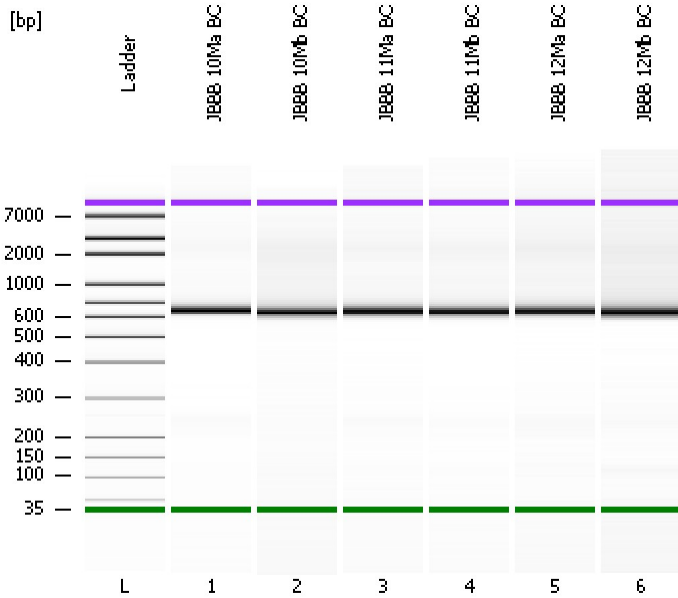


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...yzer\2100 expert\data\2016-04-20\2016-04-20_001_JBBB_BC.xad

Created: 4/20/2016 7:19:49 AM
Modified: 4/20/2016 8:03:25 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

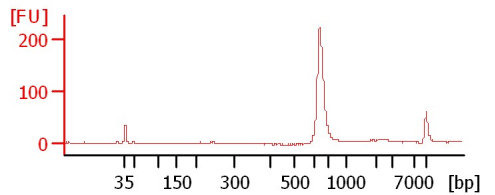
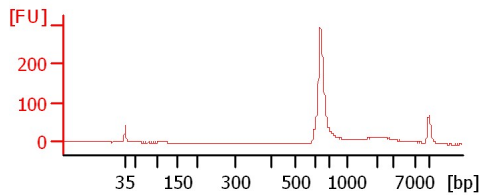
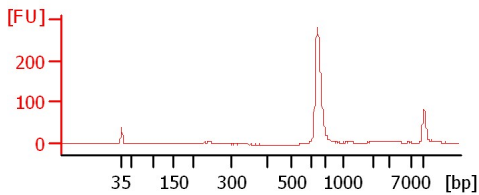
Chip Information:

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

JBBB 10Ma BC

JBBB 10Mb BC

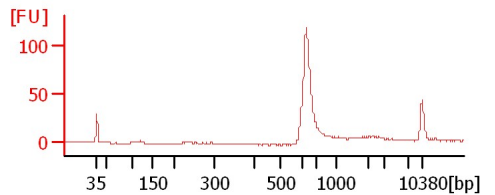
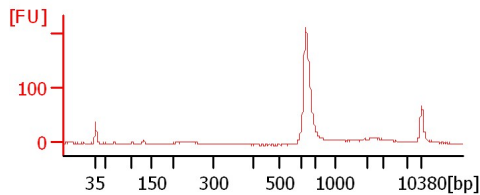
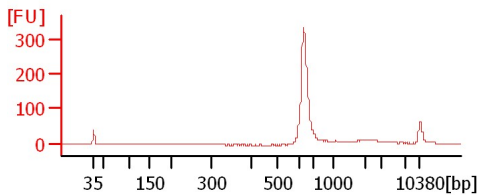
JBBB 11Ma BC



JBBB 11Mb BC

JBBB 12Ma BC

JBBB 12Mb BC



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...yzer\2100 expert\data\2016-04-20\2016-04-20_001_JBBB_BC.xad

Created: 4/20/2016 7:19:49 AM
 Modified: 4/20/2016 8:03:25 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JBBB 10Ma BC		<input type="checkbox"/>	✓			
JBBB 10Mb BC		<input type="checkbox"/>	✓			
JBBB 11Ma BC		<input type="checkbox"/>	✓			
JBBB 11Mb BC		<input type="checkbox"/>	✓			
JBBB 12Ma BC		<input type="checkbox"/>	✓			
JBBB 12Mb BC		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...yzer\2100 expert\data\2016-04-20\2016-04-20_001_JBBB_BC.xad

Created: 4/20/2016 7:19:49 AM
Modified: 4/20/2016 8:03:25 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

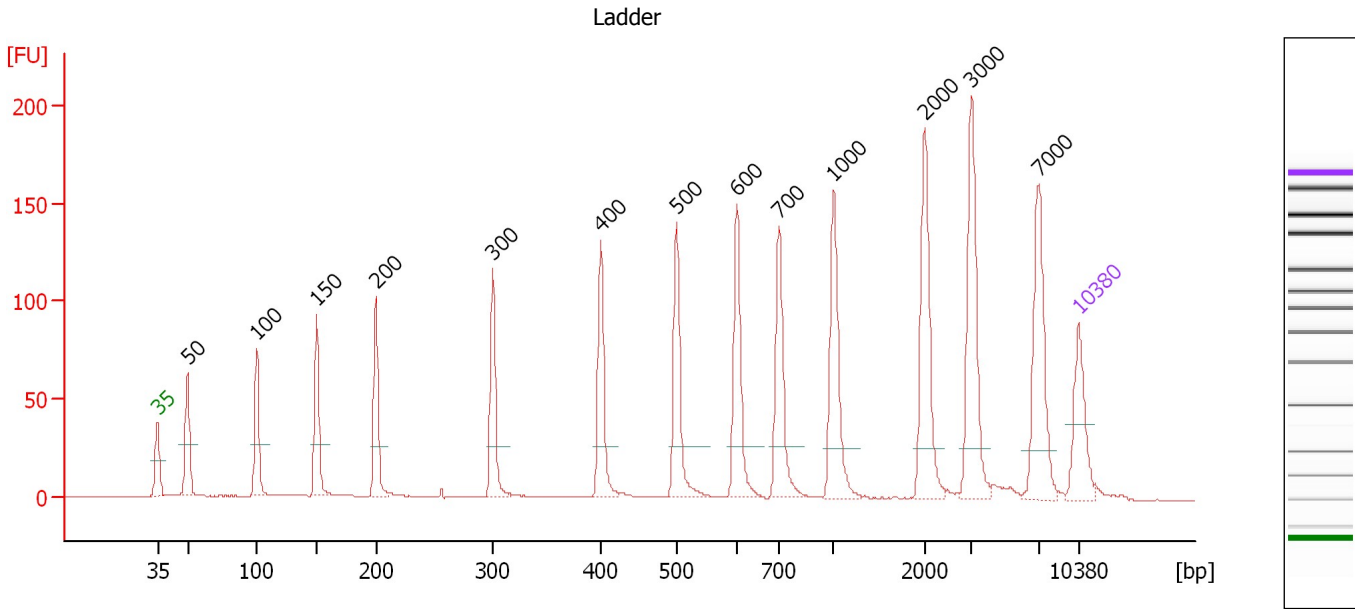
Ladder

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:\...yzer\2100 expert\data\2016-04-20\2016-04-20_001_JBBB_BC.xad

Created: 4/20/2016 7:19:49 AM
 Modified: 4/20/2016 8:03:25 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

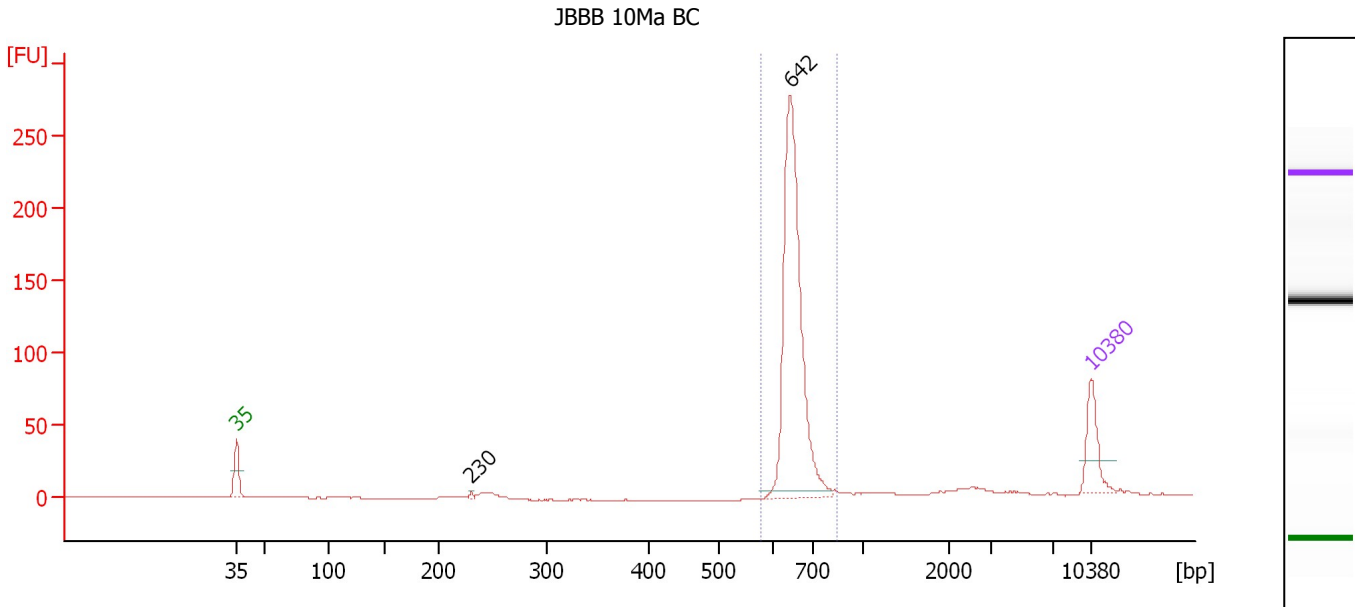
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.27
3	100	150.00	2,272.7	Ladder Peak	50.56
4	150	150.00	1,515.2	Ladder Peak	55.11
5	200	150.00	1,136.4	Ladder Peak	59.57
6	300	150.00	757.6	Ladder Peak	68.49
7	400	150.00	568.2	Ladder Peak	76.71
8	500	150.00	454.5	Ladder Peak	82.44
9	600	150.00	378.8	Ladder Peak	87.03
10	700	150.00	324.7	Ladder Peak	90.22
11	1,000	150.00	227.3	Ladder Peak	94.37
12	2,000	150.00	113.6	Ladder Peak	101.33
13	3,000	150.00	75.8	Ladder Peak	104.82
14	7,000	150.00	32.5	Ladder Peak	109.98
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...yzer\2100 expert\data\2016-04-20\2016-04-20_001_JBBB_BC.xad

Created: 4/20/2016 7:19:49 AM
 Modified: 4/20/2016 8:03:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : JBBB 10Ma BC

Number of peaks found: 2 Corr. Area 1: 502.4
 Noise: 0.2

Peak table for sample 1 : JBBB 10Ma BC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	230	4.94	32.6		62.23
3	642	695.70	1,643.0		88.36
4	10,380	75.00	10.9	Upper Marker	113.00

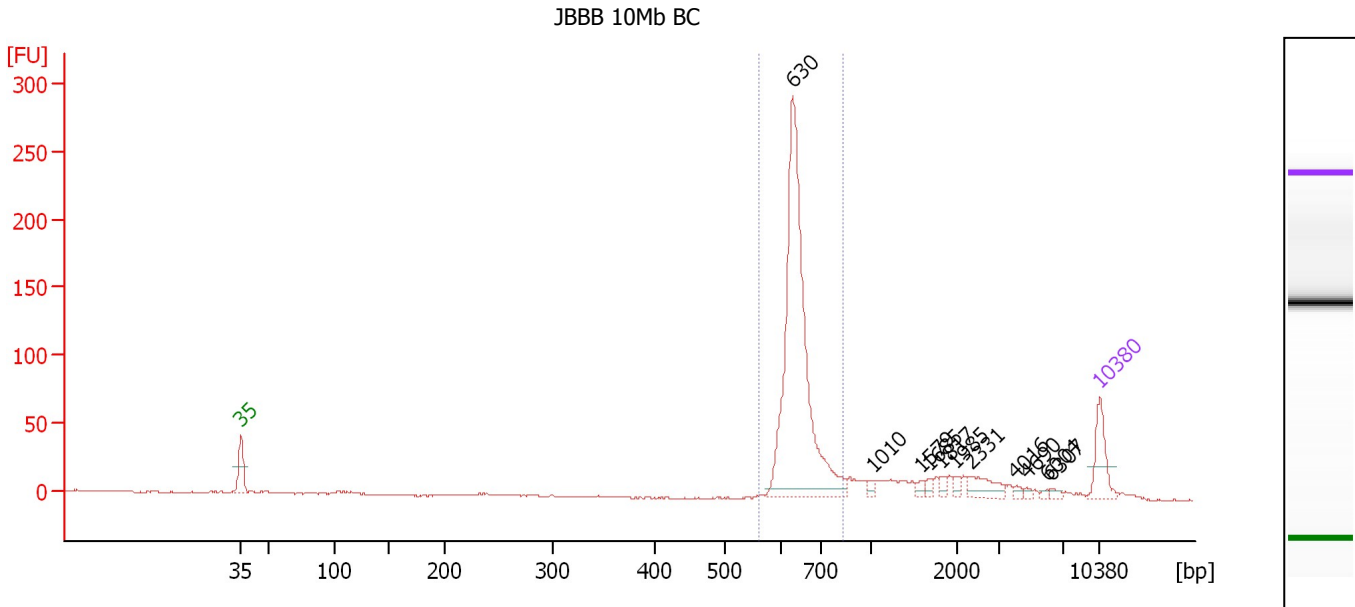
Region table for sample 1 : JBBB 10Ma BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
577	847	653	502.4	1,583.0	681.17	93	4.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...yzer\2100 expert\data\2016-04-20\2016-04-20_001_JBBB_BC.xad

Created: 4/20/2016 7:19:49 AM
 Modified: 4/20/2016 8:03:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : JBBB 10Mb BC

Number of peaks found: 11 Corr. Area 1: 592.8
 Noise: 0.6

Peak table for sample 2 : JBBB 10Mb BC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	630	931.91	2,242.8		87.97
3	1,010	10.98	16.5		94.45
4	1,579	11.81	11.3		98.40
5	1,685	10.71	9.6		99.14
6	1,817	11.82	9.9		100.05
7	1,985	11.76	9.0		101.22
8	2,331	49.57	32.2		102.48
9	4,016	7.70	2.9		106.13
10	4,690	5.78	1.9		107.00
11	6,004	4.94	1.2		108.70
12	6,307	7.97	1.9		109.09
13	10,380	75.00	10.9	Upper Marker	113.00

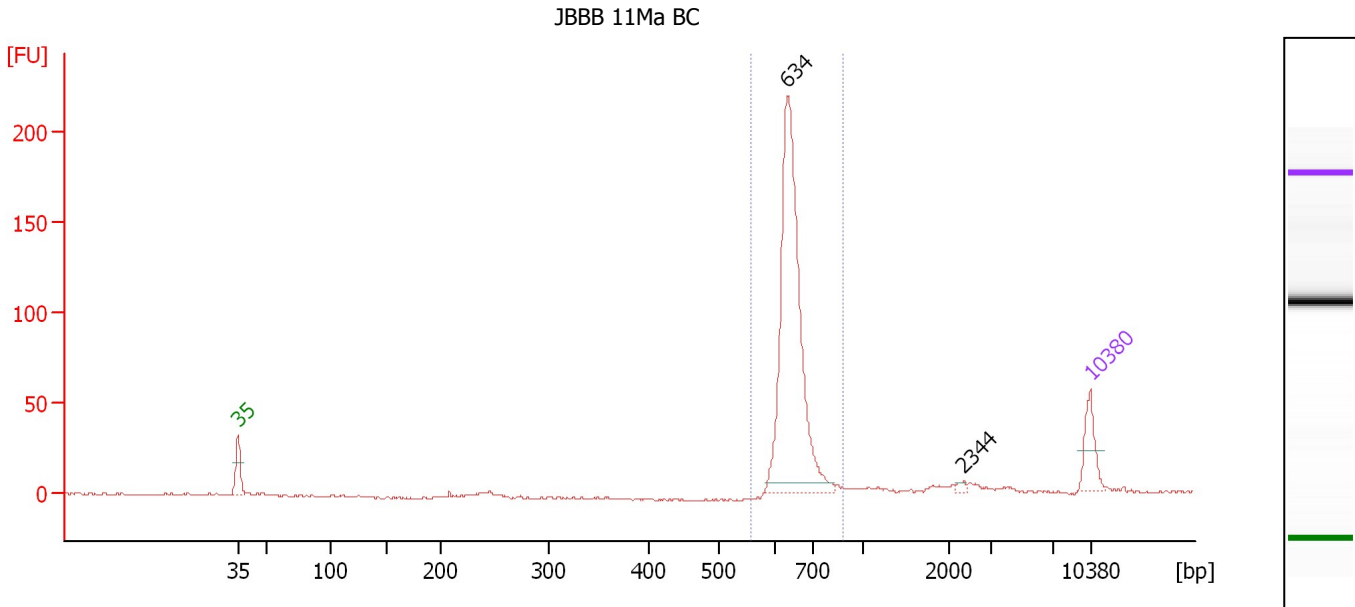
Region table for sample 2 : JBBB 10Mb BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
561	828	645	592.8	2,171.7	921.72	72	6.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...yzer\2100 expert\data\2016-04-20\2016-04-20_001_JBBB_BC.xad

Created: 4/20/2016 7:19:49 AM
 Modified: 4/20/2016 8:03:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : JBBB 11Ma BC

Number of peaks found: 2 Corr. Area 1: 445.0
 Noise: 0.6

Peak table for sample 3 : JBBB 11Ma BC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	634	918.29	2,194.0		88.12
3	2,344	8.56	5.5		102.53
4	10,380	75.00	10.9	Upper Marker	113.00

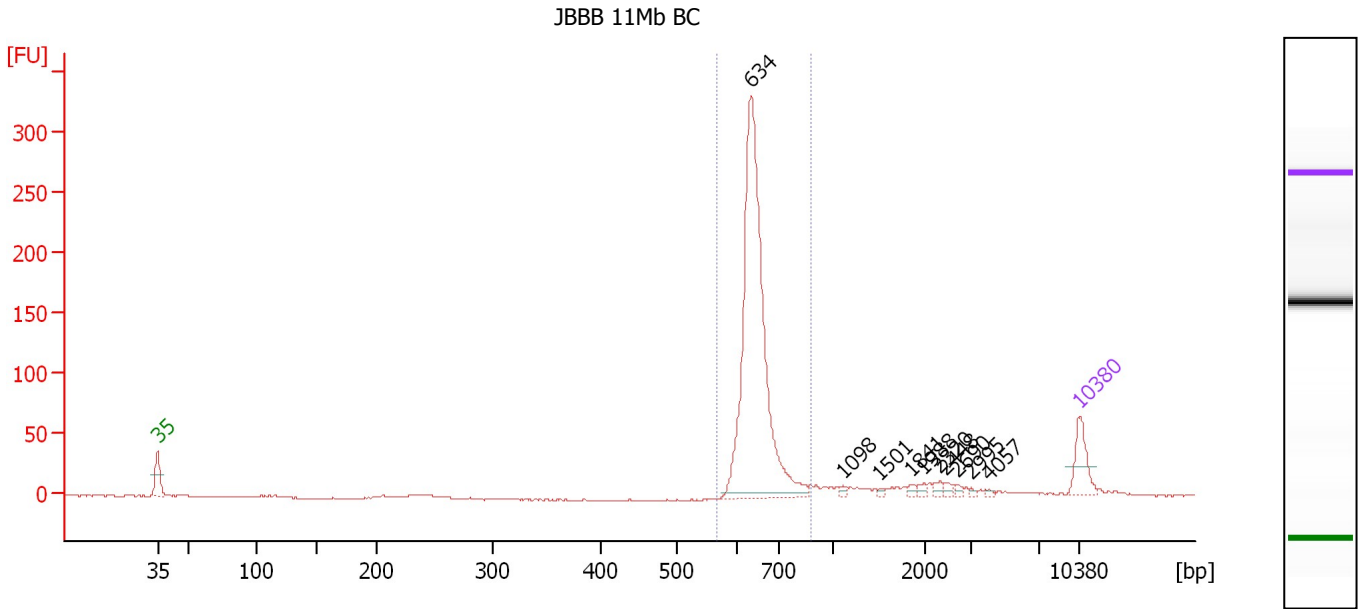
Region table for sample 3 : JBBB 11Ma BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
559	882	648	445.0	2,141.6	914.28	94	5.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...yzer\2100 expert\data\2016-04-20\2016-04-20_001_JBBB_BC.xad

Created: 4/20/2016 7:19:49 AM
 Modified: 4/20/2016 8:03:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : JBBB 11Mb BC

Number of peaks found: 10 Corr. Area 1: 649.3
 Noise: 0.6

Peak table for sample 4 : JBBB 11Mb BC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	634	1,111.29	2,656.5		88.11
3	1,098	8.65	11.9		95.05
4	1,501	5.94	6.0		97.86
5	1,841	8.79	7.2		100.22
6	1,988	9.58	7.3		101.24
7	2,320	12.40	8.1		102.45
8	2,448	11.35	7.0		102.89
9	2,690	7.77	4.4		103.74
10	2,995	4.65	2.4		104.81
11	4,057	3.94	1.5		106.19
12	10,380	75.00	10.9	Upper Marker	113.00

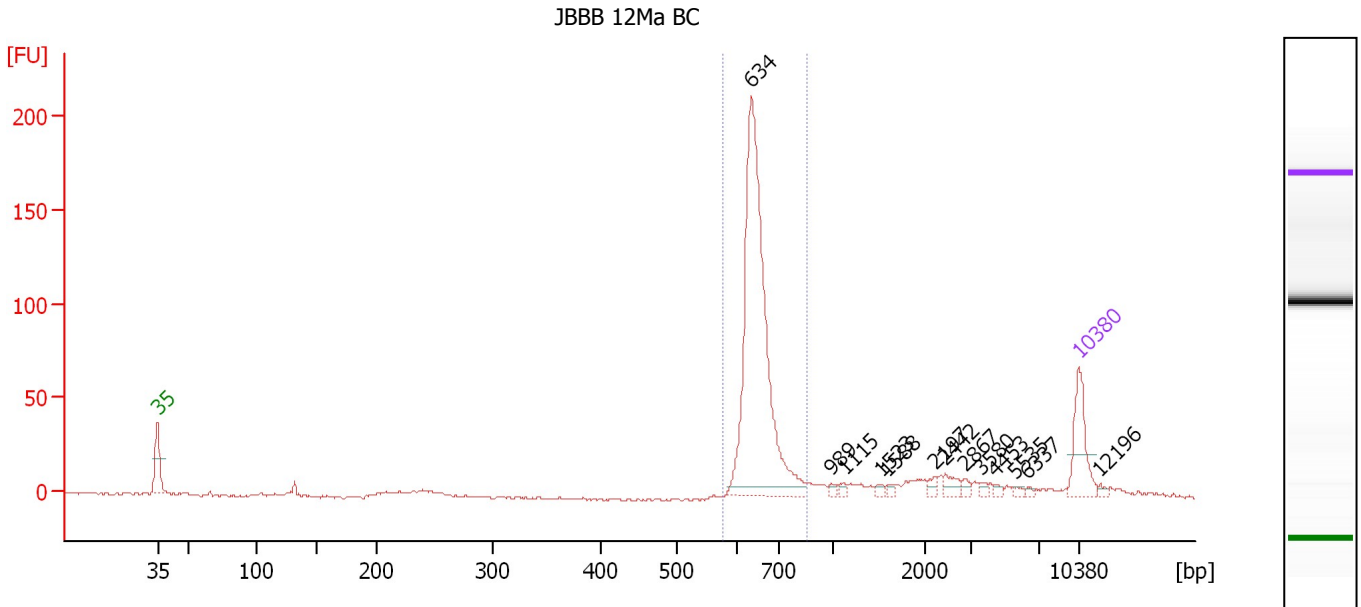
Region table for sample 4 : JBBB 11Mb BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
567	875	647	649.3	2,544.6	1,084.35	84	6.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...yzer\2100 expert\data\2016-04-20\2016-04-20_001_JBBB_BC.xad

Created: 4/20/2016 7:19:49 AM
 Modified: 4/20/2016 8:03:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : JBBB 12Ma BC

Number of peaks found: 13 Corr. Area 1: 427.9
 Noise: 0.6

Peak table for sample 5 : JBBB 12Ma BC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	634	668.43	1,598.0		88.11
3	989	6.21	9.5		94.23
4	1,115	6.08	8.3		95.17
5	1,523	6.51	6.5		98.01
6	1,588	5.42	5.2		98.46
7	2,197	9.06	6.2		102.02
8	2,442	17.22	10.7		102.87
9	2,867	7.47	4.0		104.36
10	3,580	7.50	3.2		105.57
11	4,453	5.39	1.8		106.70
12	5,535	4.83	1.3		108.09
13	6,337	3.90	0.9		109.13
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,196	0.00	0.0		114.62

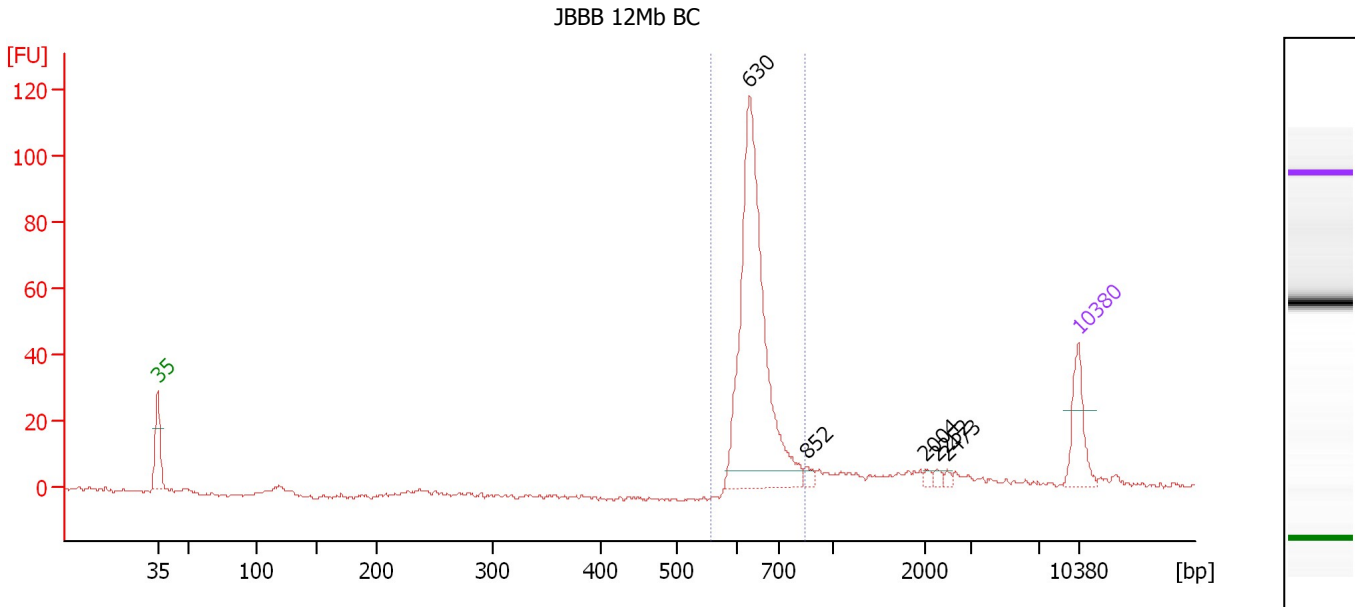
Region table for sample 5 : JBBB 12Ma BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
578	853	652	427.9	1,557.2	668.64	73	5.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...yzer\2100 expert\data\2016-04-20\2016-04-20_001_JBBB_BC.xad

Created: 4/20/2016 7:19:49 AM
 Modified: 4/20/2016 8:03:25 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : JBBB 12Mb BC

Number of peaks found: 5 Corr. Area 1: 267.9
 Noise: 0.5

Peak table for sample 6 : JBBB 12Mb BC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	630	705.11	1,694.9		88.00
3	852	13.87	24.7		92.32
4	2,004	7.32	5.5		101.34
5	2,252	7.57	5.1		102.21
6	2,473	5.49	3.4		102.98
7	10,380	75.00	10.9	Upper Marker	113.00

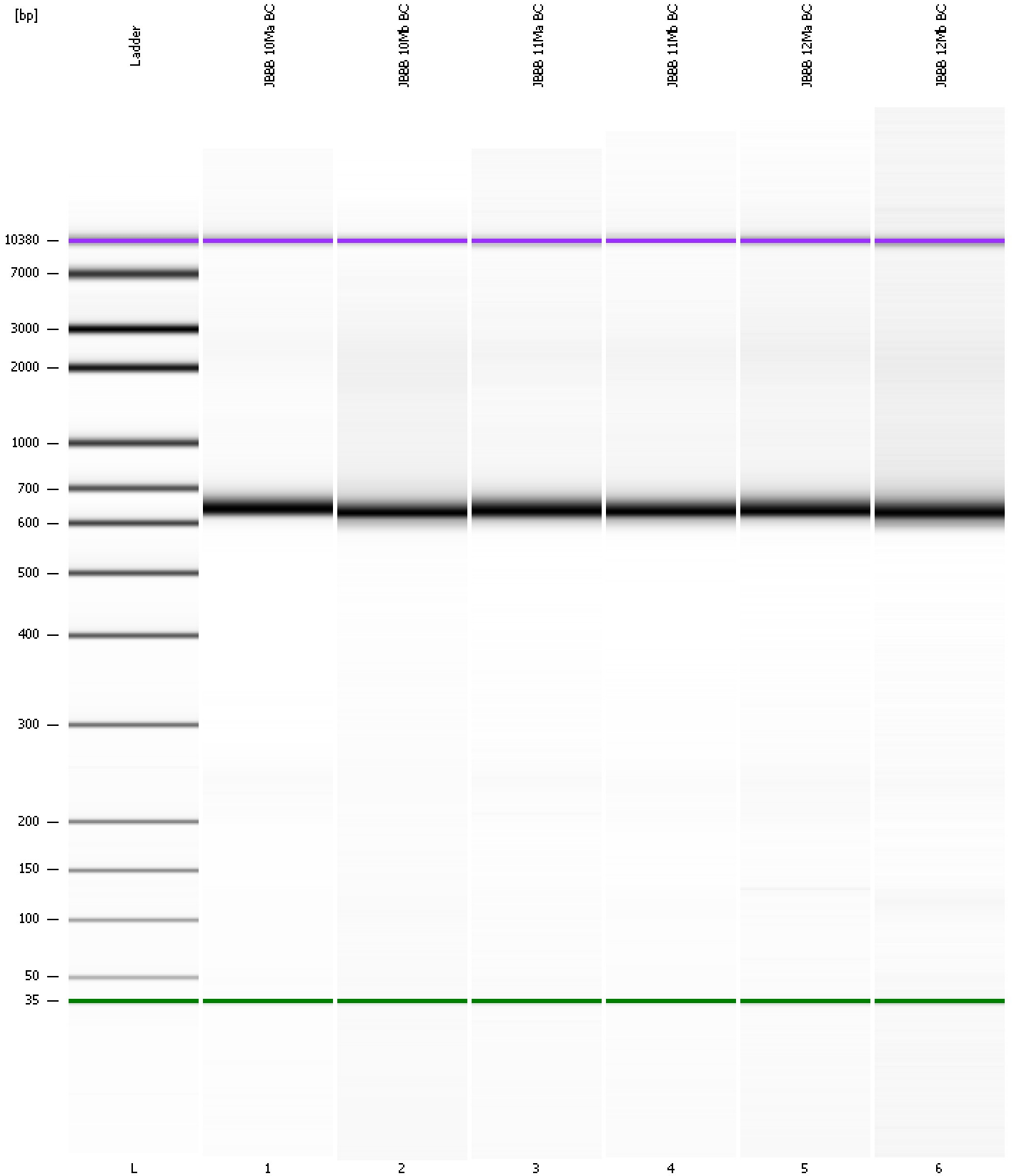
Region table for sample 6 : JBBB 12Mb BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
557	848	647	267.9	1,647.2	700.83	80	6.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...yzer\2100 expert\data\2016-04-20\2016-04-20_001_JBBB_BC.xad

Created: 4/20/2016 7:19:49 AM
Modified: 4/20/2016 8:03:25 AM

Gel Image

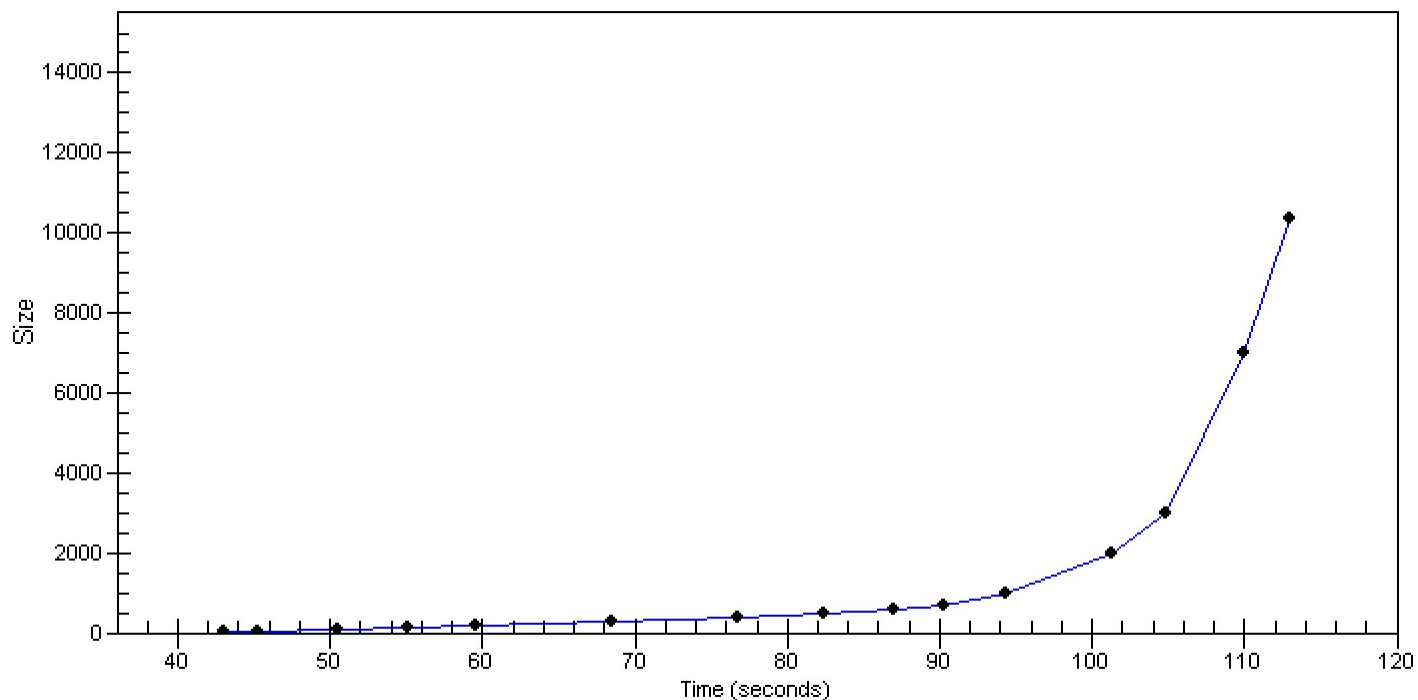


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...yzer\2100 expert\data\2016-04-20\2016-04-20_001_JBBB_BC.xad

Created: 4/20/2016 7:19:49 AM
Modified: 4/20/2016 8:03:25 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...yzer\2100 expert\data\2016-04-20\2016-04-20_001_JBBB_BC.xad

Created: 4/20/2016 7:19:49 AM
 Modified: 4/20/2016 8:03:25 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		4/20/2016 8:01:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-04-20\2016-04-20_001.xad)		Instrument	Run		4/20/2016 7:19:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/20/2016 7:19:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/20/2016 7:19:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/20/2016 7:19:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/20/2016 7:19:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/20/2016 7:19:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/20/2016 7:19:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1