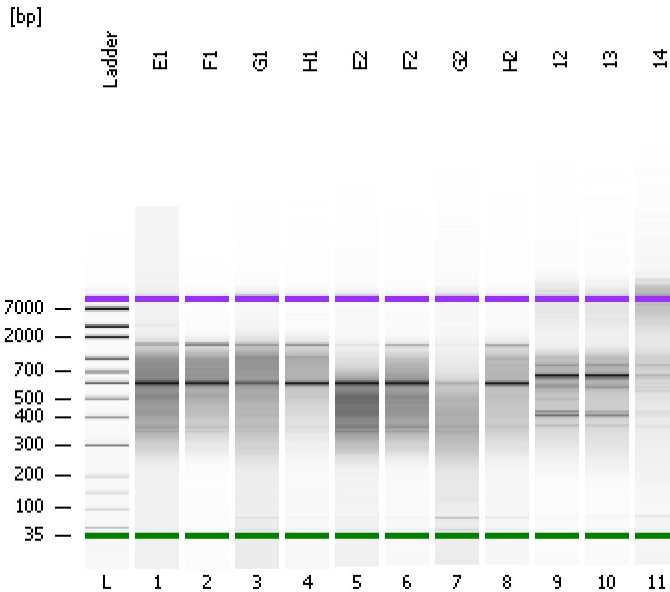


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

Created: 3/20/2018 1:41:15 PM
Modified: 3/20/2018 2:25:54 PM

Electrophoresis File Run Summary



Instrument Information:

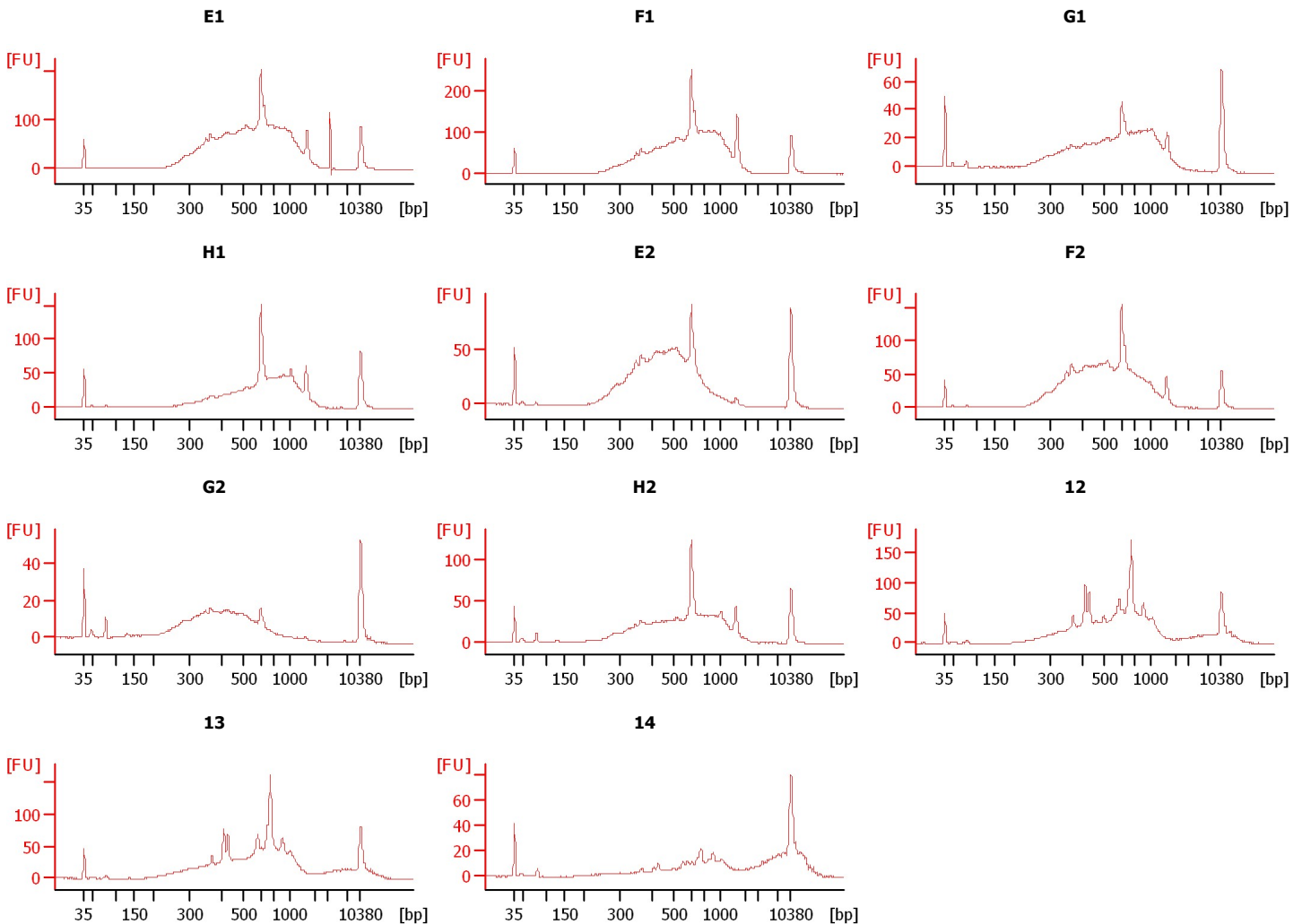
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

Created: 3/20/2018 1:41:15 PM
 Modified: 3/20/2018 2:25:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
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F1		<input type="checkbox"/>	✓			
G1		<input type="checkbox"/>	✓			
H1		<input type="checkbox"/>	✓			
E2		<input type="checkbox"/>	✓			
F2		<input type="checkbox"/>	✓			
G2		<input type="checkbox"/>	✓			
H2		<input type="checkbox"/>	✓			
12		<input type="checkbox"/>	✓			
13		<input type="checkbox"/>	✓			
14		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

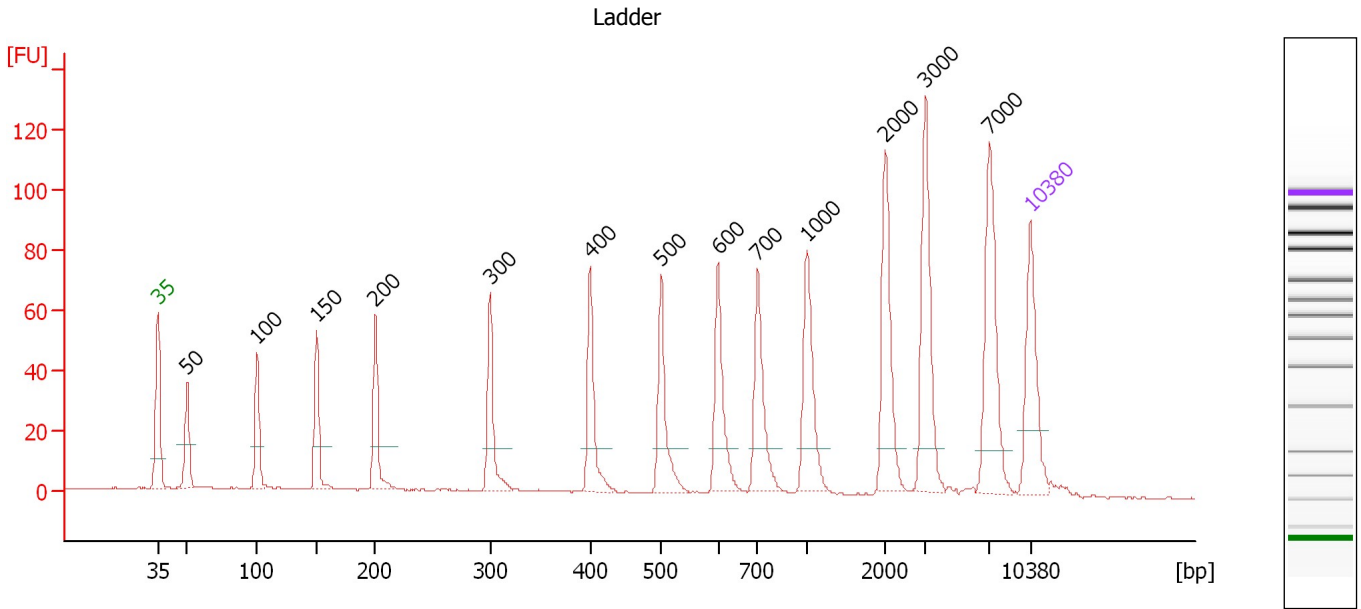
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

Created: 3/20/2018 1:41:15 PM
 Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

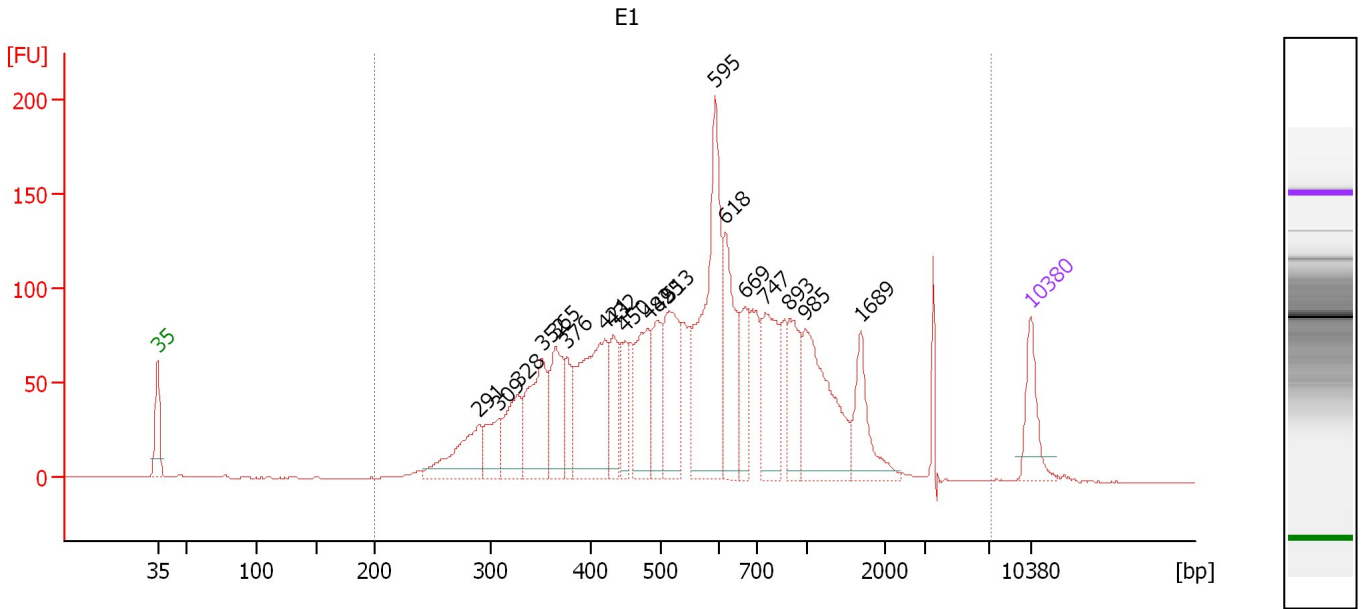
Peak table for Ladder

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	51.00
4	150	150.00	1,515.2	Ladder Peak	55.75
5	200	150.00	1,136.4	Ladder Peak	60.45
6	300	150.00	757.6	Ladder Peak	69.65
7	400	150.00	568.2	Ladder Peak	77.70
8	500	150.00	454.5	Ladder Peak	83.40
9	600	150.00	378.8	Ladder Peak	87.95
10	700	150.00	324.7	Ladder Peak	91.15
11	1,000	150.00	227.3	Ladder Peak	95.10
12	2,000	150.00	113.6	Ladder Peak	101.35
13	3,000	150.00	75.8	Ladder Peak	104.60
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_005.xad

Created: 3/20/2018 1:41:15 PM
 Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : E1

Number of peaks found: 19 Corr. Area 1: 2,878.3
 Noise: 0.3

Peak table for sample 1 : E1

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	291	158.63	825.8		68.83
3	309	87.71	429.8		70.39
4	328	126.97	586.4		71.91
5	352	208.36	897.1		73.83
6	365	145.23	602.7		74.89
7	376	79.23	318.9		75.80
8	421	315.50	1,136.0		78.88
9	432	106.04	371.6		79.54
10	450	78.26	263.5		80.55
11	482	173.51	545.5		82.37
12	495	112.97	345.6		83.13
13	513	203.09	599.9		83.99
14	595	435.29	1,108.2		87.73
15	618	190.73	467.3		88.54
16	669	100.48	227.6		90.16
17	747	179.74	364.4		91.77
18	893	112.41	190.7		93.69
19	985	253.13	389.3		94.91
20	1,689	104.22	93.5		99.40
21	10,380	75.00	10.9	Upper Marker	113.00

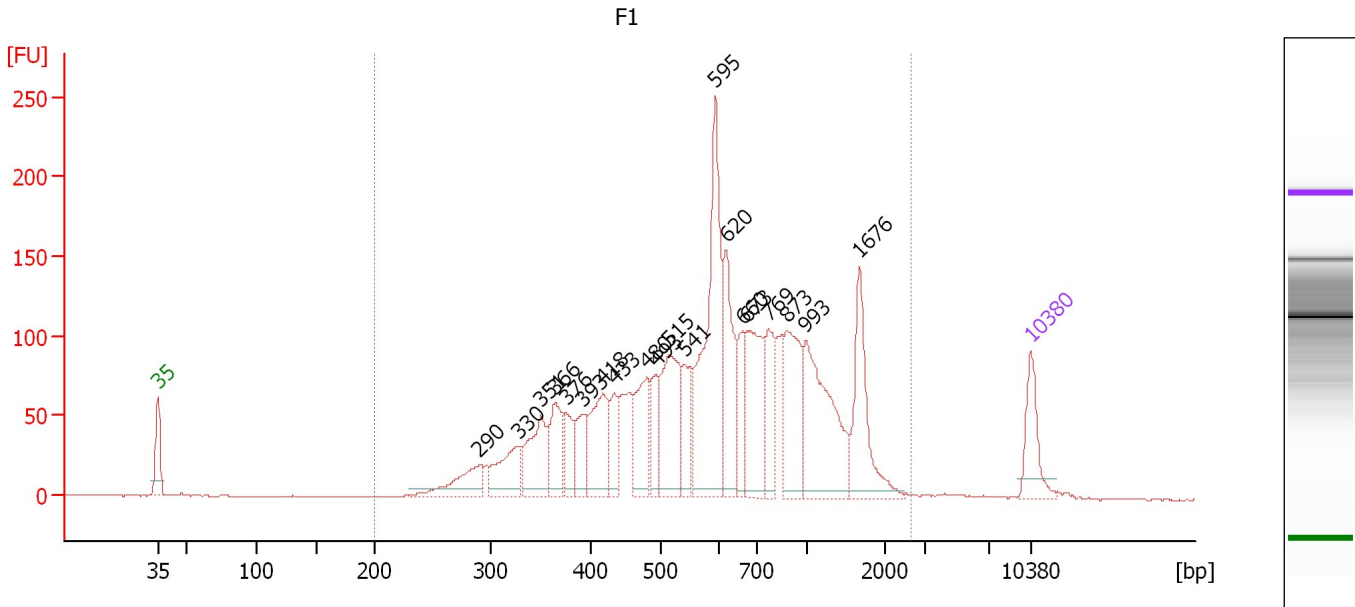
Region table for sample 1 : E1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	7,184	702	2,878.3	3,619.84	10,979.8	99	75.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

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 Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : F1

Number of peaks found: 20 Corr. Area 1: 2,853.0
 Noise: 0.3

Peak table for sample 2 : F1

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	290	102.21	533.1		68.77
3	330	117.49	540.2		72.03
4	351	145.63	628.6		73.76
5	366	109.11	452.3		74.92
6	376	71.60	288.3		75.79
7	393	76.84	296.5		77.11
8	418	164.13	594.6		78.74
9	433	67.90	237.4		79.60
10	480	129.84	410.1		82.24
11	493	83.49	256.5		83.01
12	515	210.88	620.6		84.07
13	541	79.33	222.4		85.24
14	595	411.18	1,046.6		87.73
15	620	176.66	431.5		88.60
16	660	91.30	209.6		89.87
17	673	188.69	425.0		90.28
18	769	112.95	222.6		92.06
19	873	185.94	322.7		93.43
20	993	268.97	410.5		95.00
21	1,676	156.40	141.4		99.33
22	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_005.xad

Created: 3/20/2018 1:41:15 PM
Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary Continued ...

... Region table for sample 2 :

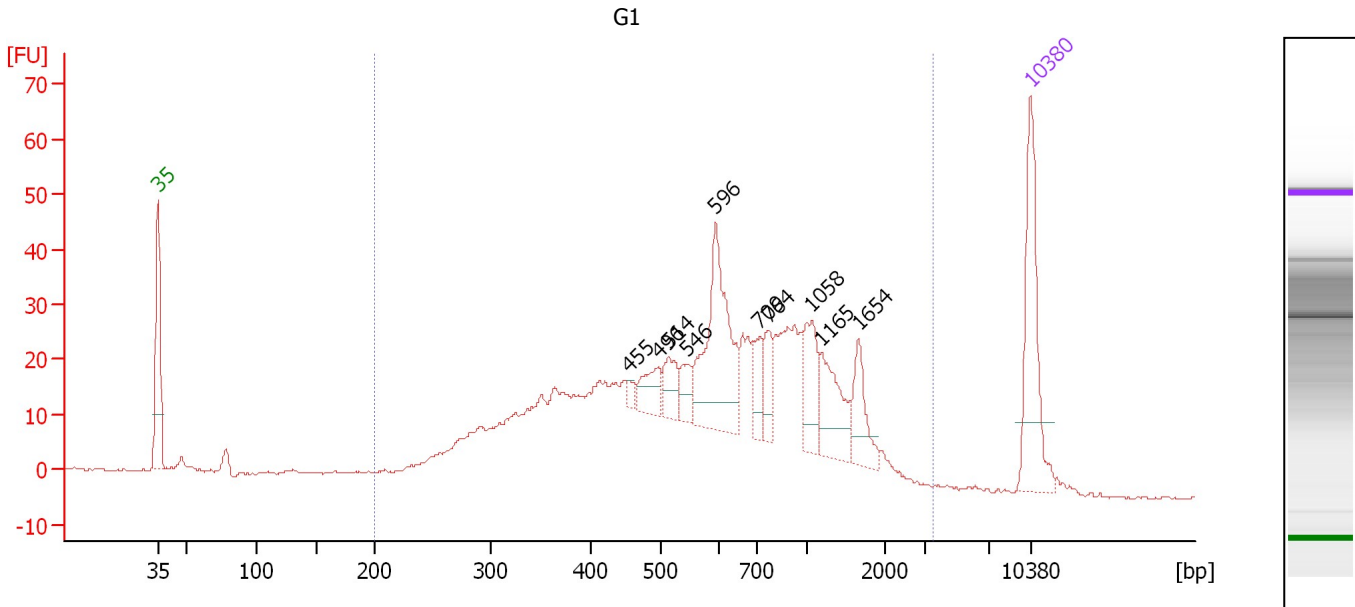
F1

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	2,648	714	2,853.0	3,211.43	9,057.6	 99	53.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

Created: 3/20/2018 1:41:15 PM
 Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : G1

Number of peaks found: 10 Corr. Area 1: 816.0
 Noise: 0.3

Peak table for sample 3 : G1

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	455	6.20	20.6		80.82
3	496	25.73	78.7		83.15
4	514	25.45	75.1		84.03
5	546	18.25	50.7		85.48
6	596	119.16	303.1		87.75
7	709	24.23	51.8		91.27
8	764	23.64	46.9		91.99
9	1,058	38.49	55.1		95.46
10	1,165	47.45	61.7		96.13
11	1,654	32.24	29.5		99.19
12	10,380	75.00	10.9	Upper Marker	113.00

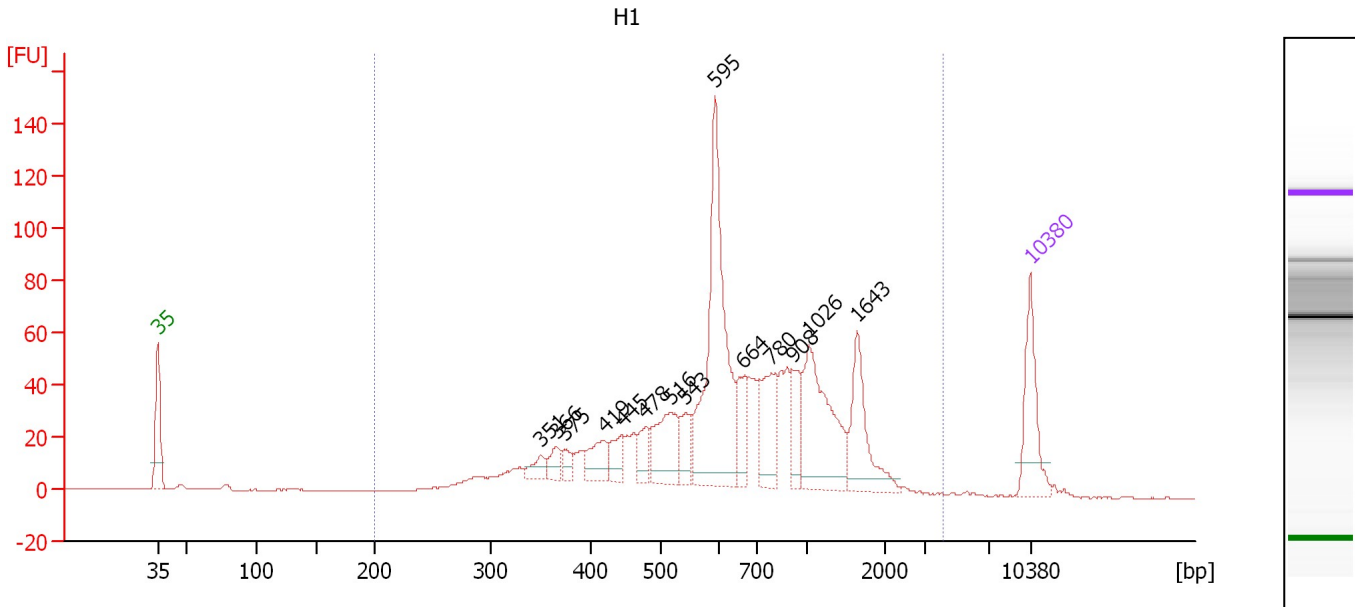
Region table for sample 3 : G1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	3,444	715	816.0	1,201.74	3,603.4	97	58.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

Created: 3/20/2018 1:41:15 PM
 Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : H1

Number of peaks found: 14 Corr. Area 1: 1,190.5
 Noise: 0.3

Peak table for sample 4 : H1

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	351	21.84	94.4		73.72
3	366	24.59	101.7		74.99
4	375	16.64	67.3		75.68
5	419	47.12	170.3		78.79
6	445	33.31	113.4		80.27
7	478	33.06	104.9		82.12
8	516	95.79	281.3		84.12
9	543	39.72	110.9		85.34
10	595	324.54	826.7		87.71
11	664	51.27	117.1		89.98
12	780	87.49	170.0		92.20
13	908	46.13	77.0		93.89
14	1,026	165.59	244.5		95.26
15	1,643	91.05	84.0		99.12
16	10,380	75.00	10.9	Upper Marker	113.00

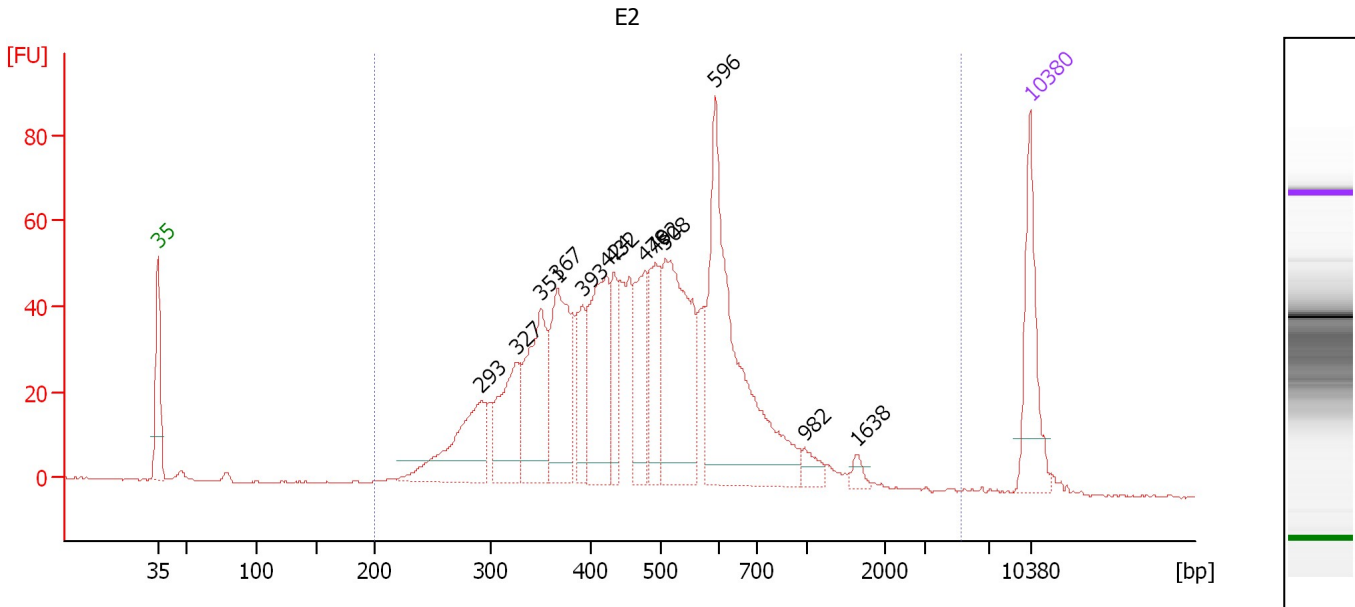
Region table for sample 4 : H1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	4,105	784	1,190.5	1,540.81	4,013.9	98	55.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

Created: 3/20/2018 1:41:15 PM
 Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : E2

Number of peaks found: 13 Corr. Area 1: 1,287.9
 Noise: 0.2

Peak table for sample 5 : E2

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	293	129.35	669.4		68.99
3	327	104.13	482.9		71.80
4	351	138.55	598.2		73.75
5	367	139.26	574.8		75.05
6	393	56.88	219.5		77.11
7	424	143.94	514.6		79.06
8	432	56.06	196.5		79.54
9	478	88.15	279.5		82.14
10	492	78.60	242.0		82.95
11	508	210.61	628.1		83.77
12	596	305.25	775.9		87.77
13	982	16.39	25.3		94.86
14	1,638	8.47	7.8		99.09
15	10,380	75.00	10.9	Upper Marker	113.00

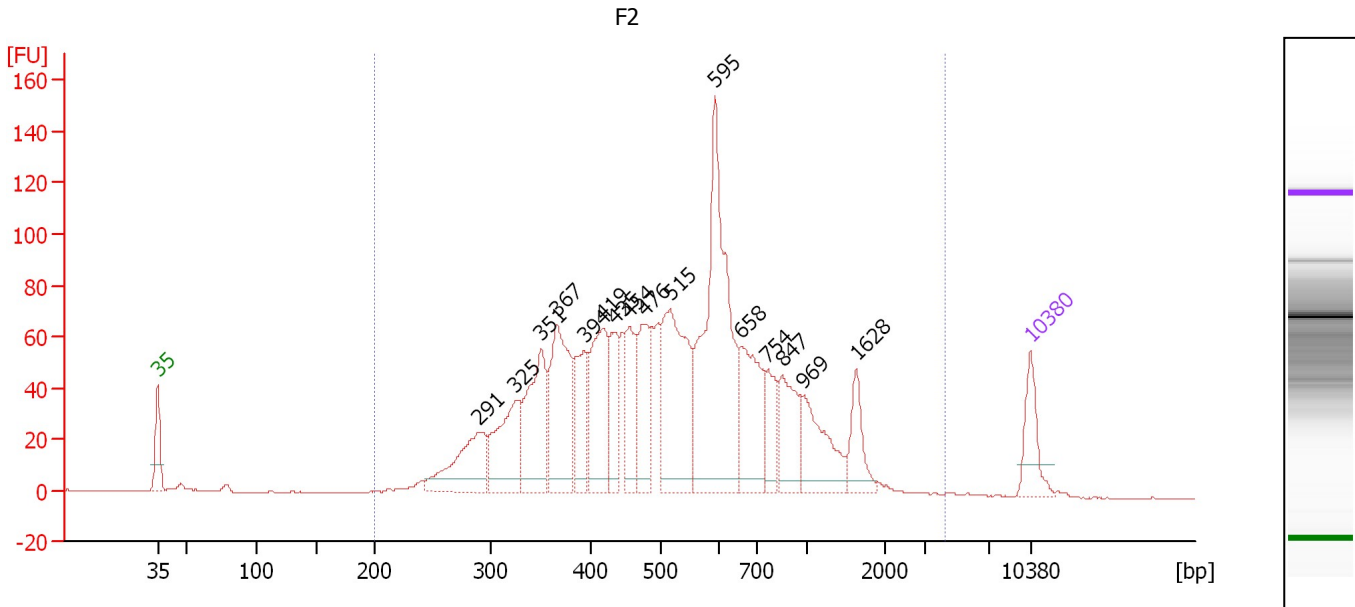
Region table for sample 5 : E2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	5,254	509	1,287.9	1,705.68	5,985.0	99	48.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

Created: 3/20/2018 1:41:15 PM
 Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : F2

Number of peaks found: 16 Corr. Area 1: 2,004.8
 Noise: 0.2

Peak table for sample 6 : F2

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	291	221.80	1,156.1		68.79
3	325	219.25	1,021.6		71.68
4	351	263.38	1,138.0		73.73
5	367	305.92	1,264.6		75.00
6	394	150.35	578.0		77.22
7	419	247.05	893.6		78.78
8	435	124.72	434.0		79.72
9	454	133.36	445.1		80.77
10	476	159.73	508.1		82.05
11	515	378.02	1,111.2		84.10
12	595	626.28	1,595.7		87.71
13	658	211.08	485.8		89.81
14	754	89.51	179.8		91.87
15	847	132.54	237.1		93.09
16	969	155.55	243.1		94.70
17	1,628	78.52	73.1		99.02
18	10,380	75.00	10.9	Upper Marker	113.00

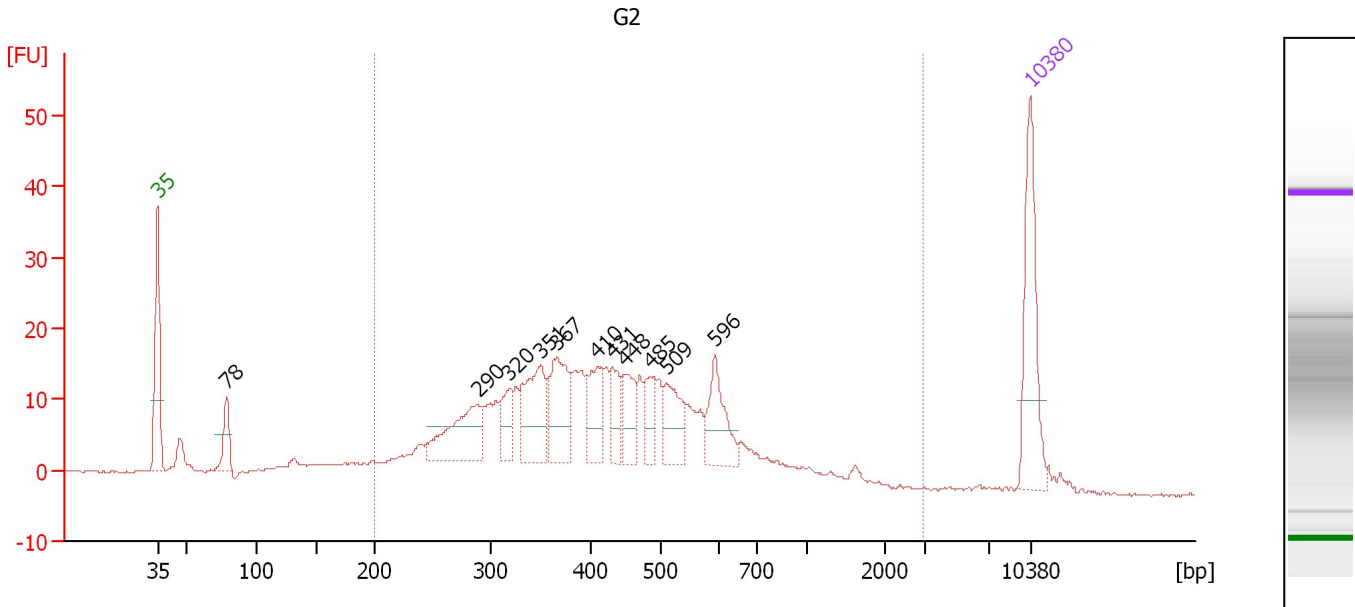
Region table for sample 6 : F2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	4,265	595	2,004.8	3,839.90	12,456.9	99	55.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

Created: 3/20/2018 1:41:15 PM
 Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : G2

Number of peaks found: 11 Corr. Area 1: 444.8
 Noise: 0.2

Peak table for sample 7 : G2

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	78	35.55	689.9		48.52
3	290	80.42	419.7		68.76
4	320	29.26	138.7		71.24
5	351	74.37	321.5		73.72
6	367	66.34	274.2		75.01
7	410	41.01	151.5		78.28
8	431	28.69	100.9		79.47
9	448	35.58	120.4		80.42
10	485	25.78	80.5		82.57
11	509	43.69	130.1		83.81
12	596	49.27	125.3		87.75
13	10,380	75.00	10.9	Upper Marker	113.00

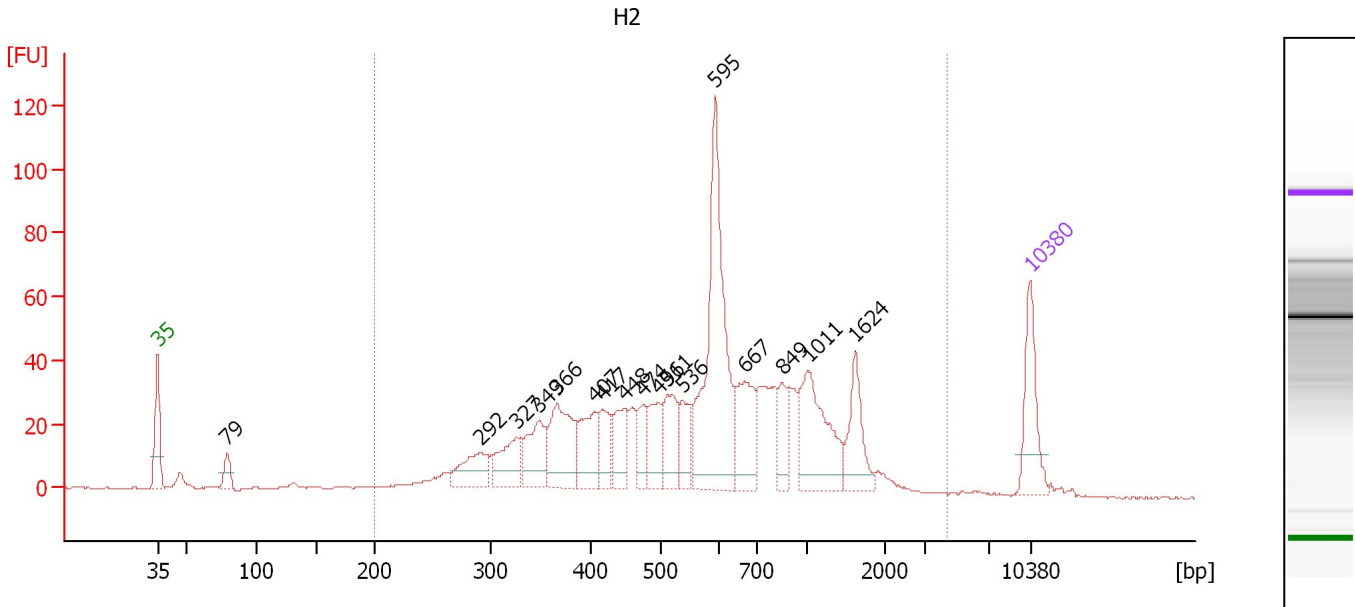
Region table for sample 7 : G2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	2,955	456	444.8	967.79	3,835.5	90	46.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

Created: 3/20/2018 1:41:15 PM
 Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : H2

Number of peaks found: 17 Corr. Area 1: 1,107.7
 Noise: 0.2

Peak table for sample 8 : H2

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	79	32.14	618.4		48.60
3	292	73.37	381.1		68.89
4	327	80.71	374.3		71.80
5	349	84.91	368.9		73.57
6	366	133.32	551.2		75.00
7	407	81.50	303.6		78.09
8	417	57.14	207.7		78.66
9	448	65.48	221.5		80.43
10	474	43.35	138.6		81.91
11	496	62.83	191.9		83.17
12	511	75.96	225.1		83.91
13	536	48.16	136.0		85.06
14	595	339.20	863.1		87.74
15	667	98.04	222.8		90.09
16	849	52.64	93.9		93.11
17	1,011	142.39	213.3		95.17
18	1,624	69.71	65.0		99.00
19	10,380	75.00	10.9	Upper Marker	113.00

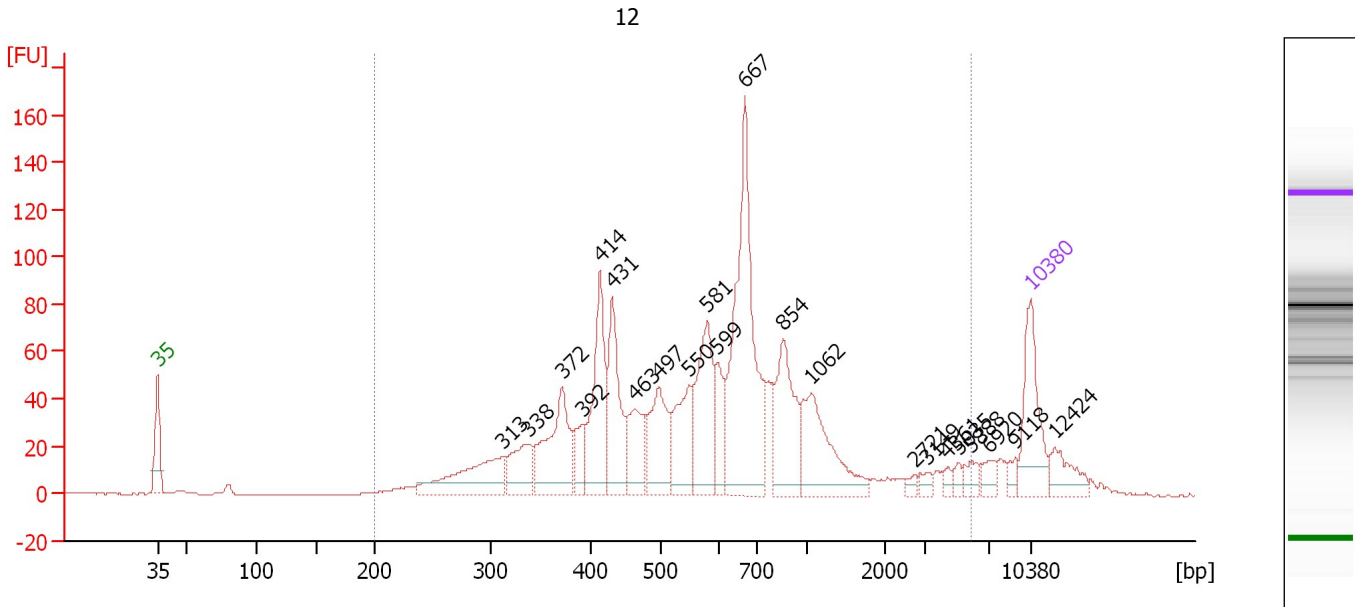
Region table for sample 8 : H2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	4,320	686	1,107.7	1,867.69	5,654.5	96	59.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

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 Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 12

Number of peaks found: 22 Corr. Area 1: 1,598.0
 Noise: 0.2

Peak table for sample 9 : 12


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	313	117.37	568.4		70.69
3	338	64.94	291.1		72.71
4	372	126.90	517.2		75.43
5	392	37.38	144.5		77.05
6	414	134.42	492.1		78.49
7	431	110.87	389.7		79.47
8	463	65.69	215.2		81.27
9	497	96.10	292.9		83.23
10	550	82.97	228.7		85.66
11	581	124.23	323.7		87.10
12	599	47.21	119.4		87.91
13	667	298.09	676.6		90.11
14	854	110.51	196.1		93.17
15	1,062	113.25	161.6		95.49
16	2,721	5.83	3.2		103.69
17	3,149	8.08	3.9		104.79
18	4,361	6.51	2.3		106.35
19	5,035	7.26	2.2		107.22
20	5,888	13.25	3.4		108.32
21	6,920	13.40	2.9		109.65
22	9,118	9.30	1.5		111.79
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,424	0.00	0.0		114.97

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

Created: 3/20/2018 1:41:15 PM
Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary Continued ...

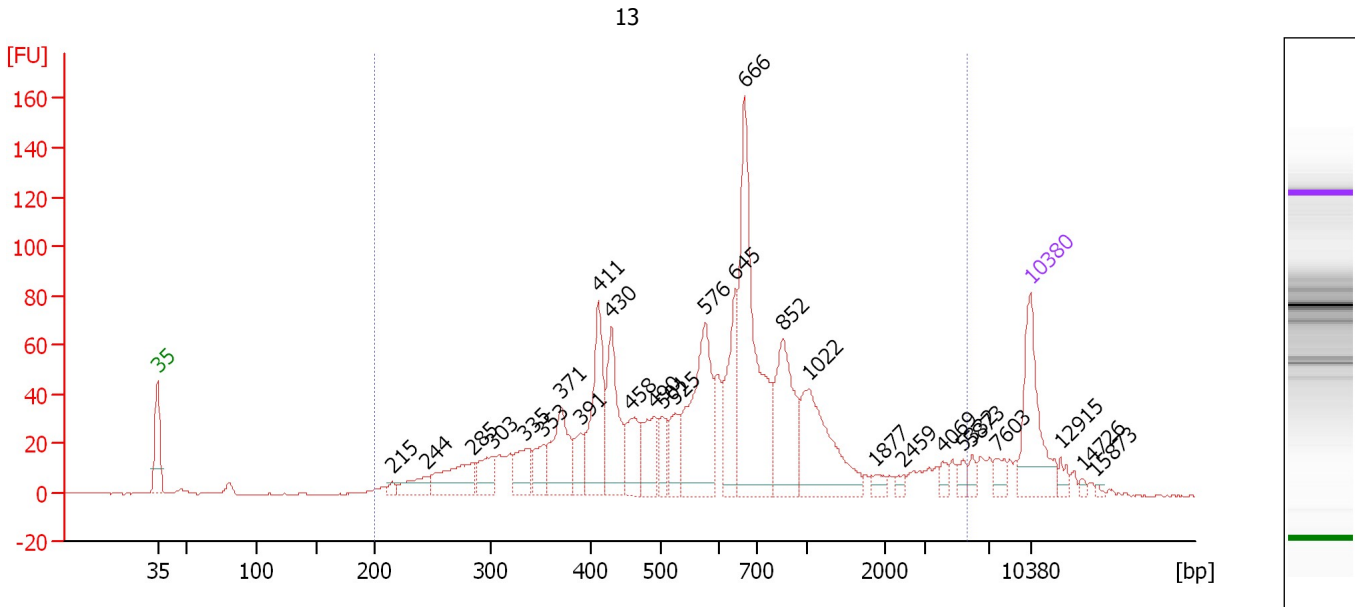
... Region table for sample 9 : 12

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	5,780	771	1,598.0	1,670.85	4,989.8	 93	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

Created: 3/20/2018 1:41:15 PM
 Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 13

Number of peaks found: 28 Corr. Area 1: 1,500.0
 Noise: 0.4

Peak table for sample 10 : 13

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	215	7.17	50.6		61.81
3	244	29.60	183.5		64.53
4	285	64.66	343.2		68.31
5	303	35.03	175.3		69.87
6	335	38.62	174.6		72.49
7	353	30.07	129.0		73.94
8	371	80.69	329.3		75.39
9	391	26.69	103.5		76.96
10	411	105.90	390.0		78.35
11	430	92.01	324.4		79.39
12	458	47.01	155.4		81.02
13	490	50.73	156.9		82.82
14	501	29.11	88.0		83.46
15	525	35.69	102.9		84.56
16	576	144.72	380.4		86.88
17	645	78.35	184.2		89.38
18	666	240.46	546.8		90.07
19	852	107.02	190.4		93.15
20	1,022	115.03	170.5		95.24
21	1,877	8.36	6.7		100.58
22	2,459	5.52	3.4		102.84
23	4,069	7.44	2.8		105.98
24	5,332	8.23	2.3		107.60
25	5,873	8.17	2.1		108.30

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

Created: 3/20/2018 1:41:15 PM
 Modified: 3/20/2018 2:25:54 PM

Electropherogram Summary Continued ...

... Peak table for sample 10 : 13

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	7,603	10.60	2.1		110.33
27	10,380	75.00	10.9	Upper Marker	113.00
28	12,915	0.00	0.0		115.44
29	14,726	0.00	0.0		117.18
30	15,873	0.00	0.0		118.28

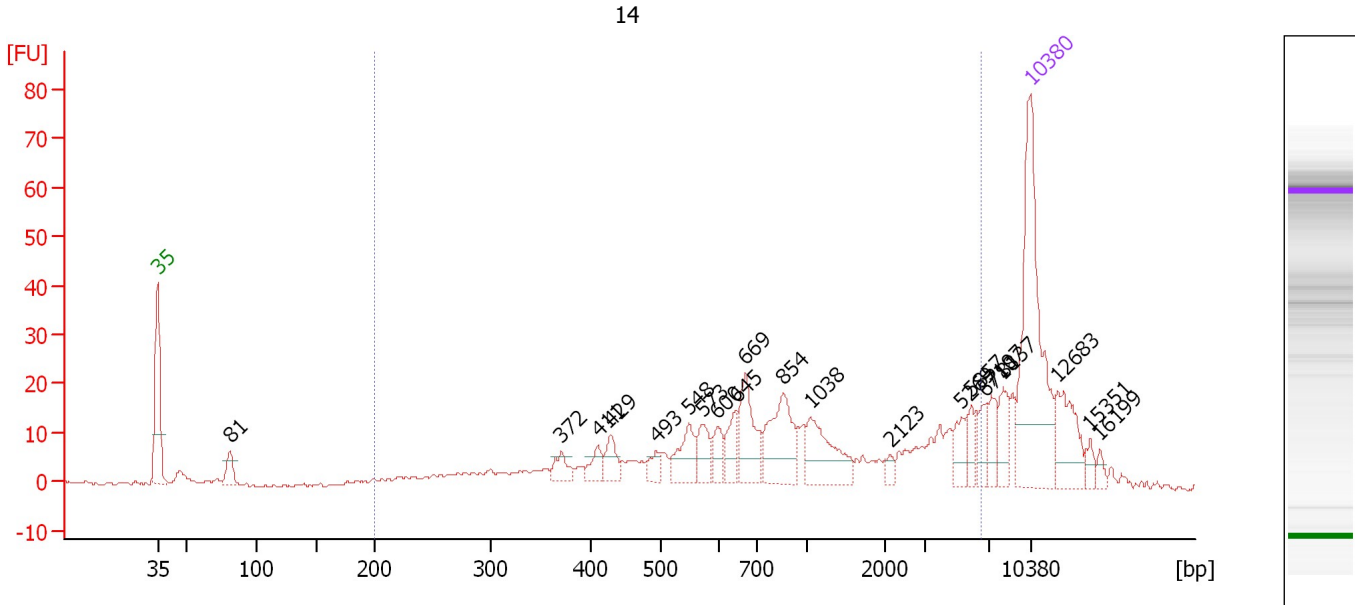
Region table for sample 10 : 13

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	5,542	794	1,500.0	1,516.94	4,553.2	93	97.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : 14

Number of peaks found: 21 Corr. Area 1: 402.1
 Noise: 0.4

Peak table for sample 11 : 14


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	11.74	220.1		48.83
3	372	8.66	35.3		75.41
4	411	8.62	31.8		78.32
5	429	11.06	39.0		79.37
6	493	6.97	21.4		82.98
7	548	17.97	49.6		85.61
8	573	12.60	33.3		86.71
9	600	9.45	23.9		87.94
10	645	12.77	30.0		89.39
11	669	28.31	64.1		90.15
12	854	35.91	63.7		93.18
13	1,038	28.40	41.4		95.34
14	2,123	3.16	2.3		101.75
15	5,269	9.69	2.8		107.52
16	5,857	7.72	2.0		108.28
17	6,718	8.72	2.0		109.39
18	7,107	8.87	1.9		109.85
19	8,137	11.24	2.1		110.84
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,683	0.00	0.0		115.21
22	15,351	0.00	0.0		117.78
23	16,199	0.00	0.0		118.60

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

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Electropherogram Summary Continued ...

... Region table for sample 11 : 14

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	6,515	1,537	402.1	355.97	884.4	 76	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-20\2018-03-20_005.xad

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Gel Image

