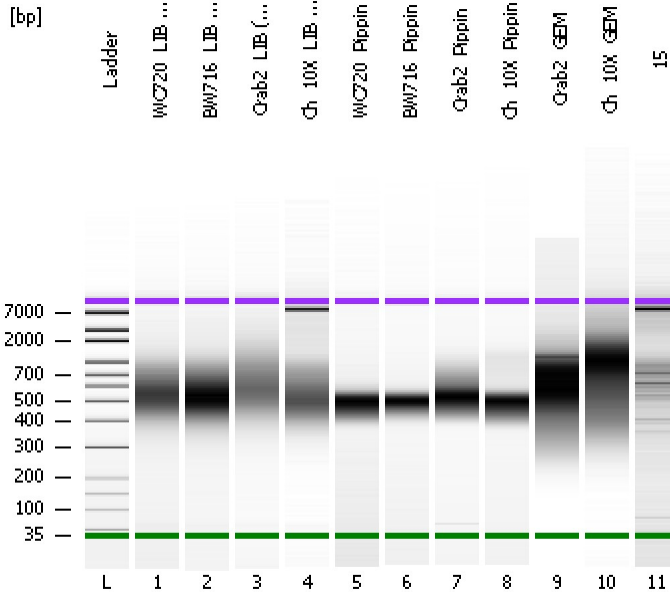


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
Modified: 3/20/2018 3:52:58 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

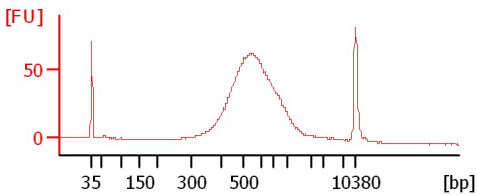
Assay Information:

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

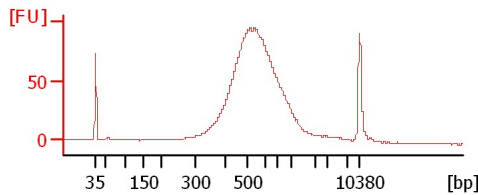
Chip Information:

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

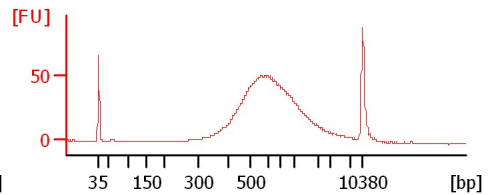
WC720_LIB (1:10)



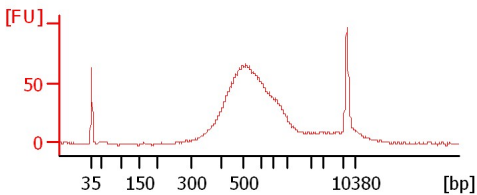
BW716_LIB (1:10)



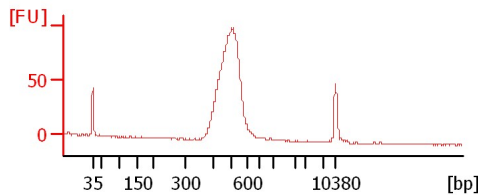
Crab2_LIB (1:10)



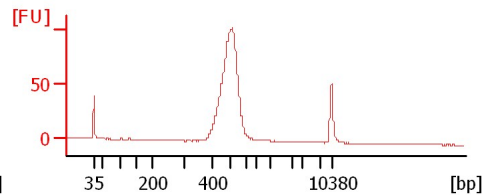
Ch_10X_LIB (1:10)



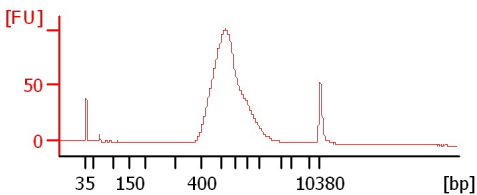
WC720_Pippin



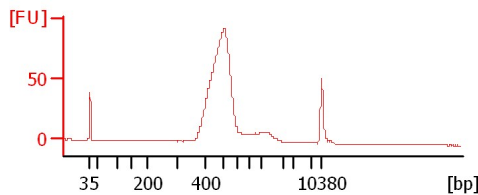
BW716_Pippin



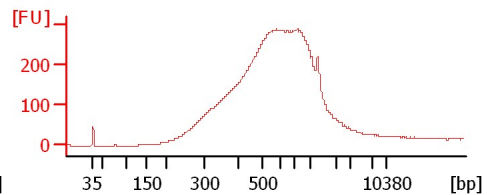
Crab2_Pippin



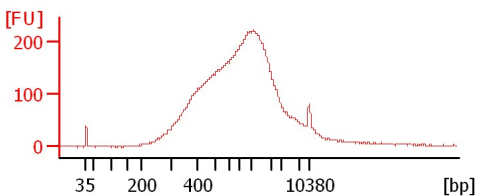
Ch_10X_Pippin



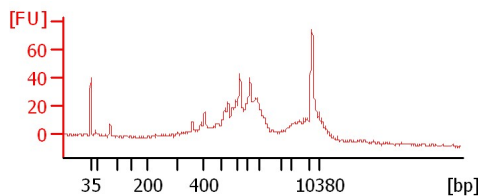
Crab2_GEM



Ch_10X_GEM



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Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
 Modified: 3/20/2018 3:52:58 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
WC720_LIB (1:10)		<input type="checkbox"/>	✓			
BW716_LIB (1:10)		<input type="checkbox"/>	✓			
Crab2_LIB (1:10)		<input type="checkbox"/>	✓			
Ch_10X_LIB (1:10)		<input type="checkbox"/>	✓			
WC720_Pippin		<input type="checkbox"/>	✓			
BW716_Pippin		<input type="checkbox"/>	✓			
Crab2_Pippin		<input type="checkbox"/>	✓			
Ch_10X_Pippin		<input type="checkbox"/>	✓			
Crab2_GEM		<input type="checkbox"/>	✓			
Ch_10X_GEM		<input type="checkbox"/>	✓			
15		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

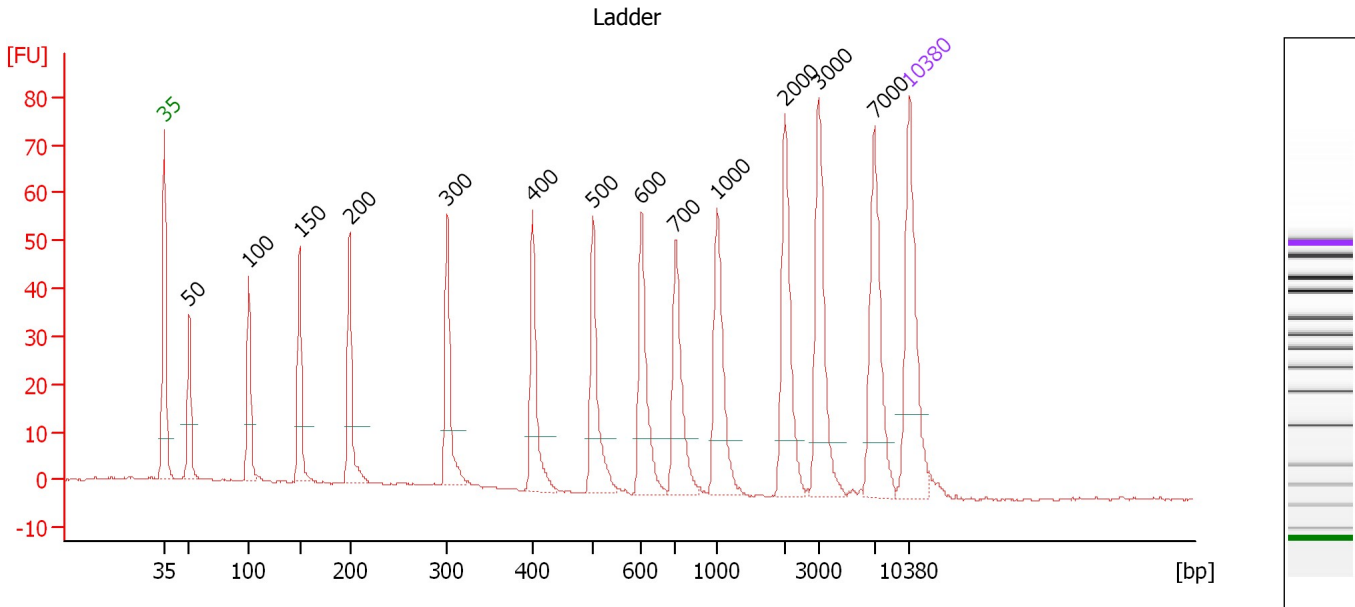
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
 Modified: 3/20/2018 3:52:58 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

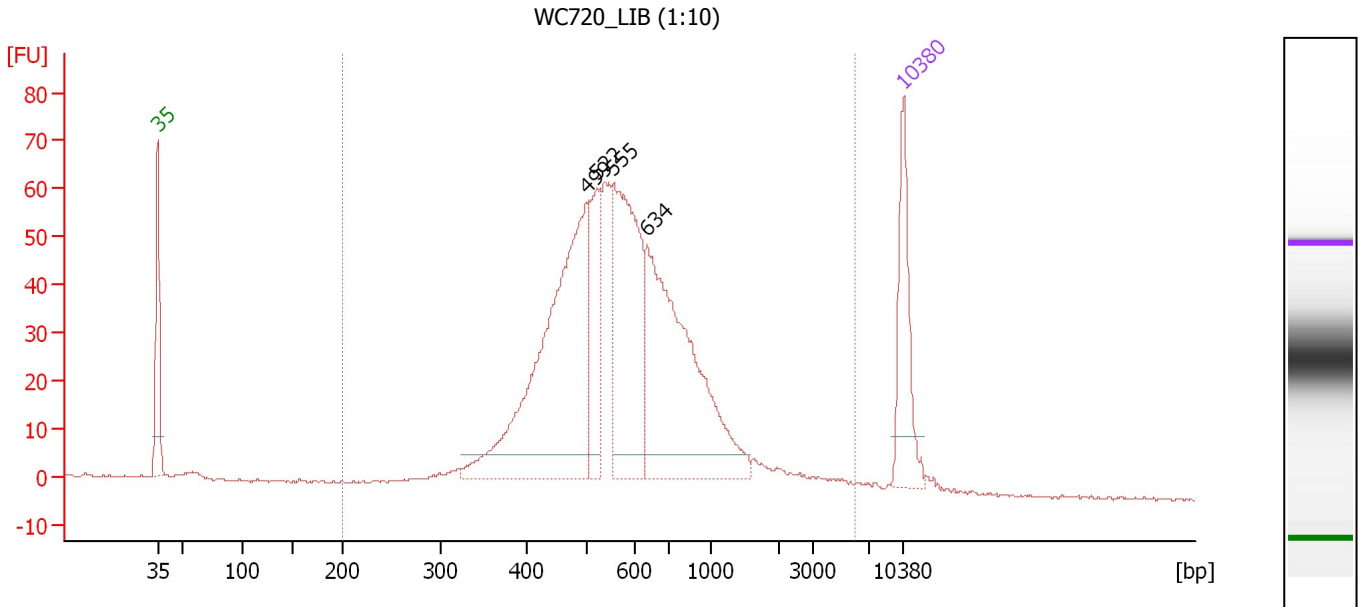
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	50.96
4	150	150.00	1,515.2	Ladder Peak	55.72
5	200	150.00	1,136.4	Ladder Peak	60.42
6	300	150.00	757.6	Ladder Peak	69.59
7	400	150.00	568.2	Ladder Peak	77.60
8	500	150.00	454.5	Ladder Peak	83.26
9	600	150.00	378.8	Ladder Peak	87.81
10	700	150.00	324.7	Ladder Peak	91.02
11	1,000	150.00	227.3	Ladder Peak	94.92
12	2,000	150.00	113.6	Ladder Peak	101.33
13	3,000	150.00	75.8	Ladder Peak	104.44
14	7,000	150.00	32.5	Ladder Peak	109.75
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
 Modified: 3/20/2018 3:52:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : WC720_LIB (1:10)

Number of peaks found: 4 Corr. Area 1: 1,079.2
 Noise: 0.3

Peak table for sample 1 : WC720_LIB (1:10)

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	499	418.33	1,271.4		83.17
3	522	97.93	284.5		84.24
4	555	244.56	667.7		85.76
5	634	318.65	761.4		88.91
6	10,380	75.00	10.9	Upper Marker	113.00

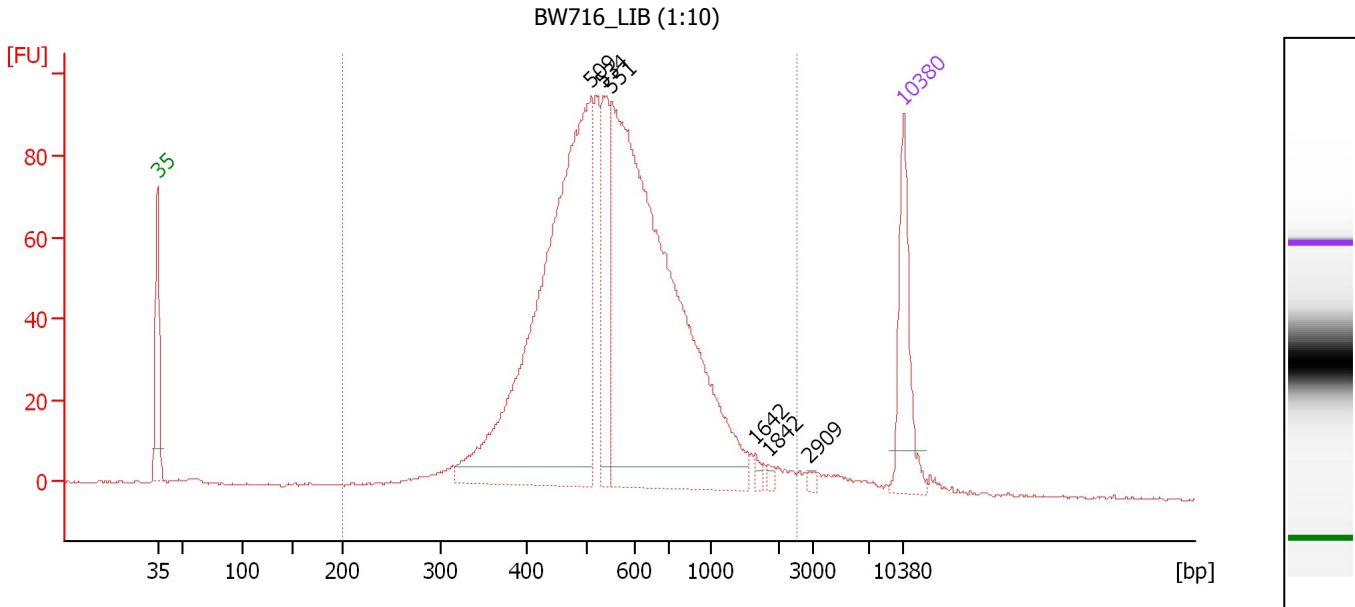
Region table for sample 1 : WC720_LIB (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	6,010	687	1,079.2	1,288.75	3,555.2	98	76.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
 Modified: 3/20/2018 3:52:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : BW716 LIB (1:10)

Number of peaks found: 6 Corr. Area 1: 1,646.9
 Noise: 0.2

Peak table for sample 2 : BW716 LIB (1:10)

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	509	697.78	2,078.7		83.65
3	534	103.86	294.4		84.83
4	551	774.64	2,129.1		85.59
5	1,642	5.05	4.7		99.04
6	1,842	3.84	3.2		100.32
7	2,909	3.49	1.8		104.15
8	10,380	75.00	10.9	Upper Marker	113.00

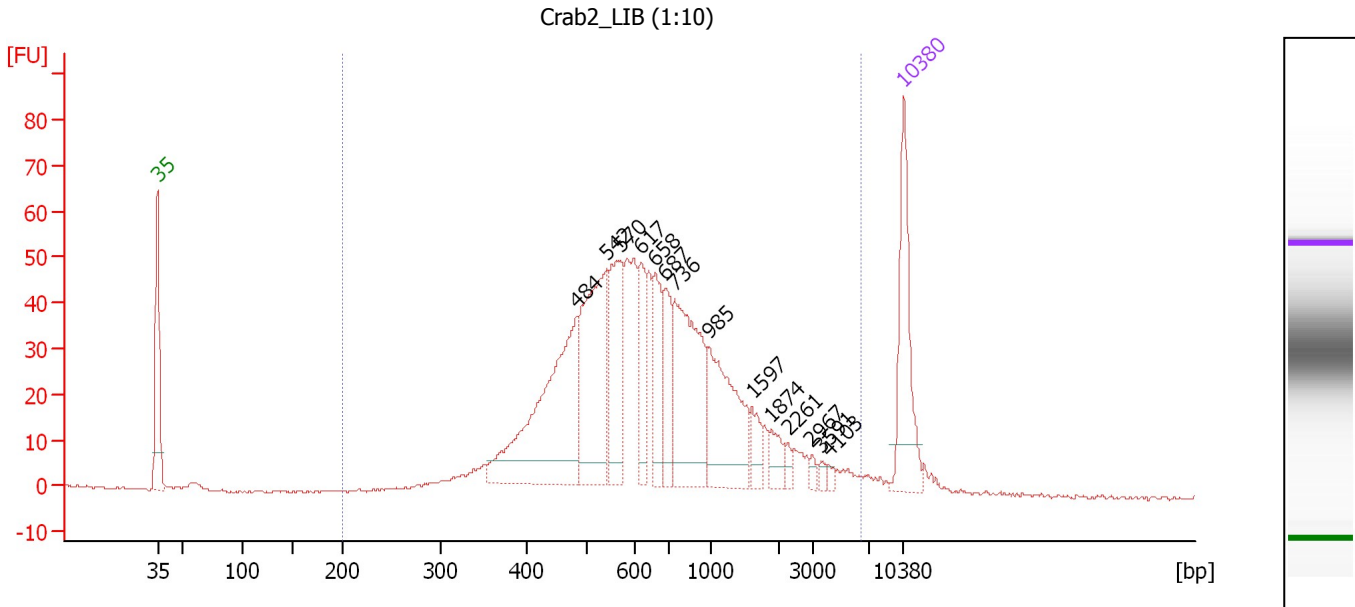
Region table for sample 2 : BW716 LIB (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	2,543	612	1,646.9	1,732.95	4,993.0	96	45.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
 Modified: 3/20/2018 3:52:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Crab2_LIB (1:10)

Number of peaks found: 14 Corr. Area 1: 1,033.2
 Noise: 0.2

Peak table for sample 3 : Crab2_LIB (1:10)

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	484	223.06	698.1		82.36
3	542	163.08	455.8		85.18
4	570	89.13	237.1		86.43
5	617	45.56	111.9		88.36
6	658	57.85	133.3		89.67
7	687	51.51	113.6		90.61
8	736	144.93	298.2		91.49
9	985	103.67	159.5		94.73
10	1,597	17.83	16.9		98.75
11	1,874	15.71	12.7		100.52
12	2,261	5.81	3.9		102.14
13	2,967	4.34	2.2		104.33
14	3,591	4.06	1.7		105.22
15	4,103	3.11	1.1		105.90
16	10,380	75.00	10.9	Upper Marker	113.00

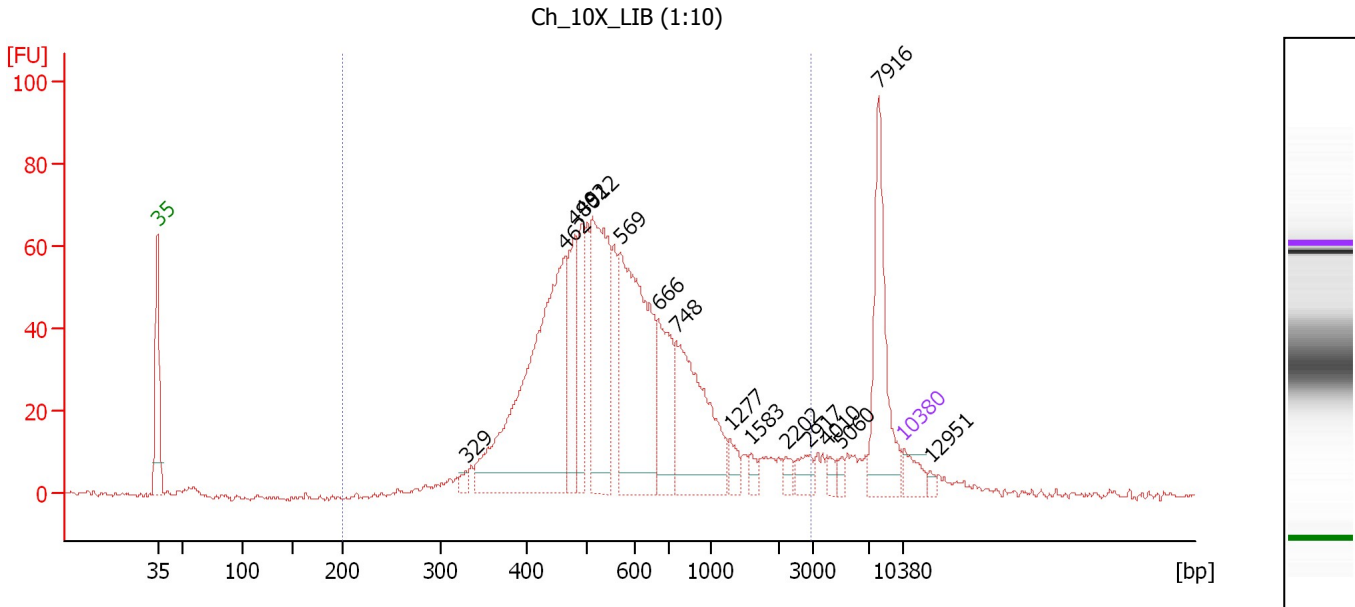
Region table for sample 3 : Crab2_LIB (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	6,453	884	1,033.2	1,197.25	2,988.6	98	89.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
 Modified: 3/20/2018 3:52:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Ch_10X_LIB (1:10)

Number of peaks found: 16 Corr. Area 1: 1,223.2
 Noise: 0.6

Peak table for sample 4 : Ch_10X_LIB (1:10)

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	329	37.59	172.9		71.94
3	462	1,792.25	5,874.8		81.12
4	480	450.61	1,421.0		82.15
5	492	310.60	955.9		82.82
6	512	901.16	2,666.9		83.80
7	569	1,176.39	3,134.8		86.38
8	666	392.81	893.1		89.94
9	748	765.26	1,550.0		91.64
10	1,277	64.79	76.9		96.70
11	1,583	40.25	38.5		98.66
12	2,202	39.51	27.2		101.96
13	2,917	69.69	36.2		104.18
14	4,010	35.02	13.2		105.78
15	5,060	27.01	8.1		107.17
16	7,916	480.07	91.9		110.63
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,951	0.00	0.0		115.48

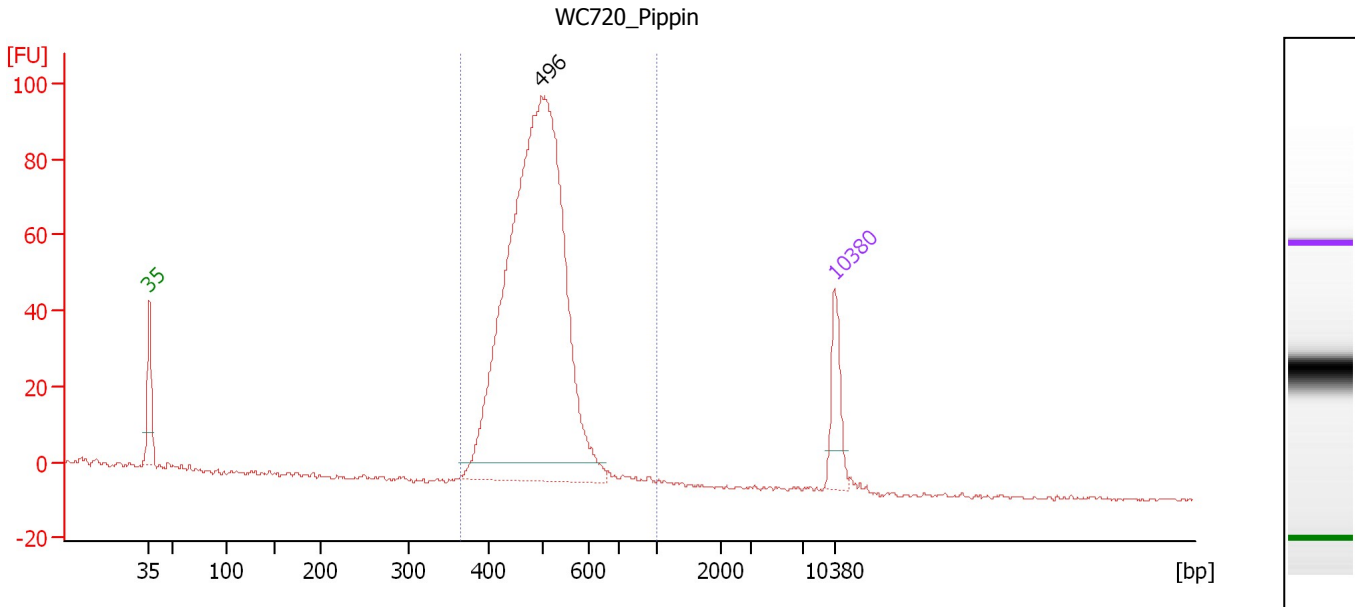
Region table for sample 4 : Ch_10X_LIB (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	2,965	665	1,223.2	6,827.04	19,364.3	87	61.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
 Modified: 3/20/2018 3:52:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WC720_Pippin

Number of peaks found: 1 Corr. Area 1: 816.7
 Noise: 0.5

Peak table for sample 5 : WC720_Pippin

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	496	1,699.94	5,191.5		83.04
3	10,380	75.00	10.9	Upper Marker	113.00

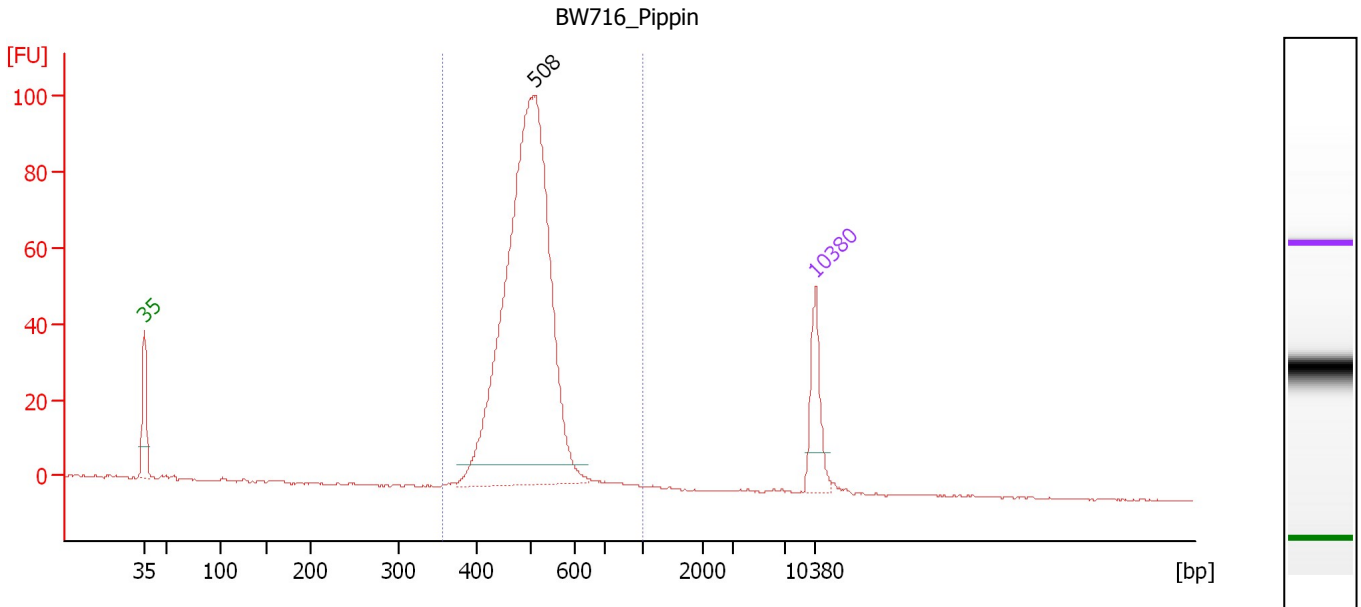
Region table for sample 5 : WC720_Pippin

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
366	1,000	490	816.7	1,659.87	5,202.4	100	10.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
 Modified: 3/20/2018 3:52:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : BW716 Pippin

Number of peaks found: 1 Corr. Area 1: 673.5
 Noise: 0.2

Peak table for sample 6 : BW716 Pippin

Pea k	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	508	1,222.96	3,644.2		83.64
3	10,380	75.00	10.9	Upper Marker	113.00

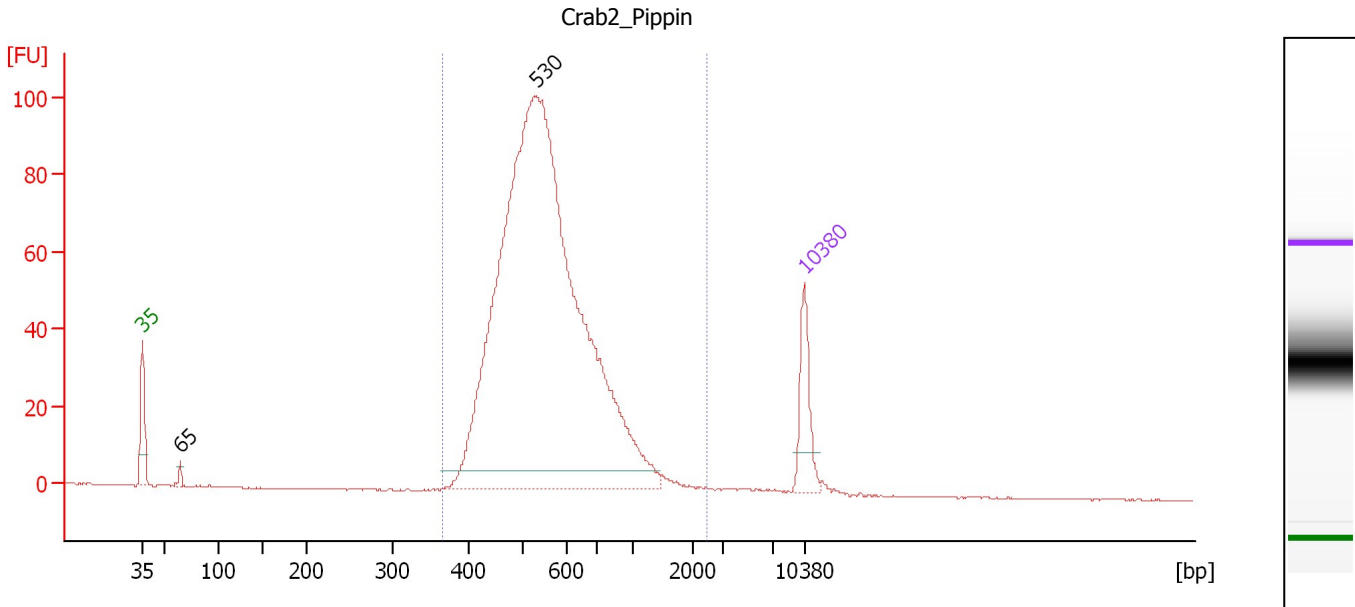
Region table for sample 6 : BW716 Pippin

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/µl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
357	1,000	499	673.5	1,256.80	3,862.4	99	10.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
 Modified: 3/20/2018 3:52:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Crab2_Pippin

Number of peaks found: 2 Corr. Area 1: 1,154.2
 Noise: 0.2

Peak table for sample 7 : Crab2_Pippin

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	65	11.41	267.1		47.00
3	530	2,116.86	6,050.8		84.63
4	10,380	75.00	10.9	Upper Marker	113.00

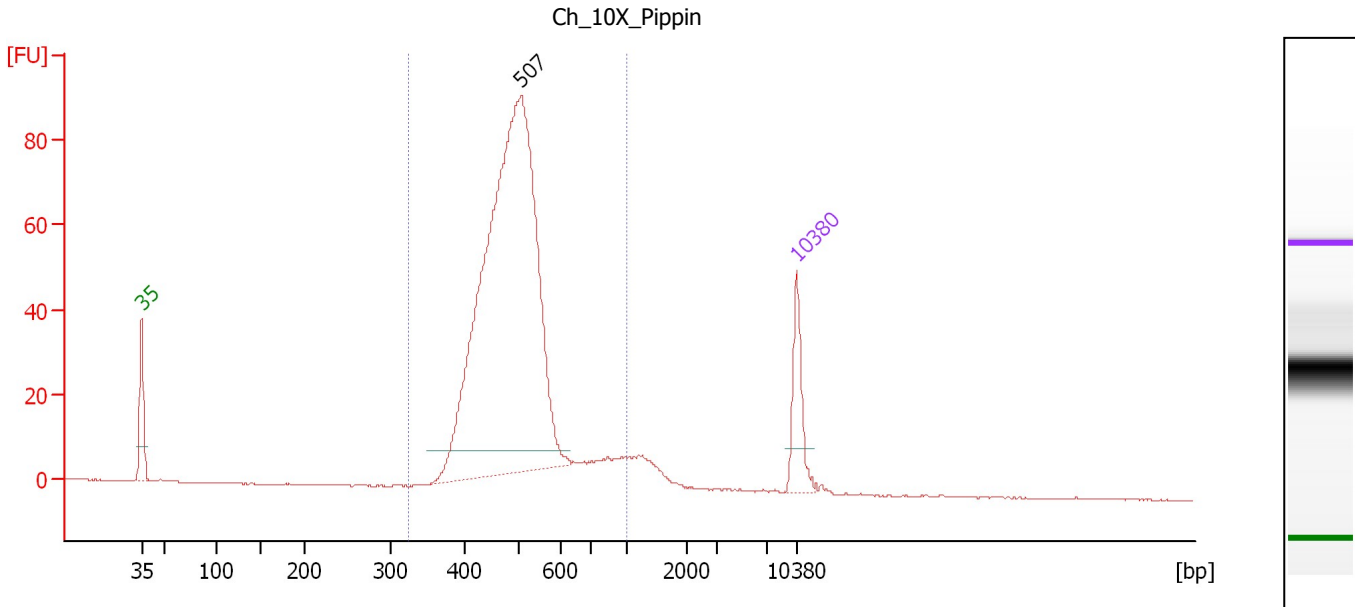
Region table for sample 7 : Crab2_Pippin

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
364	2,426	590	1,154.2	2,107.47	5,852.3	98	33.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
 Modified: 3/20/2018 3:52:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Ch_10X_Pippin

Number of peaks found: 1 Corr. Area 1: 793.1
 Noise: 0.1

Peak table for sample 8 : Ch_10X_Pippin

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	507	1,456.97	4,352.3		83.59
3	10,380	75.00	10.9	Upper Marker	113.00

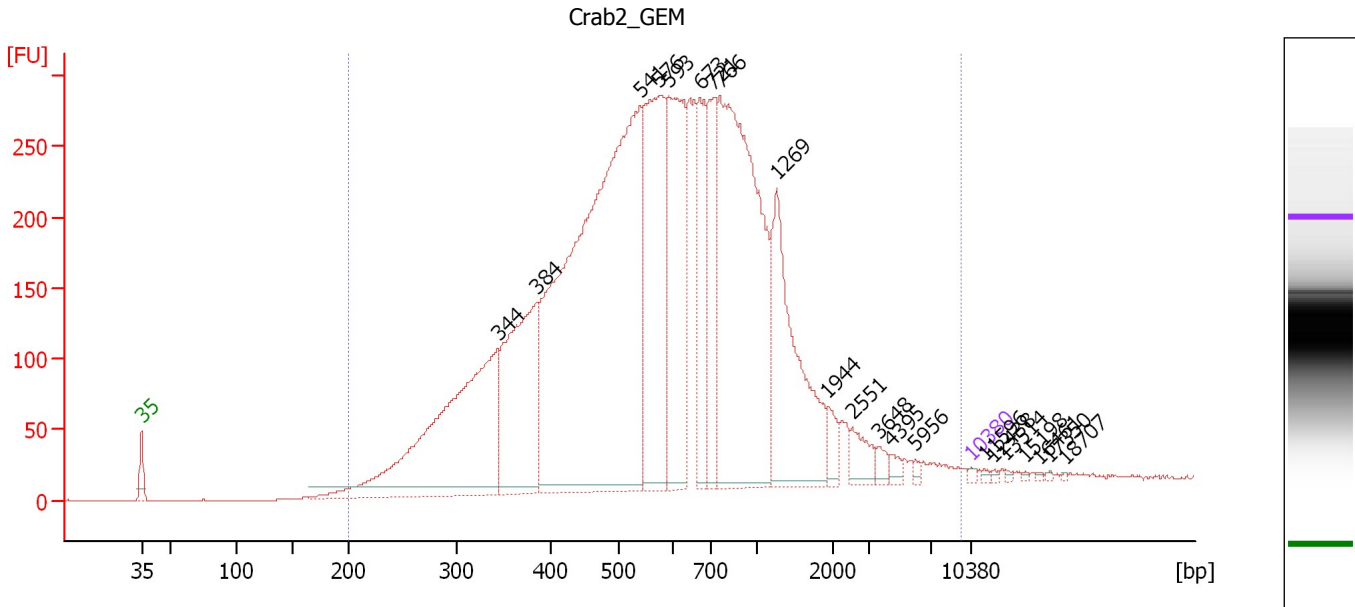
Region table for sample 8 : Ch_10X_Pippin

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
324	1,000	503	793.1	1,680.17	5,223.4	95	18.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
 Modified: 3/20/2018 3:52:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Crab2_GEM

Number of peaks found: 21 Corr. Area 1: 8,084.5
 Noise: 0.2

Peak table for sample 9 : Crab2_GEM


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	344	14,026.52	61,831.4		73.09
3	384	8,084.13	31,881.3		76.33
4	541	30,301.38	84,893.0		85.12
5	576	8,682.98	22,824.4		86.74
6	593	7,472.03	19,084.8		87.50
7	673	3,690.21	8,304.5		90.16
8	721	3,668.52	7,712.3		91.29
9	766	16,118.43	31,895.0		91.87
10	1,269	6,456.06	7,708.0		96.65
11	1,944	584.39	455.5		100.97
12	2,551	766.12	455.0		103.05
13	3,648	316.04	131.3		105.30
14	4,395	221.99	76.5		106.29
15	5,956	112.44	28.6		108.36
16	10,380	75.00	10.9	Upper Marker	113.00
17	11,596	0.00	0.0		114.17
18	12,438	0.00	0.0		114.98
19	13,514	0.00	0.0		116.02
20	15,198	0.00	0.0		117.64
21	16,461	0.00	0.0		118.86
22	17,350	0.00	0.0		119.71
23	18,707	0.00	0.0		121.02

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
Modified: 3/20/2018 3:52:58 PM

Electropherogram Summary Continued ...

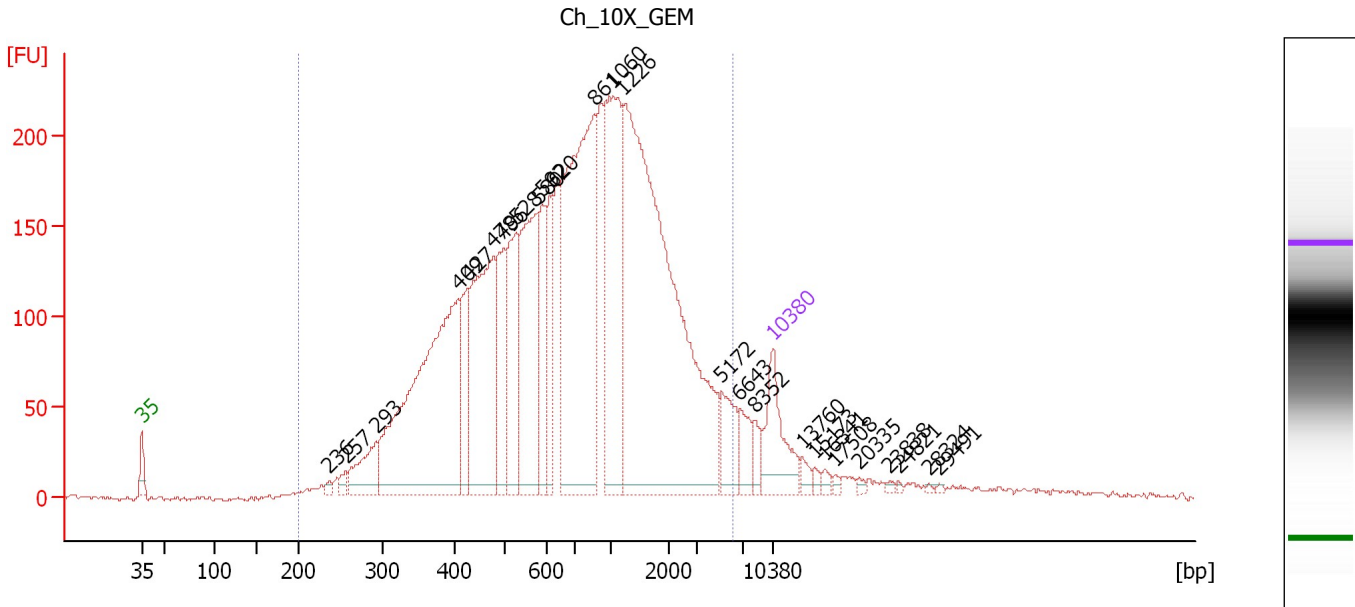
... Region table for sample 9 : Crab2_GEM

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/ μ l]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	9,557	789	8,084.5	106,829.99	313,817.0	 99	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
 Modified: 3/20/2018 3:52:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Ch_10X_GEM

Number of peaks found: 26 Corr. Area 1: 5,635.2
 Noise: 1.1

Peak table for sample 10 : Ch_10X_GEM

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	236	7.78	49.9		63.77
3	257	12.70	75.0		65.60
4	293	77.49	401.2		68.92
5	409	560.92	2,079.7		78.09
6	427	93.23	330.5		79.15
7	478	302.49	959.5		81.99
8	496	126.22	385.2		83.06
9	528	160.88	461.6		84.54
10	580	238.61	623.3		86.91
11	592	96.01	245.8		87.44
12	620	90.77	222.0		88.44
13	861	527.05	927.2		93.12
14	1,060	267.13	381.9		95.31
15	1,226	818.65	1,011.7		96.37
16	5,172	51.29	15.0		107.32
17	6,643	31.60	7.2		109.27
18	8,352	18.11	3.3		111.05
19	10,380	75.00	10.9	Upper Marker	113.00
20	13,760	0.00	0.0		116.25
21	15,173	0.00	0.0		117.62
22	16,341	0.00	0.0		118.74
23	17,508	0.00	0.0		119.86
24	20,335	0.00	0.0		122.59
25	23,838	0.00	0.0		125.96

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

Created: 3/20/2018 3:00:27 PM
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Electropherogram Summary Continued ...

... Peak table for sample 10 : Ch 10X_GEM

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	24,821	0.00	0.0		126.91
27	28,324	0.00	0.0		130.28
28	29,491	0.00	0.0		131.40

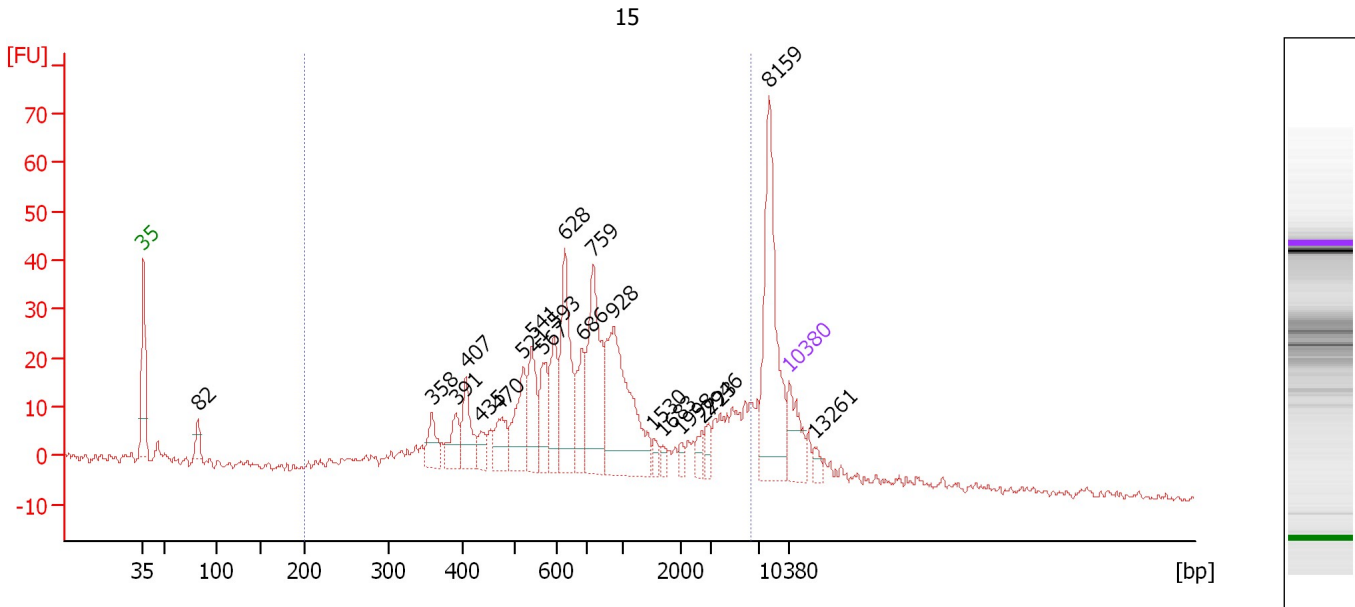
Region table for sample 10 : Ch 10X_GEM

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/ μ l]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	6,178	1,090	5,635.2	3,725.99	9,288.6	95	90.5

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 11 : 15

Number of peaks found: 21 Corr. Area 1: 610.5
 Noise: 0.7

Peak table for sample 11 : 15


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	82	48.70	898.8		48.95
3	358	68.57	289.8		74.27
4	391	65.39	253.4		76.87
5	407	99.70	371.5		77.97
6	435	35.00	121.8		79.59
7	470	73.52	237.1		81.55
8	521	125.54	365.1		84.21
9	541	110.48	309.2		85.14
10	567	93.21	249.2		86.29
11	593	106.87	272.9		87.51
12	628	214.40	517.0		88.72
13	686	96.16	212.4		90.57
14	759	247.70	494.5		91.79
15	928	334.90	547.0		93.98
16	1,530	17.03	16.9		98.32
17	1,683	13.44	12.1		99.30
18	1,998	13.52	10.3		101.32
19	2,723	21.44	11.9		103.58
20	2,946	23.06	11.9		104.27
21	8,159	303.57	56.4		110.86
22	10,380	75.00	10.9	Upper Marker	113.00
23	13,261	0.00	0.0		115.77

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

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Electropherogram Summary Continued ...

... Region table for sample 11 : 15

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/ μ l]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	6,380	1,236	610.5	2,179.74	5,238.6	 78	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_006.xad

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Gel Image

