

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_005.xad

Created: 5/16/2016 3:52:54 PM
Modified: 5/16/2016 4:25:39 PM

Electrophoresis File Run Summary

Instrument Information:

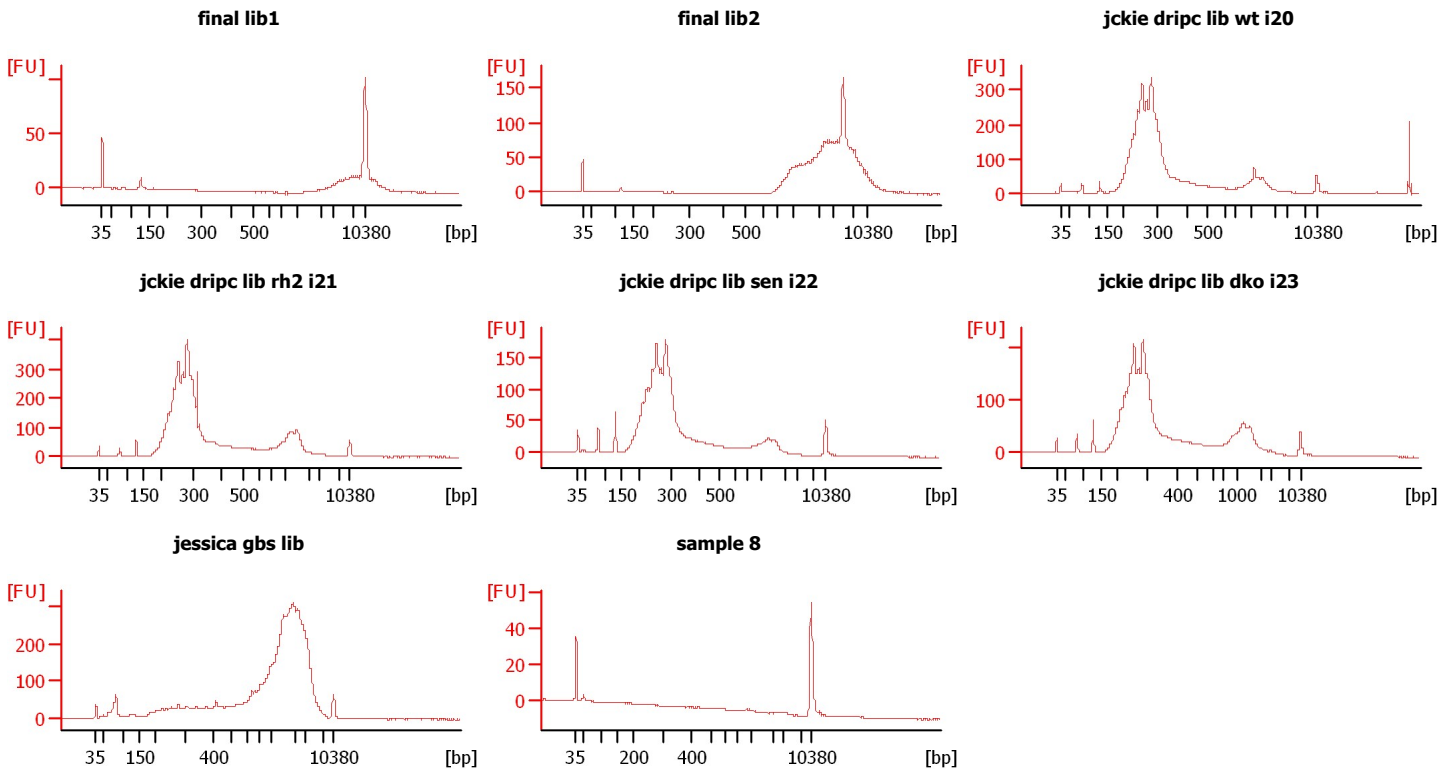
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-16\2016-05-16_005.xad

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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
final lib1		<input type="checkbox"/>	✓			
final lib2		<input type="checkbox"/>	✓			
jckie dripc lib wt i20		<input type="checkbox"/>	✓			
jckie dripc lib rh2 i21		<input type="checkbox"/>	✓			
jckie dripc lib sen i22		<input type="checkbox"/>	✓			
jckie dripc lib dko i23		<input type="checkbox"/>	✓			
jessica gbs lib		<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

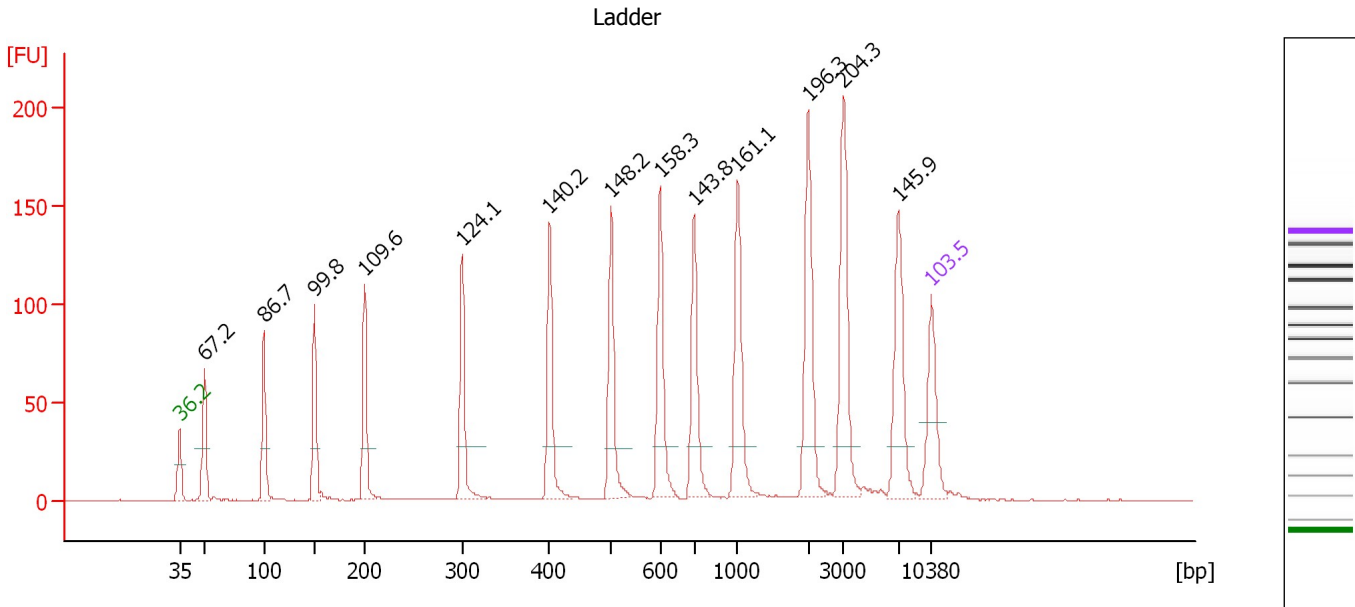
Ladder

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: 0.2

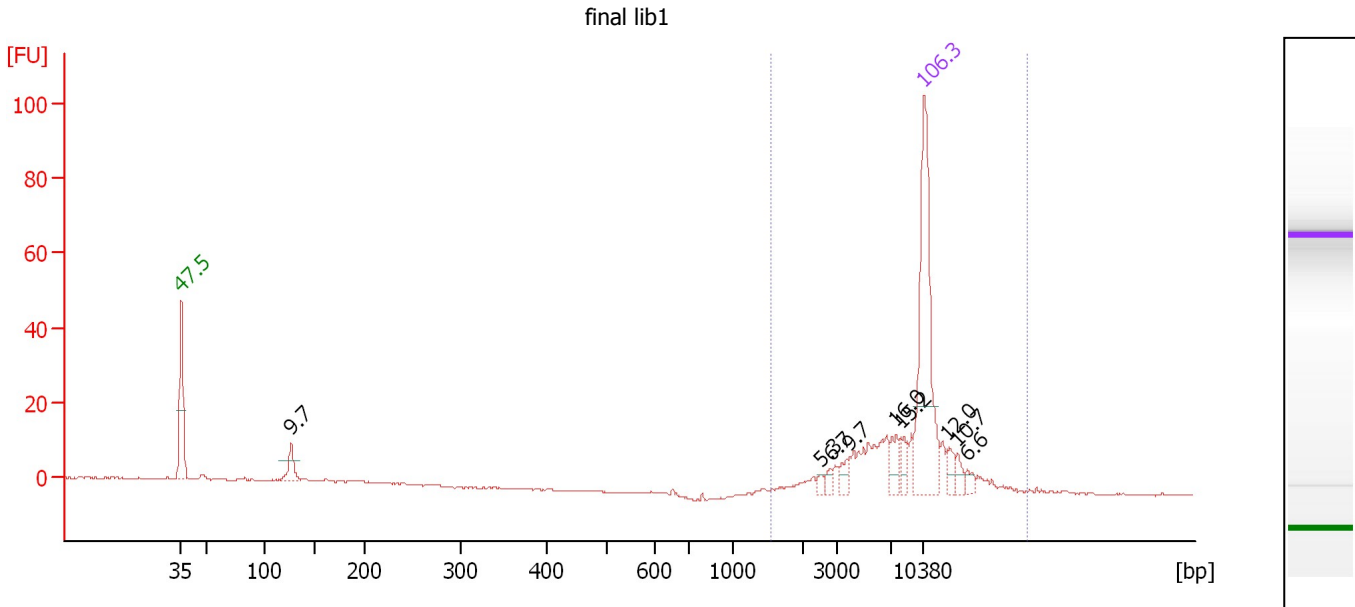
Peak table for Ladder

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.84
4	150	150.00	1,515.2	Ladder Peak	55.56
5	200	150.00	1,136.4	Ladder Peak	60.23
6	300	150.00	757.6	Ladder Peak	69.31
7	400	150.00	568.2	Ladder Peak	77.45
8	500	150.00	454.5	Ladder Peak	83.16
9	600	150.00	378.8	Ladder Peak	87.73
10	700	150.00	324.7	Ladder Peak	90.91
11	1,000	150.00	227.3	Ladder Peak	94.98
12	2,000	150.00	113.6	Ladder Peak	101.53
13	3,000	150.00	75.8	Ladder Peak	104.86
14	7,000	150.00	32.5	Ladder Peak	109.92
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : final lib1

Number of peaks found: 9 Corr. Area 1: 120.6
 Noise: 0.2

Peak table for sample 1 : final lib1

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	127	14.15	169.4		53.35
3	2,547	2.31	1.4		103.35
4	2,789	2.89	1.6		104.16
5	3,874	6.05	2.4		105.96
6	7,455	9.21	1.9		110.34
7	8,007	6.58	1.2		110.84
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,808	0.00	0.0		115.21
10	13,856	0.00	0.0		116.17
11	14,850	0.00	0.0		117.07

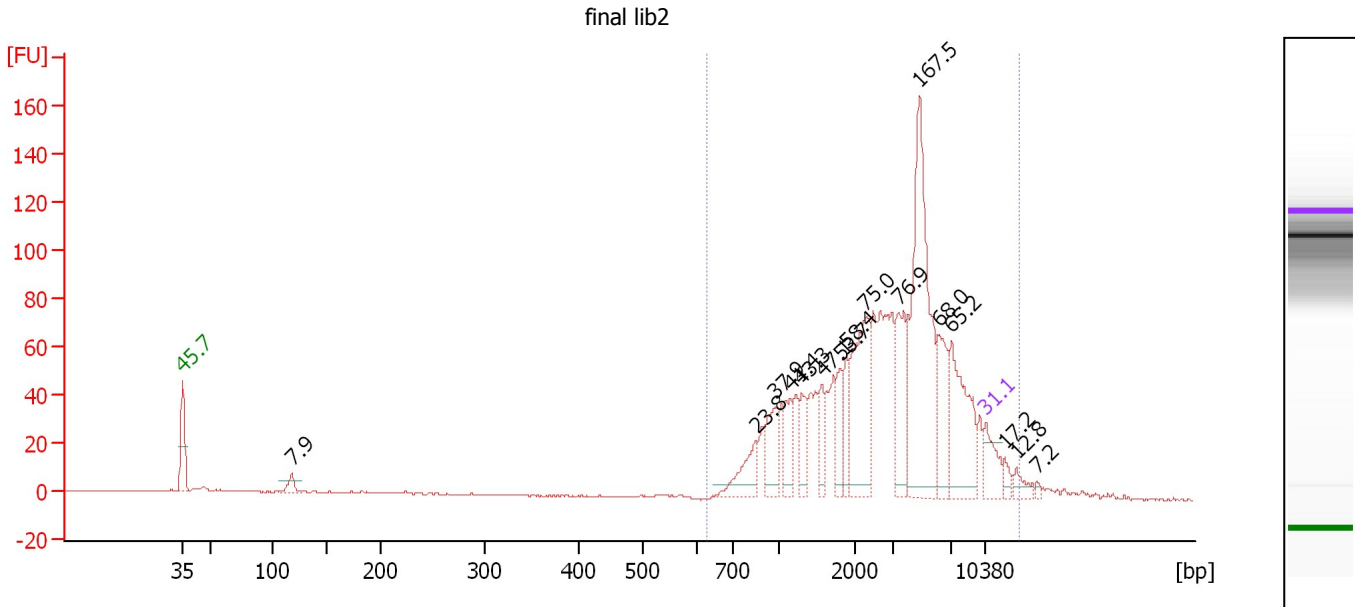
Region table for sample 1 : final lib1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
1,554	20,987	9,292	120.6	21.9	84.89	83	36.9

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Electropherogram Summary Continued ...



Overall Results for sample 2 : final lib2

Number of peaks found: 16 Corr. Area 1: 1,208.6
 Noise: 0.3

Peak table for sample 2 : final lib2

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	117	42.52	548.9		52.48
3	852	115.67	205.8		92.97
4	975	119.19	185.2		94.64
5	1,147	85.31	112.7		95.94
6	1,303	76.58	89.1		96.96
7	1,572	67.74	65.3		98.73
8	1,814	80.99	67.7		100.31
9	1,892	80.18	64.2		100.82
10	2,290	280.35	185.5		102.50
11	3,410	189.00	84.0		105.38
12	4,879	574.84	178.5		107.24
13	6,200	153.51	37.5		108.91
14	7,113	260.10	55.4		110.03
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,217	0.00	0.0		114.67
17	13,289	0.00	0.0		115.65
18	15,280	0.00	0.0		117.46

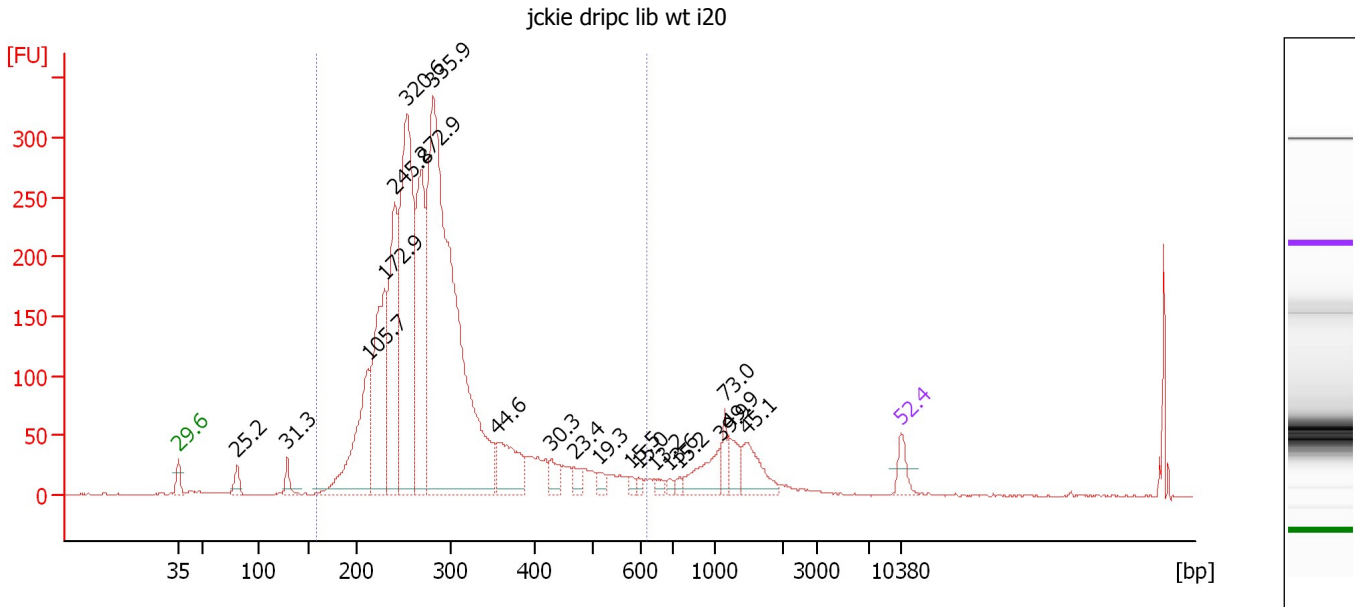
Region table for sample 2 : final lib2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
629	13,548	3,978	1,208.6	1,912.9	2,854.34	95	70.1

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Electropherogram Summary Continued ...



Overall Results for sample 3 : jckie dripc lib wt i20

Number of peaks found: 21 Corr. Area 1: 4,059.9
 Noise: 0.6

Peak table for sample 3 : jckie dripc lib wt i20

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	80	95.81	1,805.8		48.68
3	129	89.99	1,060.5		53.54
4	212	849.48	6,064.2		61.34
5	230	1,053.34	6,942.8		62.94
6	241	1,012.81	6,361.0		63.97
7	254	1,928.52	11,515.0		65.11
8	270	1,074.82	6,038.8		66.56
9	282	4,059.06	21,838.4		67.64
10	356	356.97	1,518.1		73.89
11	429	89.76	317.0		79.11
12	468	52.55	170.2		81.33
13	511	49.21	146.0		83.66
14	580	24.76	64.7		86.81
15	597	22.83	58.0		87.58
16	646	30.62	71.8		89.18
17	690	24.35	53.5		90.58
18	748	24.18	49.0		91.56
19	1,078	188.74	265.4		95.49
20	1,141	76.60	101.7		95.90
21	1,204	109.30	137.6		96.31
22	1,464	183.57	190.0		98.02
23	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

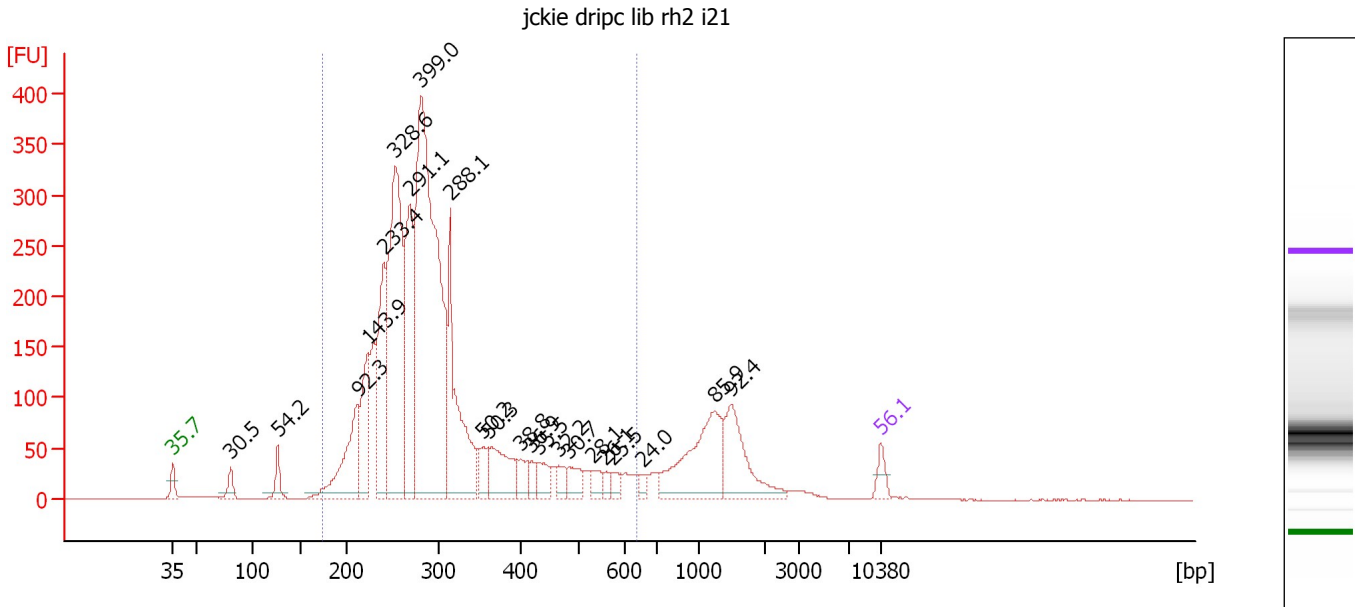
... Region table for sample 3 : jckie dripc lib wt i20

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
160	620	291	4,059.9	60,834.2	10,977.84	88	25.4

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Electropherogram Summary Continued ...



Overall Results for sample 4 : jckie dripc lib rh2 i21

Number of peaks found: 22 Corr. Area 1: 4,486.4
 Noise: 0.3

Peak table for sample 4 : jckie dripc lib rh2 i21

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	81	127.39	2,384.2		48.75
3	127	166.10	1,982.7		53.38
4	212	738.11	5,282.5		61.29
5	223	609.21	4,133.5		62.34
6	240	973.76	6,144.0		63.87
7	253	2,186.32	13,098.4		65.03
8	269	1,119.99	6,318.6		66.46
9	281	4,001.75	21,596.6		67.56
10	314	1,124.97	5,426.1		70.46
11	354	156.58	669.7		73.73
12	361	425.43	1,786.8		74.26
13	399	131.74	500.3		77.37
14	418	76.77	278.4		78.47
15	431	137.29	482.8		79.21
16	465	103.73	338.0		81.16
17	483	138.23	434.1		82.16
18	531	83.31	237.6		84.59
19	555	47.77	130.3		85.70
20	572	76.55	202.9		86.43
21	654	41.22	95.5		89.44
22	1,240	686.28	838.3		96.55
23	1,490	452.33	460.0		98.19
24	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

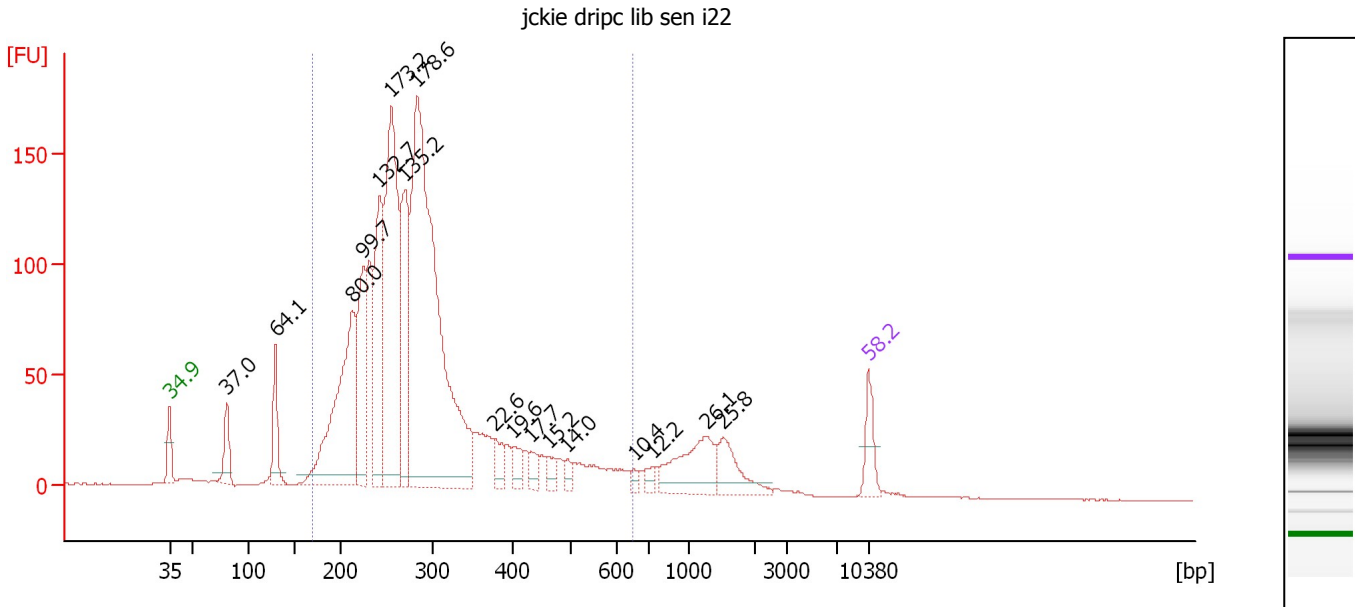
... Region table for sample 4 : jckie dripc lib rh2 i21

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
175	636	301	4,486.4	69,414.3	■ 12,830.42	84	27.6

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Electropherogram Summary Continued ...



Overall Results for sample 5 : jckie dripc lib sen i22

Number of peaks found: 17 Corr. Area 1: 2,376.4
 Noise: 0.2

Peak table for sample 5 : jckie dripc lib sen i22

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	81	141.42	2,640.4		48.77
3	129	181.46	2,123.3		53.63
4	212	814.96	5,825.3		61.31
5	224	414.71	2,801.3		62.44
6	242	520.60	3,260.3		64.04
7	255	1,013.77	6,026.7		65.21
8	270	499.97	2,804.1		66.60
9	283	2,120.20	11,348.1		67.77
10	378	66.88	268.4		75.62
11	399	59.35	225.3		77.39
12	431	51.09	179.8		79.20
13	462	37.68	123.5		81.02
14	494	27.90	85.5		82.83
15	656	17.88	41.3		89.51
16	734	29.14	60.1		91.38
17	1,289	204.82	240.7		96.87
18	1,526	119.32	118.5		98.42
19	10,380	75.00	10.9	Upper Marker	113.00

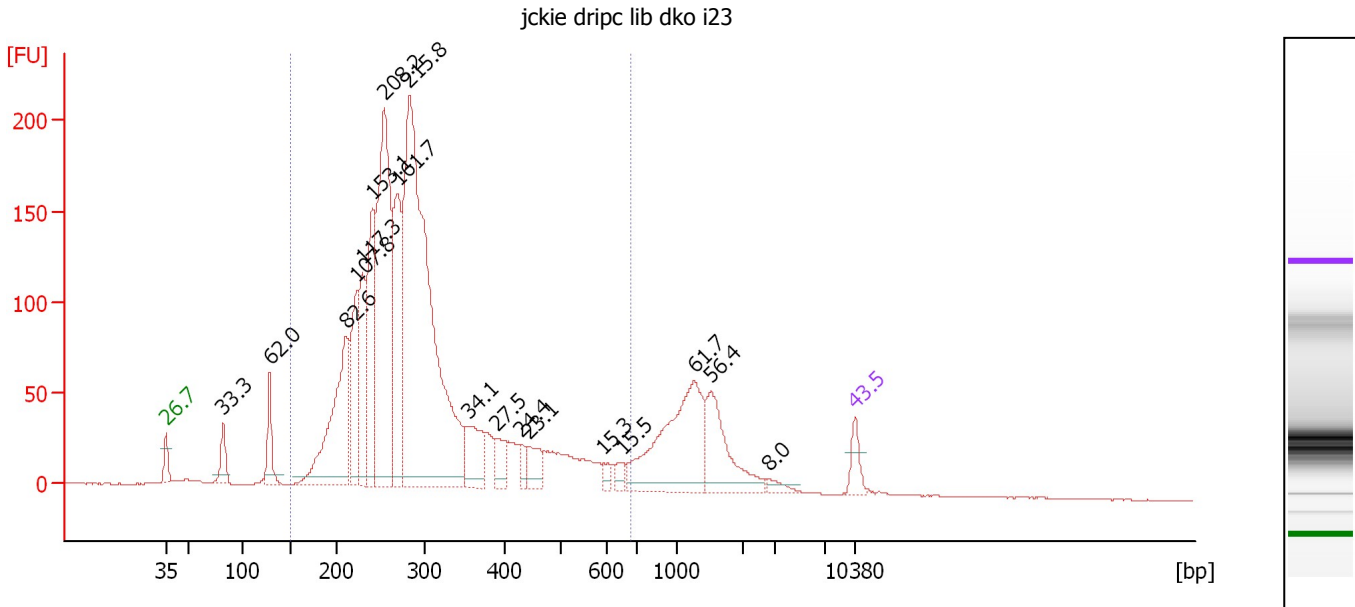
Region table for sample 5 : jckie dripc lib sen i22

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
170	653	292	2,376.4	36,079.4	6,423.91	86	28.6

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Electropherogram Summary Continued ...



Overall Results for sample 6 : jckie dripc lib dko i23

Number of peaks found: 18 Corr. Area 1: 2,856.8
 Noise: 0.2

Peak table for sample 6 : jckie dripc lib dko i23

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	81	166.80	3,103.6		48.80
3	128	232.50	2,746.3		53.51
4	211	959.67	6,879.6		61.26
5	224	478.53	3,238.6		62.40
6	230	518.62	3,418.8		62.94
7	241	699.08	4,391.9		63.97
8	254	1,669.17	9,945.4		65.16
9	269	740.44	4,167.4		66.51
10	282	3,339.53	17,922.5		67.71
11	353	274.39	1,176.1		73.67
12	389	123.53	481.5		76.54
13	427	62.08	220.5		78.98
14	441	132.21	454.4		79.79
15	593	41.80	106.7		87.43
16	652	44.82	104.2		89.38
17	1,253	715.46	865.0		96.64
18	1,518	347.97	347.4		98.37
19	2,842	32.65	17.4		104.33
20	10,380	75.00	10.9	Upper Marker	113.00

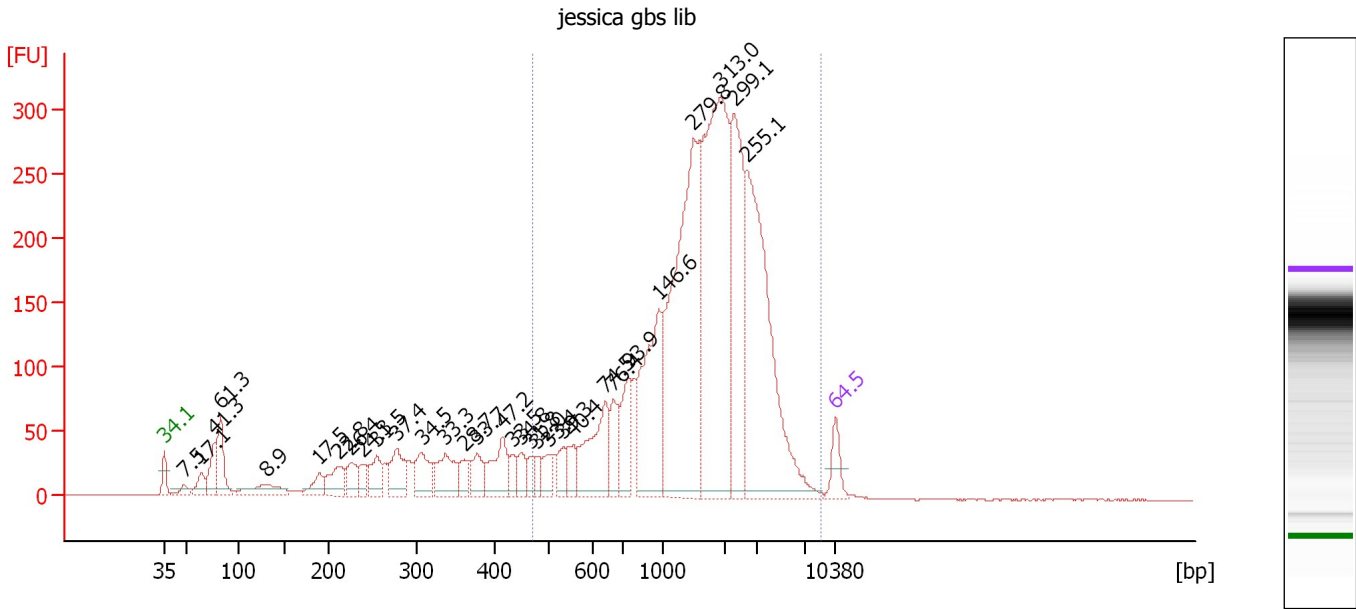
Region table for sample 6 : jckie dripc lib dko i23

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
151	678	302	2,856.8	54,322.2	9,870.97	82	31.0

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Electropherogram Summary Continued ...



Overall Results for sample 7 : **jessica gbs lib**

Number of peaks found: 31 Corr. Area 1: 3,802.6
 Noise: 0.2

Peak table for sample 7 : **jessica gbs lib**

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	49	46.93	1,463.7		45.11
3	64	89.04	2,103.4		46.89
4	76	159.60	3,171.4		48.23
5	82	268.73	4,947.2		48.89
6	130	161.95	1,887.3		53.68
7	189	92.74	744.3		59.18
8	211	159.57	1,148.6		61.18
9	225	111.25	748.5		62.52
10	239	78.68	499.5		63.74
11	255	140.27	834.9		65.18
12	278	192.48	1,049.7		67.30
13	307	169.89	839.4		69.85
14	337	186.68	838.3		72.36
15	362	84.28	352.8		74.36
16	378	100.05	401.4		75.64
17	415	196.73	718.4		78.31
18	434	58.93	205.6		79.42
19	448	79.12	267.6		80.20
20	467	51.16	166.1		81.25
21	478	51.08	161.8		81.92
22	499	76.12	231.3		83.09
23	532	73.99	210.6		84.64
24	554	85.66	234.1		85.64
25	641	335.25	792.3		89.04

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Electropherogram Summary Continued ...

... Peak table for sample 7 : jessica gbs lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	666	141.24	321.5		89.81
27	738	206.81	424.4		91.43
28	972	526.88	821.4		94.60
29	1,493	1,245.54	1,263.9		98.21
30	1,934	1,294.49	1,014.0		101.10
31	2,272	594.52	396.5		102.44
32	2,673	1,026.18	581.7		103.77
33	10,380	75.00	10.9	Upper Marker	113.00

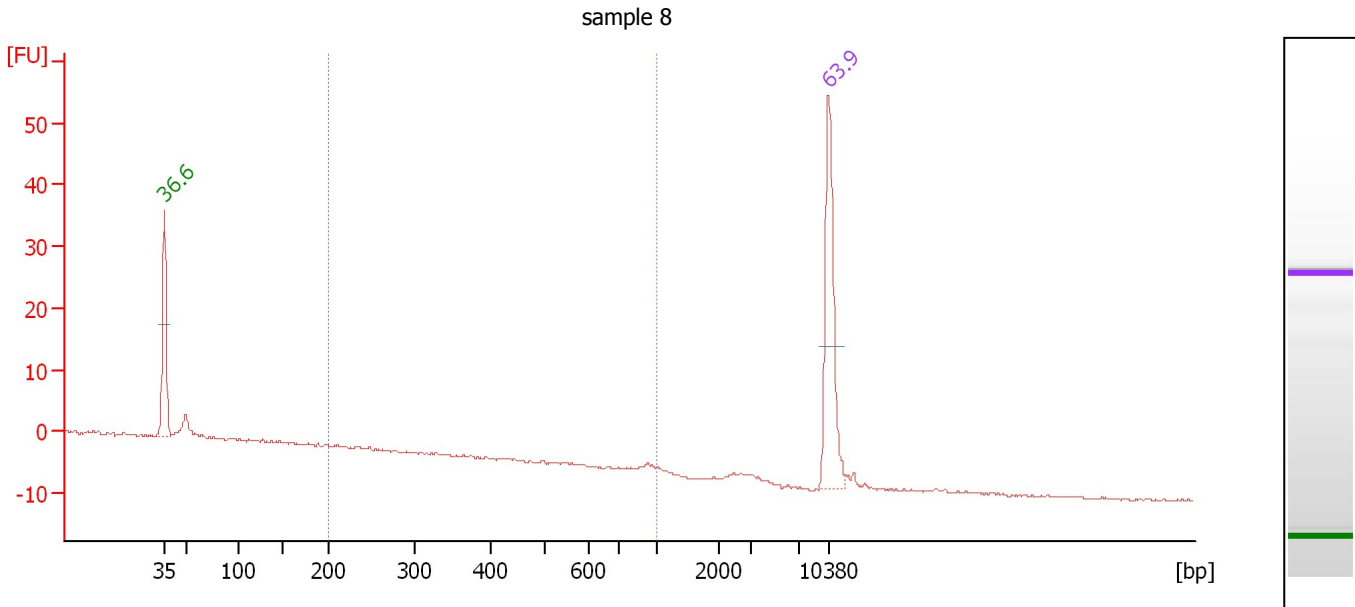
Region table for sample 7 : jessica gbs lib

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
470	8,685	1,901	3,802.6	6,996.3	5,887.25	77	59.7

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Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 0 Corr. Area 1: 1.2
 Noise: 0.2

Peak table for sample 8 : sample 8

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	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	422	1.2	14.7	2.53	8	73.9

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Gel Image

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Invalid Samples

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: 9)		Instrument	Run		5/16/2016 4:25:37 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\2016-05-16\2016-05-16_005.xad)		Instrument	Run		5/16/2016 3:52:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/16/2016 3:52:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/16/2016 3:52:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/16/2016 3:52:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/16/2016 3:52:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/16/2016 3:52:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/16/2016 3:52:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1