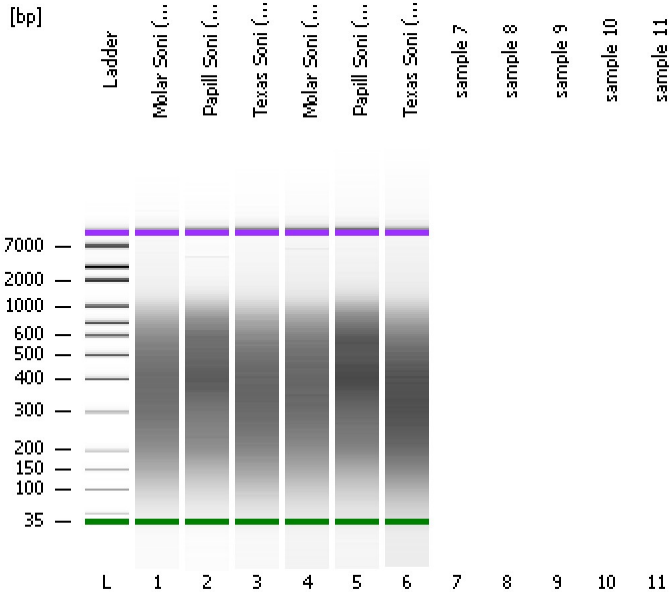


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
Modified: 8/22/2014 3:01:04 PM

Electrophoresis File Run Summary



Instrument Information:

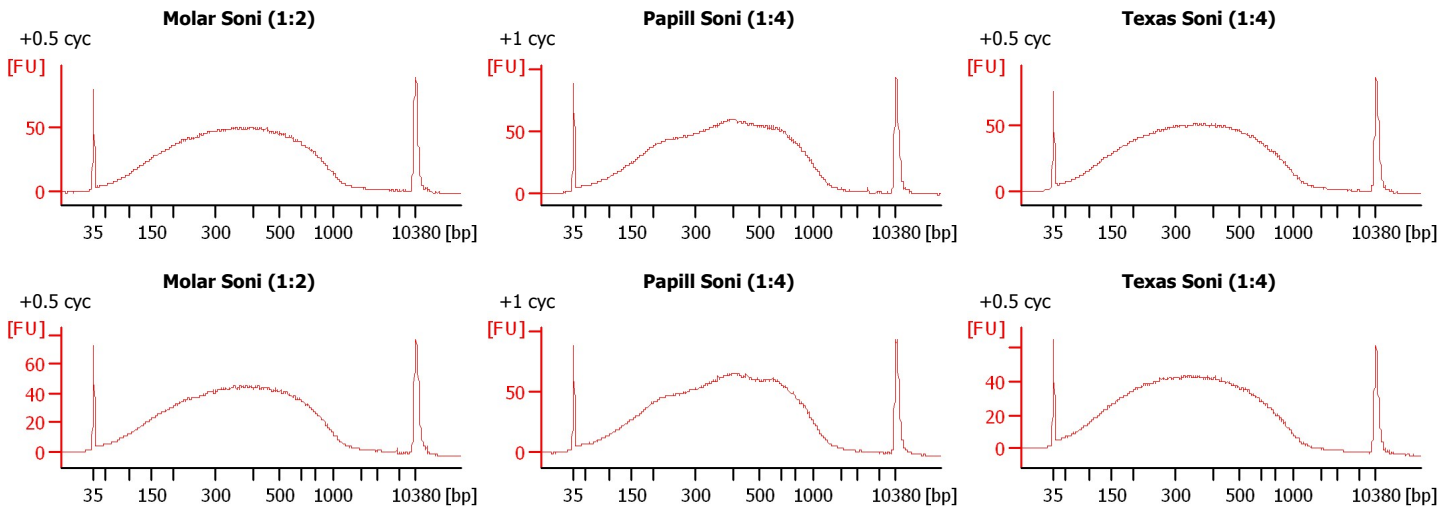
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
 Modified: 8/22/2014 3:01:04 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Molar Soni (1:2)	+0.5 cyc	<input type="checkbox"/>	✓			
Papill Soni (1:4)	+1 cyc	<input type="checkbox"/>	✓			
Texas Soni (1:4)	+0.5 cyc	<input type="checkbox"/>	✓			
Molar Soni (1:2)	+0.5 cyc	<input type="checkbox"/>	✓			
Papill Soni (1:4)	+1 cyc	<input type="checkbox"/>	✓			
Texas Soni (1:4)	+0.5 cyc	<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>				
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<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\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
Modified: 8/22/2014 3:01:04 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

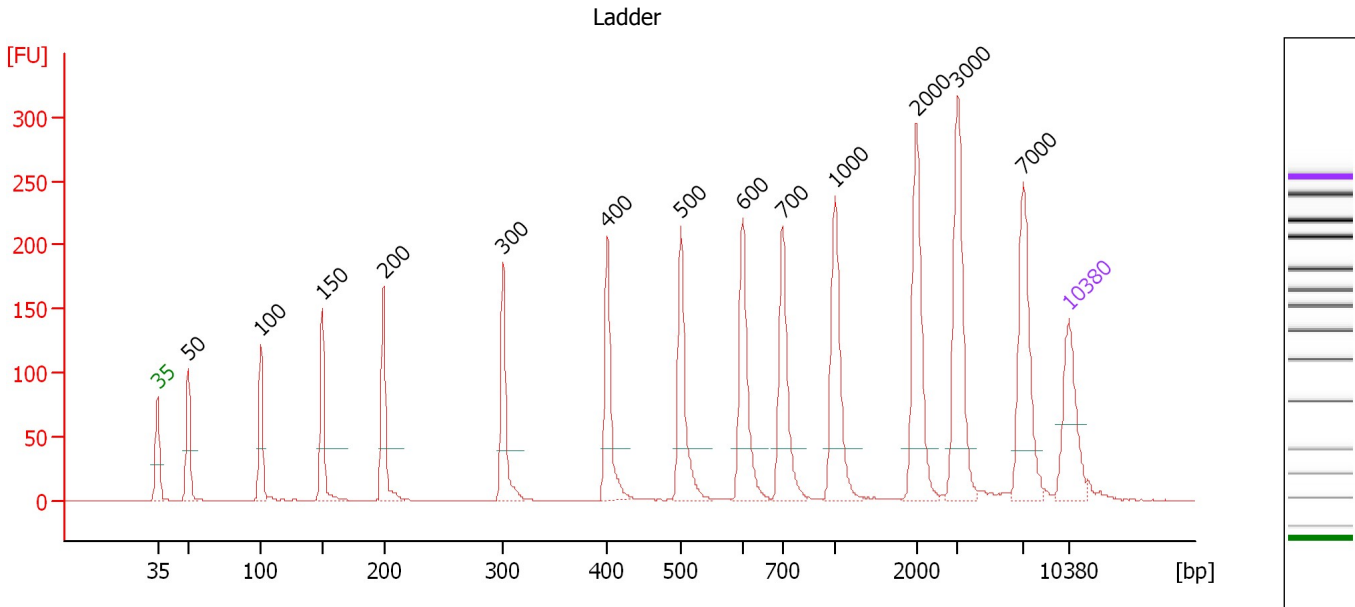
Ladder

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\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
 Modified: 8/22/2014 3:01:04 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

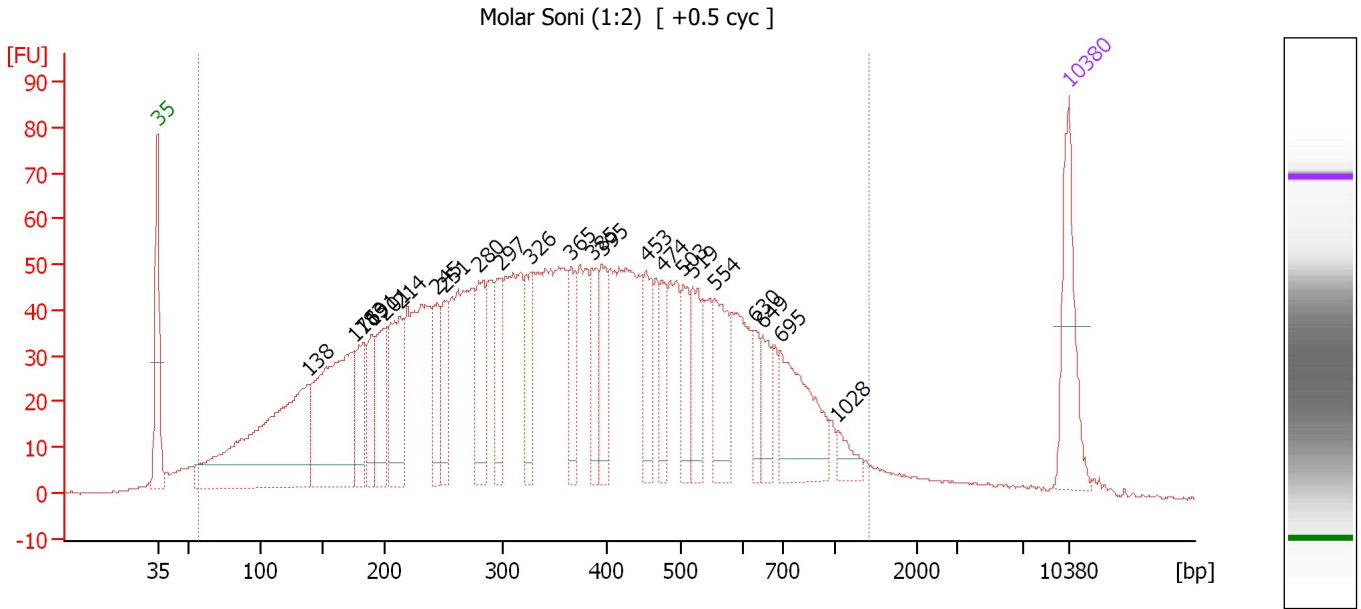
Peak table for Ladder

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:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
 Modified: 8/22/2014 3:01:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Molar Soni (1:2)

Number of peaks found: 23 Corr. Area 1: 2,603.7
 Noise: 0.2

Peak table for sample 1 : Molar Soni (1:2)


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	138	388.36	4,267.9	
3	176	273.47	2,356.1	
4	183	70.27	581.5	
5	191	63.78	506.4	
6	201	81.57	613.5	
7	214	114.38	810.8	
8	245	66.74	413.2	
9	251	57.82	349.5	
10	280	81.75	442.9	
11	297	62.22	317.1	
12	326	67.52	313.5	
13	365	55.06	228.7	
14	385	52.79	207.6	
15	395	55.73	213.8	
16	453	60.43	202.3	
17	474	41.71	133.3	
18	503	48.69	146.6	
19	519	58.11	169.8	
20	554	71.17	194.7	
21	630	26.44	63.6	
22	649	38.32	89.5	
23	695	111.57	243.2	
24	1,028	17.77	26.2	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
Modified: 8/22/2014 3:01:04 PM

Electropherogram Summary Continued ...

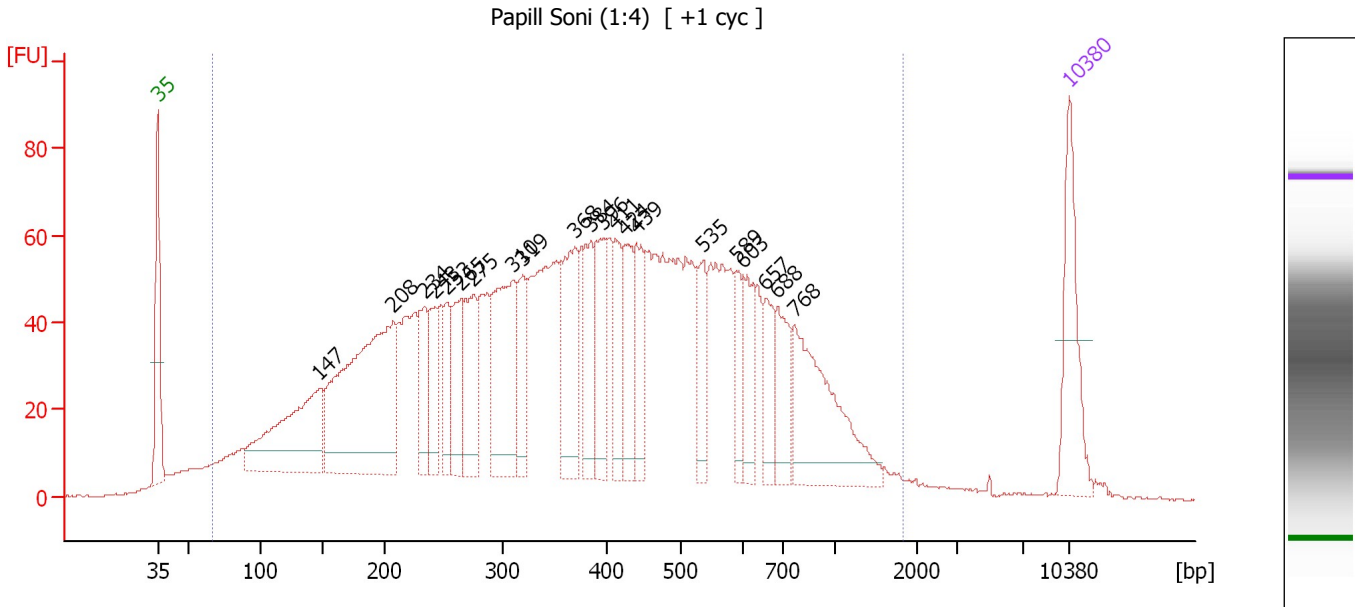
... Region table for sample 1 : Molar Soni (1:2)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
57	1,411	388	23,720.6	3,755.04	 2,603.7	96	53.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
 Modified: 8/22/2014 3:01:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Papill Soni (1:4)

Number of peaks found: 21 Corr. Area 1: 2,874.5
 Noise: 0.2

Peak table for sample 2 : Papill Soni (1:4)


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	147	210.77	2,169.7	
3	208	374.08	2,722.9	
4	234	63.08	407.6	
5	243	62.30	388.6	
6	253	50.52	302.8	
7	265	76.44	437.5	
8	275	91.78	505.4	
9	310	161.39	789.7	
10	319	65.26	310.2	
11	368	111.93	460.3	
12	384	69.82	275.2	
13	396	84.97	324.7	
14	411	56.44	208.0	
15	424	69.95	250.0	
16	439	64.95	224.0	
17	535	54.77	155.0	
18	589	38.07	97.9	
19	603	49.08	123.4	
20	657	44.07	101.6	
21	688	60.02	132.1	
22	768	161.11	317.7	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
Modified: 8/22/2014 3:01:04 PM

Electropherogram Summary Continued ...

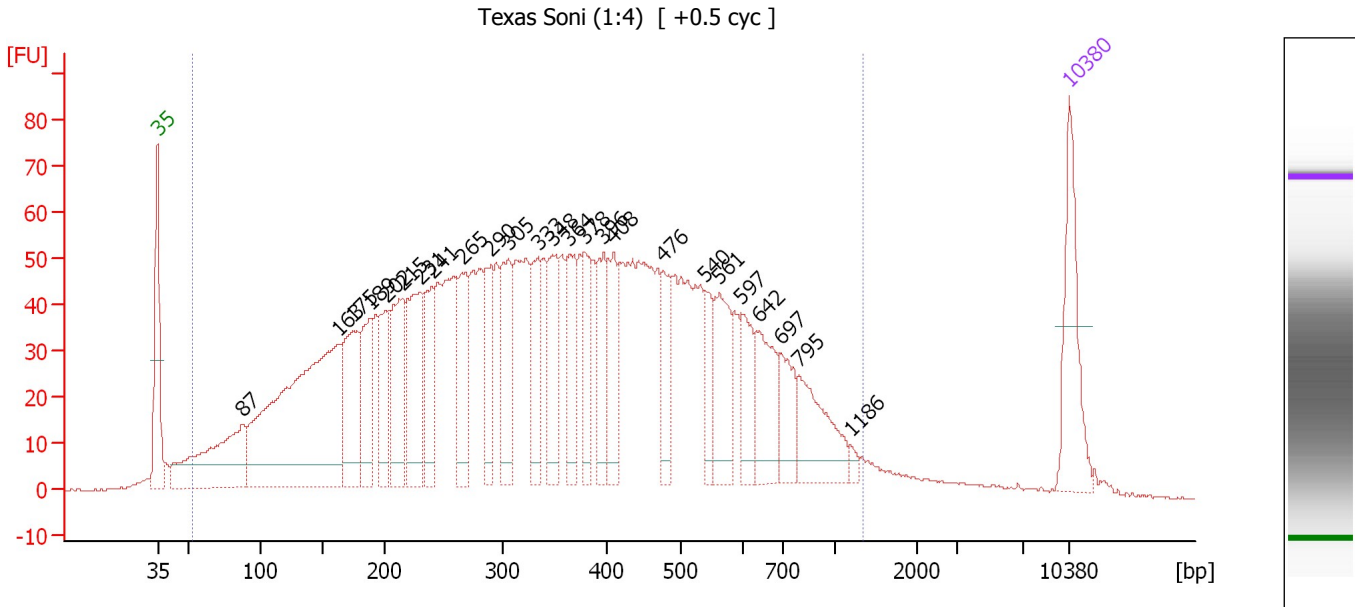
... Region table for sample 2 : Papill Soni (1:4)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
66	1,841	426	21,011.9	3,622.80	 2,874.5	97	57.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
 Modified: 8/22/2014 3:01:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Texas Soni (1:4)

Number of peaks found: 25 Corr. Area 1: 2,721.2
 Noise: 0.2

Peak table for sample 3 : Texas Soni (1:4)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	87	190.15	3,297.7	
3	163	500.10	4,659.7	
4	175	128.22	1,110.3	
5	189	85.91	687.6	
6	202	83.34	624.4	
7	215	122.45	861.6	
8	231	132.02	866.1	
9	241	85.05	535.7	
10	265	90.49	517.0	
11	290	64.83	338.8	
12	305	90.98	451.6	
13	333	73.09	332.5	
14	348	80.22	349.7	
15	364	73.19	304.8	
16	378	59.32	237.6	
17	396	71.23	272.3	
18	408	62.69	232.9	
19	476	52.01	165.7	
20	540	35.47	99.6	
21	561	80.87	218.4	
22	597	53.28	135.2	
23	642	68.80	162.5	
24	697	47.62	103.6	
25	795	78.67	149.9	
26	1,186	5.97	7.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
Modified: 8/22/2014 3:01:04 PM

Electropherogram Summary Continued ...**... Peak table for sample 3 : Texas Soni (1:4)**

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

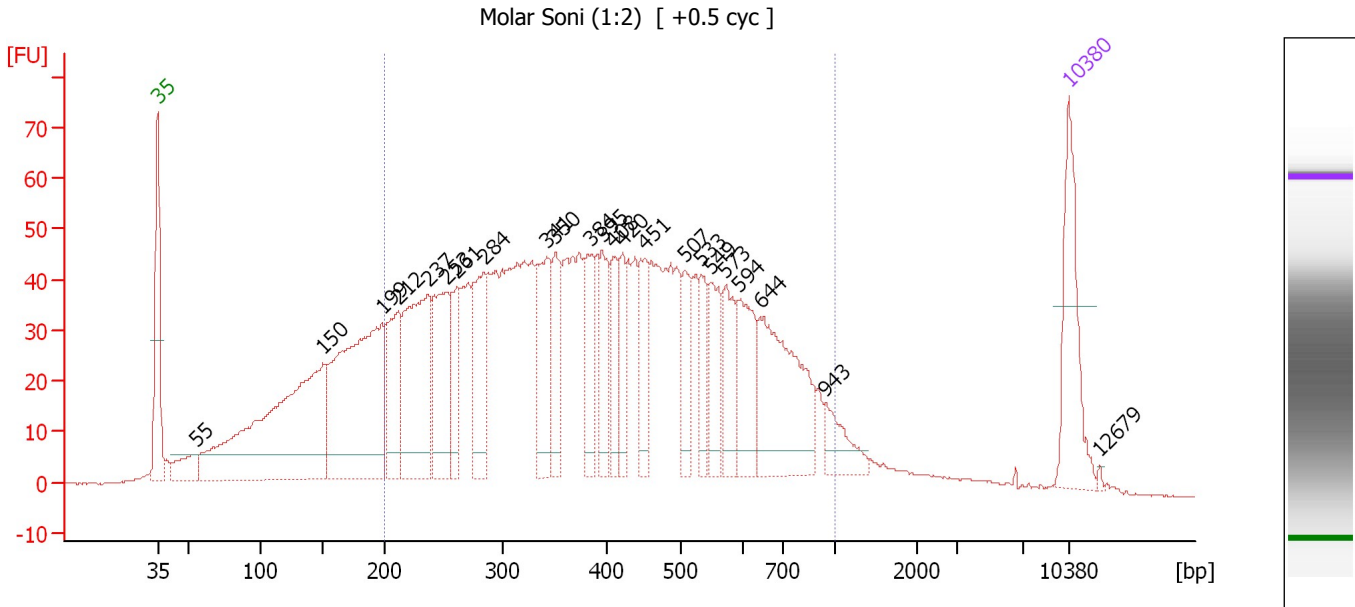
Region table for sample 3 : Texas Soni (1:4)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
53	1,354	379	24,913.5	3,799.83	2,721.2	96	53.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
 Modified: 8/22/2014 3:01:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Molar Soni (1:2)

Number of peaks found: 23 Corr. Area 1: 1,837.9
 Noise: 0.2

Peak table for sample 4 : Molar Soni (1:2)


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	38.23	1,046.4	
3	150	410.66	4,141.3	
4	199	325.22	2,477.1	
5	212	98.70	706.4	
6	237	195.31	1,247.3	
7	253	121.15	726.6	
8	261	56.75	329.7	
9	284	93.38	498.5	
10	341	91.55	406.3	
11	350	60.88	263.8	
12	384	63.76	251.3	
13	395	58.35	223.8	
14	408	43.65	162.2	
15	420	43.36	156.3	
16	451	54.50	183.1	
17	507	43.06	128.7	
18	533	35.03	99.6	
19	549	55.34	152.8	
20	573	53.64	141.9	
21	594	66.90	170.5	
22	644	150.77	354.7	
23	943	32.67	52.5	
24	10,380	75.00	10.9	Upper Marker
25	12,679	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
Modified: 8/22/2014 3:01:04 PM

Electropherogram Summary Continued ...

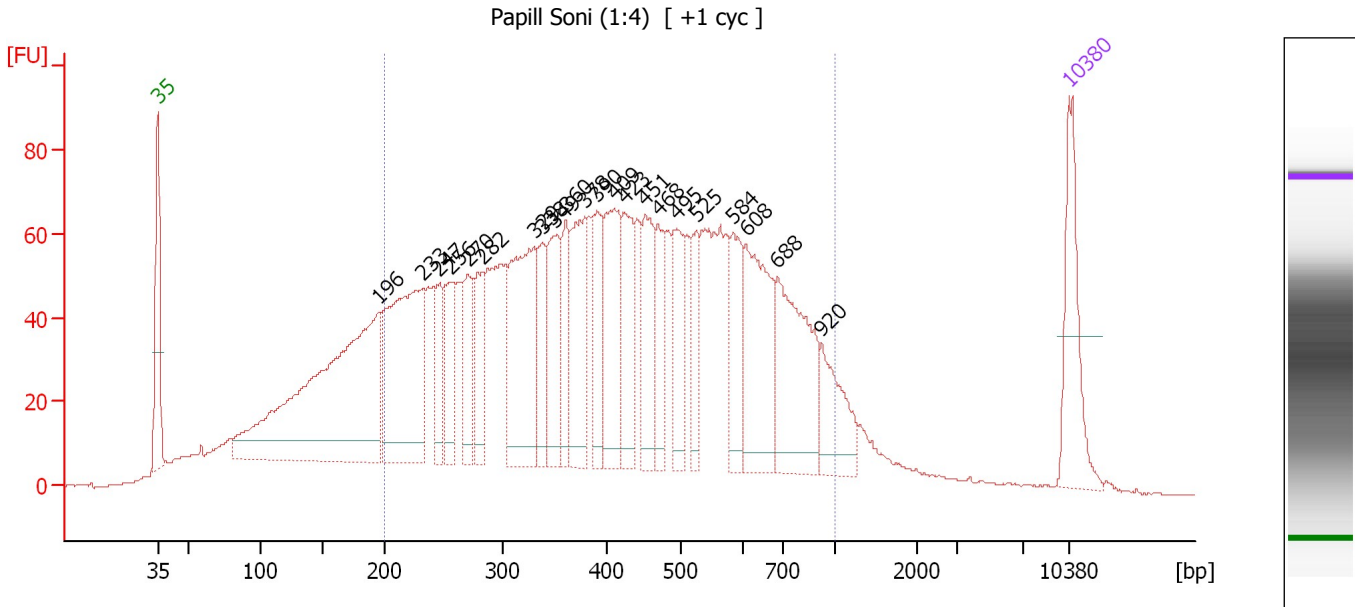
... Region table for sample 4 : Molar Soni (1:2)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	427	10,608.1	2,444.29	 1,837.9	75	39.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
 Modified: 8/22/2014 3:01:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Papill Soni (1:4)

Number of peaks found: 22 Corr. Area 1: 2,561.4
 Noise: 0.1

Peak table for sample 5 : Papill Soni (1:4)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	196	499.18	3,862.1	
3	233	272.93	1,774.2	
4	247	62.11	381.6	
5	256	77.99	460.8	
6	270	77.76	435.7	
7	282	68.99	370.2	
8	329	187.86	864.6	
9	338	61.97	278.1	
10	349	91.37	396.8	
11	360	54.85	230.7	
12	378	116.11	465.3	
13	390	67.28	261.3	
14	409	119.38	442.6	
15	423	84.28	301.9	
16	451	81.29	273.2	
17	468	62.82	203.2	
18	495	68.26	209.2	
19	525	44.47	128.4	
20	584	64.81	168.1	
21	608	135.22	336.9	
22	688	151.91	334.4	
23	920	63.18	104.0	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
Modified: 8/22/2014 3:01:04 PM

Electropherogram Summary Continued ...

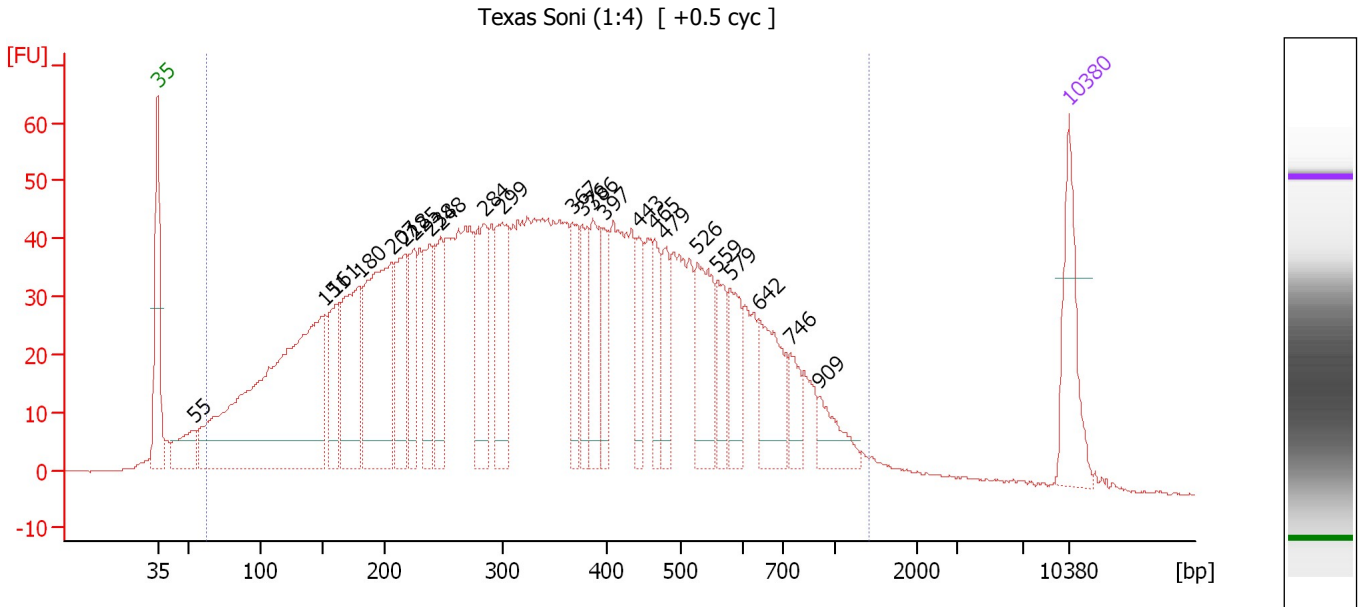
... Region table for sample 5 : Papill Soni (1:4)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	443	12,231.5	2,894.77	 2,561.4	76	39.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
 Modified: 8/22/2014 3:01:04 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Texas Soni (1:4)

Number of peaks found: 24 Corr. Area 1: 2,377.3
 Noise: 0.2

Peak table for sample 6 : Texas Soni (1:4)


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	56.37	1,565.1	
3	151	646.41	6,472.9	
4	161	95.92	905.4	
5	180	183.23	1,538.4	
6	207	266.44	1,953.4	
7	218	110.15	765.1	
8	225	76.14	511.7	
9	238	92.51	587.8	
10	248	86.86	531.0	
11	284	123.08	657.0	
12	299	125.78	636.4	
13	367	65.50	270.7	
14	376	58.98	237.9	
15	386	80.52	316.2	
16	397	55.73	212.6	
17	443	51.30	175.6	
18	465	49.11	160.2	
19	479	50.88	161.0	
20	526	102.86	296.1	
21	559	47.05	127.6	
22	579	63.15	165.2	
23	642	87.45	206.5	
24	746	29.61	60.1	
25	909	38.04	63.4	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
Modified: 8/22/2014 3:01:04 PM

Electropherogram Summary Continued ...

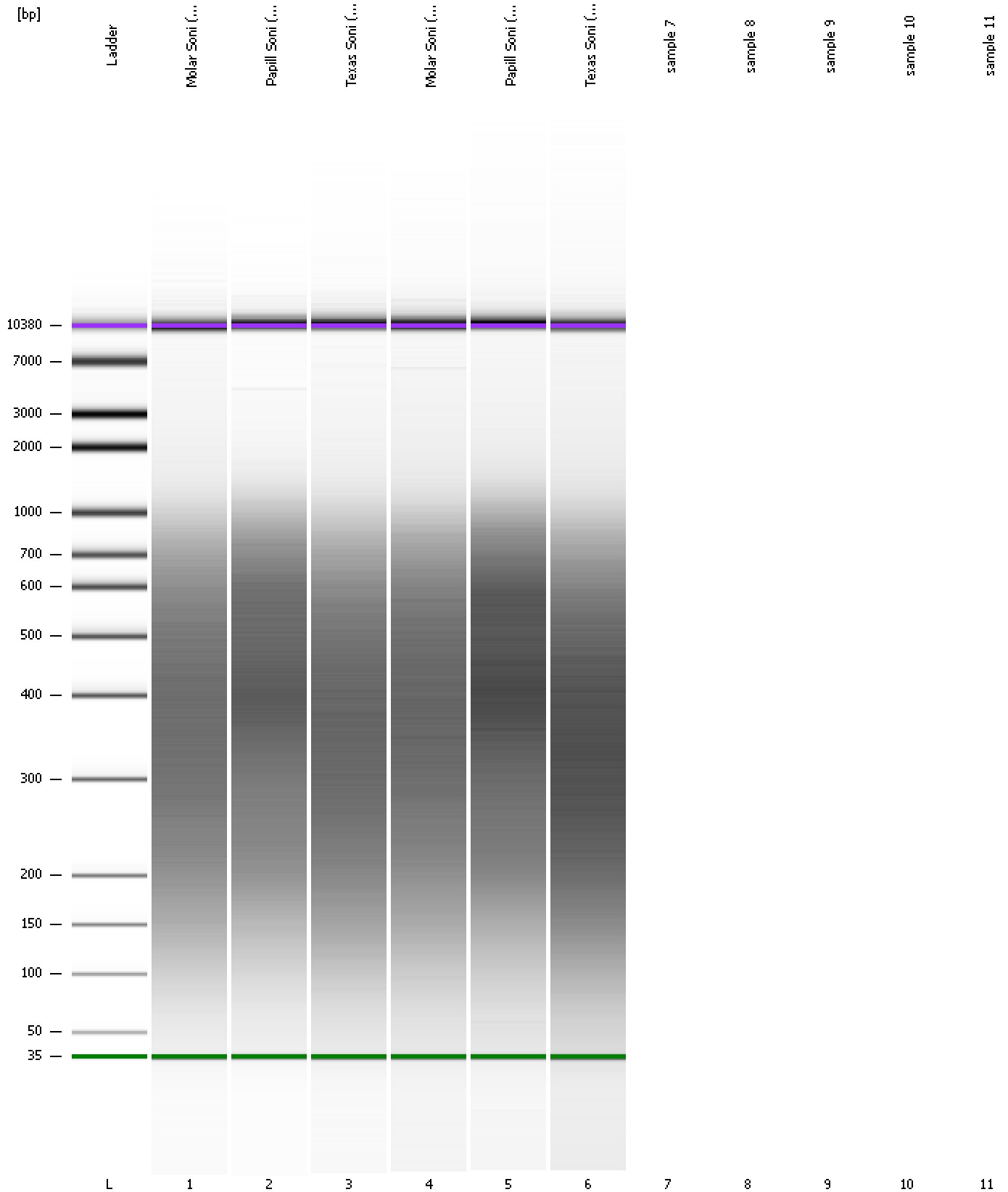
... Region table for sample 6 : Texas Soni (1:4)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
62	1,405	371	29,087.4	4,409.31	 2,377.3	96	54.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
Modified: 8/22/2014 3:01:04 PM

Gel Image

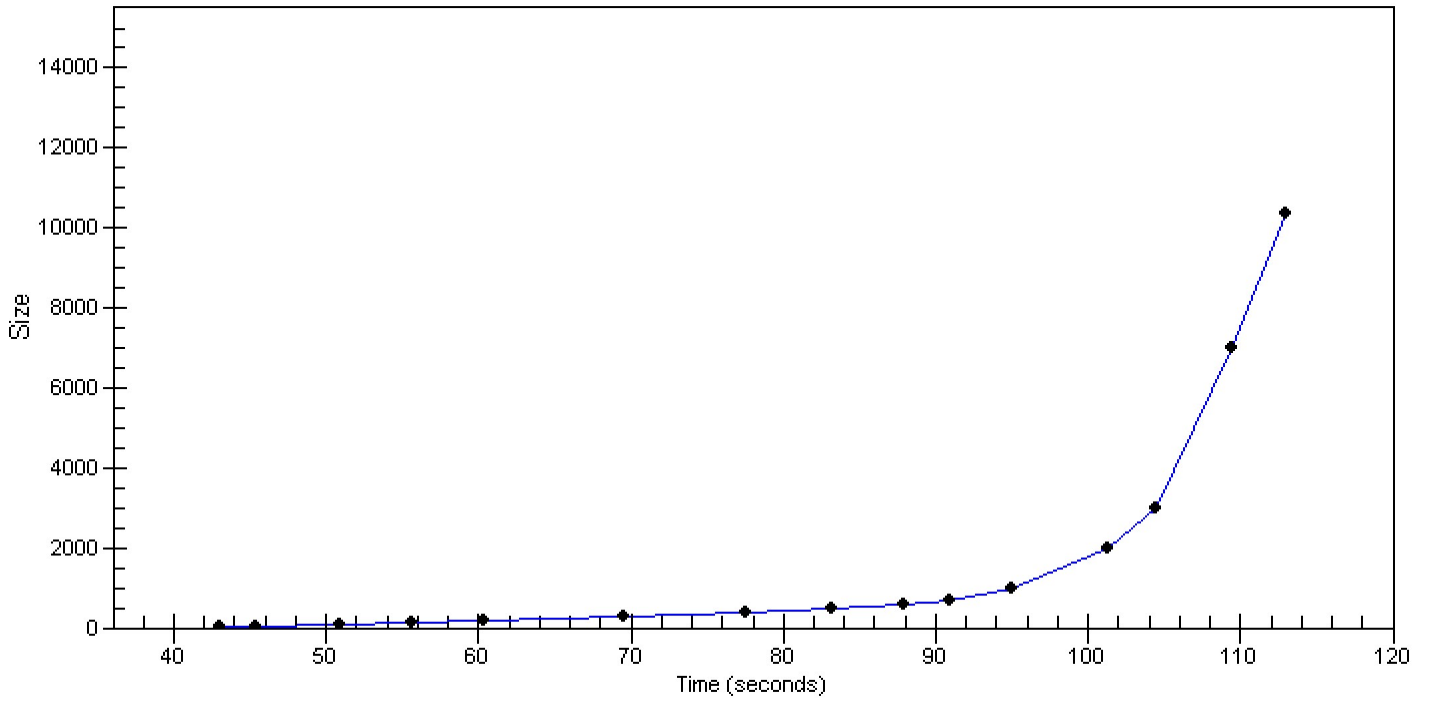


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
Modified: 8/22/2014 3:01:04 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
Modified: 8/22/2014 3:01:04 PM

Invalid Samples

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

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\2014-08-22\2014-08-22_006.xad

Created: 8/22/2014 2:29:57 PM
 Modified: 8/22/2014 3:01:04 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		8/22/2014 2:56:59 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\2014-08-22\2014-08-22_006.xad)		Instrument	Run		8/22/2014 2:30:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/22/2014 2:30:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/22/2014 2:30:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/22/2014 2:30:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/22/2014 2:30:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/22/2014 2:30:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/22/2014 2:30:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1