram Summary Continued ...**... Peak table for sample 1 : CMW2190 Soni 1:4**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
27	685	13.63	30.1	
28	763	7.04	14.0	
29	805	17.38	32.7	
30	10,380	75.00	10.9	Upper Marker

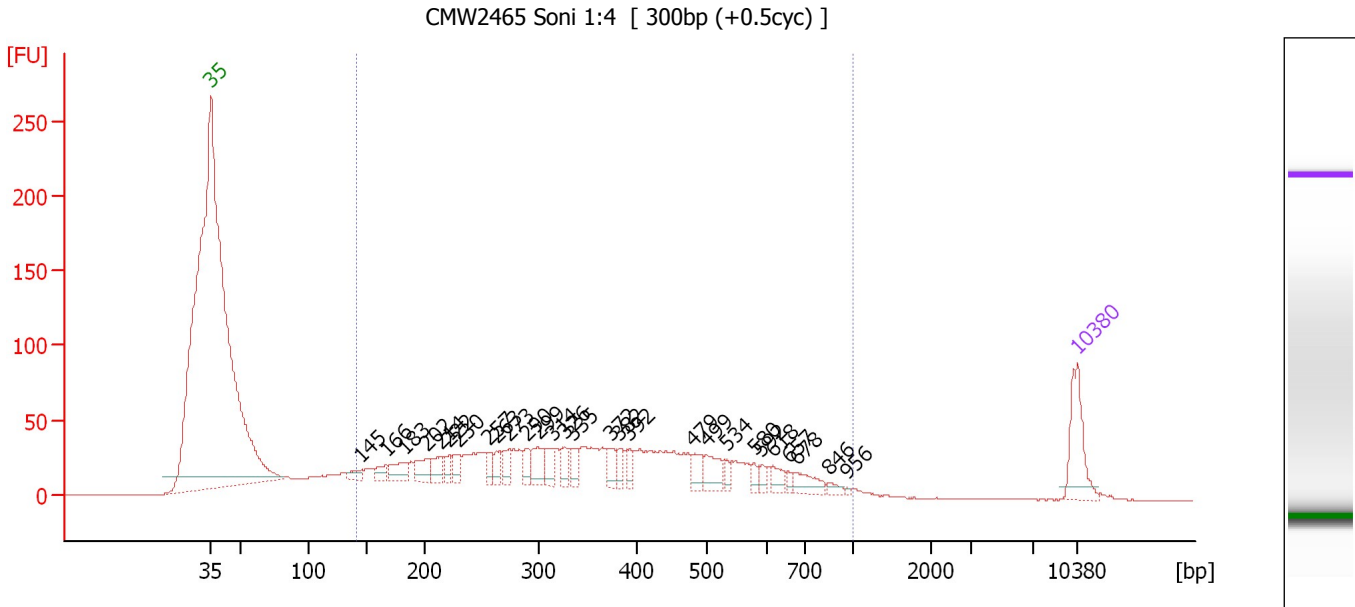
Region table for sample 1 : CMW2190 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. for Area	% of Total	Size distribution in CV [%]
147	1,000	387	9,244.9	1,810.68	1,298.3	87	42.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

Created: 5/9/2014 10:02:41 AM
 Modified: 5/9/2014 10:58:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : CMW2465 Soni 1:4

Number of peaks found: 28 Corr. Area 1: 1,515.4
 Noise: 0.2

Peak table for sample 2 : CMW2465 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	145	22.62	236.2	
3	166	24.00	218.6	
4	183	44.70	370.0	
5	202	45.00	337.4	
6	214	40.67	287.6	
7	222	22.49	153.7	
8	230	30.29	199.4	
9	257	24.32	143.5	
10	263	24.75	142.6	
11	273	27.37	151.8	
12	290	29.24	153.0	
13	299	47.27	239.2	
14	314	32.60	157.3	
15	326	34.37	159.6	
16	335	31.73	143.5	
17	372	29.84	121.4	
18	382	23.93	94.9	
19	392	21.69	83.7	
20	479	31.26	98.9	
21	499	46.97	142.7	
22	534	14.90	42.3	
23	580	12.26	32.0	
24	592	12.77	32.7	
25	618	22.88	56.1	
26	657	9.44	21.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

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Electropherogram Summary Continued ...

... Peak table for sample 2 : CMW2465 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	678	34.65	77.4	
28	846	10.87	19.5	
29	956	2.66	4.2	
30	10,380	75.00	10.9	Upper Marker

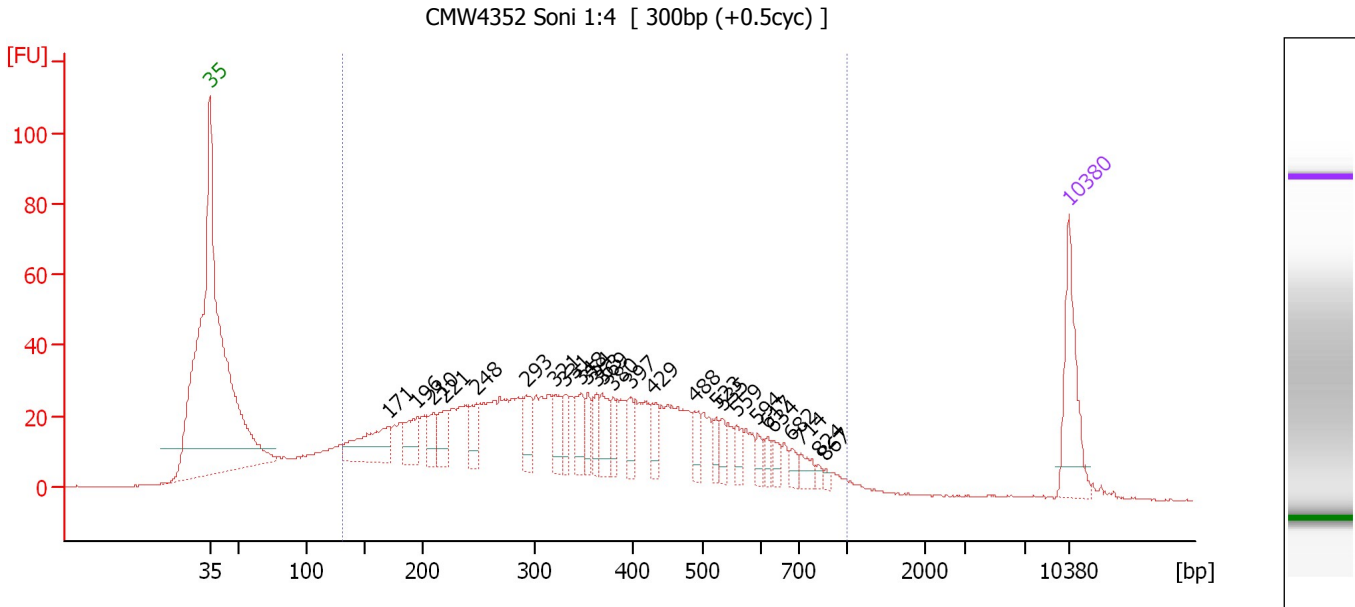
Region table for sample 2 : CMW2465 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
141	1,000	380	9,518.5	1,817.22	1,515.4	88	43.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : CMW4352 Soni 1:4

Number of peaks found: 26 Corr. Area 1: 1,261.4
 Noise: 0.1

Peak table for sample 3 : CMW4352 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	171	97.77	867.0	
3	196	50.22	389.0	
4	210	31.72	228.6	
5	221	40.28	276.6	
6	248	37.41	228.2	
7	293	43.82	226.8	
8	321	36.02	170.3	
9	331	29.31	134.2	
10	348	36.48	158.9	
11	354	25.90	110.9	
12	363	27.53	114.9	
13	369	36.65	150.5	
14	380	23.95	95.5	
15	397	28.67	109.3	
16	429	26.65	94.2	
17	488	24.93	77.4	
18	523	16.75	48.5	
19	535	15.99	45.3	
20	559	19.52	52.9	
21	594	13.35	34.1	
22	617	11.12	27.3	
23	634	13.49	32.3	
24	682	11.92	26.5	
25	714	16.03	34.0	
26	824	5.38	9.9	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

Created: 5/9/2014 10:02:41 AM
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Electropherogram Summary Continued ...

... Peak table for sample 3 : CMW4352 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	867	4.08	7.1	
28	▶ 10,380	75.00	10.9	Upper Marker

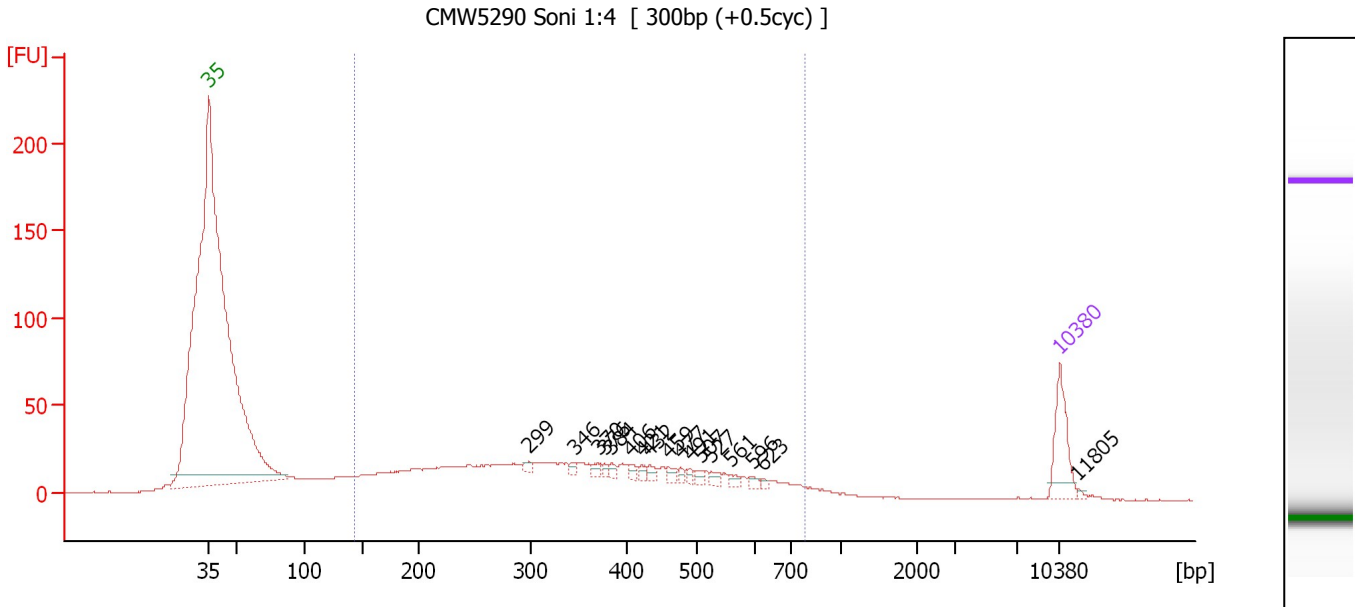
Region table for sample 3 : CMW4352 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
130	1,000	371	10,441.8	1,921.07	■ 1,261.4	90	43.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

Created: 5/9/2014 10:02:41 AM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : CMW5290 Soni 1:4

Number of peaks found: 17 Corr. Area 1: 825.0
 Noise: 0.2

Peak table for sample 4 : CMW5290 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	299	10.06	51.0	
3	346	9.41	41.2	
4	370	11.41	46.7	
5	376	8.21	33.0	
6	384	10.04	39.7	
7	406	9.65	36.0	
8	421	8.97	32.3	
9	432	12.72	44.6	
10	459	13.01	42.9	
11	477	8.47	26.9	
12	491	7.75	23.9	
13	507	9.78	29.2	
14	527	11.13	32.0	
15	561	9.33	25.2	
16	596	9.14	23.2	
17	623	4.86	11.8	
18	10,380	75.00	10.9	Upper Marker
19	11,805	0.00	0.0	

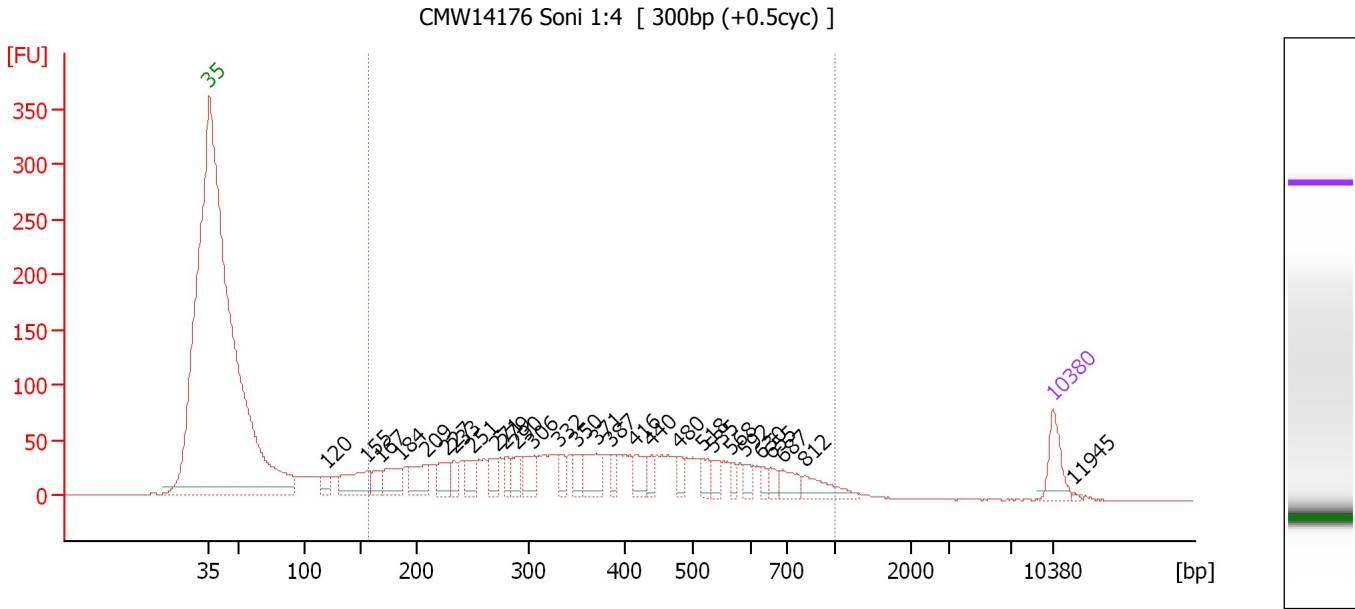
Region table for sample 4 : CMW5290 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
143	779	361	6,614.7	1,241.45	825.0	85	38.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

Created: 5/9/2014 10:02:41 AM
 Modified: 5/9/2014 10:58:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : CMW14176 Soni 1:4

Number of peaks found: 28 Corr. Area 1: 1,767.7
 Noise: 0.2

Peak table for sample 5 : CMW14176 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	120	46.81	593.1	
3	155	165.39	1,614.2	
4	167	60.01	543.9	
5	184	111.16	913.9	
6	209	124.41	903.3	
7	227	93.61	625.0	
8	233	44.56	289.5	
9	251	71.32	431.3	
10	271	64.61	361.0	
11	279	44.86	243.3	
12	290	61.20	319.3	
13	306	87.14	432.1	
14	332	55.55	253.8	
15	350	57.05	247.0	
16	371	112.83	461.3	
17	387	41.06	160.9	
18	416	71.43	260.4	
19	440	35.09	120.9	
20	480	33.17	104.6	
21	518	41.87	122.6	
22	535	43.54	123.3	
23	568	25.55	68.2	
24	592	30.16	77.2	
25	630	24.71	59.4	
26	655	29.90	69.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

Created: 5/9/2014 10:02:41 AM
 Modified: 5/9/2014 10:58:37 AM

Electropherogram Summary Continued ...

... Peak table for sample 5 : CMW14176 Soni 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	687	58.04	128.1	
28	812	75.34	140.6	
29	10,380	75.00	10.9	Upper Marker
30	11,945	0.00	0.0	

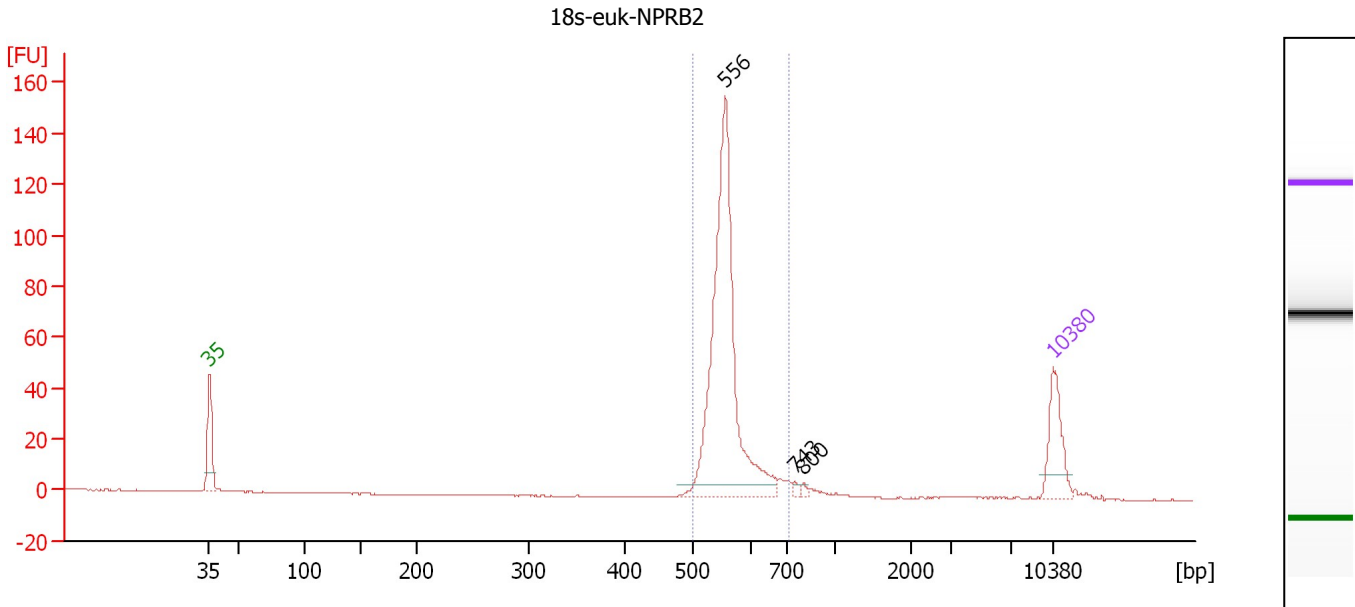
Region table for sample 5 : CMW14176 Soni 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
156	1,000	403	11,746.1	2,404.17	1,767.7	86	42.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 18s-euk-NPRB2

Number of peaks found: 3 Corr. Area 1: 367.4
 Noise: 0.2

Peak table for sample 6 : 18s-euk-NPRB2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	556	641.99	1,749.7	
3	743	6.93	14.1	
4	800	4.76	9.0	
5	10,380	75.00	10.9	Upper Marker

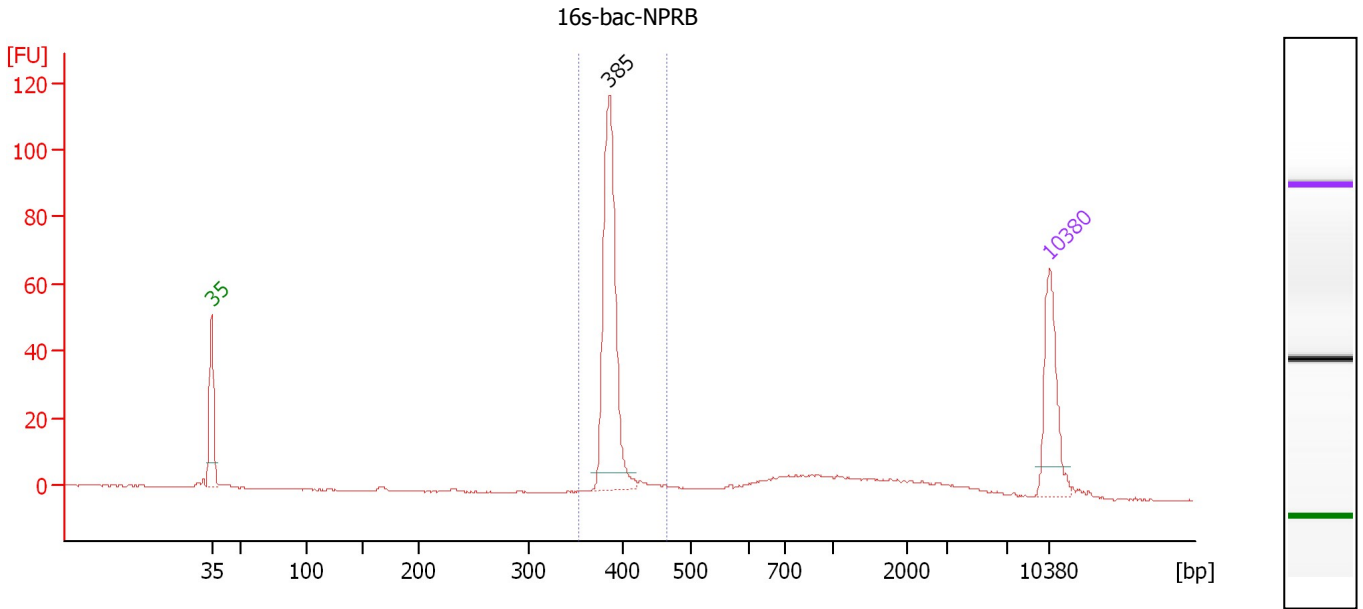
Region table for sample 6 : 18s-euk-NPRB2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
500	715	561	1,760.1	649.70	367.4	93	6.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 16s-bac-NPRB

Number of peaks found: 1 Corr. Area 1: 205.7
 Noise: 0.2

Peak table for sample 7 : 16s-bac-NPRB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	385	279.36	1,098.3	
3	10,380	75.00	10.9	Upper Marker

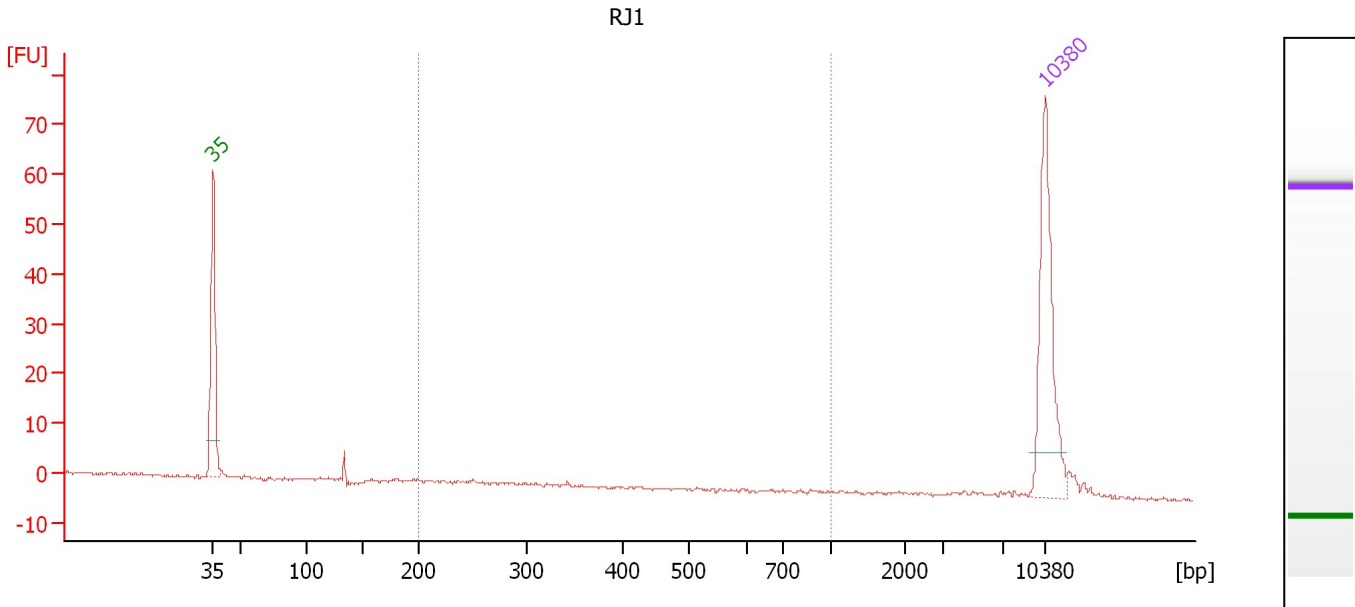
Region table for sample 7 : 16s-bac-NPRB

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
354	464	389	1,169.2	299.83	205.7	60	3.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

Created: 5/9/2014 10:02:41 AM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : RJ1

Number of peaks found: 0 Corr. Area 1: 2.2
 Noise: 0.3

Peak table for sample 8 : RJ1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

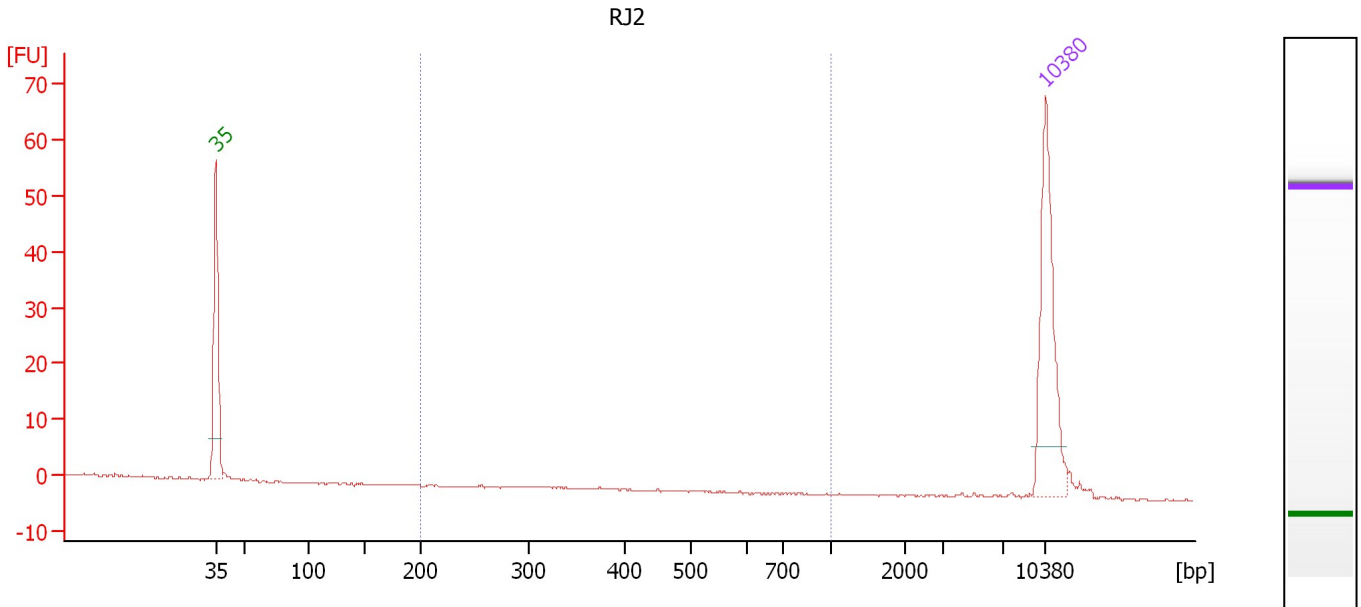
Region table for sample 8 : RJ1

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	320	17.9	3.15	2.2	12	53.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

Created: 5/9/2014 10:02:41 AM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : RJ2

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 9 : RJ2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

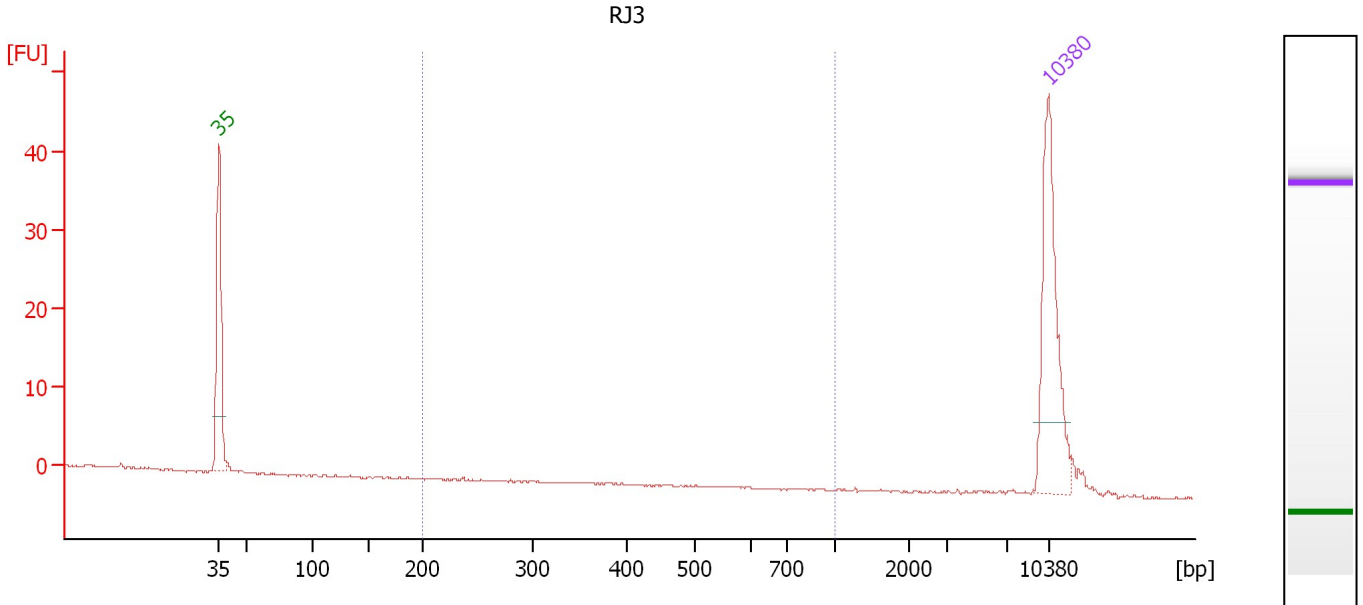
Region table for sample 9 : RJ2

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	341	0.0	0.01	0.0	0	29.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-09\2014-05-09_005.xad

Created: 5/9/2014 10:02:41 AM
 Modified: 5/9/2014 10:58:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : RJ3

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 10 : RJ3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

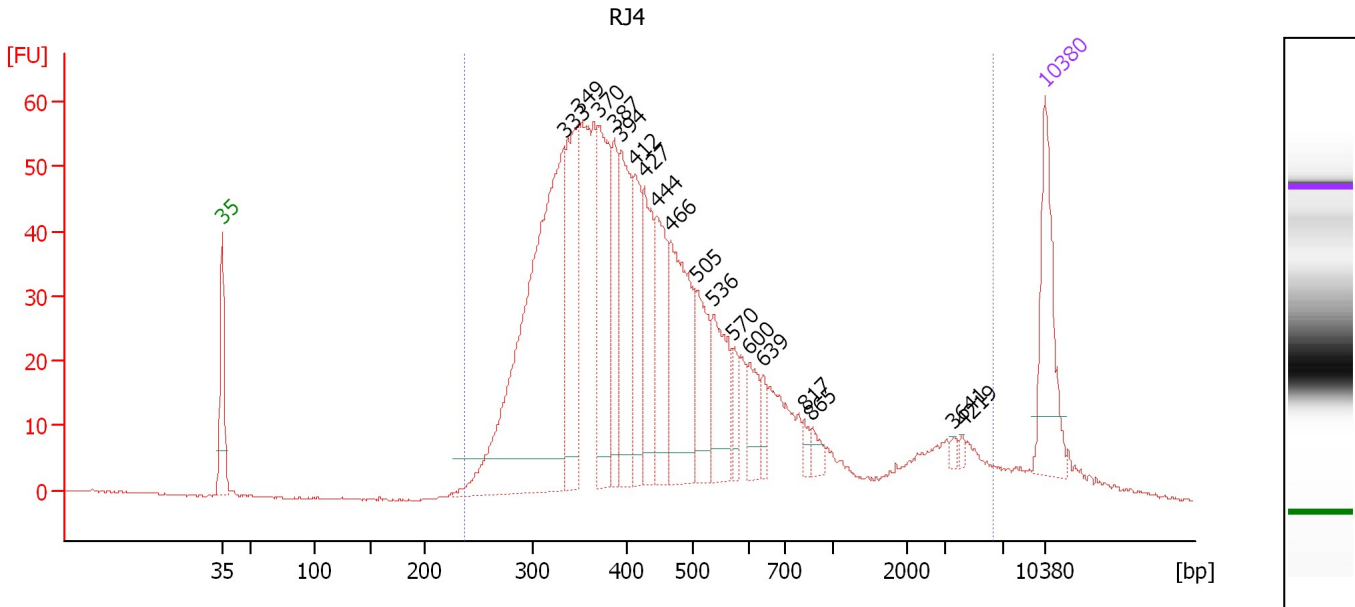
Region table for sample 10 : RJ3

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	0	0.0	0.00	0.0	0	0.0

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Electropherogram Summary Continued ...



Overall Results for sample 11 : RJ4

Number of peaks found: 18 Corr. Area 1: 1,307.7
 Noise: 0.1

Peak table for sample 11 : RJ4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	333	510.30	2,322.5	
3	349	163.79	711.4	
4	370	154.22	630.7	
5	387	69.63	272.6	
6	394	129.17	496.2	
7	412	78.34	288.0	
8	427	96.34	342.2	
9	444	91.34	311.6	
10	466	154.24	501.7	
11	505	71.99	216.0	
12	536	75.93	214.5	
13	570	22.95	61.0	
14	600	31.79	80.3	
15	639	15.72	37.3	
16	817	8.79	16.3	
17	865	11.23	19.7	
18	3,641	3.44	1.4	
19	4,219	3.13	1.1	
20	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : RJ4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
237	6,314	628	8,293.8	2,219.63	1,307.7	98	100.0

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Gel Image

