

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-08-28\2014-08-28_001.xad

Created: 8/28/2014 11:19:29 AM
Modified: 8/28/2014 11:47:02 AM

Electrophoresis File Run Summary

Instrument Information:

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

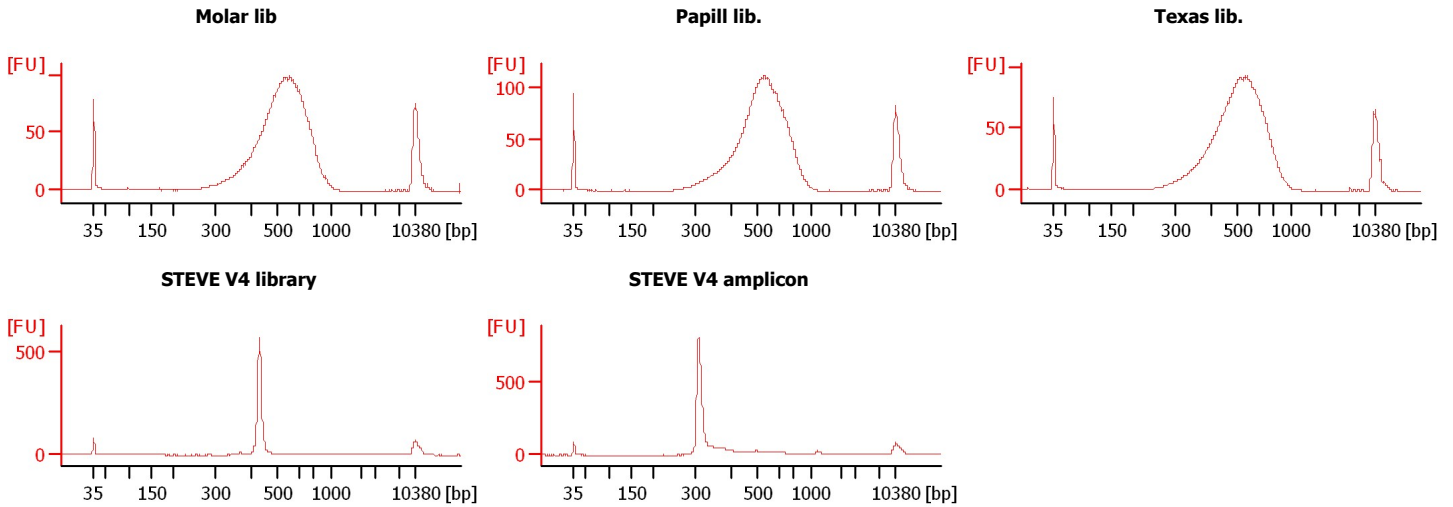
Assay Information:

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
Molar lib		<input type="checkbox"/>	✓			
Papill lib.		<input type="checkbox"/>	✓			
Texas lib.		<input type="checkbox"/>	✓			
STEVE V4 library		<input type="checkbox"/>	✓			
STEVE V4 amplicon		<input type="checkbox"/>	✓			
sample 6		<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 :

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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

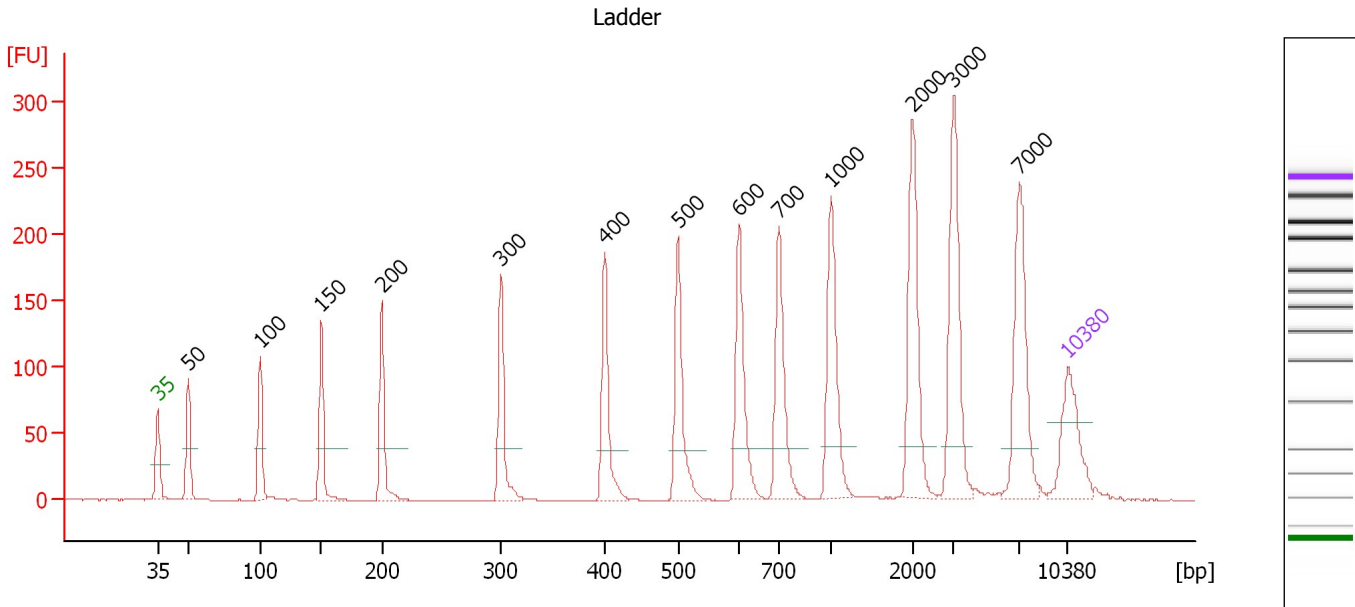
Ladder

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

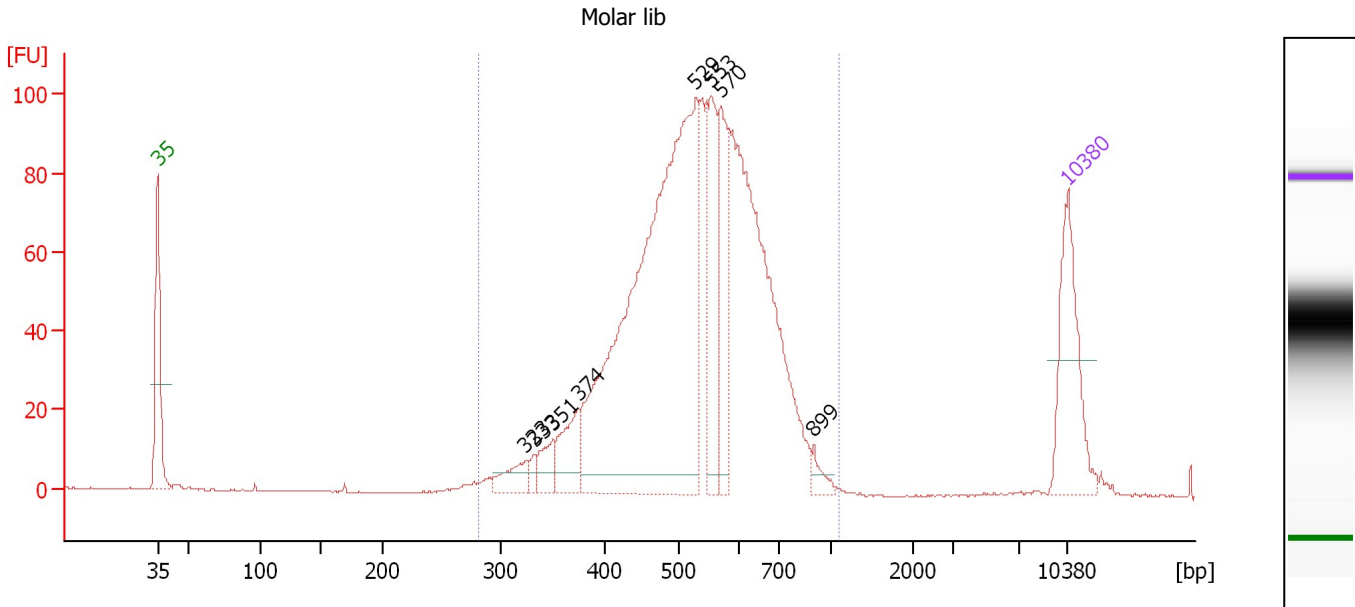
Peak table for Ladder

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 : Molar lib

Number of peaks found: 8 Corr. Area 1: 1,478.1
 Noise: 0.2

Peak table for sample 1 : Molar lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	323	23.85	112.0	
3	333	7.70	35.1	
4	351	21.93	94.7	
5	374	43.31	175.3	
6	529	605.09	1,733.8	
7	553	90.78	248.5	
8	570	85.47	227.3	
9	899	10.46	17.6	
10	10,380	75.00	10.9	Upper Marker

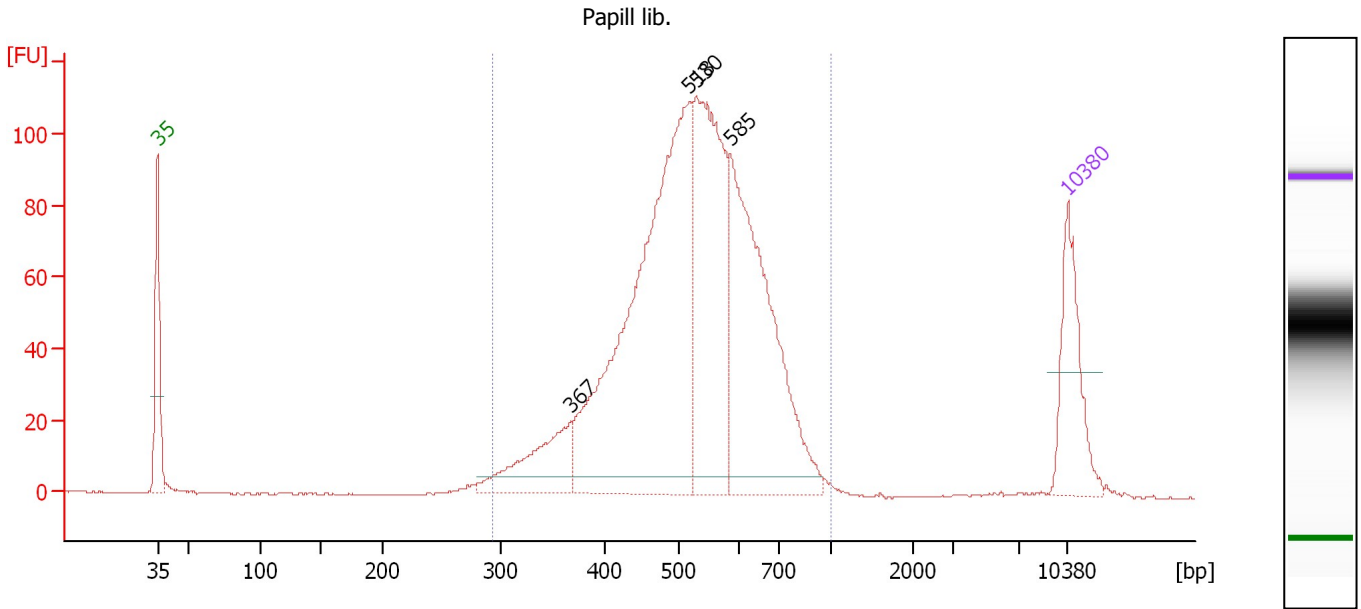
Region table for sample 1 : Molar lib

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
282	1,103	1,478.1	98	535	20.8	1,338.22	4,020.4	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : Papill lib.

Number of peaks found: 4 Corr. Area 1: 1,579.2
 Noise: 0.1

Peak table for sample 2 : Papill lib.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	367	96.03	396.2	
3	518	592.55	1,731.5	
4	530	297.34	850.0	
5	585	326.34	845.7	
6	10,380	75.00	10.9	Upper Marker

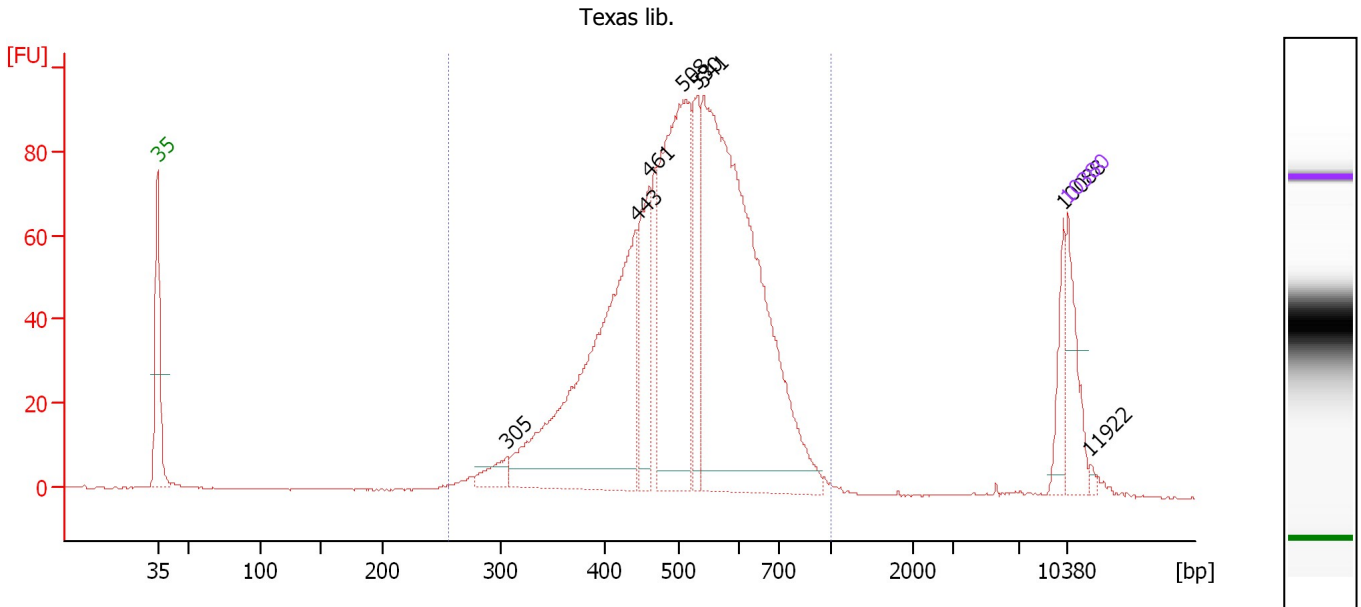
Region table for sample 2 : Papill lib.

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
294	1,000	1,579.2	98	530	20.5	1,351.75	4,090.6	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : Texas lib.

Number of peaks found: 8 Corr. Area 1: 1,488.6
 Noise: 0.1

Peak table for sample 3 : Texas lib.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	305	36.69	182.0	
3	443	633.20	2,166.7	
4	461	147.81	486.1	
5	508	494.43	1,473.8	
6	530	133.96	382.6	
7	541	960.23	2,688.7	
8	10,088	46.63	7.0	
9	10,380	75.00	10.9	Upper Marker
10	11,922	0.00	0.0	

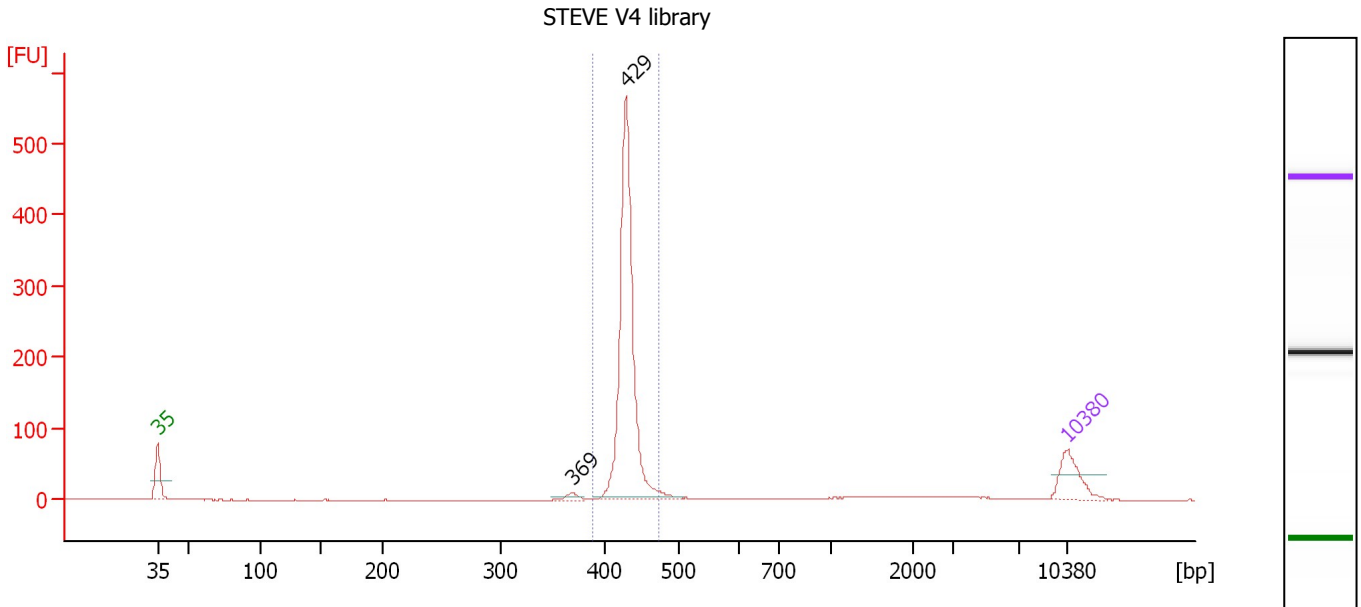
Region table for sample 3 : Texas lib.

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
257	1,000	1,488.6	95	515	21.4	2,586.48	8,125.0	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 4 : STEVE V4 library

Number of peaks found: 2 Corr. Area 1: 829.4
 Noise: 0.2

Peak table for sample 4 : STEVE V4 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	369	15.25	62.6	
3	429	800.60	2,828.8	
4	10,380	75.00	10.9	Upper Marker

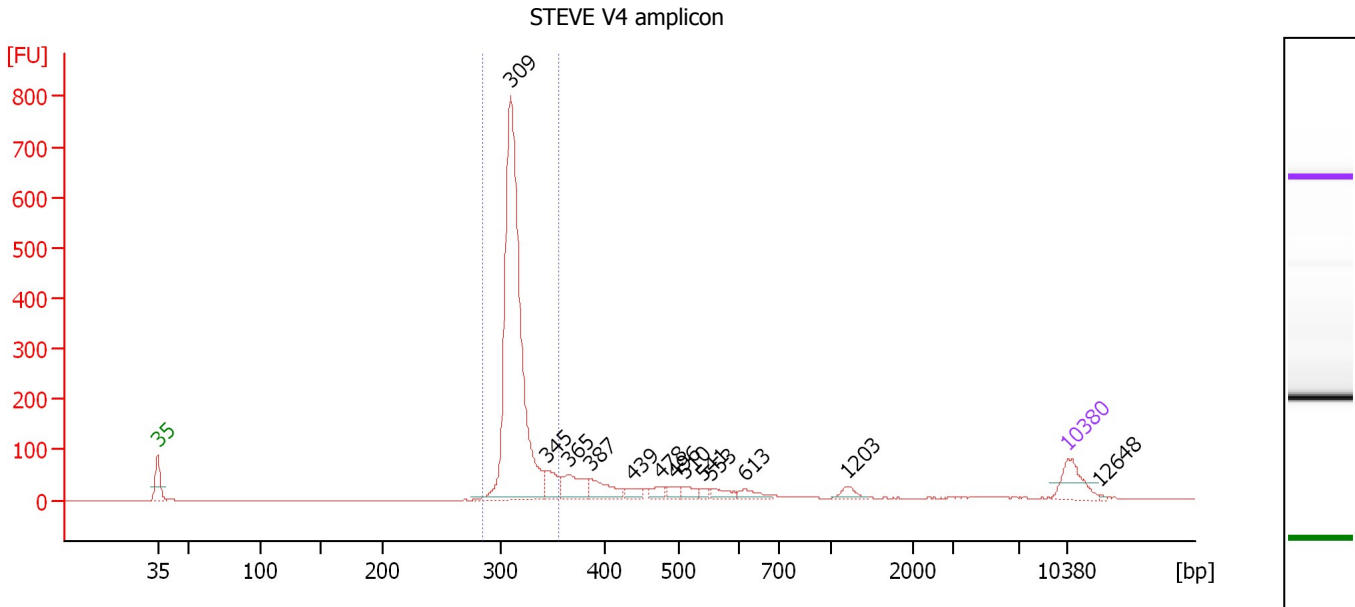
Region table for sample 4 : STEVE V4 library

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
389	473	829.4	85	430	2.5	789.28	2,778.5	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 5 : STEVE V4 amplicon

Number of peaks found: 13 Corr. Area 1: 1,708.1
 Noise: 0.2

Peak table for sample 5 : STEVE V4 amplicon

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	309	1,445.45	7,083.1	
3	345	70.50	309.6	
4	365	111.98	464.9	
5	387	81.46	319.2	
6	439	26.68	92.0	
7	478	27.64	87.6	
8	496	26.30	80.3	
9	510	29.76	88.3	
10	541	14.62	40.9	
11	553	31.02	85.0	
12	613	28.27	69.8	
13	1,203	21.25	26.8	
14	10,380	75.00	10.9	Upper Marker
15	12,648	0.00	0.0	

Region table for sample 5 : STEVE V4 amplicon

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
285	356	1,708.1	69	315	3.7	1,497.26	7,204.8	Blue

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Gel Image

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Invalid Samples

Sample 6 has not been run, no results available.

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.

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Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 6)		Instrument	Run		8/28/2014 11:43:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-08-28\2014-08-28_001.xad)		Instrument	Run		8/28/2014 11:19:35 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/28/2014 11:19:35 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/28/2014 11:19:35 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/28/2014 11:19:35 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/28/2014 11:19:35 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/28/2014 11:19:35 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/28/2014 11:19:35 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1