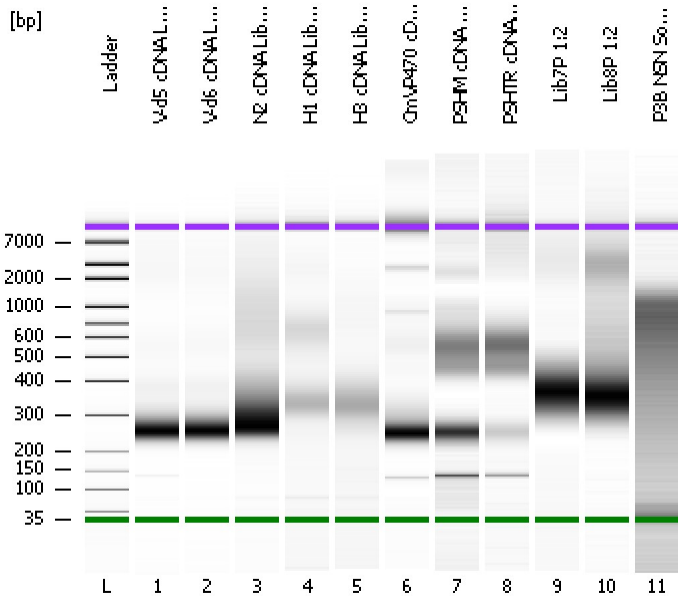


Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 AM

**Electrophoresis File Run Summary**



Instrument Information:

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

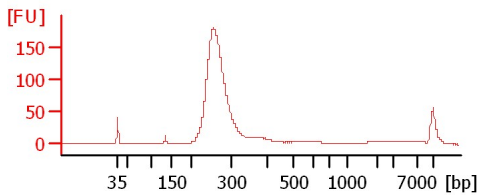
Assay Information:

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

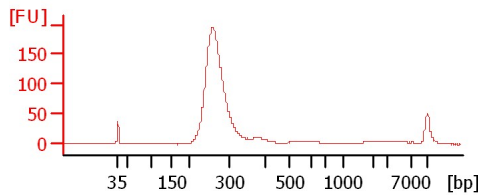
Chip Information:

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

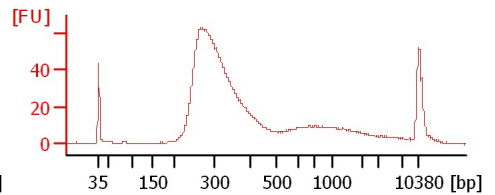
V-d5 cDNA Lib 1:2



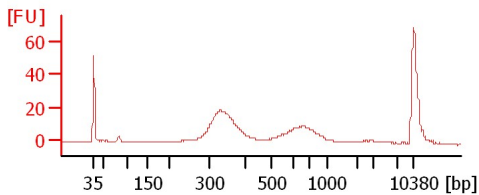
V-d6 cDNA Lib 1:2



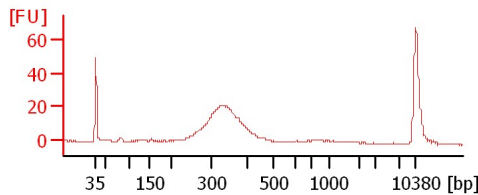
N2 cDNA Lib 1:2



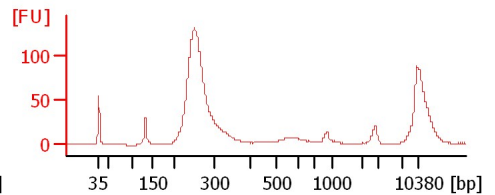
H1 cDNA Lib 1:2



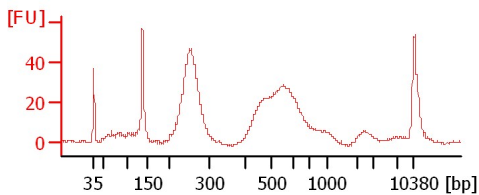
H3 cDNA Lib 1:2



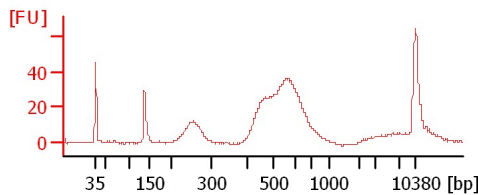
CmVP470 cDNA Lib 1:2



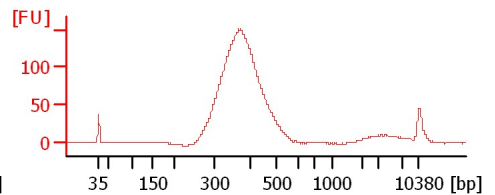
PSHM cDNA Lib 1:2



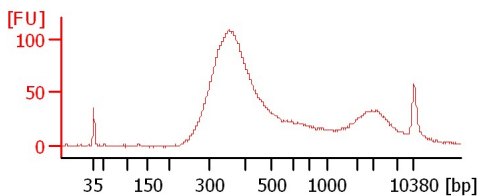
PSHTR cDNA Lib 1:2



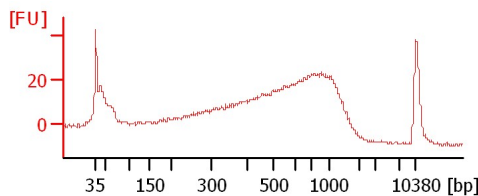
Lib7P 1:2



Lib8P 1:2



P3B NSN Soni 1:10



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
Modified: 2/20/2013 10:25:39 AM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
V-d5 cDNA Lib 1:2		<input type="checkbox"/>	✓			
V-d6 cDNA Lib 1:2		<input type="checkbox"/>	✓			
N2 cDNA Lib 1:2		<input type="checkbox"/>	✓			
H1 cDNA Lib 1:2		<input type="checkbox"/>	✓			
H3 cDNA Lib 1:2		<input type="checkbox"/>	✓			
CmVP470 cDNA Lib 1:2		<input type="checkbox"/>	✓			
PSHM cDNA Lib 1:2		<input type="checkbox"/>	✓			
PSHTR cDNA Lib 1:2		<input type="checkbox"/>	✓			
Lib7P 1:2		<input type="checkbox"/>	✓			
Lib8P 1:2		<input type="checkbox"/>	✓			
P3B NSN Soni 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:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
Modified: 2/20/2013 10:25:39 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

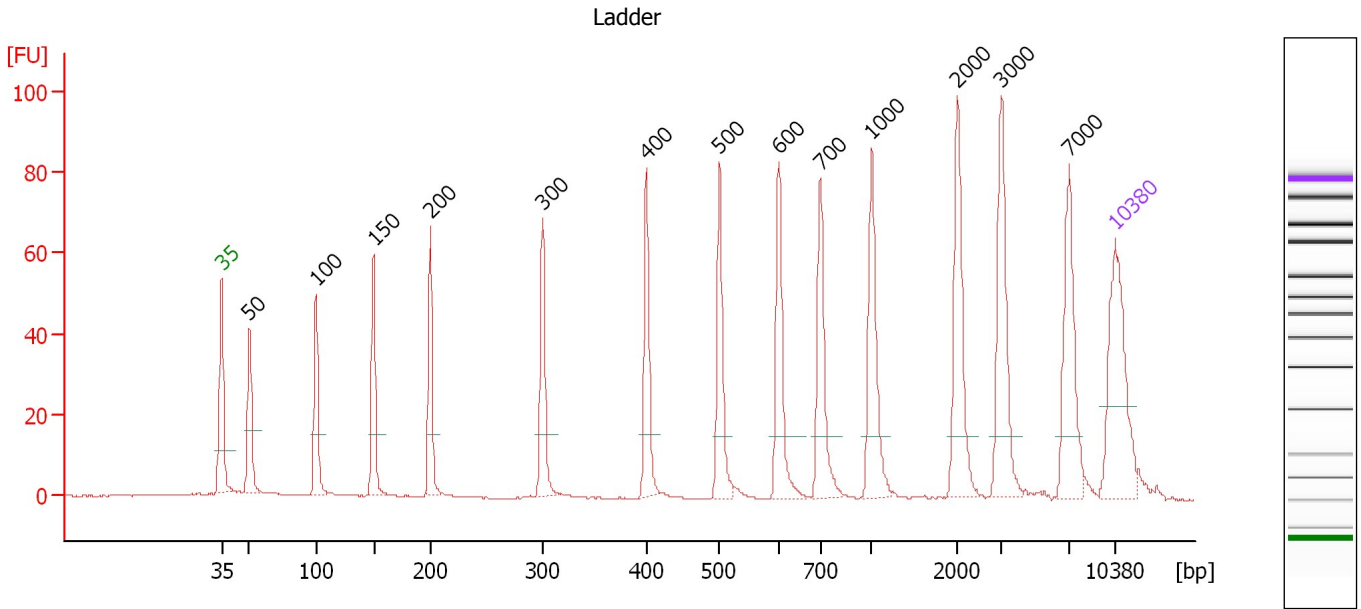
**Ladder**

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:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

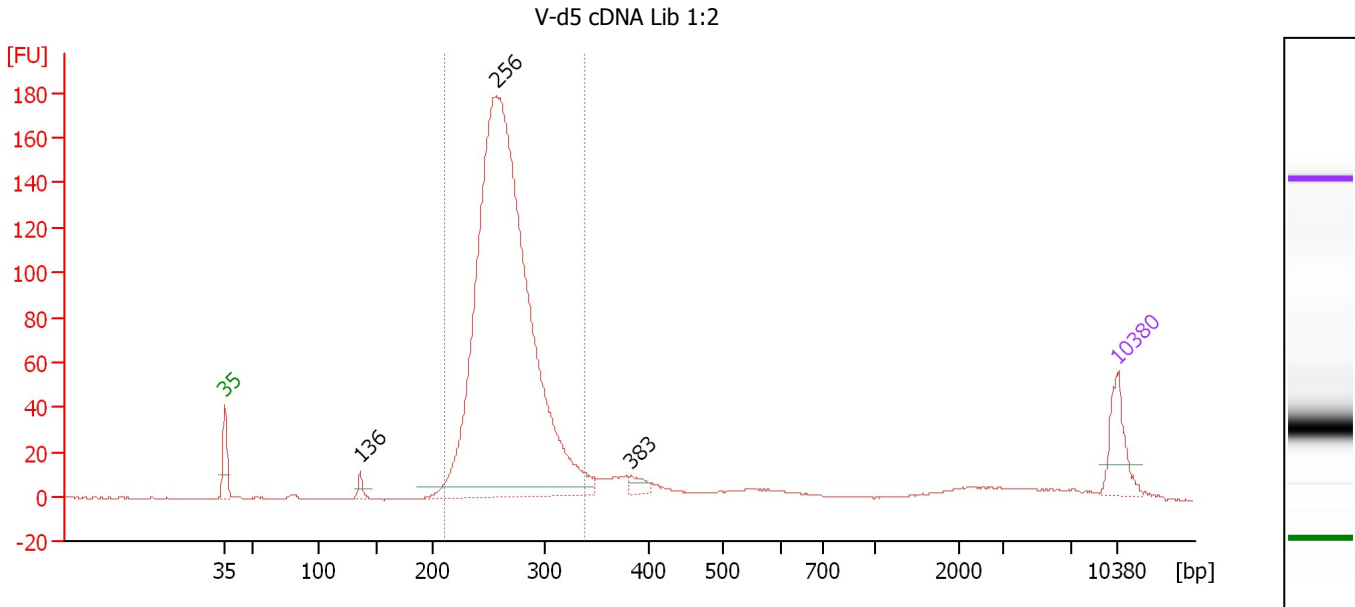
**Peak table for Ladder**

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : V-d5 cDNA Lib 1:2**

Number of peaks found: 3                      Corr. Area 1: 1,380.8  
 Noise: 0.2

**Peak table for sample 1 : V-d5 cDNA Lib 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	136	23.78	265.3	
3	256	2,638.73	15,604.5	
4	383	24.57	97.2	
5	10,380	75.00	10.9	Upper Marker

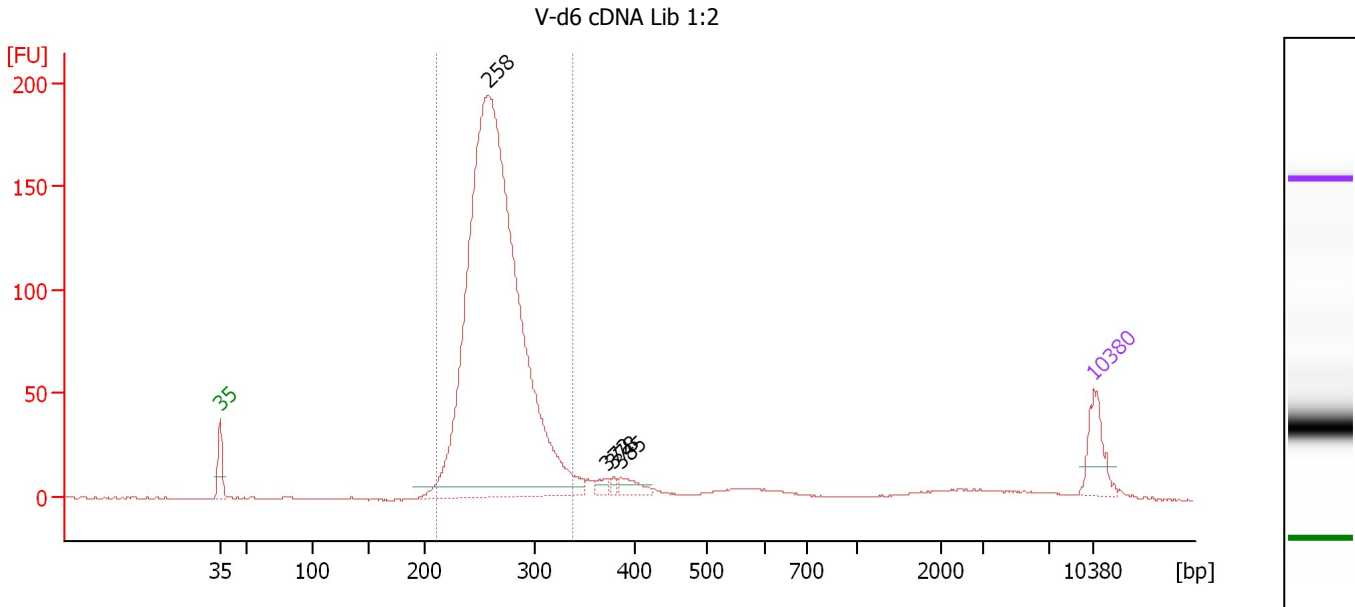
**Region table for sample 1 : V-d5 cDNA Lib 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
210	338	265	14,819.5	2,580.67	1,380.8	85	8.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : V-d6 cDNA Lib 1:2**

Number of peaks found: 4                      Corr. Area 1: 1,486.9  
 Noise: 0.2

**Peak table for sample 2 : V-d6 cDNA Lib 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	258	3,010.86	17,693.3	
3	372	20.72	84.4	
4	378	11.02	44.2	
5	385	38.07	149.7	
6	10,380	75.00	10.9	Upper Marker

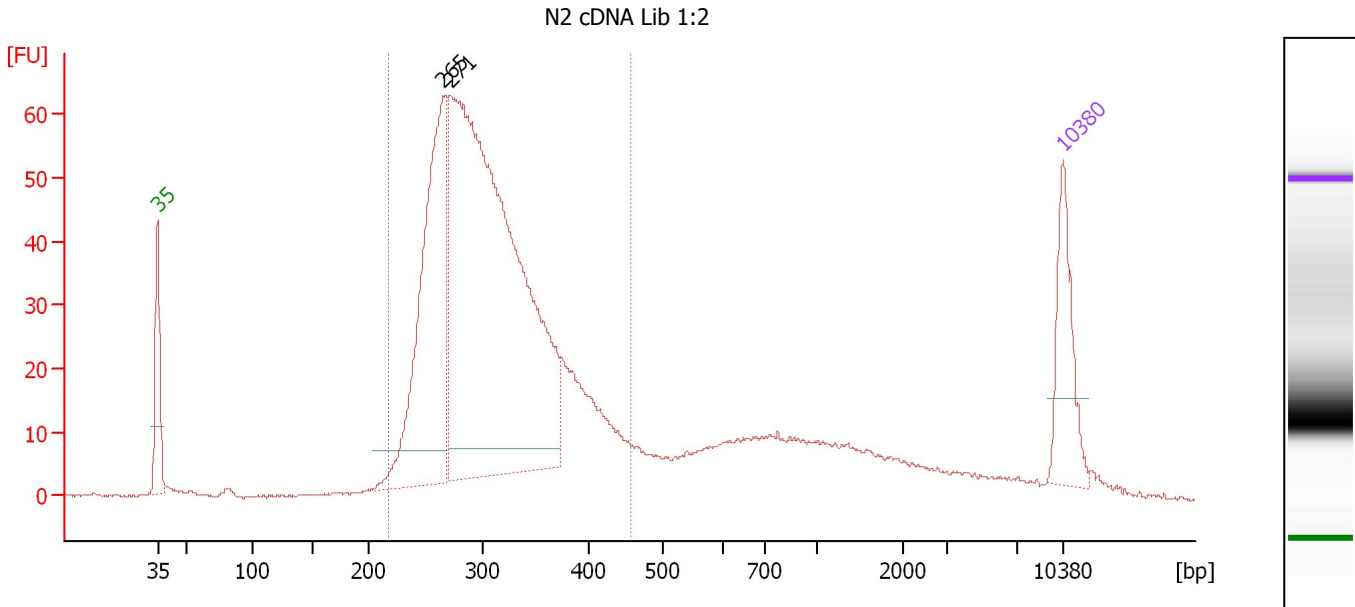
**Region table for sample 2 : V-d6 cDNA Lib 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
211	338	266	16,781.7	2,930.88	1,486.9	88	8.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : N2 cDNA Lib 1:2**

Number of peaks found: 2                      Corr. Area 1: 926.0  
 Noise: 0.2

**Peak table for sample 3 : N2 cDNA Lib 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	407.42	2,326.4	
3	271	1,078.54	6,022.7	
4	10,380	75.00	10.9	Upper Marker

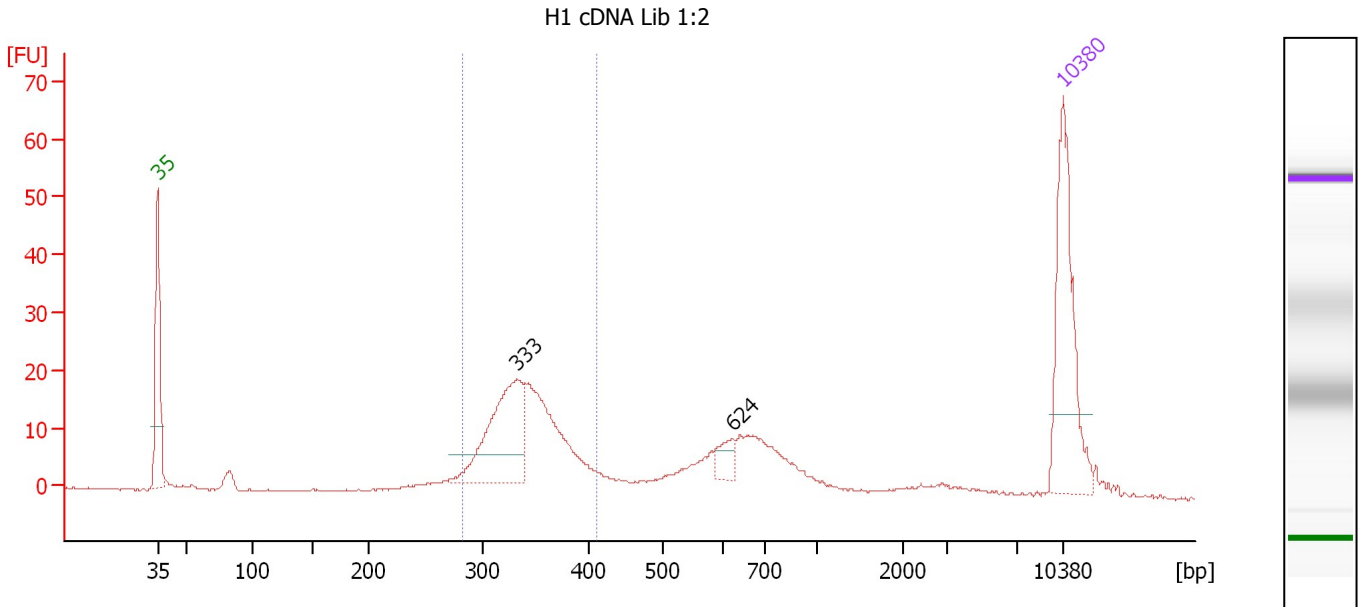
**Region table for sample 3 : N2 cDNA Lib 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
217	459	310	8,829.3	1,746.19	926.0	78	16.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : H1 cDNA Lib 1:2**

Number of peaks found: 2                      Corr. Area 1: 177.3  
 Noise: 0.2

**Peak table for sample 4 : H1 cDNA Lib 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	333	98.92	450.5	
3	624	13.03	31.7	
4	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : H1 cDNA Lib 1:2**

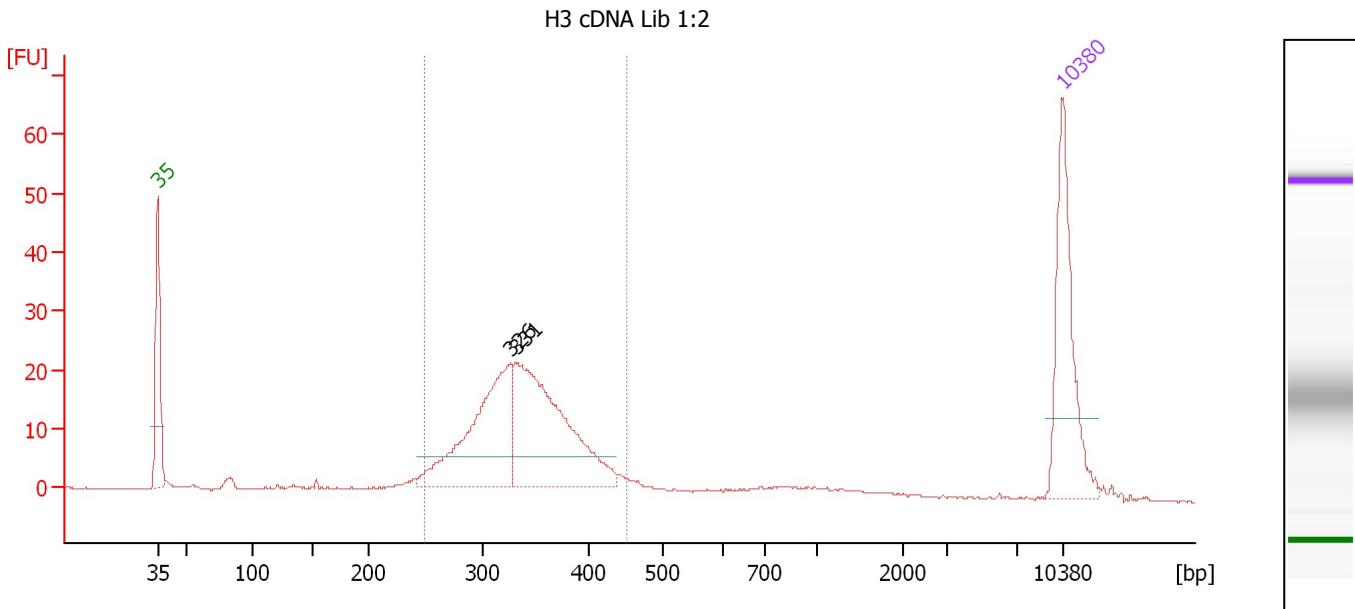
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
282	411	341	1,006.3	225.49	177.3	50	8.5	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : H3 cDNA Lib 1:2**

Number of peaks found: 2                      Corr. Area 1: 272.0  
 Noise: 0.2

**Peak table for sample 5 : H3 cDNA Lib 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	326	144.68	672.9	
3	331	182.65	835.0	
4	10,380	75.00	10.9	Upper Marker

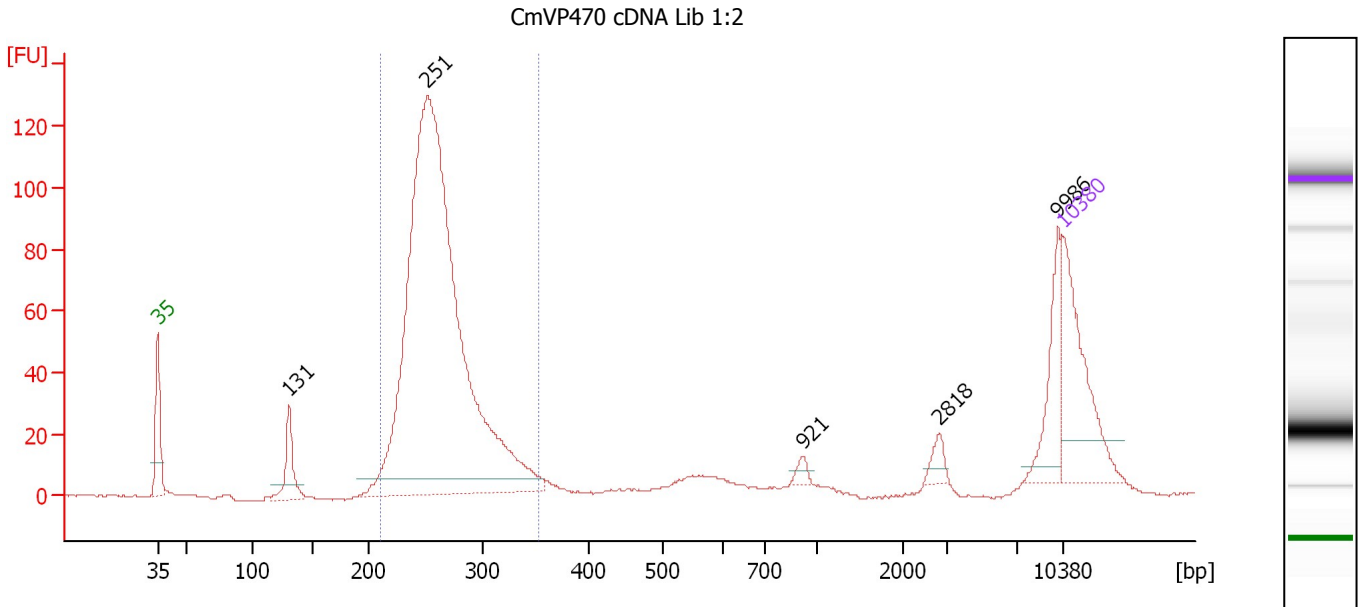
**Region table for sample 5 : H3 cDNA Lib 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
248	451	338	1,661.6	363.38	272.0	81	12.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : CmVP470 cDNA Lib 1:2**

Number of peaks found: 5                      Corr. Area 1: 925.2  
 Noise: 0.1

**Peak table for sample 6 : CmVP470 cDNA Lib 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	131	42.20	489.1	
3	251	870.17	5,250.2	
4	921	6.40	10.5	
5	2,818	9.70	5.2	
6	9,986	43.12	6.5	
7	10,380	75.00	10.9	Upper Marker

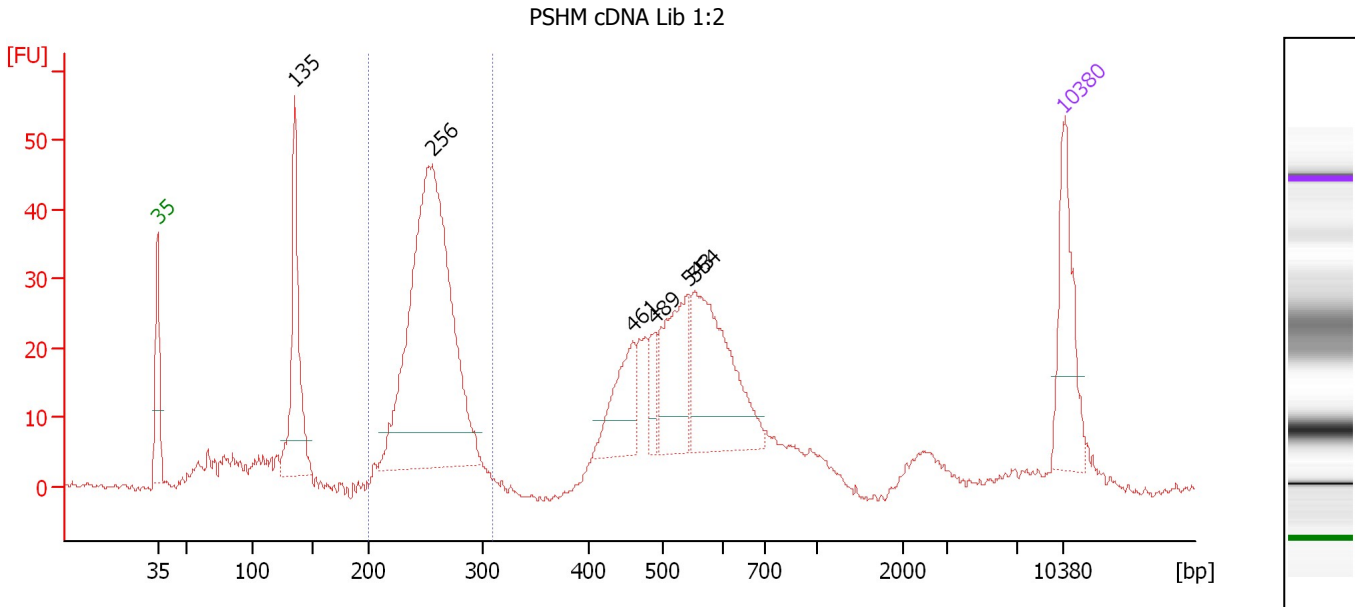
**Region table for sample 6 : CmVP470 cDNA Lib 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
210	353	262	4,798.3	824.77	925.2	83	10.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : PSHM cDNA Lib 1:2**

Number of peaks found: 6                      Corr. Area 1: 285.2  
 Noise: 0.4

**Peak table for sample 7 : PSHM cDNA Lib 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	135	168.31	1,882.9	
3	256	559.51	3,317.2	
4	461	73.60	242.1	
5	489	25.92	80.3	
6	543	103.89	289.9	
7	554	165.59	452.8	
8	10,380	75.00	10.9	Upper Marker

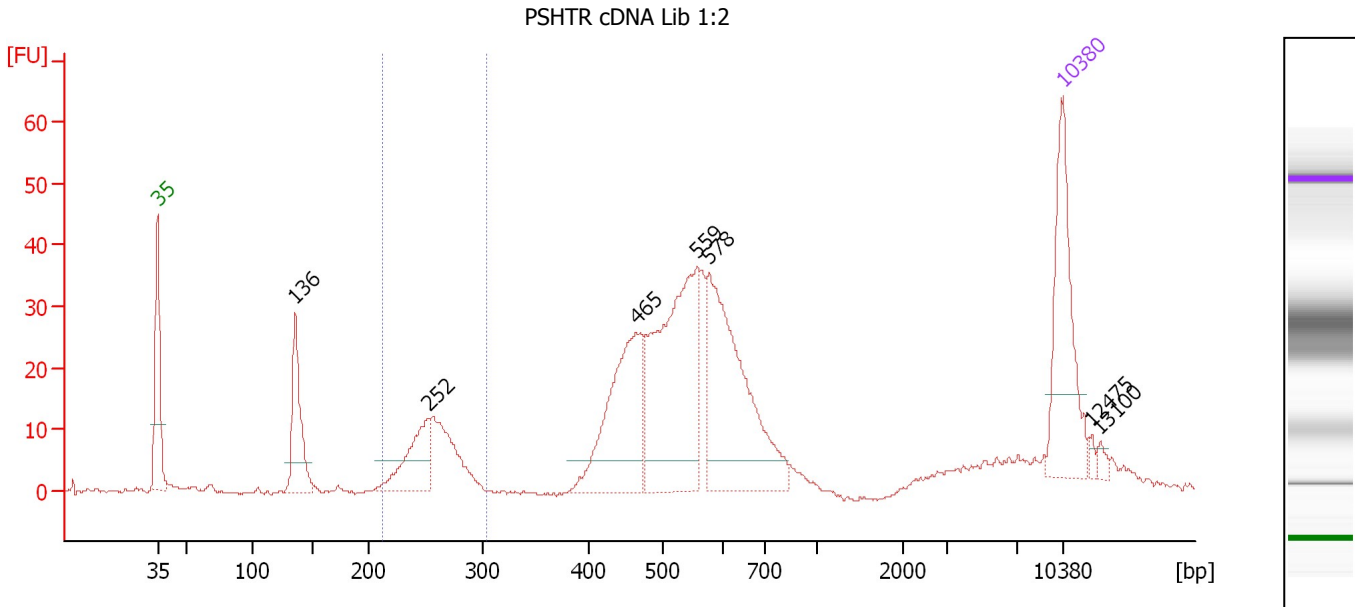
**Region table for sample 7 : PSHM cDNA Lib 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	309	254	3,690.4	619.41	285.2	38	7.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : PSHTR cDNA Lib 1:2**

Number of peaks found: 7      Corr. Area 1: 75.4  
 Noise: 0.2

**Peak table for sample 8 : PSHTR cDNA Lib 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	136	72.49	808.3	
3	252	54.98	330.3	
4	465	127.65	415.9	
5	559	185.91	504.3	
6	578	169.71	445.1	
7	10,380	75.00	10.9	Upper Marker
8	12,475	0.00	0.0	
9	13,100	0.00	0.0	

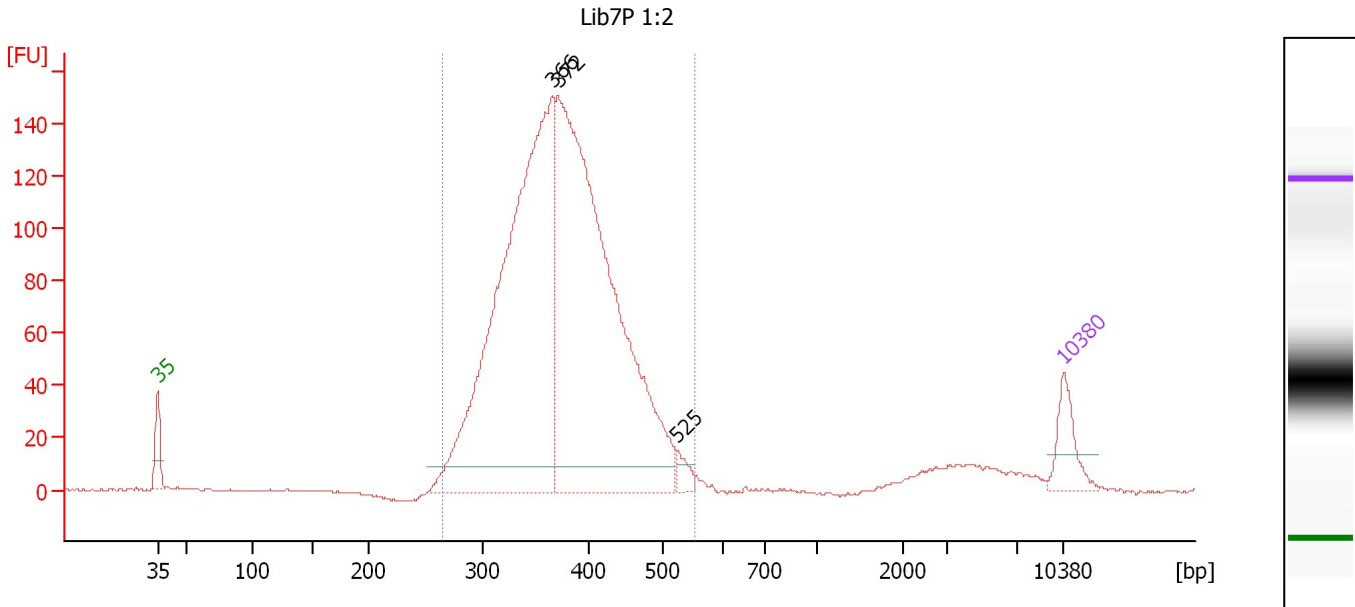
**Region table for sample 8 : PSHTR cDNA Lib 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
213	304	255	689.5	116.27	75.4	13	7.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 9 : Lib7P 1:2**

Height Threshold [FU] : 10

**Overall Results for sample 9 : Lib7P 1:2**

Number of peaks found: 3                      Corr. Area 1: 1,965.2  
 Noise: 0.2

**Peak table for sample 9 : Lib7P 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	366	1,746.69	7,221.4	
3	372	1,858.55	7,563.3	
4	525	32.63	94.1	
5	10,380	75.00	10.9	Upper Marker

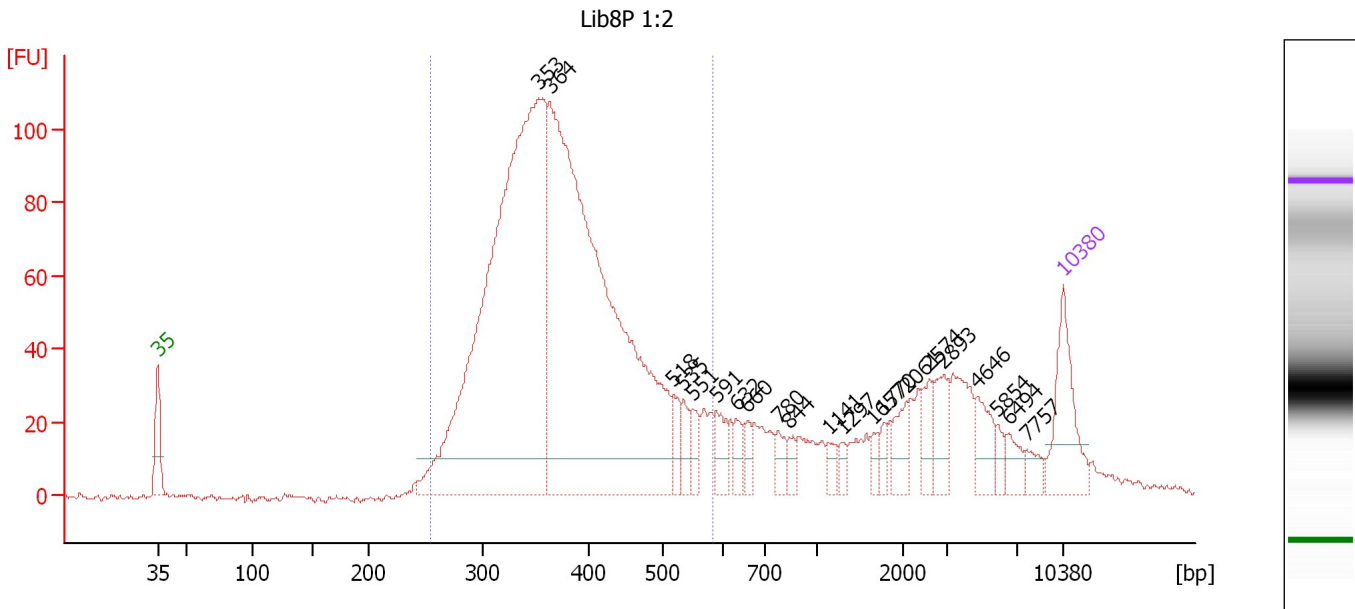
**Region table for sample 9 : Lib7P 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
264	556	378	14,860.4	3,614.18	1,965.2	95	14.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 10 : Lib8P 1:2**

Height Threshold [FU] : 10

**Overall Results for sample 10 : Lib8P 1:2**

Number of peaks found: 21      Corr. Area 1: 1,653.0  
 Noise: 0.8

**Peak table for sample 10 : Lib8P 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	353	1,096.95	4,706.9	
3	364	1,122.94	4,678.6	
4	518	28.37	83.0	
5	535	25.60	72.4	
6	551	24.91	68.5	
7	591	33.63	86.2	
8	632	21.83	52.3	
9	660	17.47	40.1	
10	780	20.17	39.2	
11	844	13.77	24.7	
12	1,141	14.05	18.7	
13	1,297	11.33	13.2	
14	1,657	11.79	10.8	
15	1,770	12.16	10.4	
16	2,061	29.06	21.4	
17	2,574	26.73	15.7	
18	2,893	36.72	19.2	
19	4,646	35.60	11.6	
20	5,854	11.27	2.9	
21	6,494	20.13	4.7	
22	7,757	14.92	2.9	


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
Modified: 2/20/2013 10:25:39 AM

**Electropherogram Summary Continued ...****... Peak table for sample 10 : Lib8P 1:2**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
23	10,380	75.00	10.9	Upper Marker

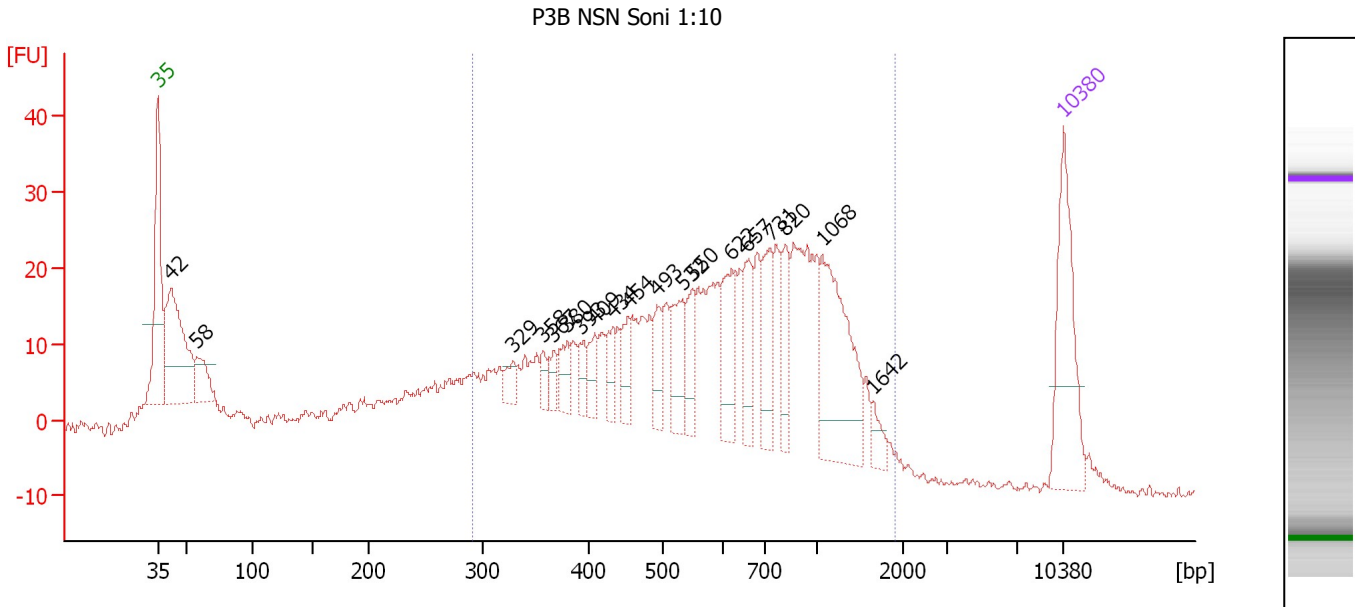
**Region table for sample 10 : Lib8P 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
253	583	381	9,731.5	2,345.47	1,653.0	74	18.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : P3B NSN Soni 1:10**

Number of peaks found: 19      Corr. Area 1: 715.1  
 Noise: 0.7

**Peak table for sample 11 : P3B NSN Soni 1:10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	153.20	5,495.3	
3	58	36.44	952.7	
4	329	13.51	62.2	
5	358	12.18	51.6	
6	367	11.65	48.1	
7	380	20.34	81.0	
8	393	15.23	58.7	
9	409	18.55	68.6	
10	434	19.45	67.9	
11	454	24.56	81.9	
12	493	24.81	76.3	
13	532	40.94	116.5	
14	550	27.08	74.6	
15	622	45.76	111.4	
16	657	34.80	80.2	
17	731	41.50	86.0	
18	820	31.59	58.3	
19	1,068	109.28	155.0	
20	1,642	11.26	10.4	
21	10,380	75.00	10.9	Upper Marker

**Region table for sample 11 : P3B NSN Soni 1:10**

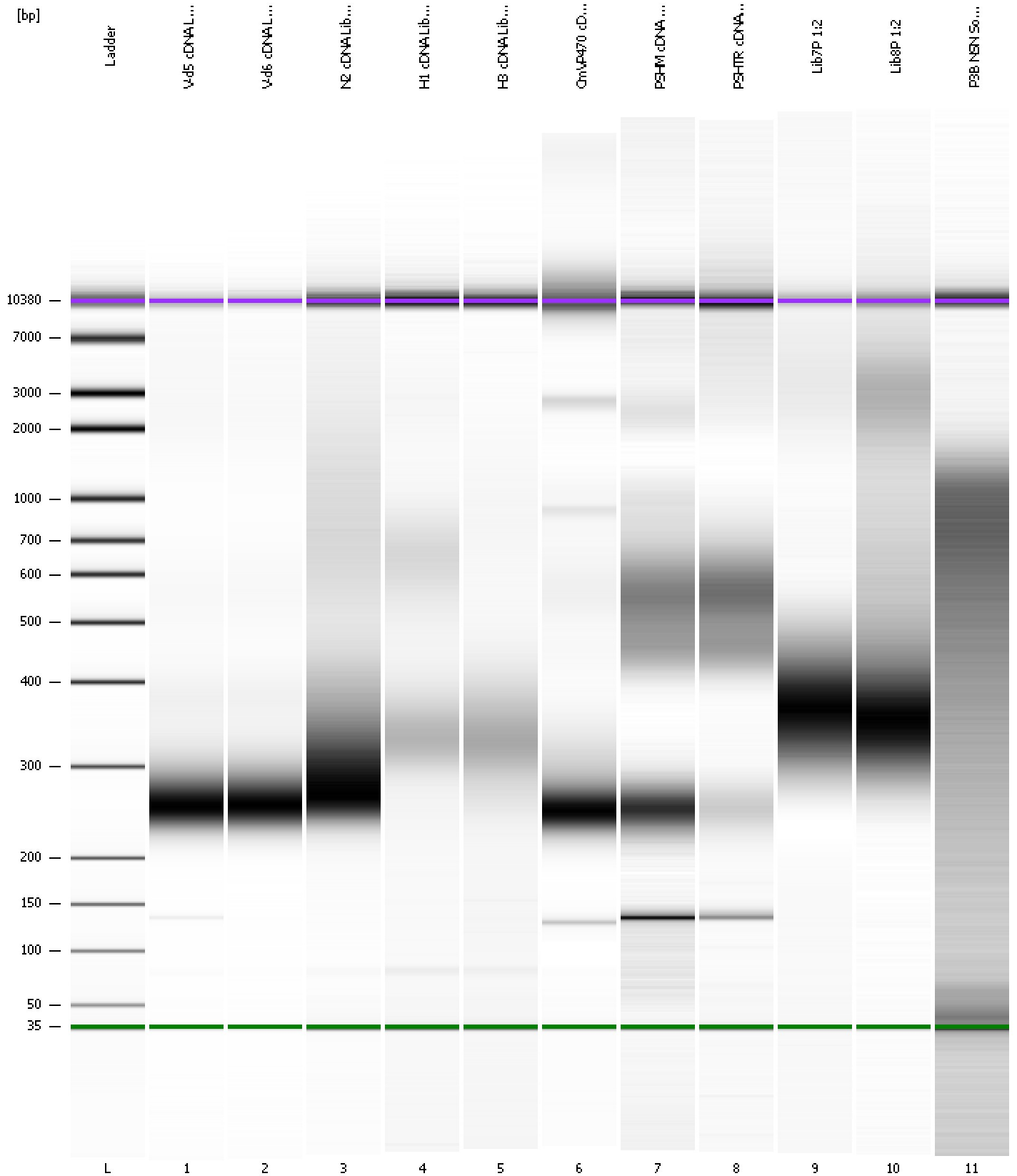
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
291	1,909	691	3,475.8	1,227.31	715.1	73	48.0	Blue



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
Modified: 2/20/2013 10:25:39 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20\_001.xad

Created: 2/20/2013 9:36:44 AM  
 Modified: 2/20/2013 10:25:39 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		2/20/2013 10:18:03 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-02-20\2013-02-20_001.xad)		Instrument	Run		2/20/2013 9:36:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/20/2013 9:36:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/20/2013 9:36:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/20/2013 9:36:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/20/2013 9:36:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/20/2013 9:36:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/20/2013 9:36:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1