

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad

Created: 9/19/2014 3:18:15 PM
Modified: 9/19/2014 3:59:39 PM

Electrophoresis File Run Summary

Instrument Information:

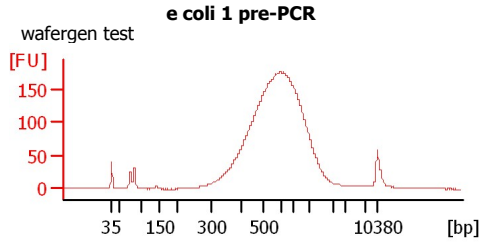
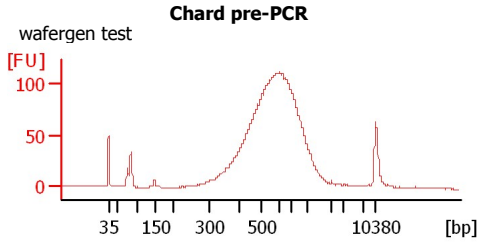
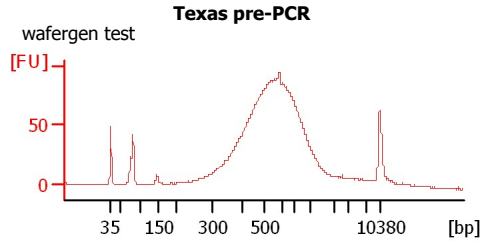
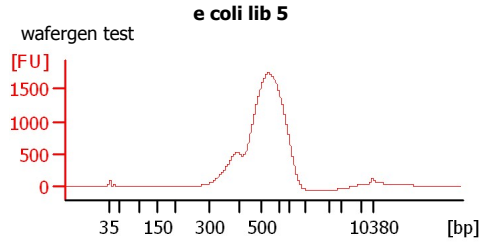
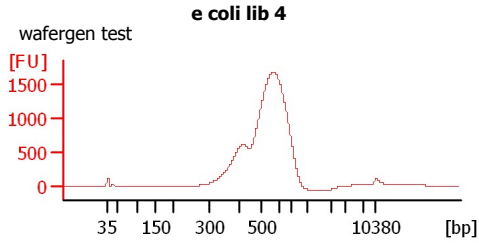
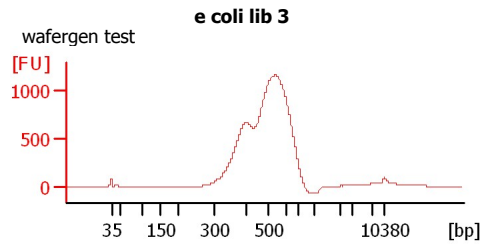
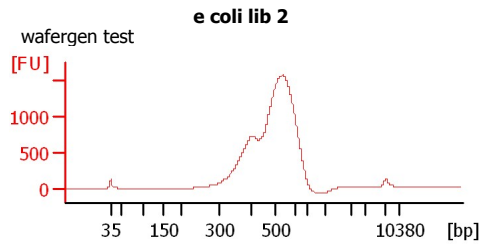
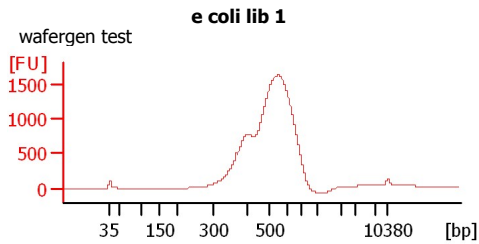
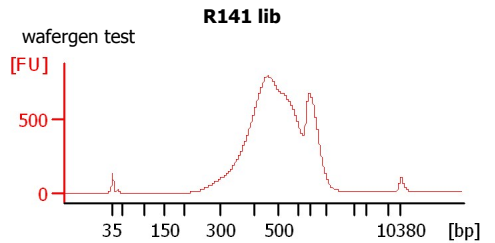
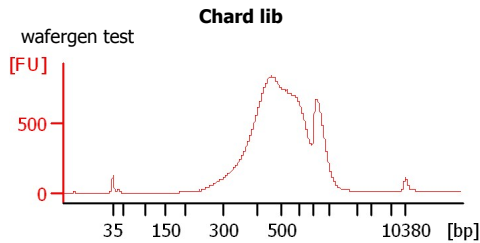
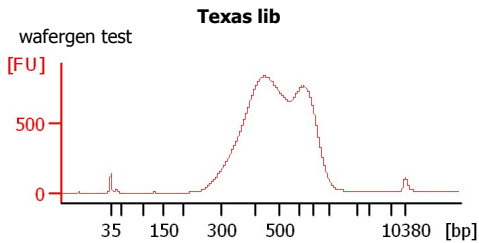
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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 Modified: 9/19/2014 3:59:39 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Texas lib	wafergen test	<input type="checkbox"/>	✓			
Chard lib	wafergen test	<input type="checkbox"/>	✓			
R141 lib	wafergen test	<input type="checkbox"/>	✓			
e coli lib 1	wafergen test	<input type="checkbox"/>	✓			
e coli lib 2	wafergen test	<input type="checkbox"/>	✓			
e coli lib 3	wafergen test	<input type="checkbox"/>	✓			
e coli lib 4	wafergen test	<input type="checkbox"/>	✓			
e coli lib 5	wafergen test	<input type="checkbox"/>	✓			
Texas pre-PCR	wafergen test	<input type="checkbox"/>	✓			
Chard pre-PCR	wafergen test	<input type="checkbox"/>	✓			
e coli 1 pre-PCR	wafergen test	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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 Modified: 9/19/2014 3:59:39 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

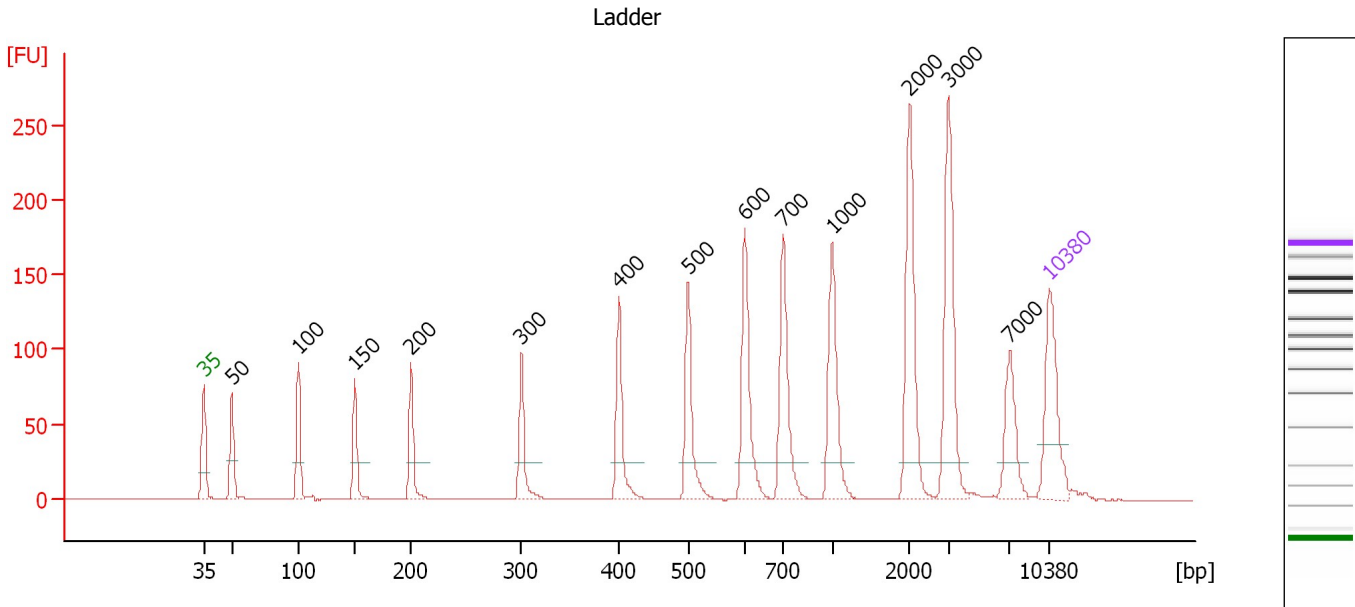
Ladder

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

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Created: 9/19/2014 3:18:15 PM
 Modified: 9/19/2014 3:59:39 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

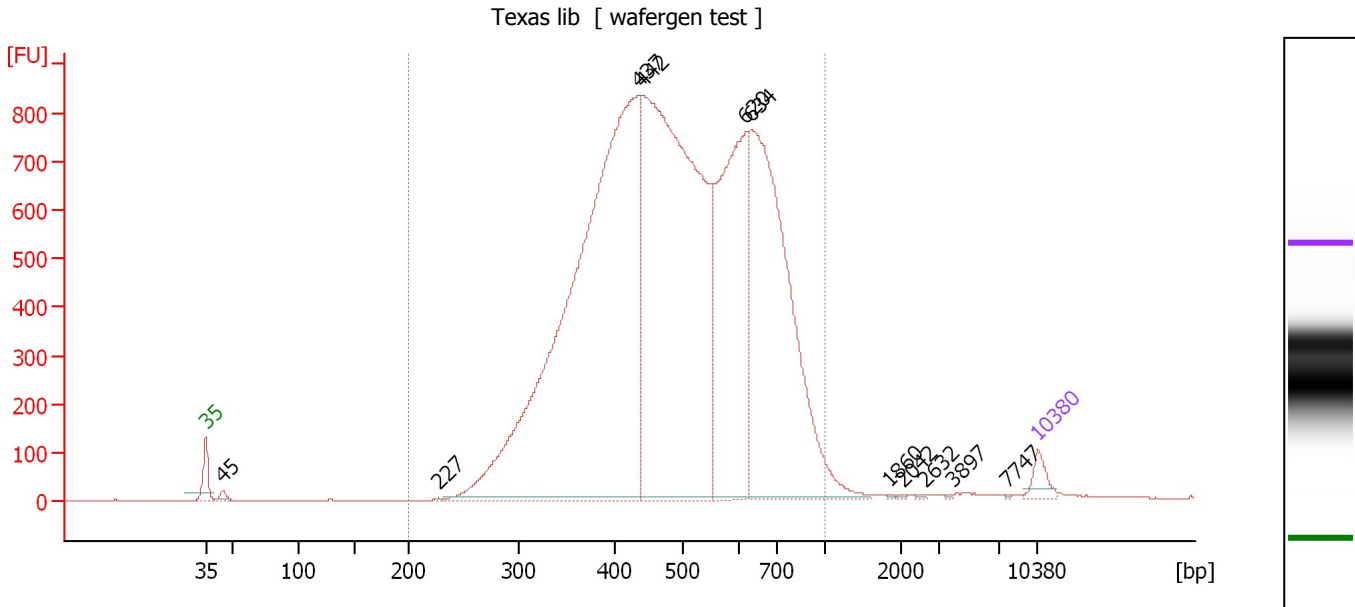
Peak table for Ladder

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

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Created: 9/19/2014 3:18:15 PM
 Modified: 9/19/2014 3:59:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Texas lib

Number of peaks found: 11 Corr. Area 1: 19,105.6
 Noise: 0.2

Peak table for sample 1 : Texas lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	44.52	1,510.2	
3	227	4.13	27.6	
4	437	6,419.77	22,281.6	
5	442	5,169.90	17,721.6	
6	620	1,965.42	4,801.1	
7	634	2,897.97	6,921.7	
8	1,860	3.65	3.0	
9	2,042	4.34	3.2	
10	2,632	5.00	2.9	
11	3,897	5.08	2.0	
12	7,747	3.47	0.7	
13	10,380	75.00	10.9	Upper Marker

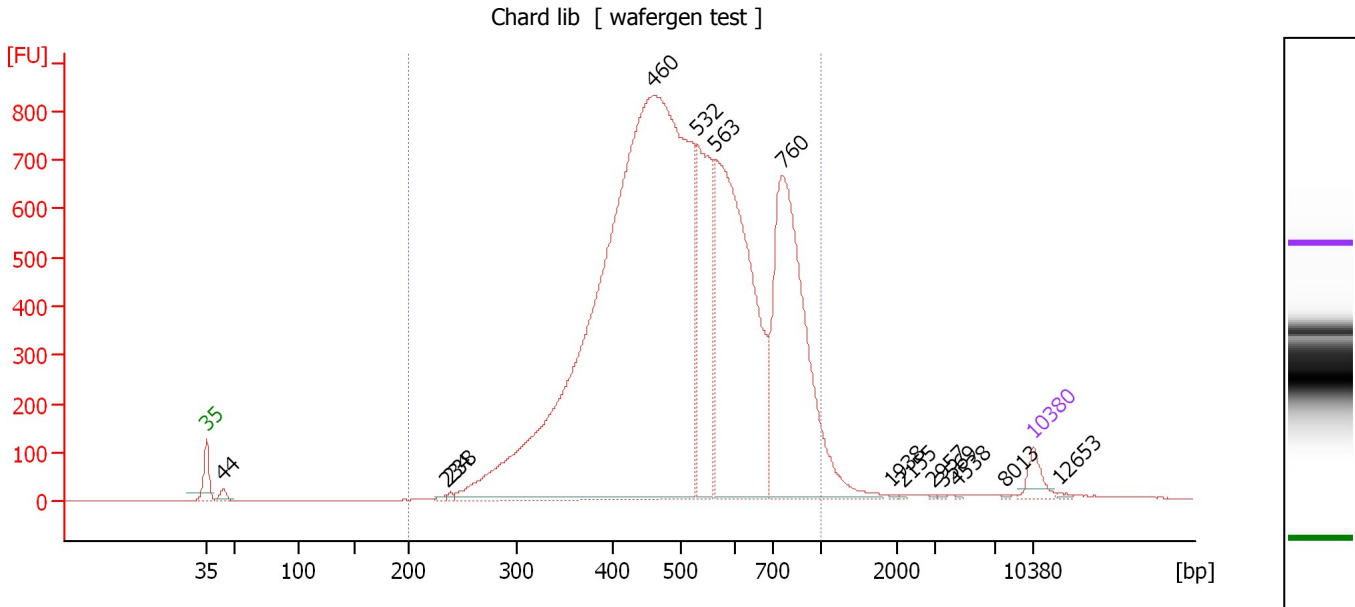
Region table for sample 1 : Texas lib

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	508	1,000	19,105.6	98	27.3	16,736.12	55,184.6	Blue

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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad

Created: 9/19/2014 3:18:15 PM
 Modified: 9/19/2014 3:59:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Chard lib

Number of peaks found: 14 Corr. Area 1: 16,521.8
 Noise: 0.3

Peak table for sample 2 : Chard lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	48.28	1,657.1	
3	234	9.84	63.6	
4	238	12.38	78.7	
5	460	7,934.69	26,139.2	
6	532	979.25	2,789.5	
7	563	2,277.88	6,132.8	
8	760	1,840.46	3,669.1	
9	1,938	4.29	3.4	
10	2,155	2.98	2.1	
11	2,957	2.97	1.5	
12	3,569	4.62	2.0	
13	4,538	3.44	1.1	
14	8,013	4.39	0.8	
15	10,380	75.00	10.9	Upper Marker
16	12,653	0.00	0.0	

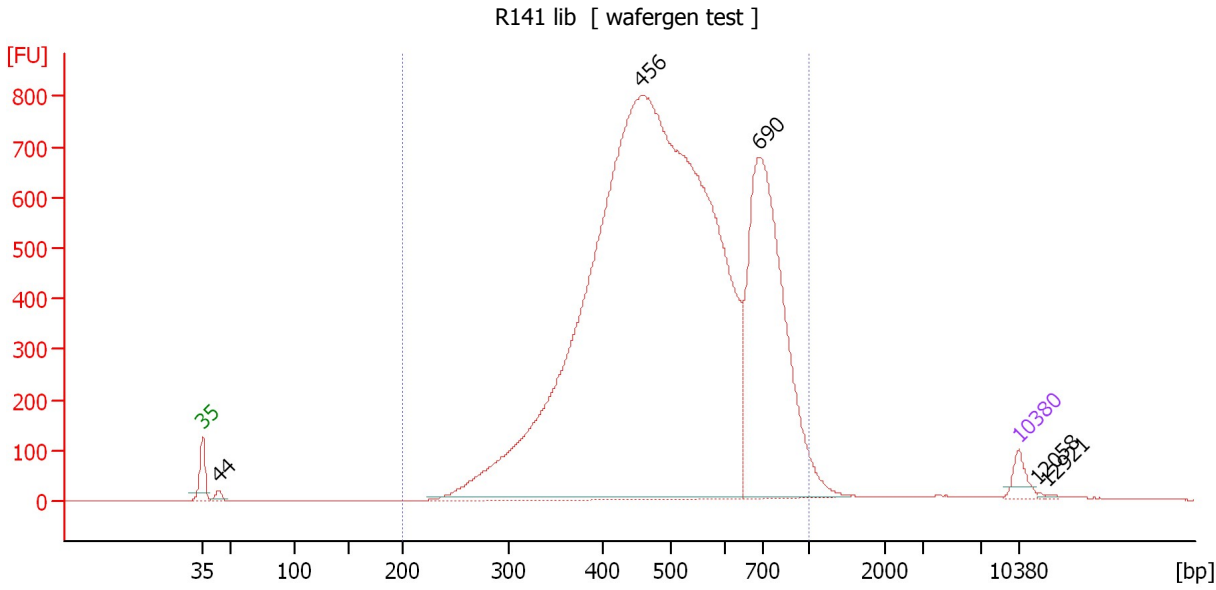
Region table for sample 2 : Chard lib

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	530	1,000	16,521.8	98	28.3	13,220.61	41,969.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad

Created: 9/19/2014 3:18:15 PM
 Modified: 9/19/2014 3:59:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : R141 lib

Number of peaks found: 5 Corr. Area 1: 15,725.1
 Noise: 0.2

Peak table for sample 3 : R141 lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	50.78	1,762.3	
3	456	12,089.35	40,154.9	
4	690	2,522.76	5,539.9	
5	10,380	75.00	10.9	Upper Marker
6	12,058	0.00	0.0	
7	12,921	0.00	0.0	

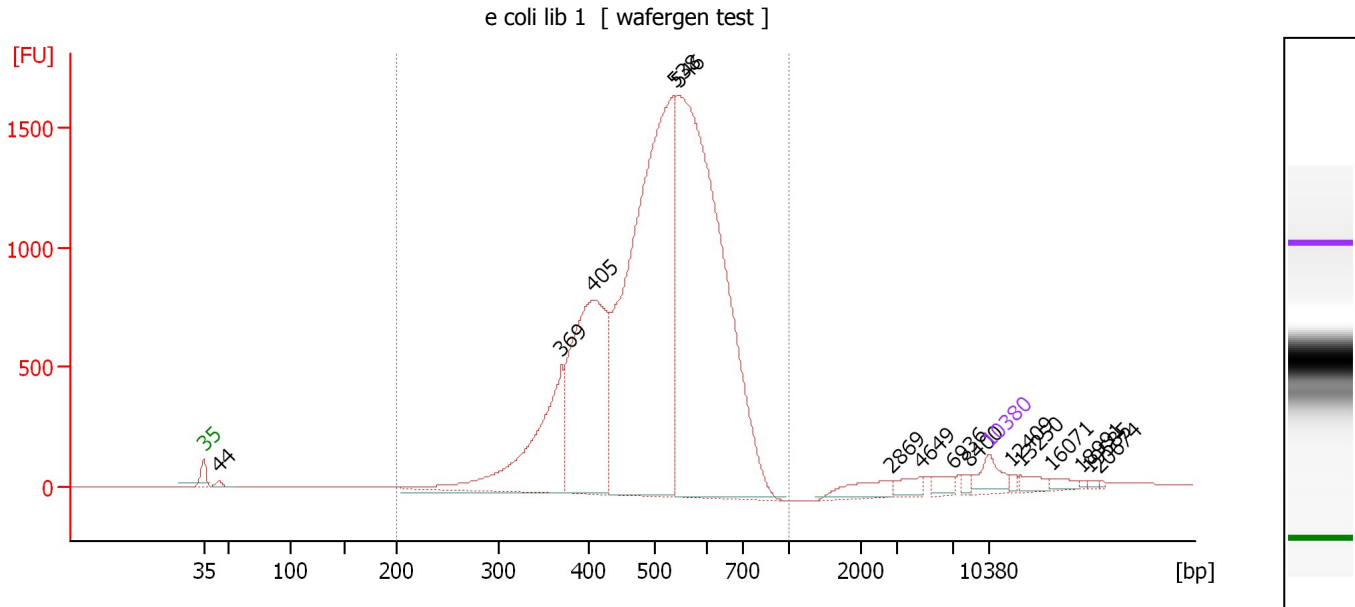
Region table for sample 3 : R141 lib

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	522	1,000	15,725.1	98	27.3	14,532.16	46,519.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad

Created: 9/19/2014 3:18:15 PM
 Modified: 9/19/2014 3:59:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : e coli lib 1

Number of peaks found: 15 Corr. Area 1: 22,995.2
 Noise: 0.3

Peak table for sample 4 : e coli lib 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	23.08	790.4	
3	369	793.58	3,257.6	
4	405	1,282.14	4,796.5	
5	538	2,801.71	7,893.5	
6	546	3,137.89	8,710.1	
7	2,869	89.46	47.2	
8	4,649	46.84	15.3	
9	6,936	38.72	8.5	
10	8,400	16.20	2.9	
11	10,380	75.00	10.9	Upper Marker
12	12,409	0.00	0.0	
13	13,250	0.00	0.0	
14	16,071	0.00	0.0	
15	18,991	0.00	0.0	
16	19,585	0.00	0.0	
17	20,674	0.00	0.0	

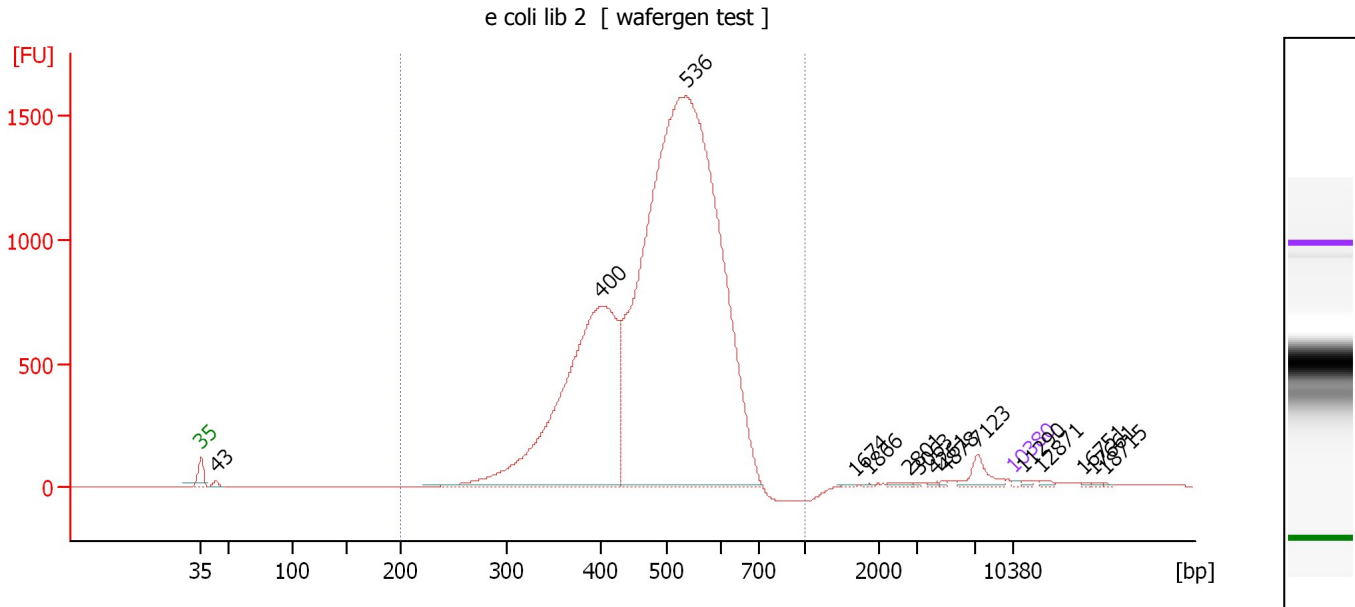
Region table for sample 4 : e coli lib 1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	514	1,000	22,995.2	98	18.9	7,636.61	23,773.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad

Created: 9/19/2014 3:18:15 PM
 Modified: 9/19/2014 3:59:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : e coli lib 2

Number of peaks found: 15 Corr. Area 1: 20,607.9
 Noise: 0.3

Peak table for sample 5 : e coli lib 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	421.09	14,817.7	
3	400	34,438.01	130,438.6	
4	536	86,426.13	244,530.4	
5	1,674	44.34	40.1	
6	1,866	49.07	39.8	
7	2,801	125.38	67.8	
8	3,063	39.28	19.4	
9	4,261	65.29	23.2	
10	4,878	63.71	19.8	
11	7,123	920.79	195.9	
12	10,380	75.00	10.9	Upper Marker
13	11,290	0.00	0.0	
14	12,871	0.00	0.0	
15	16,751	0.00	0.0	
16	17,661	0.00	0.0	
17	18,715	0.00	0.0	

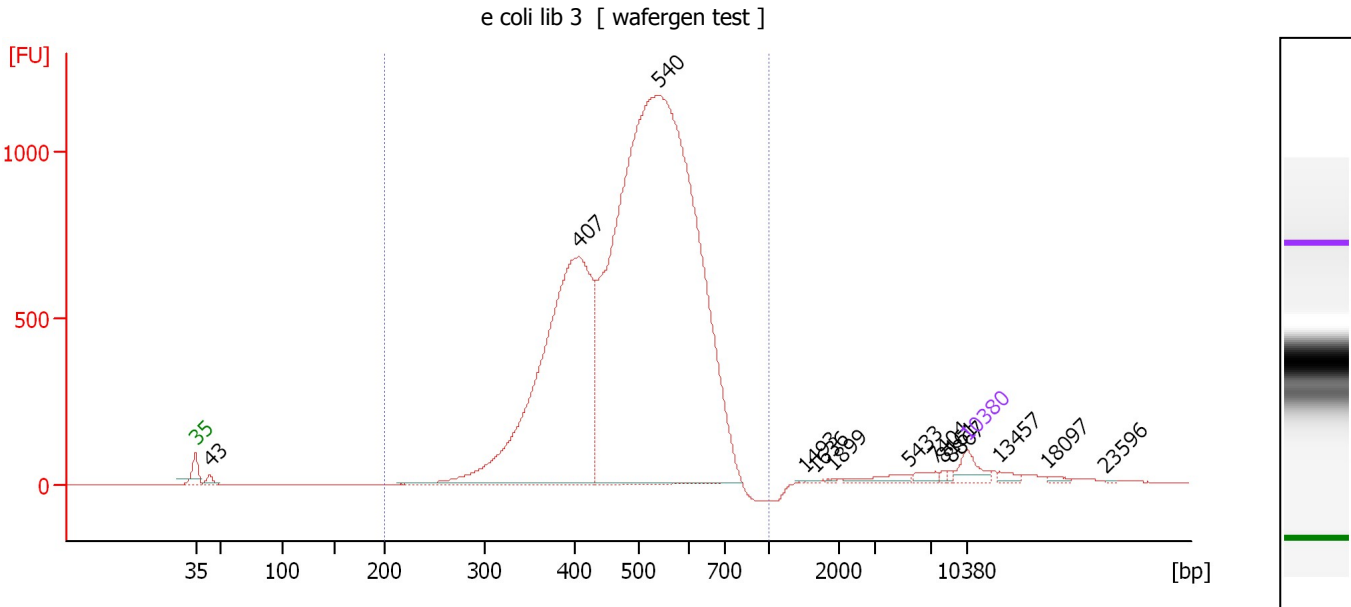
Region table for sample 5 : e coli lib 2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	493	1,000	20,607.9	98	17.4	123,251.50	397,753.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad

Created: 9/19/2014 3:18:15 PM
 Modified: 9/19/2014 3:59:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : e coli lib 3

Number of peaks found: 13 Corr. Area 1: 17,237.8
 Noise: 0.2

Peak table for sample 6 : e coli lib 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	38.36	1,336.5	
3	407	2,977.89	11,097.3	
4	540	6,878.79	19,315.4	
5	1,493	2.57	2.6	
6	1,636	5.84	5.4	
7	1,899	4.45	3.5	
8	5,433	49.37	13.8	
9	7,404	30.34	6.2	
10	8,161	9.41	1.7	
11	8,867	8.78	1.5	
12	10,380	75.00	10.9	Upper Marker
13	13,457	0.00	0.0	
14	18,097	0.00	0.0	
15	23,596	0.00	0.0	

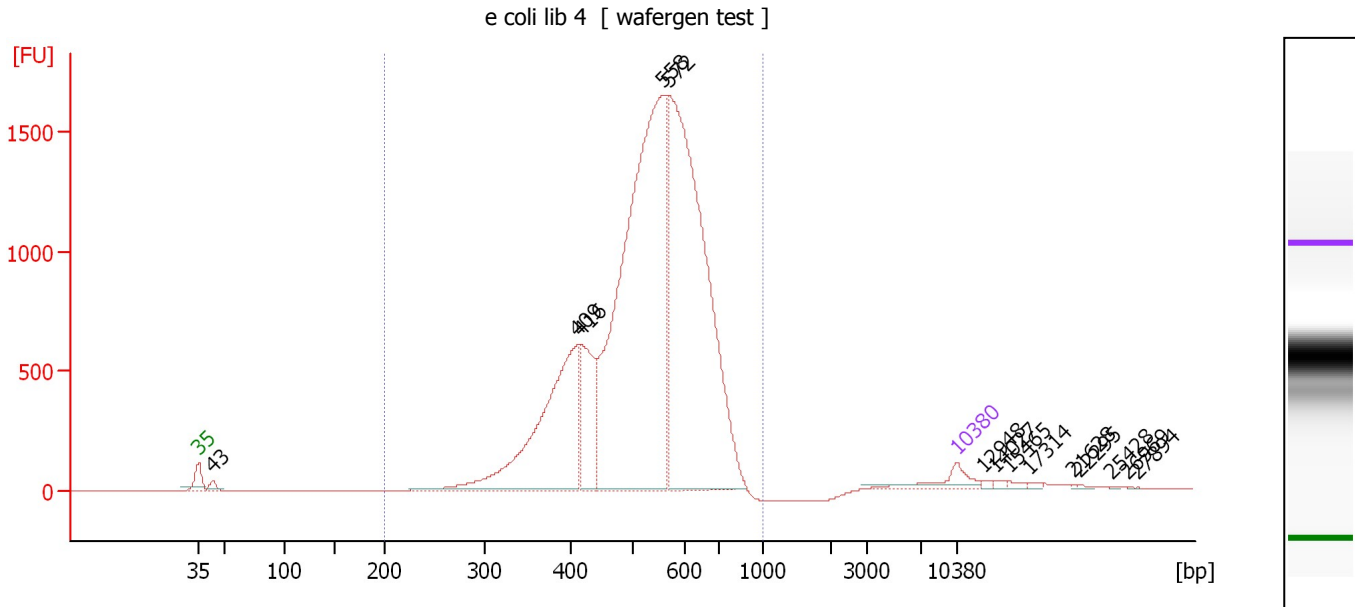
Region table for sample 6 : e coli lib 3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	500	1,000	17,237.8	97	18.9	10,029.53	32,081.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad

Created: 9/19/2014 3:18:15 PM
 Modified: 9/19/2014 3:59:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : e coli lib 4

Number of peaks found: 14 Corr. Area 1: 20,898.0
 Noise: 0.3

Peak table for sample 7 : e coli lib 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	35.21	1,240.6	
3	409	1,100.79	4,077.3	
4	416	366.22	1,334.2	
5	558	2,794.23	7,587.3	
6	572	2,339.06	6,200.2	
7	10,380	75.00	10.9	Upper Marker
8	12,948	0.00	0.0	
9	14,027	0.00	0.0	
10	15,465	0.00	0.0	
11	17,314	0.00	0.0	
12	21,628	0.00	0.0	
13	22,295	0.00	0.0	
14	25,428	0.00	0.0	
15	26,969	0.00	0.0	
16	27,894	0.00	0.0	

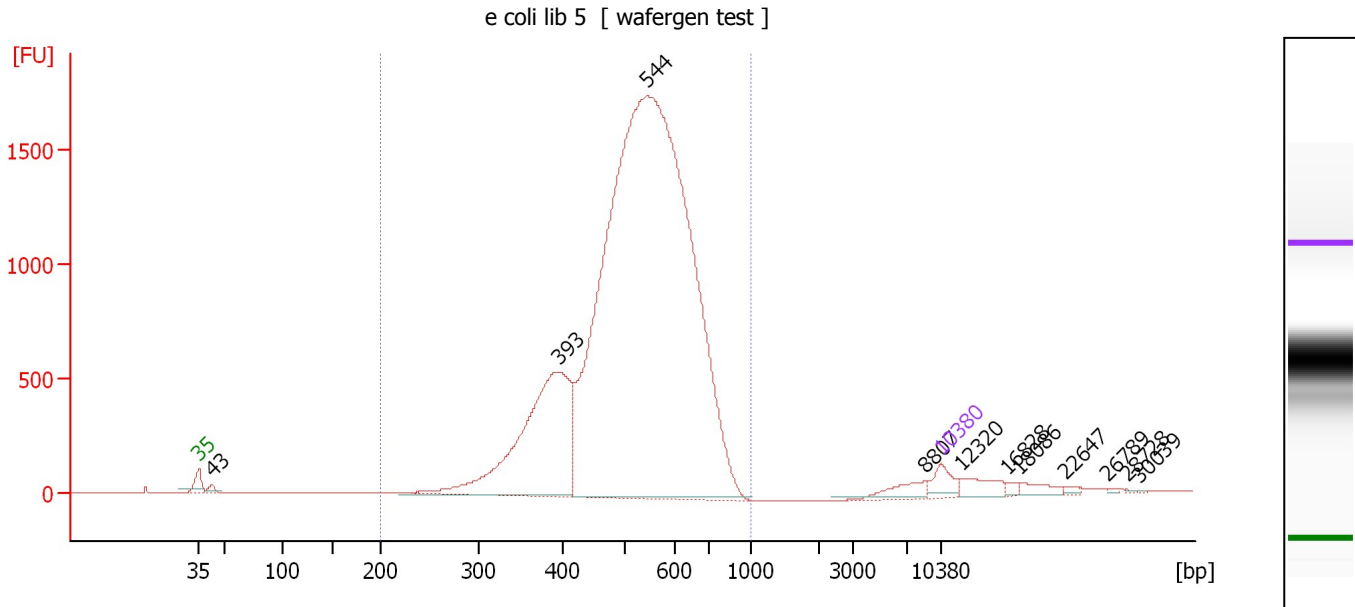
Region table for sample 7 : e coli lib 4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	533	1,000	20,898.0	98	18.8	6,804.37	20,434.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad

Created: 9/19/2014 3:18:15 PM
 Modified: 9/19/2014 3:59:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : e coli lib 5

Number of peaks found: 11 Corr. Area 1: 22,802.6
 Noise: 0.2

Peak table for sample 8 : e coli lib 5

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	31.20	1,112.0	
3	393	1,472.38	5,674.9	
4	544	7,034.54	19,598.2	
5	8,807	72.58	12.5	
6	10,380	75.00	10.9	Upper Marker
7	12,320	0.00	0.0	
8	16,828	0.00	0.0	
9	18,086	0.00	0.0	
10	22,647	0.00	0.0	
11	26,789	0.00	0.0	
12	28,728	0.00	0.0	
13	30,039	0.00	0.0	

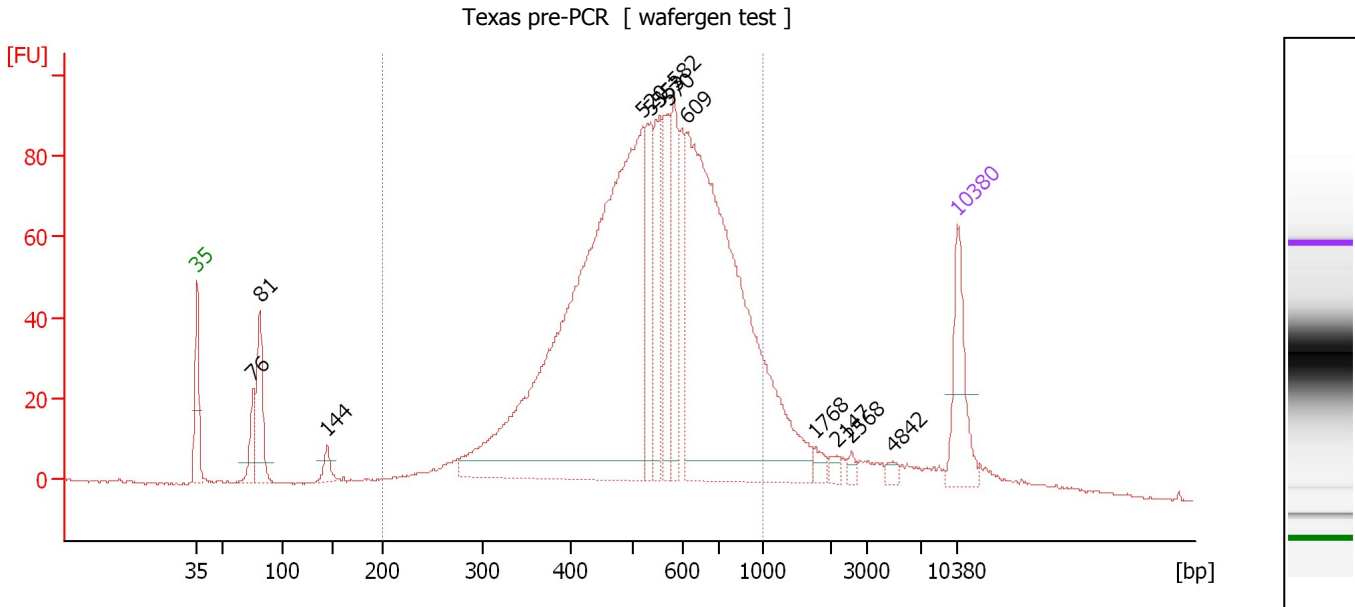
Region table for sample 8 : e coli lib 5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	529	1,000	22,802.6	98	19.1	8,317.10	25,155.4	Blue

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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad

Created: 9/19/2014 3:18:15 PM
 Modified: 9/19/2014 3:59:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Texas pre-PCR

Number of peaks found: 13 Corr. Area 1: 1,807.1
 Noise: 0.3

Peak table for sample 9 : Texas pre-PCR

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	76	55.65	1,111.1	
3	81	121.24	2,261.7	
4	144	23.03	241.5	
5	520	1,148.10	3,344.8	
6	535	110.45	313.0	
7	553	101.73	278.9	
8	570	107.78	286.3	
9	582	106.79	278.0	
10	609	803.22	1,998.6	
11	1,768	11.66	10.0	
12	2,147	8.22	5.8	
13	2,568	6.37	3.8	
14	4,842	7.39	2.3	
15	10,380	75.00	10.9	Upper Marker

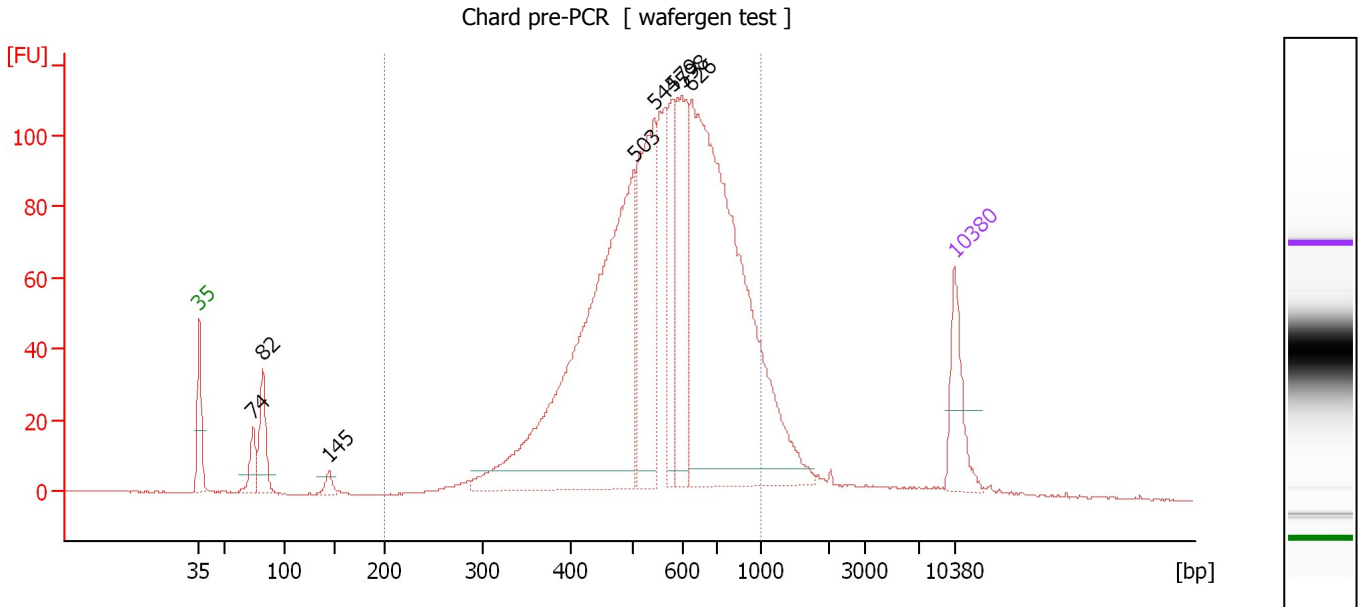
Region table for sample 9 : Texas pre-PCR

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	549	1,000	1,807.1	84	28.0	2,668.44	8,263.8	Blue

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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad

Created: 9/19/2014 3:18:15 PM
 Modified: 9/19/2014 3:59:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Chard pre-PCR

Number of peaks found: 8 Corr. Area 1: 1,873.7
 Noise: 0.2

Peak table for sample 10 : Chard pre-PCR

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	74	54.77	1,115.4	
3	82	109.73	2,016.5	
4	145	19.46	203.7	
5	503	936.12	2,817.1	
6	544	324.69	905.0	
7	579	131.57	344.0	
8	598	223.83	566.7	
9	626	983.23	2,380.9	
10	10,380	75.00	10.9	Upper Marker

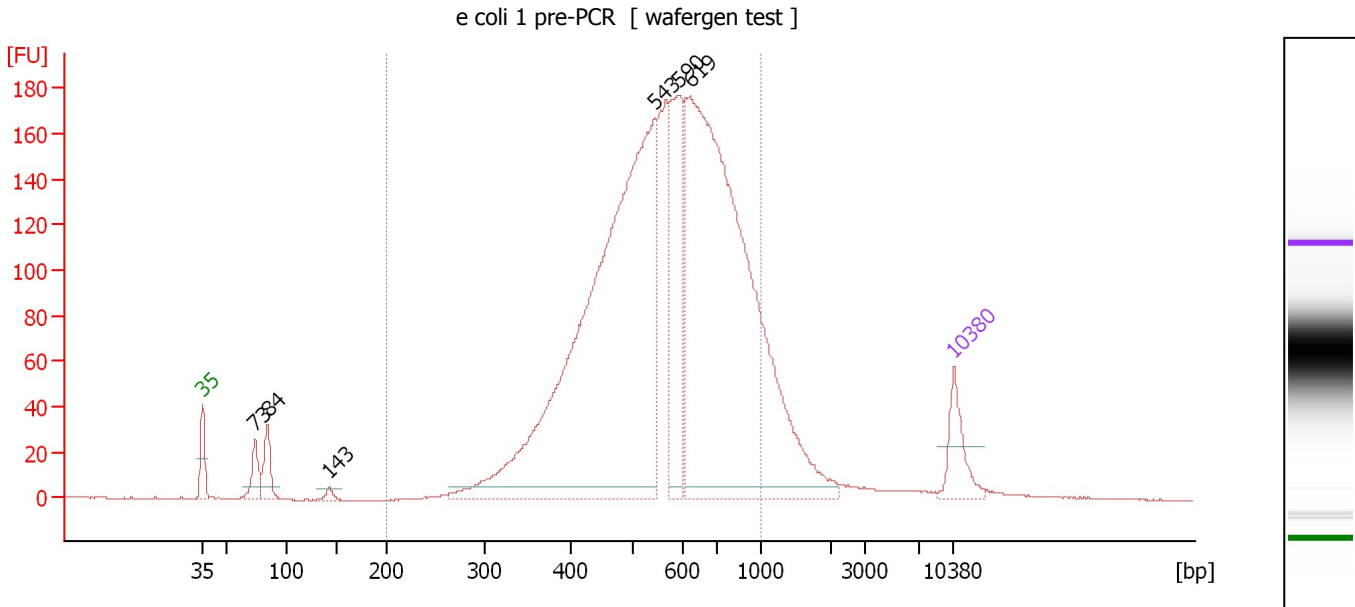
Region table for sample 10 : Chard pre-PCR

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	580	1,000	1,873.7	89	25.6	2,807.24	8,024.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad

Created: 9/19/2014 3:18:15 PM
 Modified: 9/19/2014 3:59:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : e coli 1 pre-PCR

Number of peaks found: 6 Corr. Area 1: 3,070.7
 Noise: 0.2

Peak table for sample 11 : e coli 1 pre-PCR

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	73	77.69	1,606.5	
3	84	92.16	1,661.1	
4	143	15.87	168.5	
5	543	1,867.35	5,212.9	
6	590	340.62	874.0	
7	619	1,758.27	4,305.3	
8	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : e coli 1 pre-PCR

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	582	1,000	3,070.7	89	26.0	4,137.82	11,793.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad

Created: 9/19/2014 3:18:15 PM
Modified: 9/19/2014 3:59:39 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad

Created: 9/19/2014 3:18:15 PM
 Modified: 9/19/2014 3:59:39 PM

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		9/19/2014 3:59:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-19\2014-09-19_003.xad)		Instrument	Run		9/19/2014 3:18:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/19/2014 3:18:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/19/2014 3:18:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/19/2014 3:18:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/19/2014 3:18:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/19/2014 3:18:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/19/2014 3:18:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1