

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-05\2014-12-05_001.xad

Created: 12/5/2014 9:19:54 AM
Modified: 12/5/2014 10:05:23 AM

Electrophoresis File Run Summary

Instrument Information:

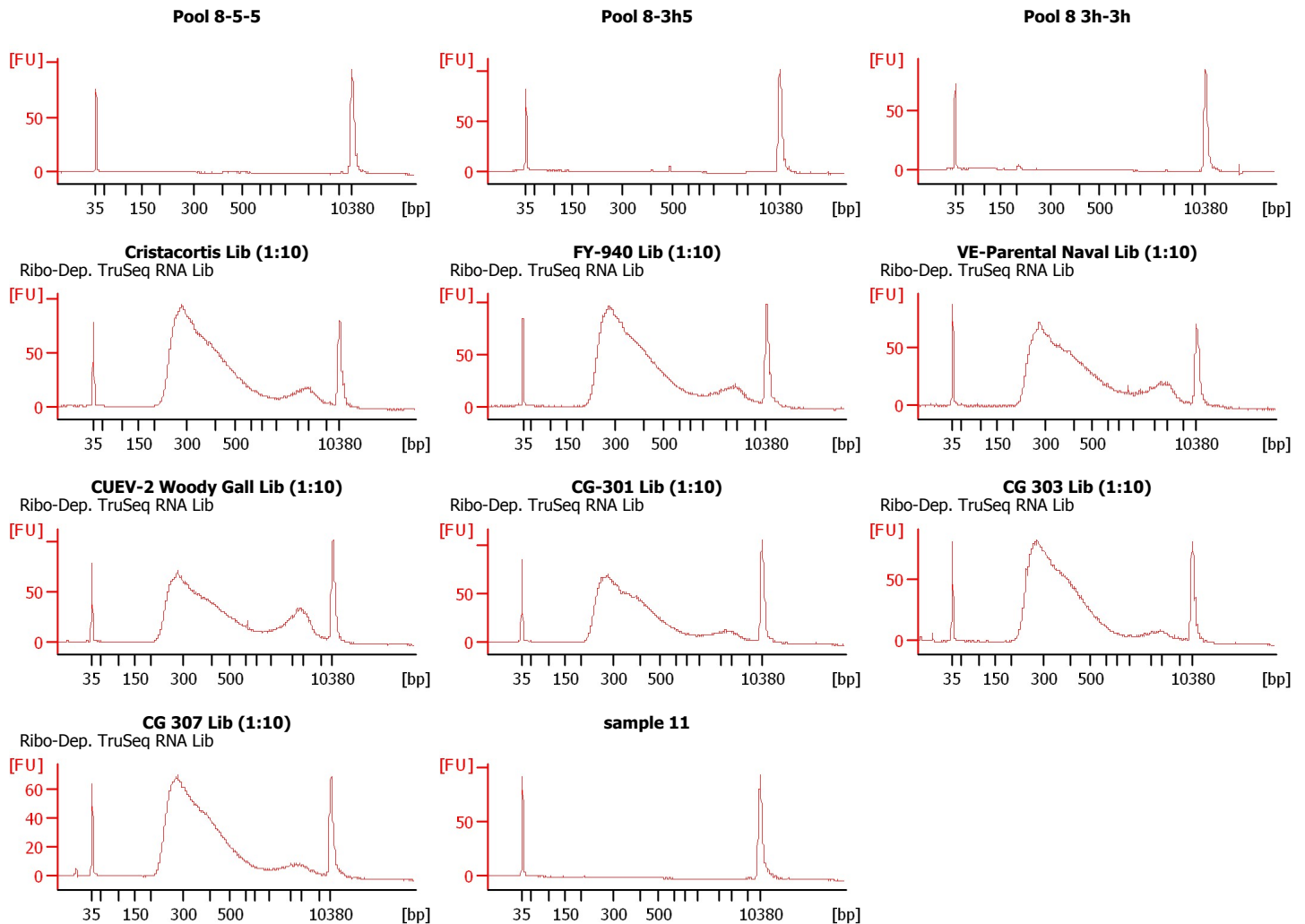
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Pool 8-5-5		<input type="checkbox"/>	✓			
Pool 8-3h5		<input type="checkbox"/>	✓			
Pool 8 3h-3h		<input type="checkbox"/>	✓			
Cristacortis Lib (1:10)	Ribo-Dep. TruSeq RNA Lib	<input type="checkbox"/>	✓			
FY-940 Lib (1:10)	Ribo-Dep. TruSeq RNA Lib	<input type="checkbox"/>	✓			
VE-Parental Naval Lib (1:10)	Ribo-Dep. TruSeq RNA Lib	<input type="checkbox"/>	✓			
CUEV-2 Woody Gall Lib (1:10)	Ribo-Dep. TruSeq RNA Lib	<input type="checkbox"/>	✓			
CG-301 Lib (1:10)	Ribo-Dep. TruSeq RNA Lib	<input type="checkbox"/>	✓			
CG 303 Lib (1:10)	Ribo-Dep. TruSeq RNA Lib	<input type="checkbox"/>	✓			
CG 307 Lib (1:10)	Ribo-Dep. TruSeq RNA Lib	<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

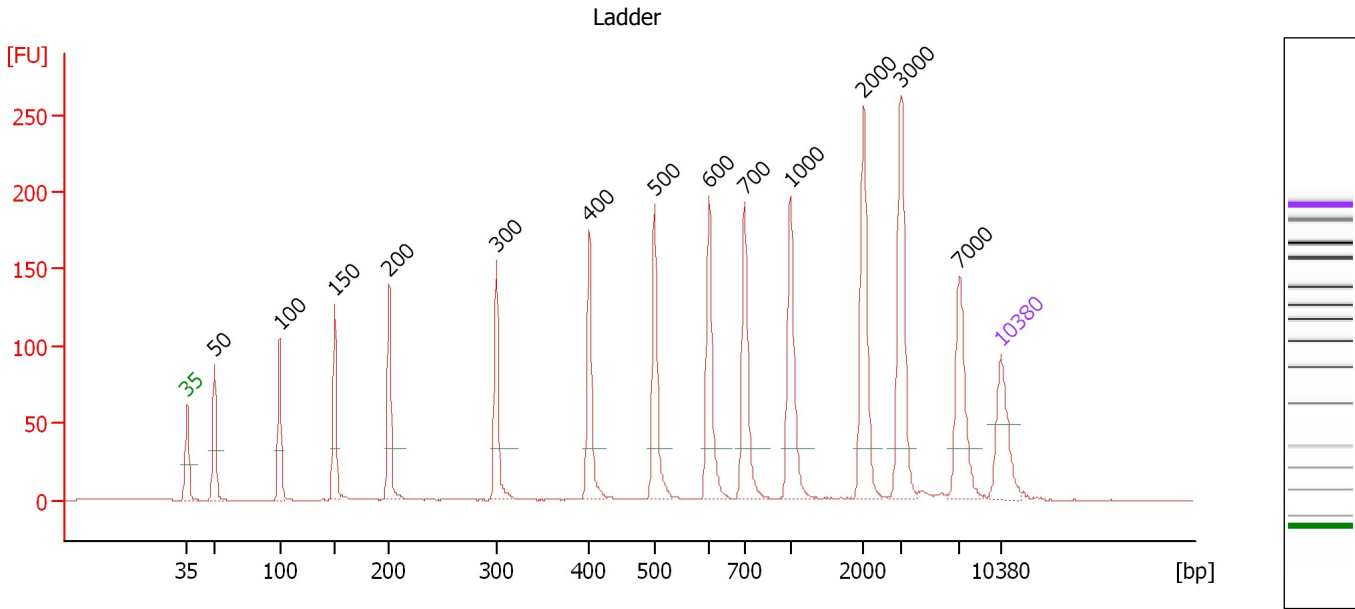
Ladder

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: 0.1

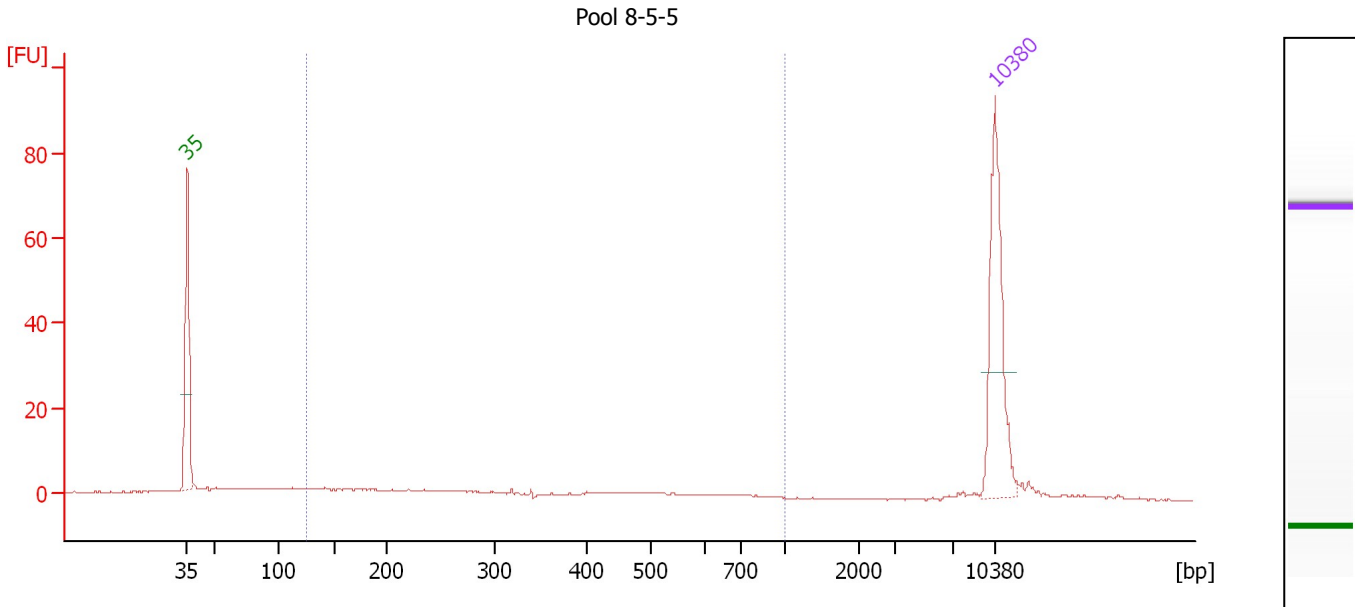
Peak table for Ladder

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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : Pool 8-5-5

Number of peaks found: 0 Corr. Area 1: 42.8
 Noise: 0.1

Peak table for sample 1 : Pool 8-5-5

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

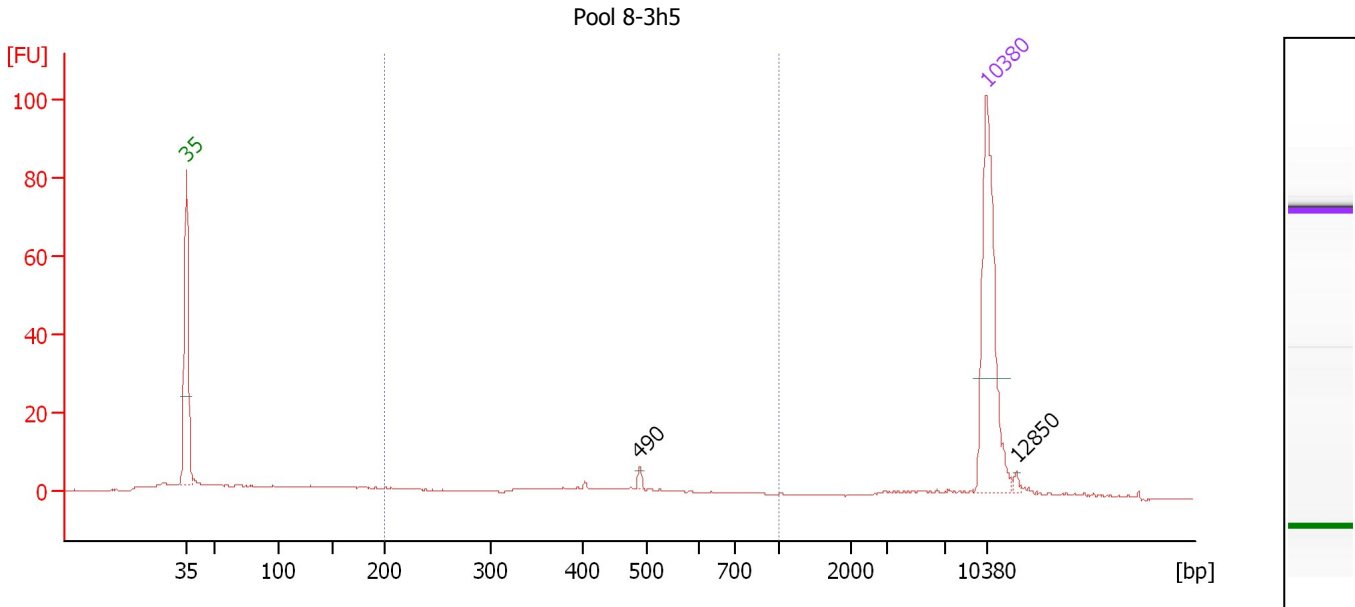
Region table for sample 1 : Pool 8-5-5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
125	337	1,000	42.8	52	51.1	52.56	342.2	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : Pool 8-3h5

Number of peaks found: 2 Corr. Area 1: 48.7
 Noise: 0.1

Peak table for sample 2 : Pool 8-3h5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	490	2.64	8.2	
3	10,380	75.00	10.9	Upper Marker
4	12,850	0.00	0.0	

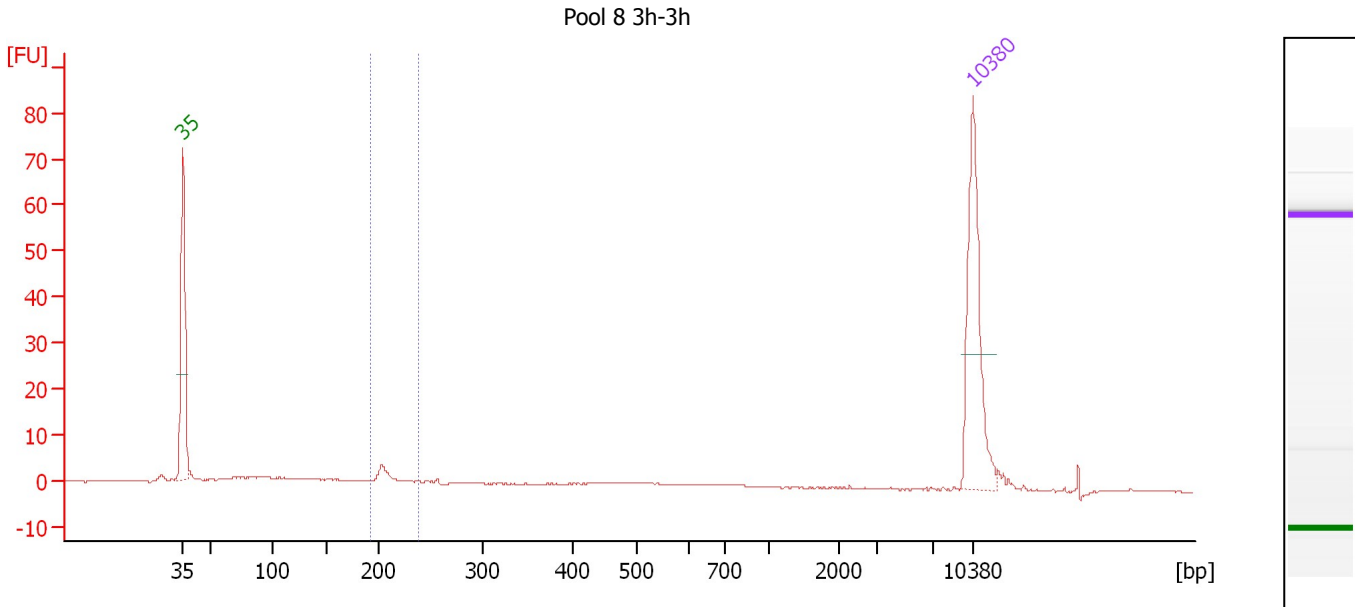
Region table for sample 2 : Pool 8-3h5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	438	1,000	48.7	35	35.5	46.83	194.8	■

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Electropherogram Summary Continued ...



Overall Results for sample 3 : Pool 8 3h-3h

Number of peaks found: 0 Corr. Area 1: 10.9
 Noise: 0.2

Peak table for sample 3 : Pool 8 3h-3h

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

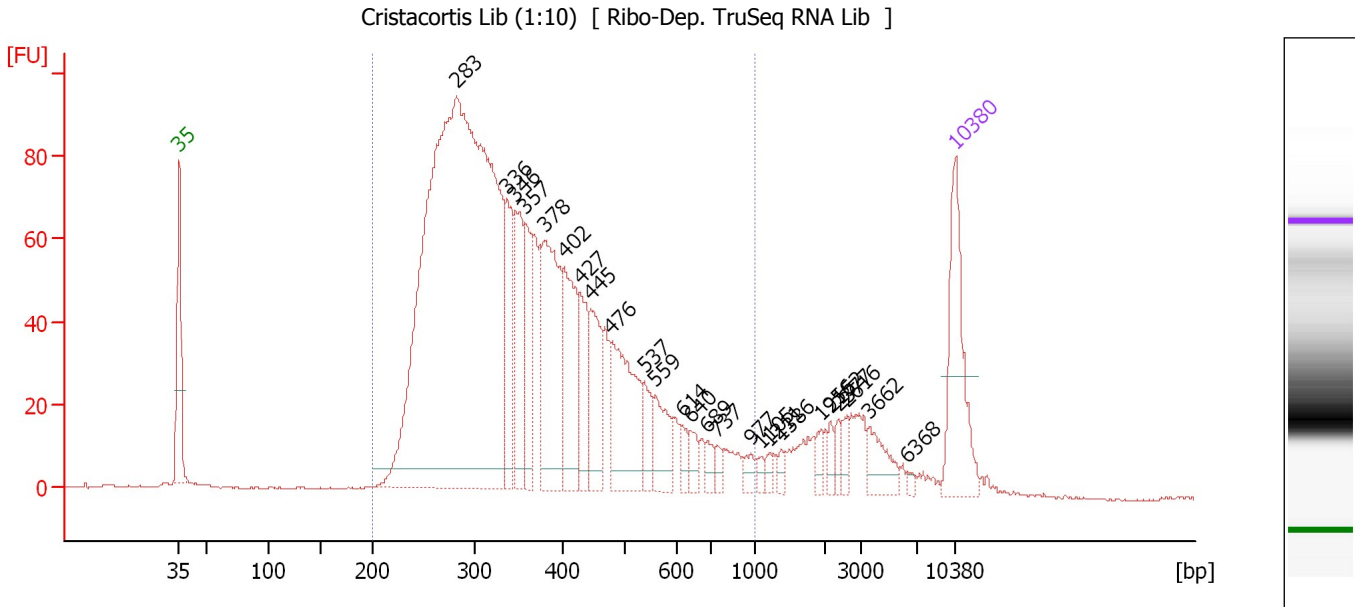
Region table for sample 3 : Pool 8 3h-3h

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
192	210	238	10.9	13	5.4	15.65	113.3	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 4 : Cristacortis Lib (1:10)

Number of peaks found: 25 Corr. Area 1: 2,020.8
 Noise: 0.1

Peak table for sample 4 : Cristacortis Lib (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	283	1,185.46	6,344.6	
3	336	80.06	360.7	
4	346	90.16	395.0	
5	357	66.06	280.2	
6	378	156.08	625.3	
7	402	96.21	362.4	
8	427	53.85	191.0	
9	445	63.96	217.7	
10	476	113.16	360.1	
11	537	25.95	73.2	
12	559	37.94	102.9	
13	614	11.80	29.1	
14	640	13.50	31.9	
15	689	9.56	21.0	
16	737	8.26	17.0	
17	977	8.15	12.6	
18	1,105	5.79	7.9	
19	1,211	5.72	7.2	
20	1,386	5.22	5.7	
21	1,956	8.00	6.2	
22	2,152	8.04	5.7	
23	2,377	8.53	5.4	
24	2,616	8.41	4.9	
25	3,662	24.31	10.1	
26	6,368	3.22	0.8	

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Electropherogram Summary Continued ...**... Peak table for sample 4 : Cristacortis Lib (1:10)**

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

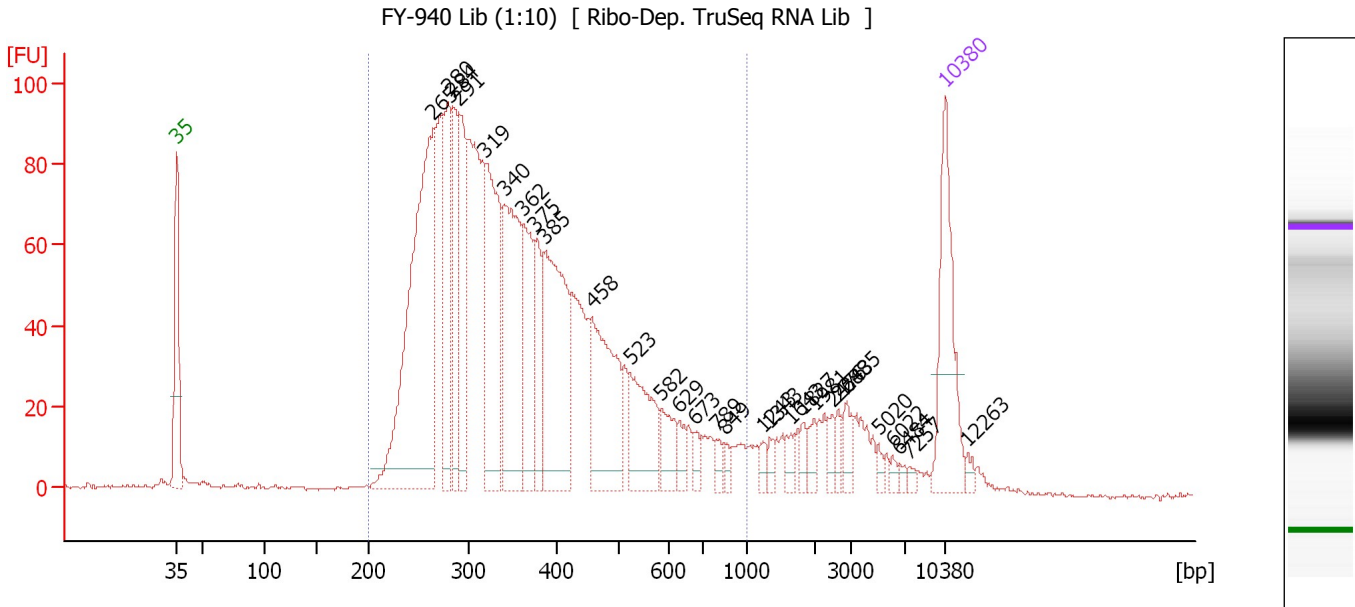
Region table for sample 4 : Cristacortis Lib (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	375	1,000	2,020.8	90	33.5	2,168.24	9,858.2	■

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Electropherogram Summary Continued ...



Overall Results for sample 5 : FY-940 Lib (1:10)

Number of peaks found: 29 Corr. Area 1: 2,112.1
 Noise: 0.4

Peak table for sample 5 : FY-940 Lib (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	367.66	2,101.9	
3	280	104.59	566.4	
4	284	89.39	476.9	
5	291	103.81	540.8	
6	319	163.47	777.5	
7	340	157.88	704.1	
8	362	85.46	357.5	
9	375	53.59	216.2	
10	385	164.17	645.8	
11	458	110.16	364.6	
12	523	72.31	209.4	
13	582	27.28	71.0	
14	629	12.58	30.3	
15	673	10.98	24.7	
16	789	8.07	15.5	
17	849	6.26	11.2	
18	1,243	7.29	8.9	
19	1,343	5.85	6.6	
20	1,643	7.98	7.4	
21	1,827	7.44	6.2	
22	1,981	9.17	7.0	
23	2,476	7.58	4.6	
24	2,643	7.72	4.4	
25	2,885	12.96	6.8	
26	5,020	4.70	1.4	

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Electropherogram Summary Continued ...

... Peak table for sample 5 : FY-940 Lib (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	6,022	3.81	1.0	
28	6,484	3.51	0.8	
29	7,257	2.97	0.6	
30	10,380	75.00	10.9	Upper Marker
31	12,263	0.00	0.0	

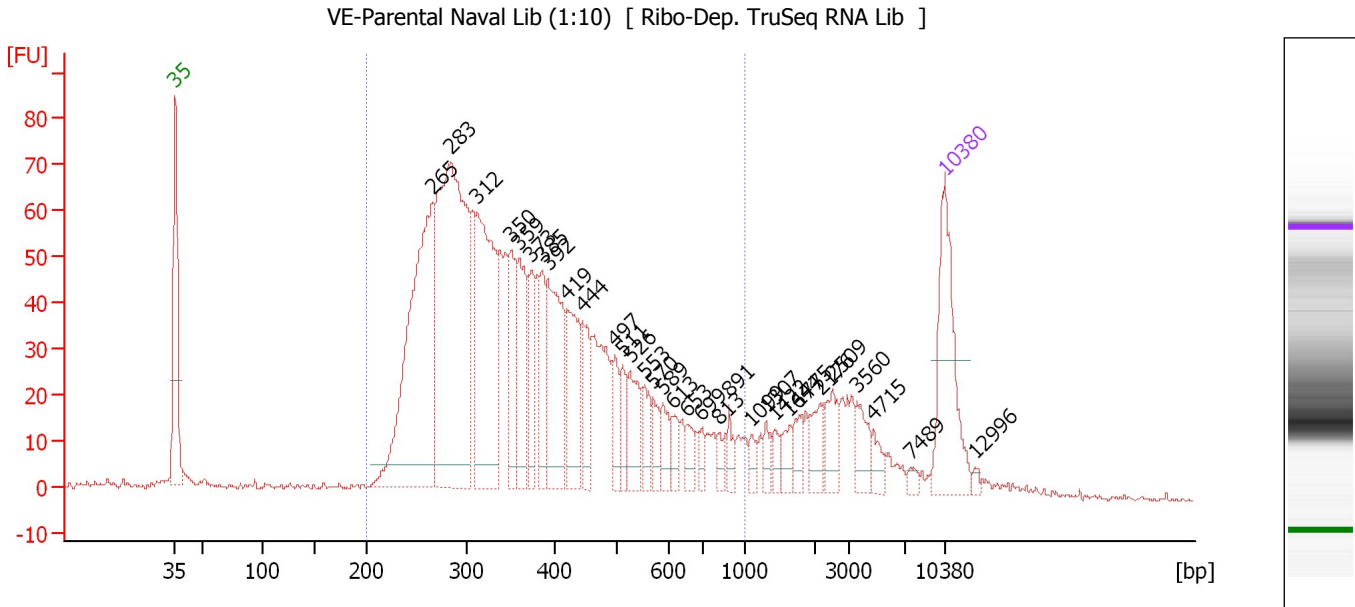
Region table for sample 5 : FY-940 Lib (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	375	1,000	2,112.1	89	34.7	1,988.38	9,086.4	

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Electropherogram Summary Continued ...



Overall Results for sample 6 : VE-Parental Naval Lib (1:10)

Number of peaks found: 32 Corr. Area 1: 1,637.4
 Noise: 0.5

Peak table for sample 6 : VE-Parental Naval Lib (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	307.33	1,754.7	
3	283	380.21	2,033.5	
4	312	192.03	933.5	
5	350	57.34	248.4	
6	359	71.20	300.6	
7	373	46.74	190.0	
8	385	41.96	165.2	
9	392	103.98	402.4	
10	419	67.57	244.3	
11	444	38.68	131.9	
12	497	25.92	79.0	
13	511	20.55	60.9	
14	526	38.49	110.9	
15	553	22.02	60.4	
16	570	15.83	42.0	
17	589	18.97	48.8	
18	613	14.56	36.0	
19	653	13.40	31.1	
20	699	9.83	21.3	
21	813	10.41	19.4	
22	891	11.45	19.5	
23	1,099	8.30	11.4	
24	1,307	8.71	10.1	
25	1,422	9.12	9.7	
26	1,644	11.50	10.6	

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Electropherogram Summary Continued ...

... Peak table for sample 6 : VE-Parental Naval Lib (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,775	12.02	10.3	
28	2,176	18.94	13.2	
29	2,509	19.12	11.5	
30	3,560	18.42	7.8	
31	4,715	10.06	3.2	
32	7,489	4.29	0.9	
33	10,380	75.00	10.9	Upper Marker
34	12,996	0.00	0.0	

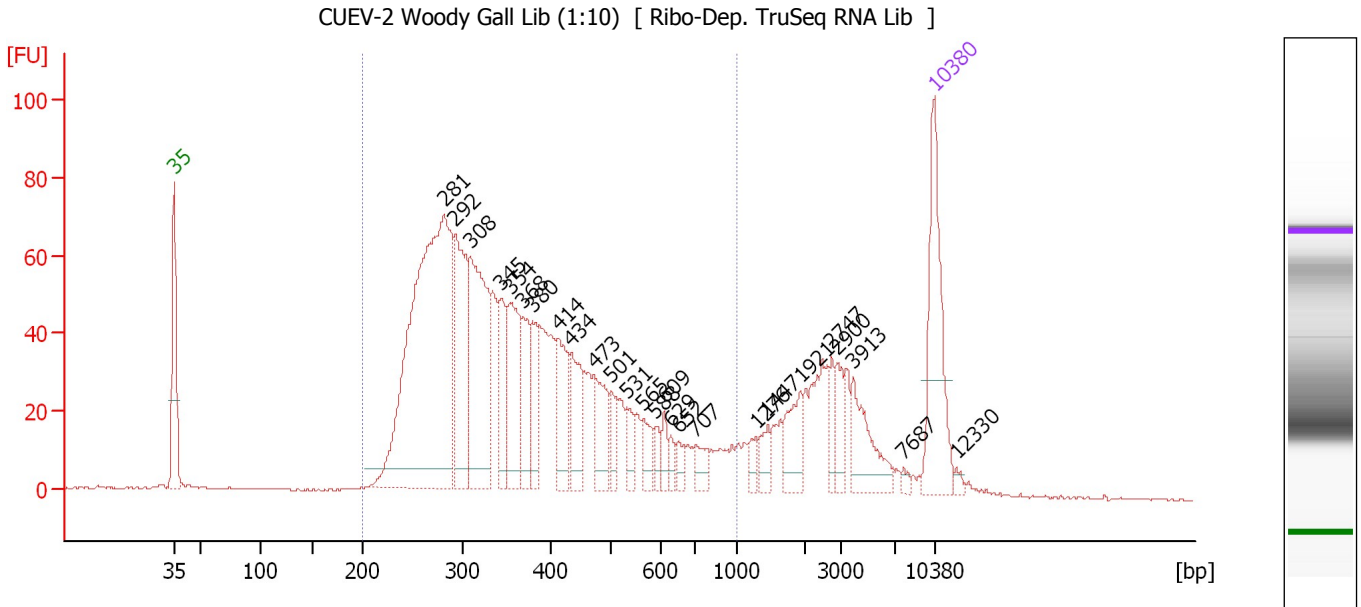
Region table for sample 6 : VE-Parental Naval Lib (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	391	1,000	1,637.4	84	36.7	1,839.93	8,221.9	

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Electropherogram Summary Continued ...



Overall Results for sample 7 : CUEV-2 Woody Gall Lib (1:10)

Number of peaks found: 26 Corr. Area 1: 1,562.3
 Noise: 0.2

Peak table for sample 7 : CUEV-2 Woody Gall Lib (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	281	468.02	2,521.7	
3	292	127.94	664.2	
4	308	157.13	771.9	
5	345	44.10	193.9	
6	354	77.31	330.6	
7	368	48.69	200.3	
8	380	38.55	153.7	
9	414	49.00	179.5	
10	434	48.24	168.5	
11	473	41.67	133.4	
12	501	17.04	51.6	
13	531	15.88	45.3	
14	565	15.95	42.8	
15	588	9.82	25.3	
16	609	10.74	26.7	
17	629	7.95	19.1	
18	652	9.03	21.0	
19	707	13.94	29.9	
20	1,276	8.01	9.5	
21	1,447	12.12	12.7	
22	1,921	27.16	21.4	
23	2,747	13.73	7.6	
24	2,900	17.31	9.0	
25	3,913	38.53	14.9	
26	7,687	3.16	0.6	

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Electropherogram Summary Continued ...**... Peak table for sample 7 : CUEV-2 Woody Gall Lib (1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	10,380	75.00	10.9	Upper Marker
28	12,330	0.00	0.0	

Region table for sample 7 : CUEV-2 Woody Gall Lib (1:10)

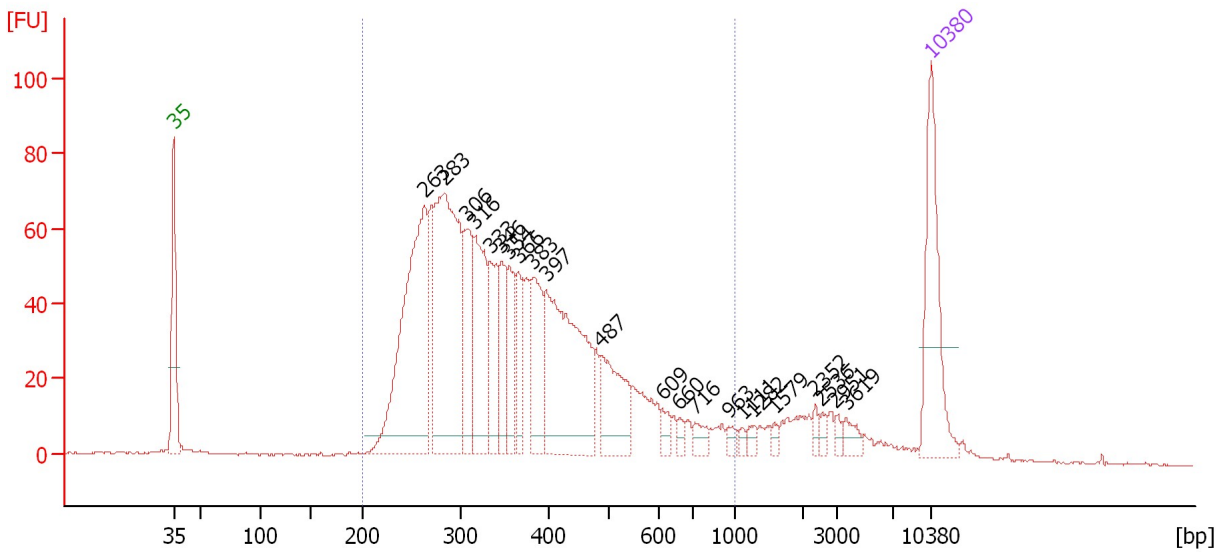
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	386	1,000	1,562.3	82	36.5	1,497.68	6,739.5	■

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Electropherogram Summary Continued ...

CG-301 Lib (1:10) [Ribo-Dep. TruSeq RNA Lib]



Overall Results for sample 8 : CG-301 Lib (1:10)

Number of peaks found: 22 Corr. Area 1: 1,584.0
 Noise: 0.3


Peak table for sample 8 : CG-301 Lib (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	263	260.86	1,503.4	
3	283	264.10	1,412.8	
4	306	76.99	381.3	
5	316	102.49	491.8	
6	333	61.71	280.8	
7	346	43.96	192.2	
8	354	44.73	191.2	
9	366	36.73	152.2	
10	383	67.82	268.5	
11	397	186.92	712.5	
12	487	66.80	207.7	
13	609	9.64	24.0	
14	660	6.00	13.8	
15	716	11.21	23.7	
16	963	5.30	8.3	
17	1,111	3.92	5.3	
18	1,282	5.38	6.4	
19	1,579	4.20	4.0	
20	2,352	4.79	3.1	
21	2,536	5.77	3.4	
22	2,951	4.29	2.2	
23	3,619	9.19	3.8	
24	10,380	75.00	10.9	Upper Marker

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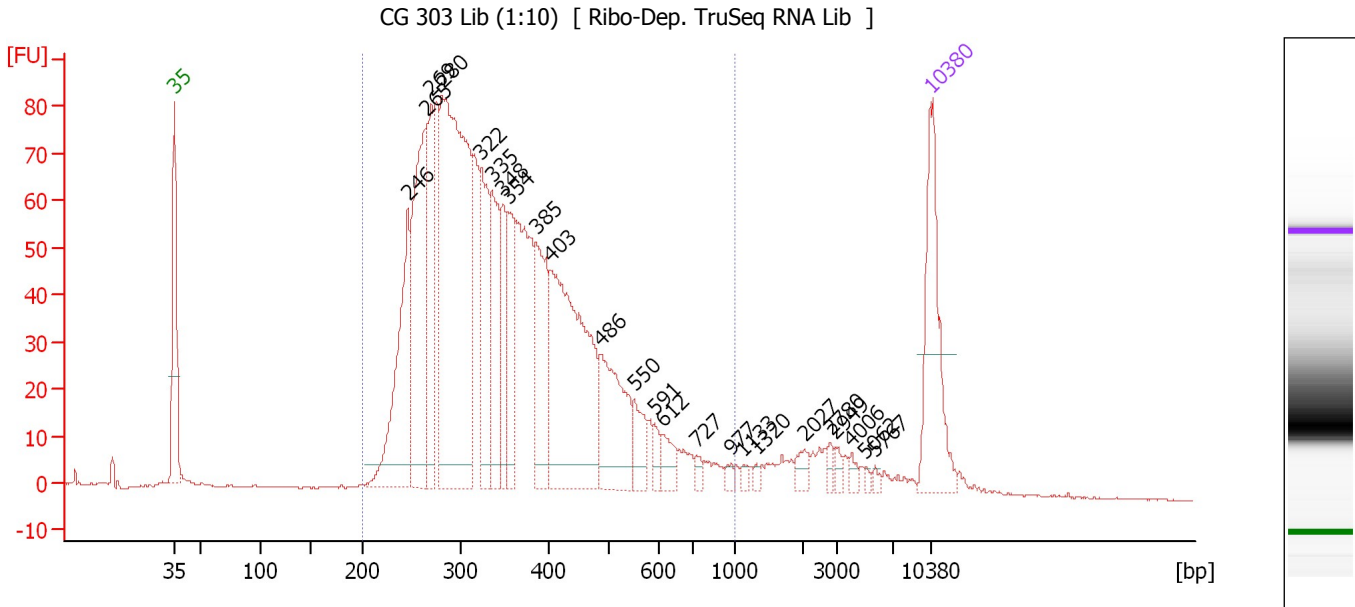
Electropherogram Summary Continued ...**... Region table for sample 8 : CG-301 Lib (1:10)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	377	1,000	1,584.0	90	34.6	1,449.23	6,600.5	

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Electropherogram Summary Continued ...



Overall Results for sample 9 : CG 303 Lib (1:10)

Number of peaks found: 24 Corr. Area 1: 1,738.1
 Noise: 0.2

Peak table for sample 9 : CG 303 Lib (1:10)


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	246	151.23	931.7	
3	265	189.71	1,086.0	
4	269	90.71	510.0	
5	280	411.50	2,225.1	
6	322	95.97	451.4	
7	335	87.51	395.7	
8	348	56.28	245.1	
9	354	62.68	268.6	
10	385	89.37	351.3	
11	403	227.49	855.3	
12	486	91.62	285.7	
13	550	27.08	74.7	
14	591	10.09	25.9	
15	612	15.78	39.1	
16	727	4.99	10.4	
17	977	4.02	6.2	
18	1,133	3.21	4.3	
19	1,320	3.50	4.0	
20	2,027	8.52	6.4	
21	2,780	4.57	2.5	
22	2,949	4.71	2.4	
23	4,006	4.50	1.7	
24	5,062	2.38	0.7	
25	5,767	2.74	0.7	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-05\2014-12-05_001.xad

Created: 12/5/2014 9:19:54 AM
Modified: 12/5/2014 10:05:23 AM

Electropherogram Summary Continued ...

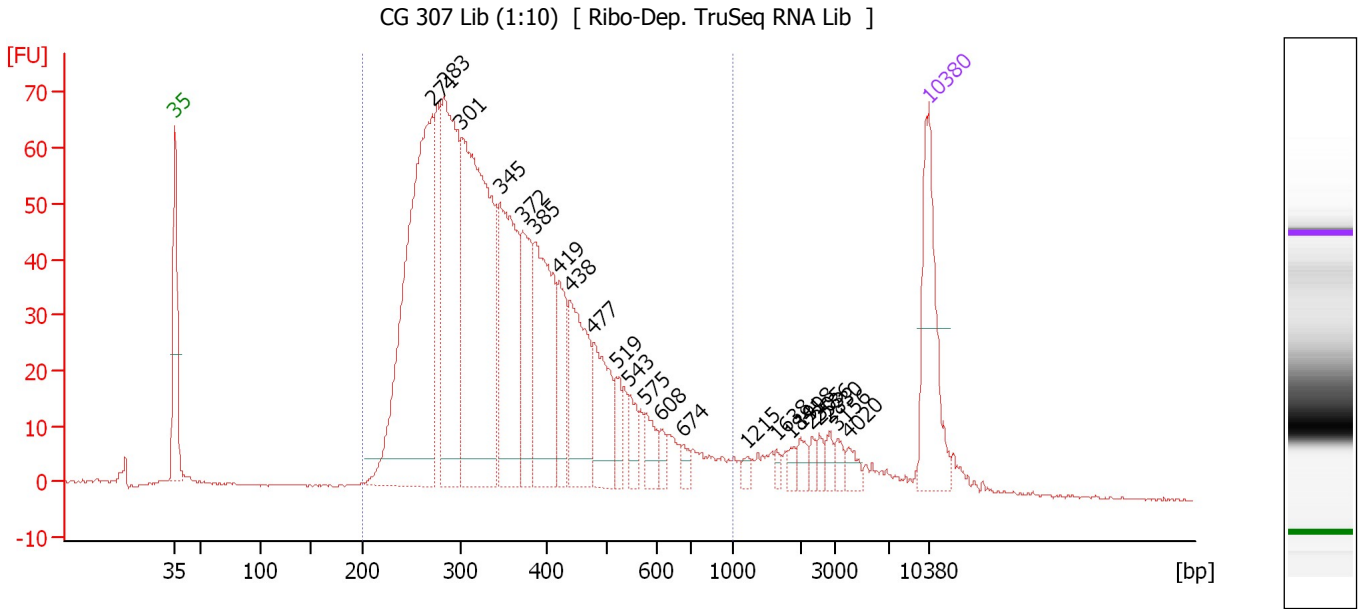
... Region table for sample 9 : CG 303 Lib (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Molarity [pmol/l]	Color
200	365	1,000	1,738.1	94	31.5	1,888.86	8,716.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-05\2014-12-05_001.xad

Created: 12/5/2014 9:19:54 AM
 Modified: 12/5/2014 10:05:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CG 307 Lib (1:10)

Number of peaks found: 23 Corr. Area 1: 1,496.7
 Noise: 0.1

Peak table for sample 10 : CG 307 Lib (1:10)


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	271	422.43	2,360.7	
3	283	245.88	1,316.6	
4	301	359.53	1,810.9	
5	345	174.83	767.2	
6	372	80.49	328.0	
7	385	140.58	552.7	
8	419	50.45	182.5	
9	438	99.71	344.6	
10	477	65.66	208.8	
11	519	21.22	62.0	
12	543	19.58	54.7	
13	575	20.29	53.5	
14	608	8.14	20.3	
15	674	7.74	17.4	
16	1,215	4.67	5.8	
17	1,638	3.95	3.7	
18	1,841	5.27	4.3	
19	1,998	8.41	6.4	
20	2,305	5.34	3.5	
21	2,536	6.22	3.7	
22	2,830	7.10	3.8	
23	3,156	7.04	3.4	
24	4,020	8.43	3.2	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-05\2014-12-05_001.xad

Created: 12/5/2014 9:19:54 AM
Modified: 12/5/2014 10:05:23 AM

Electropherogram Summary Continued ...

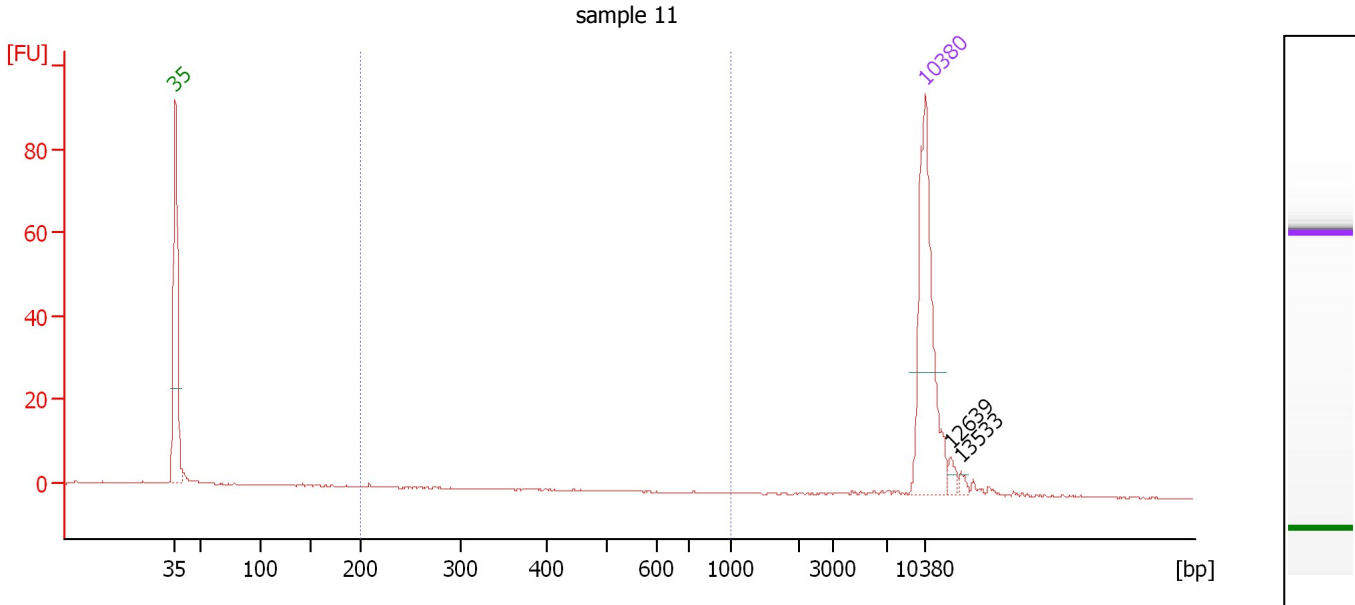
... Region table for sample 10 : CG 307 Lib (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Molarity [pmol/l]	Color
200	369	1,000	1,496.7	91	33.0	1,908.69	8,774.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-05\2014-12-05_001.xad

Created: 12/5/2014 9:19:54 AM
 Modified: 12/5/2014 10:05:23 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 2 Corr. Area 1: 0.4
 Noise: 0.2

Peak table for sample 11 : sample 11

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
3	12,639	0.00	0.0	
4	13,533	0.00	0.0	

Region table for sample 11 : sample 11

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	304	1,000	0.4	2	38.3	0.43	2.6	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-05\2014-12-05_001.xad

Created: 12/5/2014 9:19:54 AM
Modified: 12/5/2014 10:05:23 AM

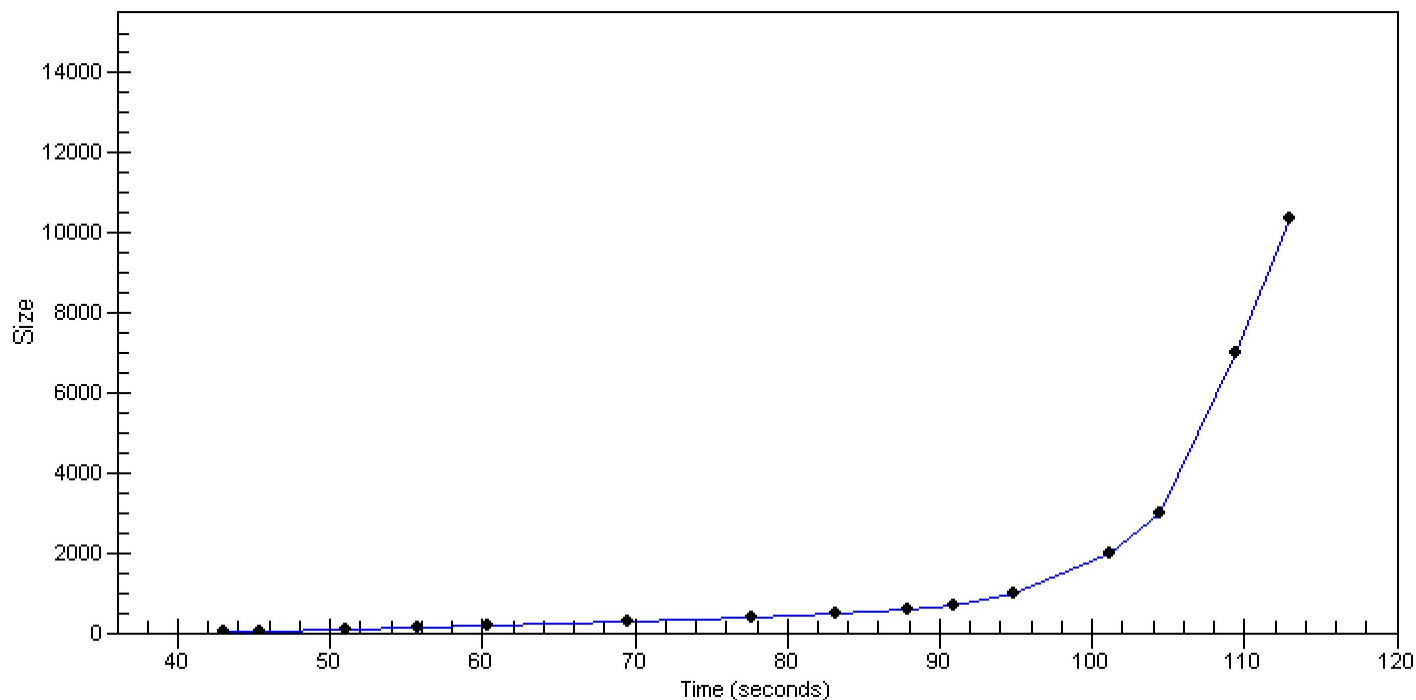
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-05\2014-12-05_001.xad

Created: 12/5/2014 9:19:54 AM
Modified: 12/5/2014 10:05:23 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-05\2014-12-05_001.xad

Created: 12/5/2014 9:19:54 AM
 Modified: 12/5/2014 10:05:23 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		12/5/2014 10:01:13 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-12-05\2014-12-05_001.xad)		Instrument	Run		12/5/2014 9:20:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/5/2014 9:20:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/5/2014 9:20:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/5/2014 9:20:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/5/2014 9:20:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/5/2014 9:20:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/5/2014 9:20:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1