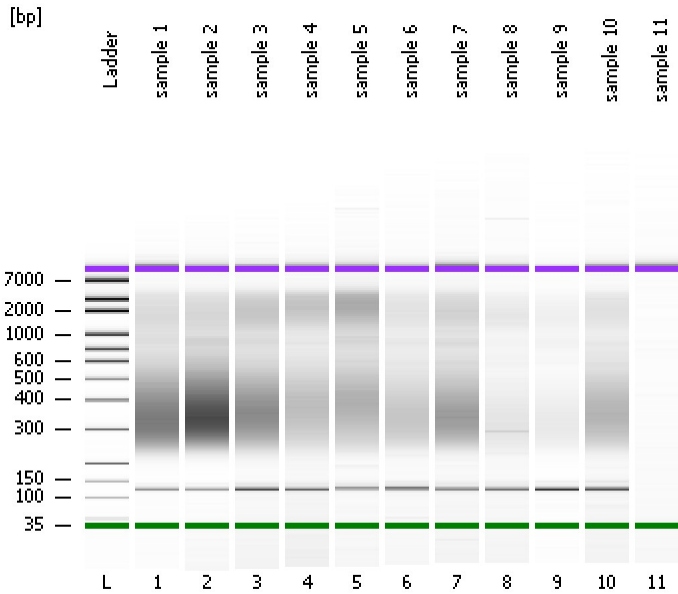


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
Modified: 4/30/2019 11:59:48 AM

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

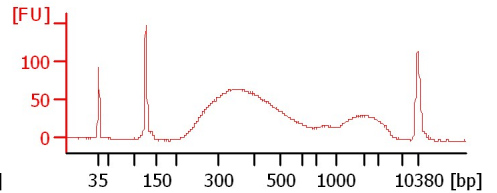
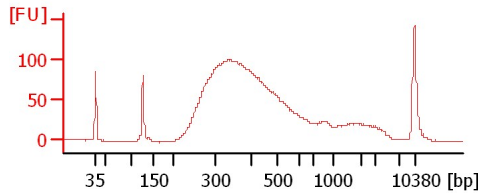
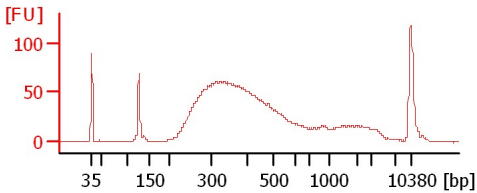
Chip Information:

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

sample 1

sample 2

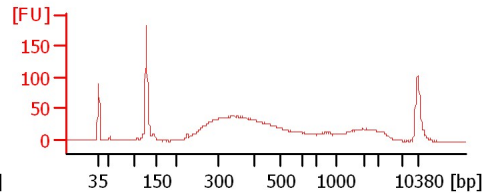
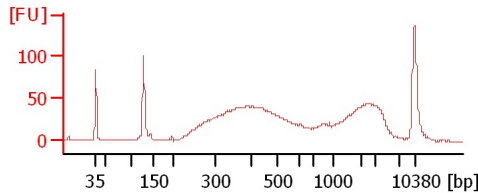
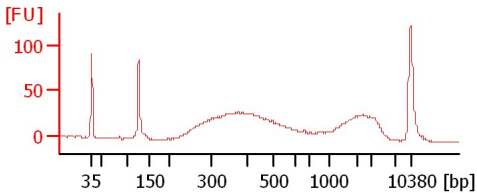
sample 3



sample 4

sample 5

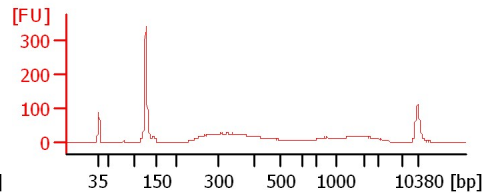
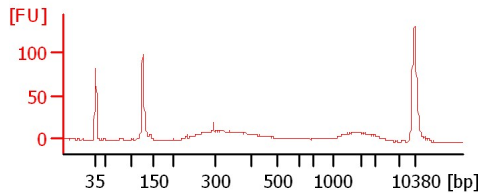
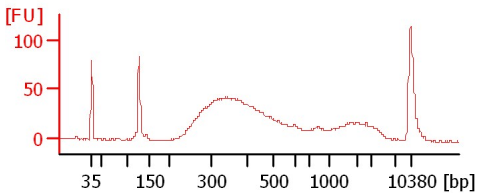
sample 6



sample 7

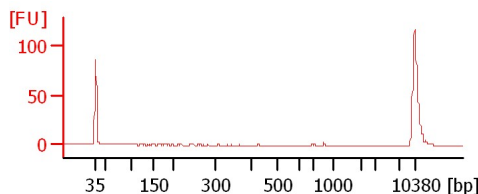
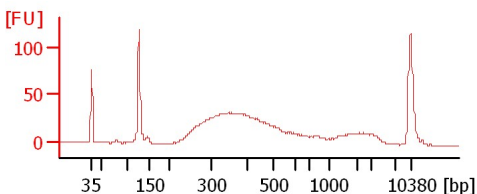
sample 8

sample 9



sample 10

sample 11



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
 Modified: 4/30/2019 11:59:48 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>	✓			
sample 7		<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 :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
Modified: 4/30/2019 11:59:48 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

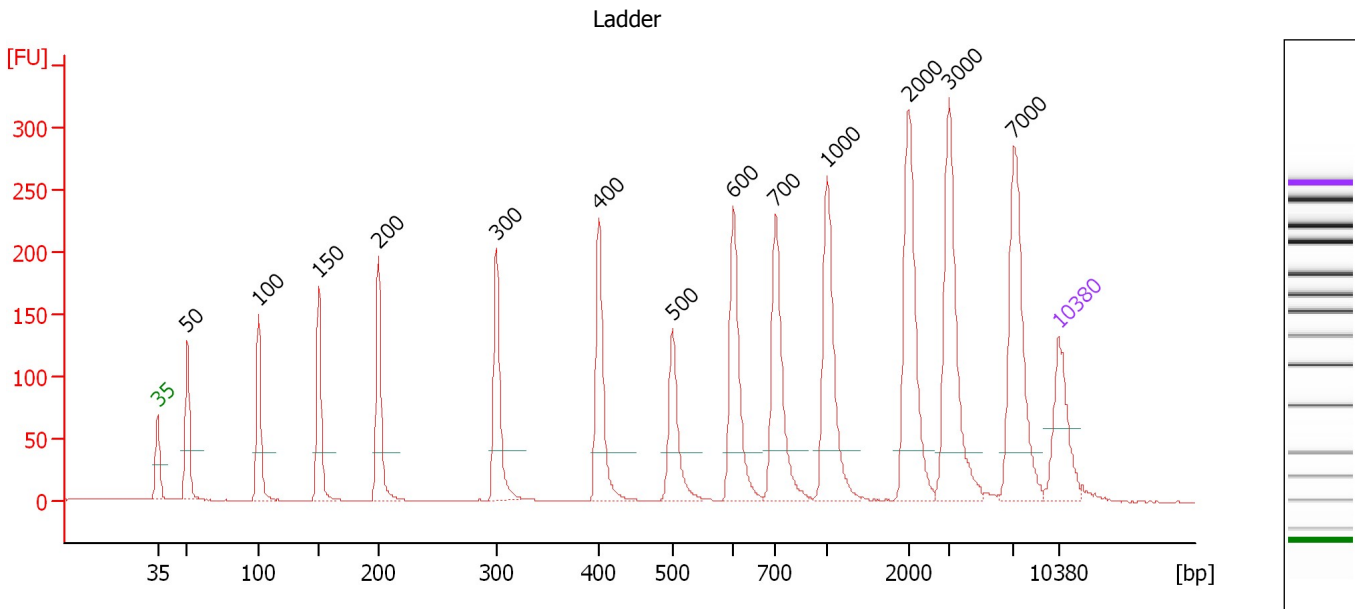
Ladder

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:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

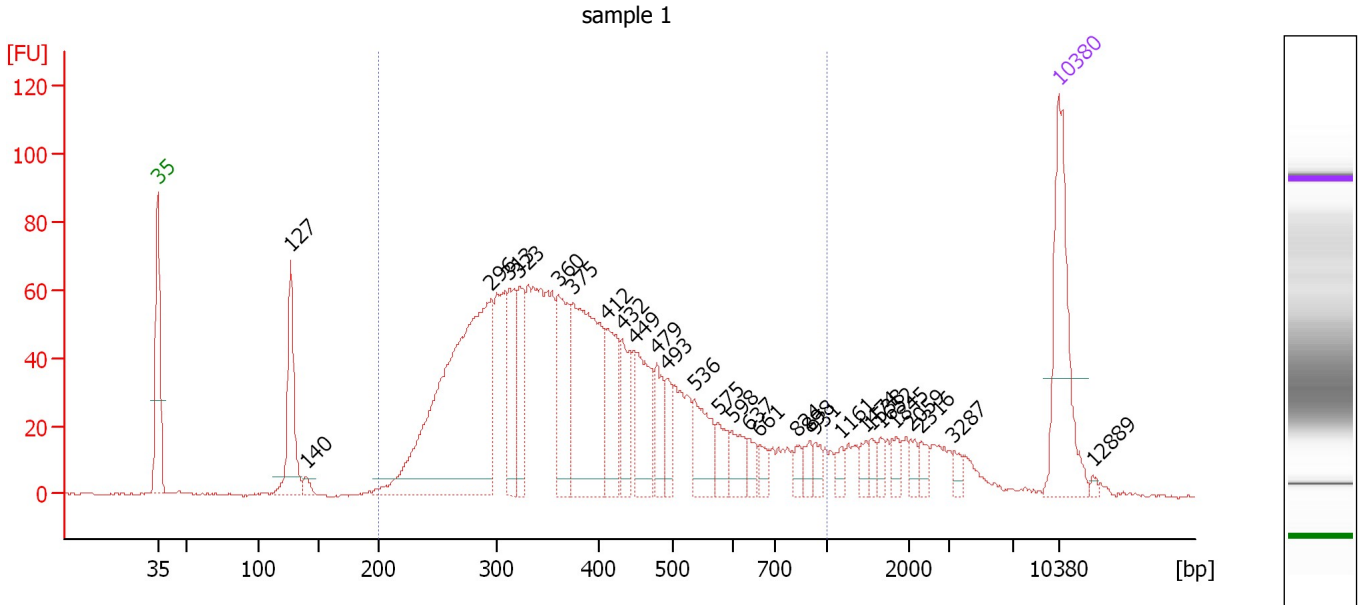
Peak table for Ladder

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	45.31
3	100	150.00	2,272.7	Ladder Peak	50.83
4	150	150.00	1,515.2	Ladder Peak	55.50
5	200	150.00	1,136.4	Ladder Peak	60.18
6	300	150.00	757.6	Ladder Peak	69.30
7	400	150.00	568.2	Ladder Peak	77.27
8	500	150.00	454.5	Ladder Peak	83.01
9	600	150.00	378.8	Ladder Peak	87.72
10	700	150.00	324.7	Ladder Peak	91.02
11	1,000	150.00	227.3	Ladder Peak	95.02
12	2,000	150.00	113.6	Ladder Peak	101.34
13	3,000	150.00	75.8	Ladder Peak	104.50
14	7,000	150.00	32.5	Ladder Peak	109.48
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
 Modified: 4/30/2019 11:59:48 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 29 Corr. Area 1: 1,673.8
 Noise: 0.4

Peak table for sample 1 : sample 1

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	87.95	1,050.0		53.35
3	140	6.85	74.2		54.56
4	296	353.63	1,811.7		68.91
5	313	59.49	287.8		70.35
6	323	48.29	226.7		71.12
7	360	71.37	300.3		74.09
8	375	159.78	645.0		75.30
9	412	55.95	205.8		77.96
10	432	36.42	127.8		79.08
11	449	59.59	201.2		80.07
12	479	30.47	96.5		81.78
13	493	19.29	59.3		82.59
14	536	39.88	112.7		84.70
15	575	18.06	47.6		86.55
16	598	19.63	49.7		87.63
17	637	11.51	27.4		88.93
18	661	9.31	21.3		89.74
19	824	9.01	16.6		92.67
20	898	9.21	15.6		93.66
21	931	8.35	13.6		94.11
22	1,161	6.80	8.9		96.04
23	1,474	7.69	7.9		98.02
24	1,538	6.56	6.5		98.42
25	1,652	6.07	5.6		99.14

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
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Electropherogram Summary Continued ...

... Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,845	7.75	6.4		100.36
27	2,059	6.79	5.0		101.53
28	2,316	7.28	4.8		102.34
29	3,287	6.16	2.8		104.86
30	10,380	75.00	10.9	Upper Marker	113.00
31	12,889	0.00	0.0		115.61

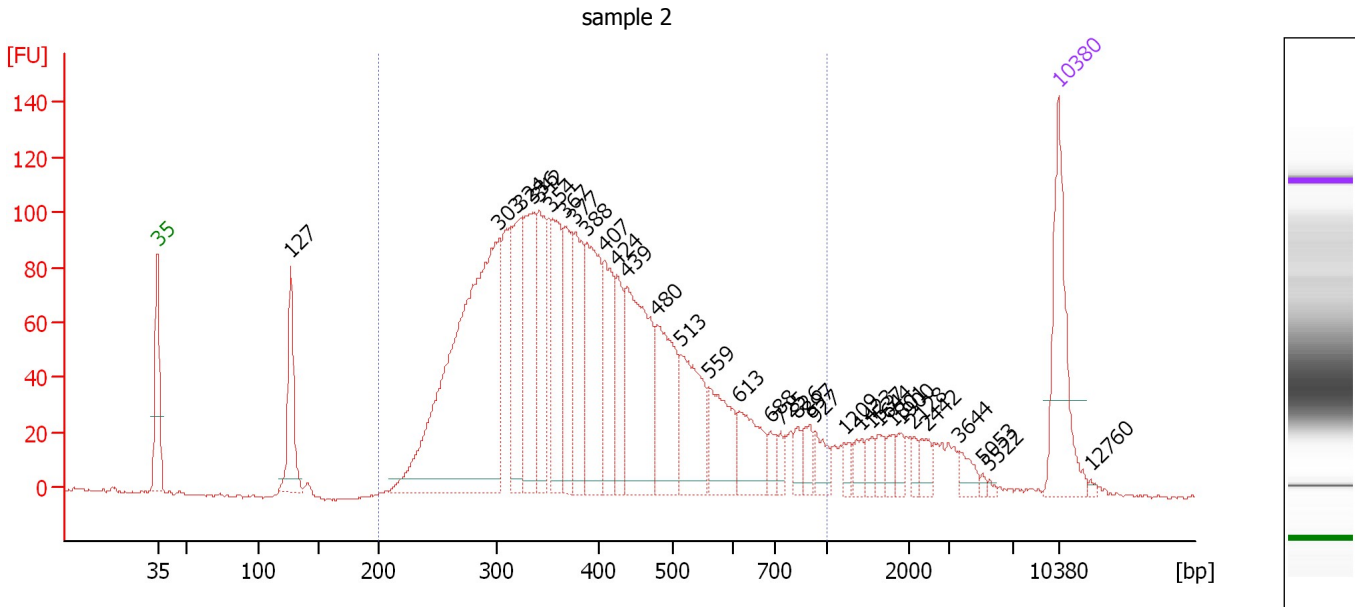
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	406	1,377.79	1,673.8	5,895.0	85	35.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 33 Corr. Area 1: 2,614.8
 Noise: 0.6

Peak table for sample 2 : sample 2

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	86.70	1,034.5		53.35
3	303	463.84	2,317.5		69.56
4	324	116.45	544.3		71.23
5	336	111.46	502.6		72.17
6	342	94.81	420.4		72.62
7	354	99.19	424.4		73.61
8	367	75.85	313.0		74.65
9	377	75.96	305.1		75.46
10	388	121.64	475.0		76.31
11	407	77.52	288.6		77.66
12	424	49.09	175.3		78.65
13	439	148.84	513.6		79.51
14	480	94.63	298.8		81.85
15	513	85.69	253.2		83.60
16	559	61.51	166.6		85.81
17	613	47.69	117.9		88.15
18	688	13.11	28.9		90.63
19	725	9.77	20.4		91.35
20	826	11.55	21.2		92.70
21	897	15.16	25.6		93.64
22	927	17.33	28.3		94.05
23	1,209	7.43	9.3		96.34
24	1,423	11.22	11.9		97.69
25	1,537	9.29	9.2		98.41

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
 Modified: 4/30/2019 11:59:48 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,644	10.04	9.3		99.09
27	1,801	8.78	7.4		100.08
28	1,900	9.31	7.4		100.71
29	2,128	6.54	4.7		101.75
30	2,442	12.10	7.5		102.74
31	3,644	11.14	4.6		105.30
32	5,053	2.16	0.6		107.06
33	5,522	1.92	0.5		107.64
34	10,380	75.00	10.9	Upper Marker	113.00
35	12,760	0.00	0.0		115.48

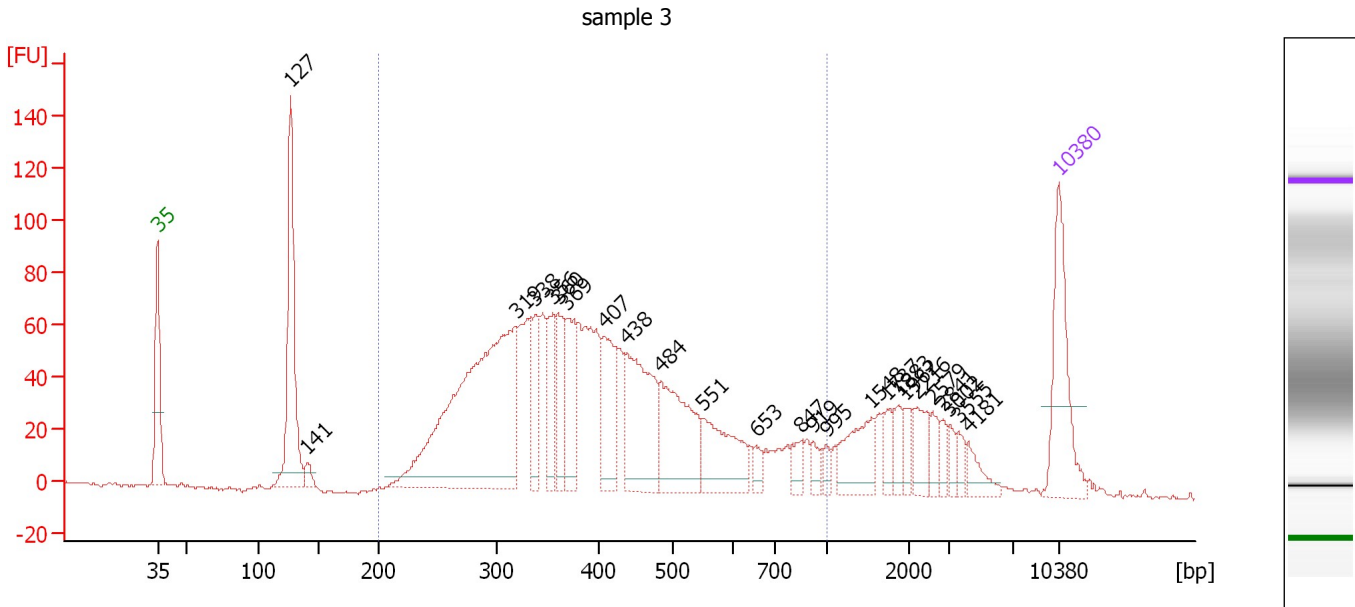
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	414	1,957.61	2,614.8	8,149.6	88	34.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
 Modified: 4/30/2019 11:59:48 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 25 Corr. Area 1: 1,749.1
 Noise: 0.6

Peak table for sample 3 : sample 3

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	190.78	2,280.0		53.33
3	141	11.80	127.2		54.62
4	319	414.39	1,966.6		70.83
5	338	47.85	214.3		72.35
6	356	46.18	196.8		73.73
7	360	52.69	221.6		74.10
8	369	64.01	262.9		74.78
9	407	73.95	275.2		77.68
10	438	126.88	439.3		79.42
11	484	115.23	360.7		82.09
12	551	74.68	205.5		85.40
13	653	9.98	23.1		89.48
14	847	15.92	28.5		92.97
15	919	11.94	19.7		93.94
16	995	8.64	13.2		94.95
17	1,548	45.23	44.3		98.49
18	1,737	15.53	13.5		99.68
19	1,883	15.72	12.7		100.60
20	1,962	11.72	9.1		101.10
21	2,216	23.66	16.2		102.02
22	2,579	13.73	8.1		103.17
23	2,841	9.74	5.2		104.00
24	3,002	9.48	4.8		104.50
25	3,555	8.39	3.6		105.19

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
 Modified: 4/30/2019 11:59:48 AM

Electropherogram Summary Continued ...

... Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,181	15.68	5.7		105.97
27	10,380	75.00	10.9	Upper Marker	113.00

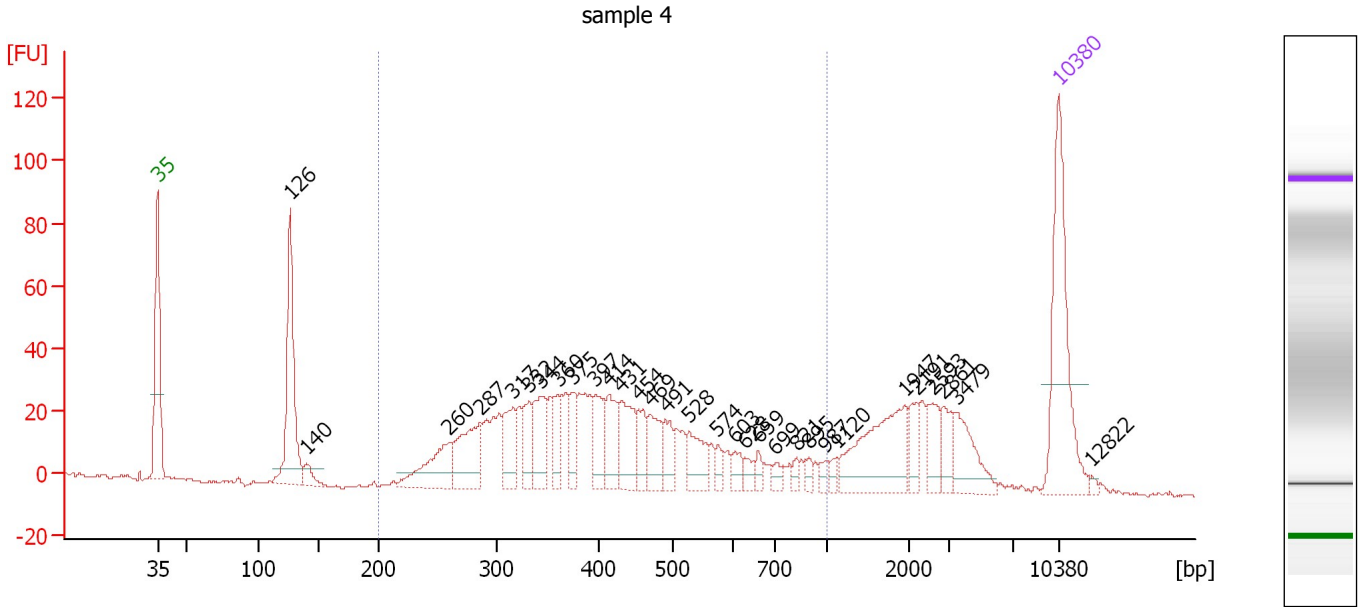
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	420	1,437.78	1,749.1	5,936.6	 76	35.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 31 Corr. Area 1: 746.4
 Noise: 0.6

Peak table for sample 4 : sample 4

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	126	110.76	1,327.4		53.30
3	140	10.88	117.8		54.57
4	260	45.55	265.2		65.67
5	287	50.03	264.5		68.07
6	317	31.52	150.6		70.66
7	332	21.67	99.0		71.84
8	344	34.45	151.6		72.83
9	360	19.30	81.2		74.10
10	375	19.28	77.9		75.27
11	397	24.51	93.6		77.01
12	414	28.79	105.3		78.09
13	431	34.64	121.8		79.03
14	454	18.54	61.9		80.35
15	469	24.77	80.0		81.25
16	491	17.26	53.2		82.52
17	528	24.63	70.7		84.30
18	574	6.69	17.6		86.51
19	603	8.48	21.3		87.83
20	628	6.29	15.2		88.63
21	659	5.87	13.5		89.67
22	699	5.33	11.5		90.98
23	821	4.41	8.1		92.63
24	895	4.66	7.9		93.62
25	987	4.16	6.4		94.84

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
 Modified: 4/30/2019 11:59:48 AM

Electropherogram Summary Continued ...

... Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,120	4.45	6.0		95.78
27	1,947	58.57	45.6		101.00
28	2,191	13.05	9.0		101.94
29	2,593	14.83	8.7		103.22
30	2,861	14.57	7.7		104.06
31	3,479	25.78	11.2		105.10
32	10,380	75.00	10.9	Upper Marker	113.00
33	12,822	0.00	0.0		115.54

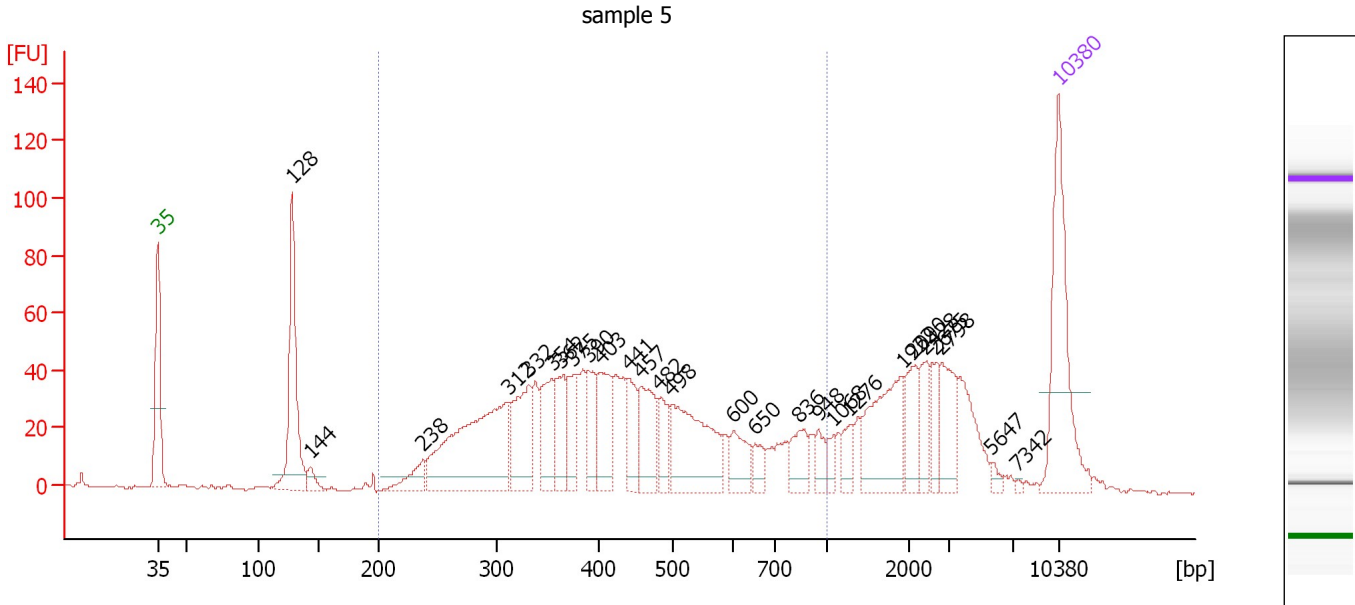
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	432	563.76	746.4	2,251.8	 67	34.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 27 Corr. Area 1: 1,148.5
 Noise: 0.4

Peak table for sample 5 : sample 5

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	128	118.35	1,400.6		53.45
3	144	9.91	104.6		54.91
4	238	20.02	127.3		63.66
5	312	154.12	748.0		70.27
6	332	60.16	274.8		71.83
7	354	41.03	175.5		73.63
8	362	36.77	153.8		74.26
9	375	25.45	102.8		75.28
10	390	30.83	119.9		76.44
11	403	40.00	150.2		77.47
12	441	27.93	96.0		79.60
13	457	42.83	142.1		80.53
14	482	21.42	67.3		81.99
15	498	81.45	247.6		82.91
16	600	22.19	56.0		87.72
17	650	12.03	28.0		89.38
18	836	21.01	38.1		92.83
19	948	10.46	16.7		94.33
20	1,068	8.20	11.6		95.45
21	1,276	12.28	14.6		96.76
22	1,922	54.87	43.3		100.85
23	2,090	23.49	17.0		101.63
24	2,428	17.95	11.2		102.69
25	2,675	14.76	8.4		103.47

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

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Electropherogram Summary Continued ...

... Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,798	29.00	15.7		103.86
27	5,647	3.76	1.0		107.80
28	7,342	1.28	0.3		109.84
29	10,380	75.00	10.9	Upper Marker	113.00

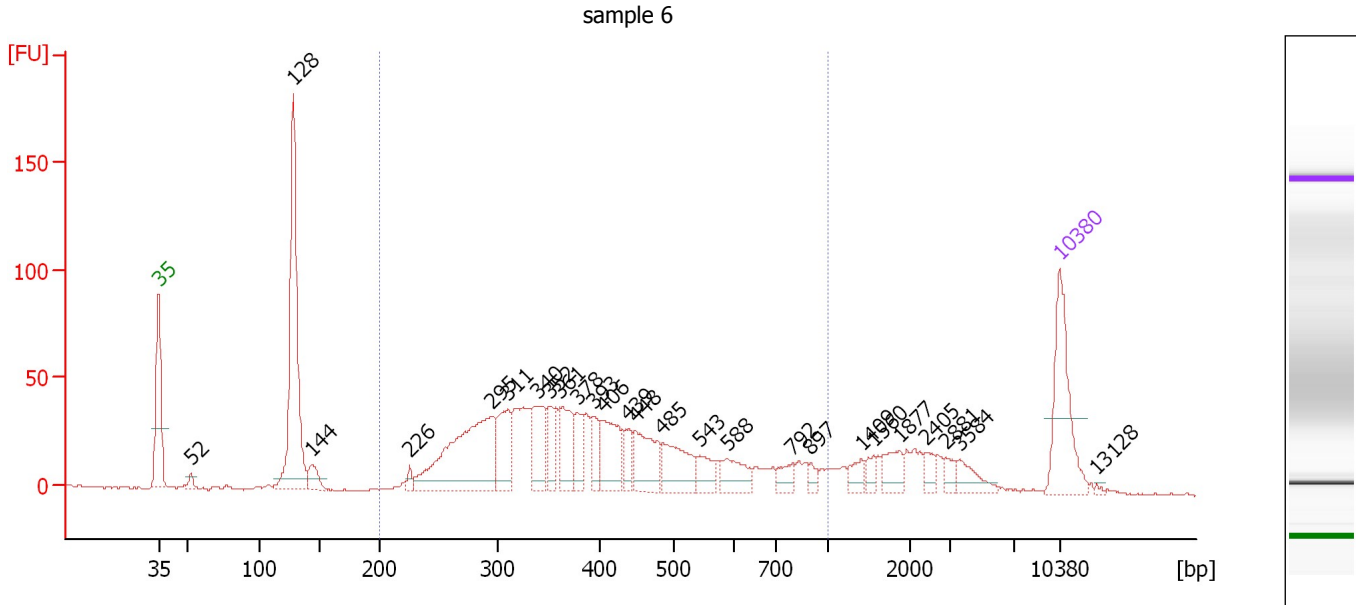
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	452	783.77	1,148.5	3,070.1	65	36.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
 Modified: 4/30/2019 11:59:48 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 26 Corr. Area 1: 1,003.8
 Noise: 0.5

Peak table for sample 6 : sample 6

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	52	7.25	212.3		45.51
3	128	276.72	3,267.1		53.48
4	144	22.44	236.2		54.93
5	226	8.32	55.9		62.51
6	295	202.19	1,037.3		68.87
7	311	59.10	287.9		70.18
8	340	61.88	275.8		72.48
9	352	32.47	139.8		73.44
10	361	52.42	219.8		74.19
11	378	30.54	122.5		75.49
12	393	27.87	107.3		76.75
13	406	61.09	228.1		77.60
14	439	22.41	77.3		79.50
15	448	60.11	203.4		80.01
16	485	57.44	179.4		82.16
17	543	23.62	65.9		85.02
18	588	30.44	78.4		87.18
19	792	15.04	28.8		92.24
20	897	7.96	13.4		93.64
21	1,409	13.48	14.5		97.61
22	1,560	9.78	9.5		98.56
23	1,877	20.95	16.9		100.56
24	2,405	11.16	7.0		102.62
25	2,881	9.05	4.8		104.12

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

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Electropherogram Summary Continued ...

... Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,584	19.24	8.1		105.23
27	10,380	75.00	10.9	Upper Marker	113.00
28	13,128	0.00	0.0		115.86

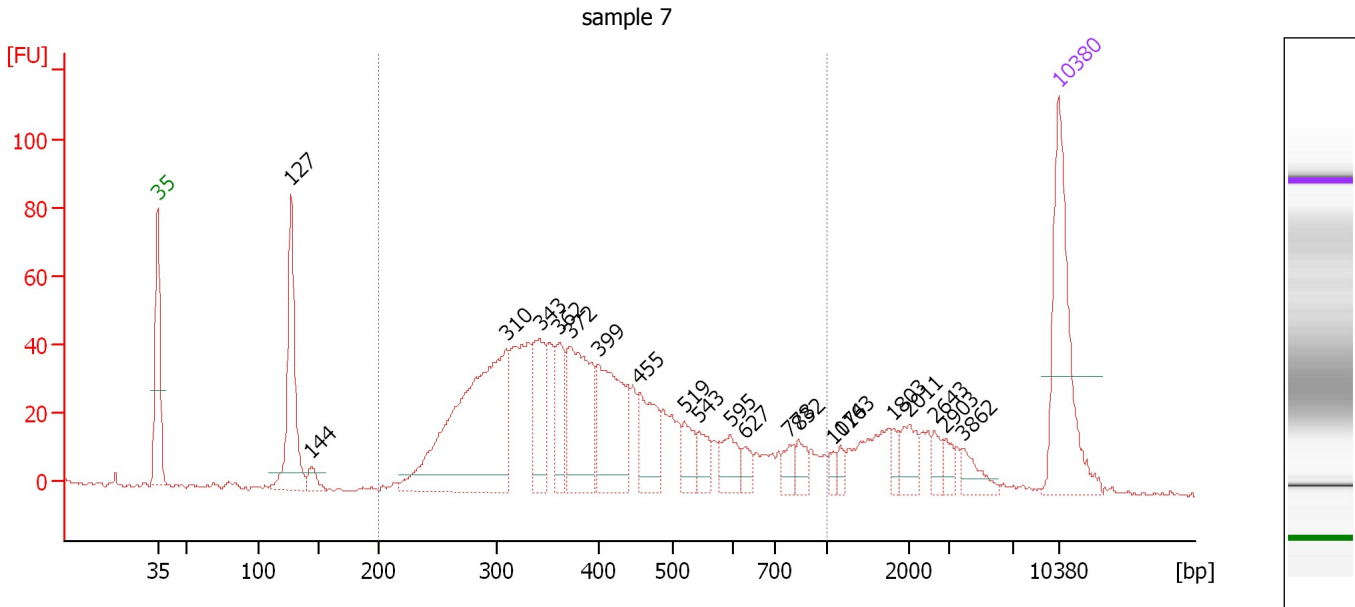
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	422	923.82	1,003.8	3,829.0	69	36.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 21 Corr. Area 1: 1,049.5
 Noise: 0.5

Peak table for sample 7 : sample 7

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	108.91	1,295.0		53.40
3	144	10.23	107.8		54.93
4	310	224.81	1,099.2		70.09
5	343	53.03	234.5		72.70
6	362	33.59	140.6		74.24
7	372	89.98	366.3		75.06
8	399	84.06	319.0		77.21
9	455	41.39	137.8		80.43
10	519	18.30	53.4		83.91
11	543	15.48	43.2		85.04
12	595	20.06	51.1		87.50
13	627	8.93	21.6		88.63
14	778	9.37	18.3		92.06
15	832	10.76	19.6		92.77
16	1,074	5.02	7.1		95.49
17	1,163	5.35	7.0		96.05
18	1,803	6.88	5.8		100.10
19	2,011	15.49	11.7		101.38
20	2,643	7.78	4.5		103.37
21	2,903	6.82	3.6		104.19
22	3,862	11.62	4.6		105.57
23	10,380	75.00	10.9	Upper Marker	113.00


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

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Electropherogram Summary Continued ...

... Region table for sample 7 :

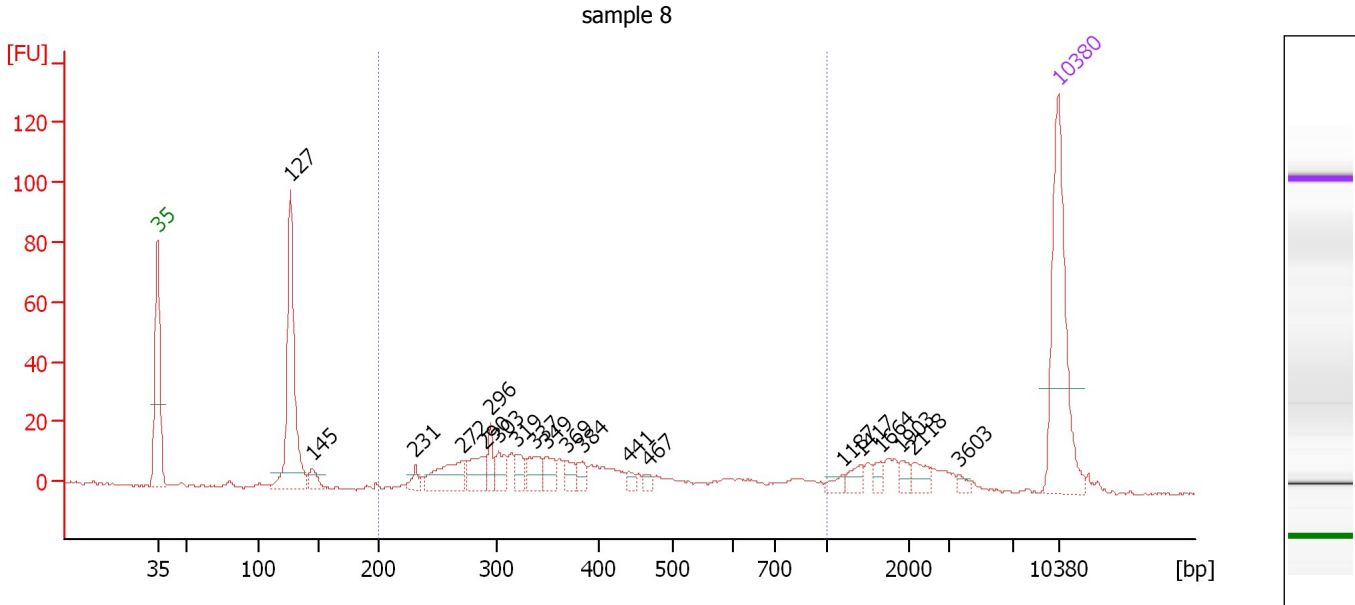
sample 7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	419	792.04	1,049.5	3,272.6	 77	35.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 20 Corr. Area 1: 257.3
 Noise: 0.3

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	127	129.21	1,542.3		53.35
3	145	10.17	106.5		55.01
4	231	6.61	43.3		63.02
5	272	30.91	172.4		66.71
6	290	19.91	104.1		68.38
7	296	13.31	68.2		68.90
8	303	12.58	63.0		69.52
9	319	10.49	49.8		70.82
10	337	14.69	66.1		72.23
11	349	12.15	52.7		73.22
12	369	9.27	38.1		74.78
13	384	7.61	30.0		75.97
14	441	4.44	15.3		79.61
15	467	4.06	13.2		81.12
16	1,187	4.28	5.5		96.20
17	1,417	6.39	6.8		97.66
18	1,664	4.77	4.3		99.22
19	1,903	4.69	3.7		100.73
20	2,118	7.90	5.6		101.71
21	3,603	2.57	1.1		105.25
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

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Electropherogram Summary Continued ...

... Region table for sample 8 :

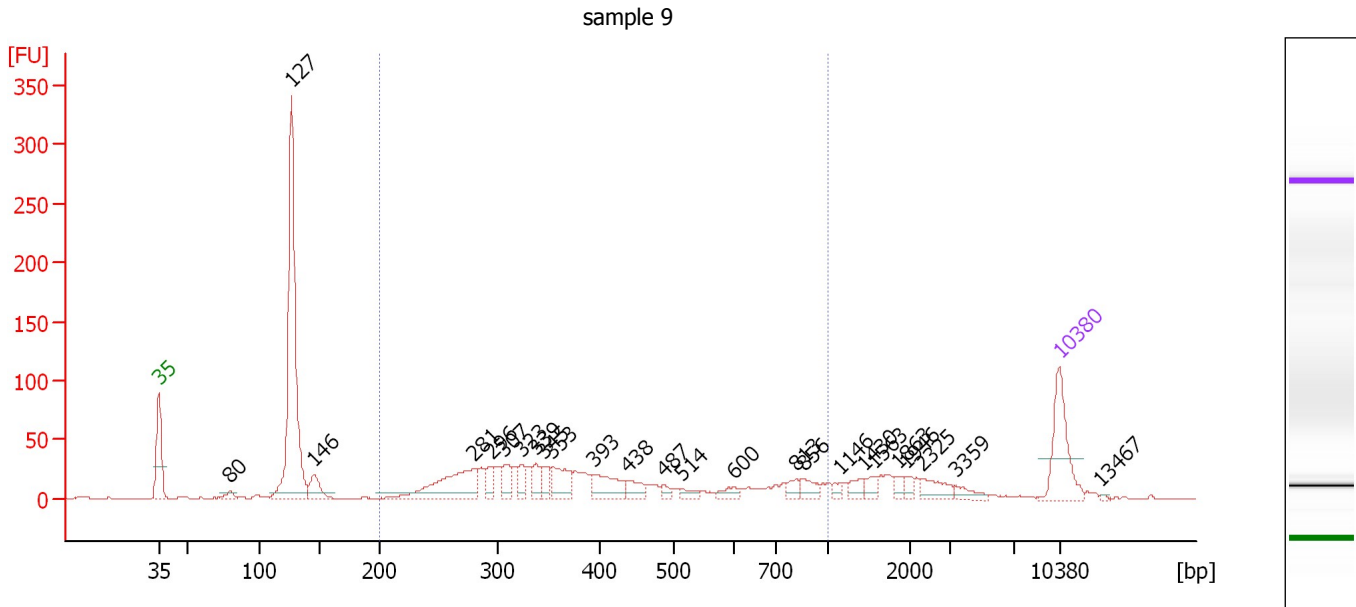
sample 8

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	402	203.41	257.3	890.3	 53	38.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 25 Corr. Area 1: 699.8
 Noise: 0.6

Peak table for sample 9 : sample 9

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	10.82	206.0		48.58
3	127	501.28	6,000.4		53.32
4	146	39.54	411.2		55.11
5	281	127.68	689.5		67.53
6	296	27.40	140.2		68.95
7	307	34.30	169.4		69.84
8	323	25.18	118.0		71.16
9	339	26.33	117.9		72.37
10	345	23.21	101.9		72.89
11	353	51.78	222.2		73.53
12	393	52.55	202.4		76.74
13	438	23.80	82.2		79.47
14	487	8.60	26.8		82.26
15	514	12.51	36.9		83.68
16	600	13.93	35.2		87.74
17	813	13.56	25.3		92.53
18	856	18.19	32.2		93.11
19	1,146	7.89	10.4		95.95
20	1,430	13.68	14.5		97.74
21	1,563	12.60	12.2		98.58
22	1,863	8.59	7.0		100.47
23	1,946	9.59	7.5		101.00
24	2,325	23.59	15.4		102.37
25	3,359	12.31	5.6		104.95

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

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Electropherogram Summary Continued ...

... Peak table for sample 9 : sample 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00
27	13,467	0.00	0.0		116.21

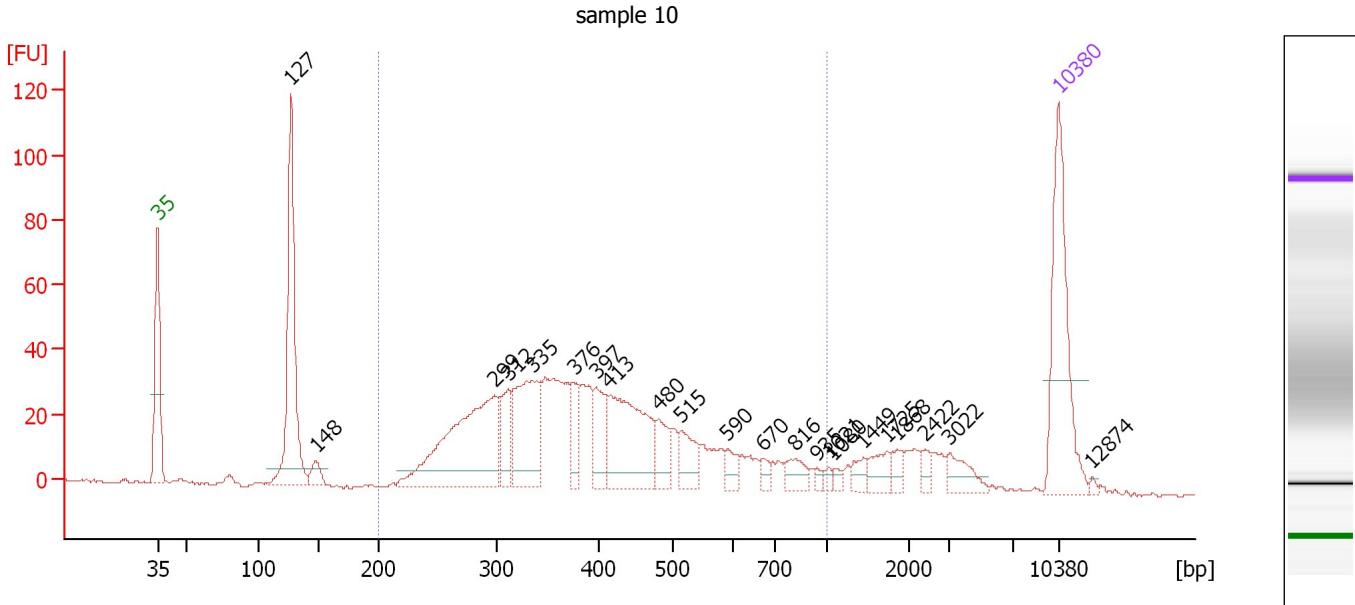
Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	426	627.65	699.8	2,676.8	51	42.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 22 Corr. Area 1: 813.4
 Noise: 0.4

Peak table for sample 10 : sample 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	127	158.46	1,886.9		53.38
3	148	11.97	122.8		55.28
4	299	151.61	768.2		69.21
5	312	31.59	153.6		70.22
6	335	81.03	366.0		72.12
7	376	24.88	100.3		75.35
8	397	33.06	126.1		77.05
9	413	90.79	333.2		78.00
10	480	23.72	74.8		81.87
11	515	22.85	67.2		83.72
12	590	9.90	25.4		87.27
13	670	5.91	13.4		90.02
14	816	12.98	24.1		92.56
15	935	3.43	5.6		94.15
16	1,021	3.31	4.9		95.16
17	1,080	3.34	4.7		95.53
18	1,449	7.70	8.1		97.86
19	1,725	11.58	10.2		99.60
20	1,868	7.28	5.9		100.50
21	2,422	4.90	3.1		102.67
22	3,022	13.98	7.0		104.53
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,874	0.00	0.0		115.59

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

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Electropherogram Summary Continued ...

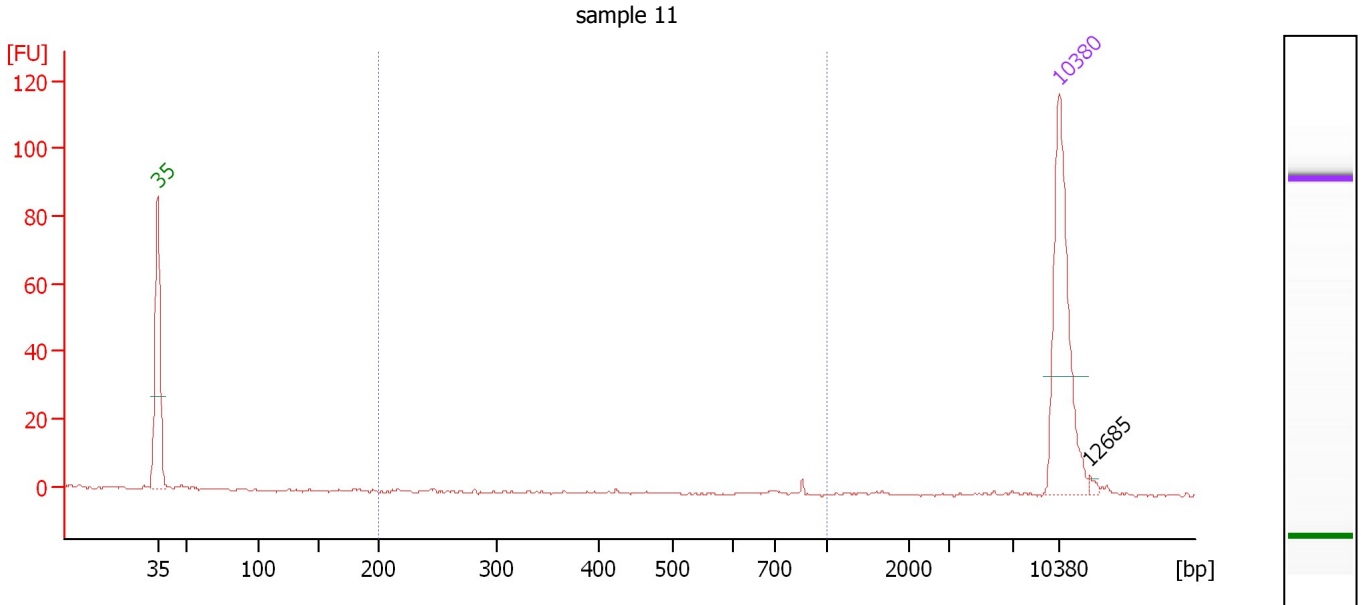
... Region table for sample 10 : sample 10

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	416	650.61	813.4	2,683.5	 74	33.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 1 Corr. Area 1: 2.0
 Noise: 0.4

Peak table for sample 11 : sample 11

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
3	12,685	0.00	0.0		115.40

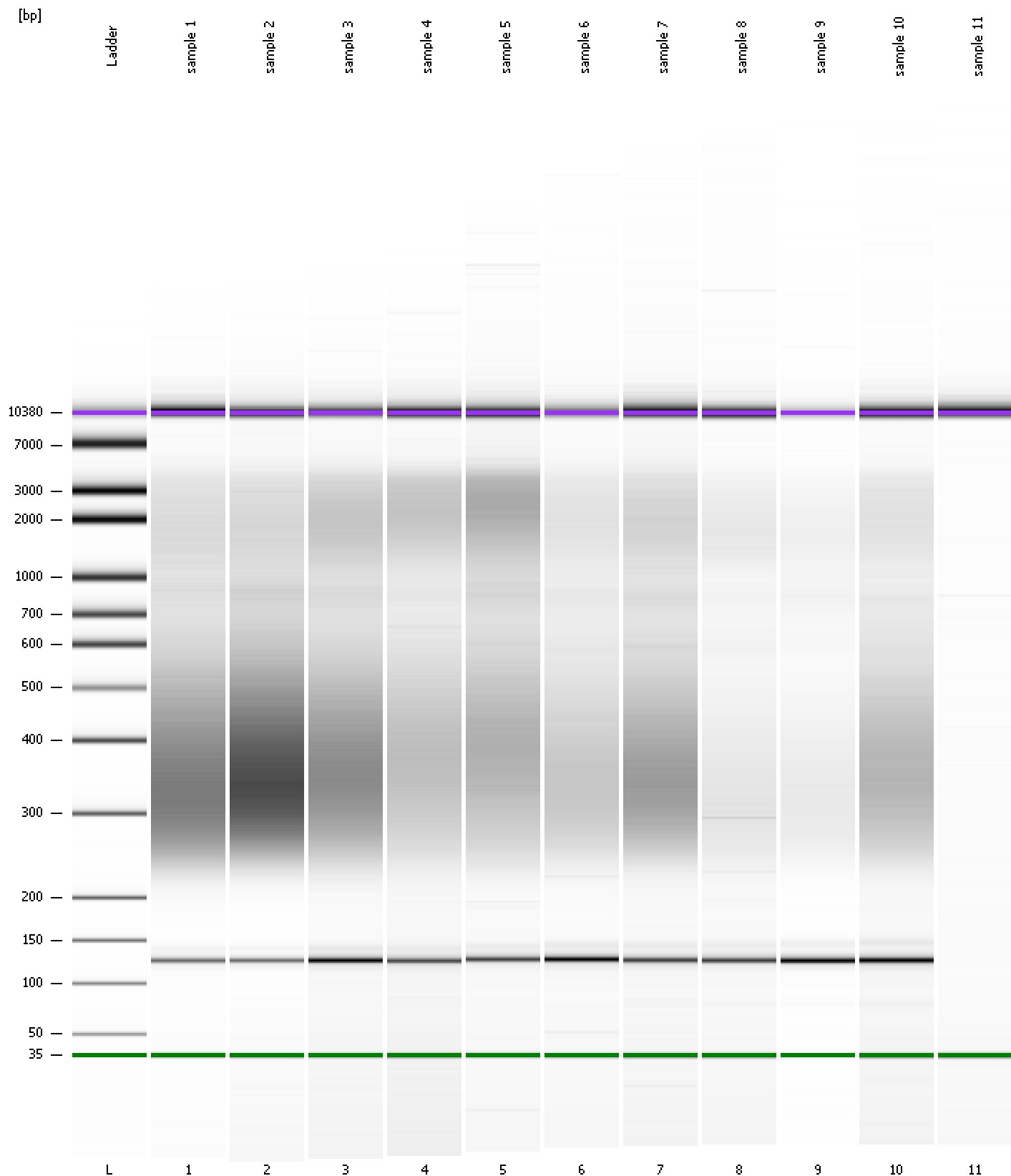
Region table for sample 11 : sample 11

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	697	1.50	2.0	4.3	13	30.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
Modified: 4/30/2019 11:59:48 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-30\2019-04-30_002.xad

Created: 4/30/2019 11:19:19 AM
 Modified: 4/30/2019 11:59:48 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		4/30/2019 11:59:48 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\2019-04-30\2019-04-30_002.xad)		Instrument	Run		4/30/2019 11:19:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/30/2019 11:19:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/30/2019 11:19:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/30/2019 11:19:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/30/2019 11:19:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/30/2019 11:19:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/30/2019 11:19:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1