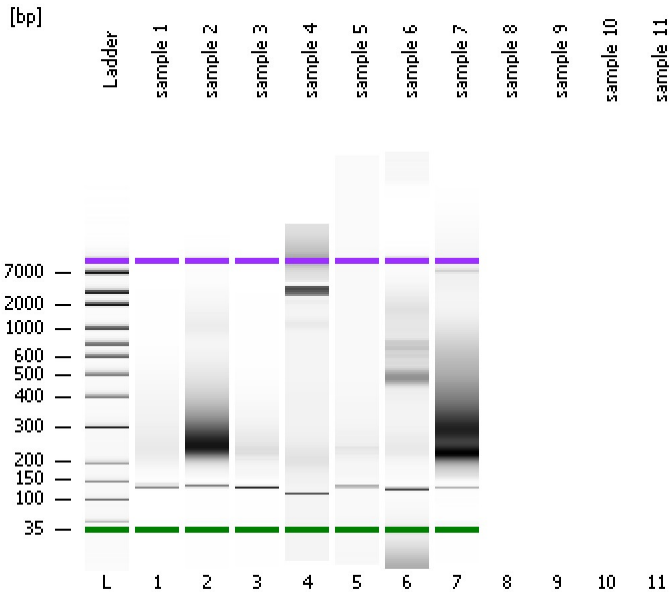


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
Modified: 2/28/2018 11:04:20 AM

Electrophoresis File Run Summary



Instrument Information:

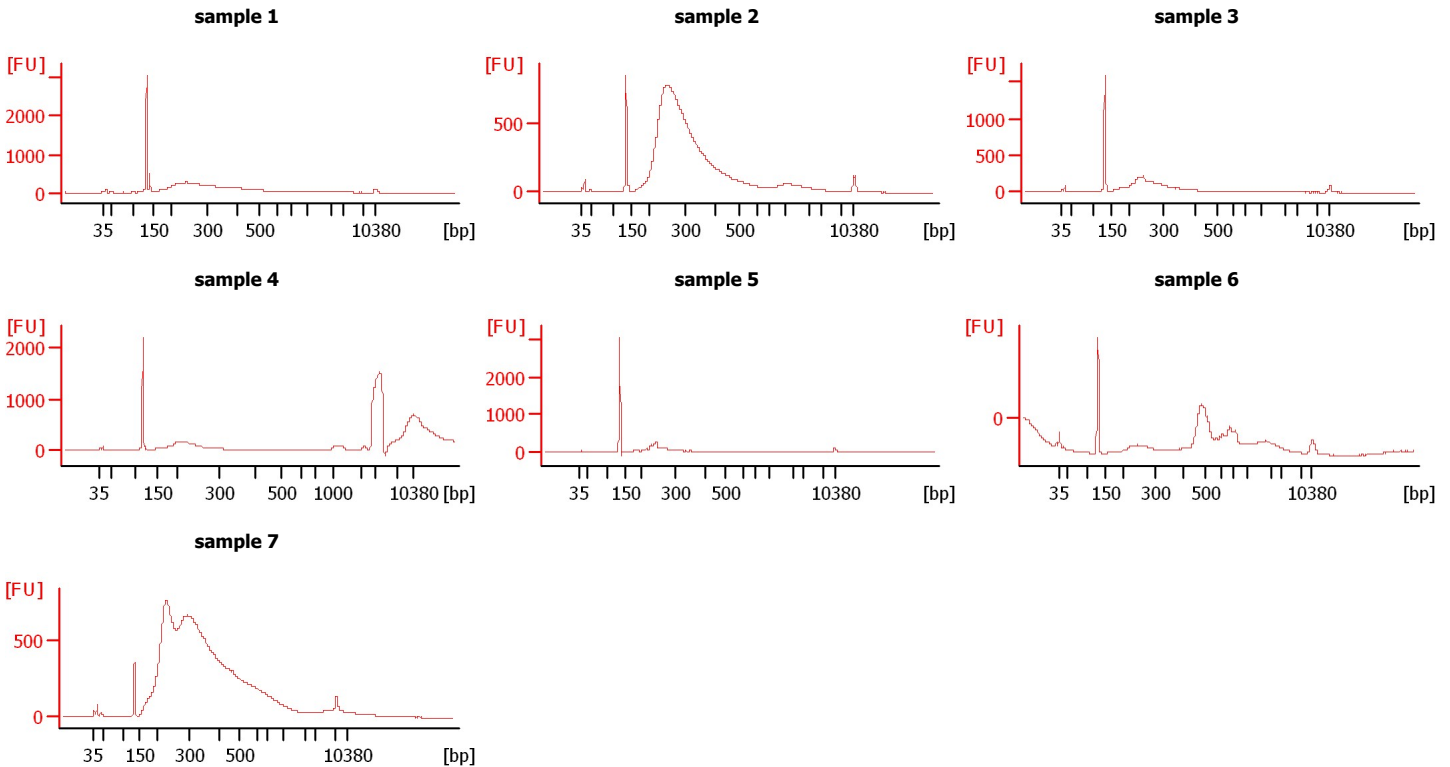
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
 Modified: 2/28/2018 11:04:20 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 #

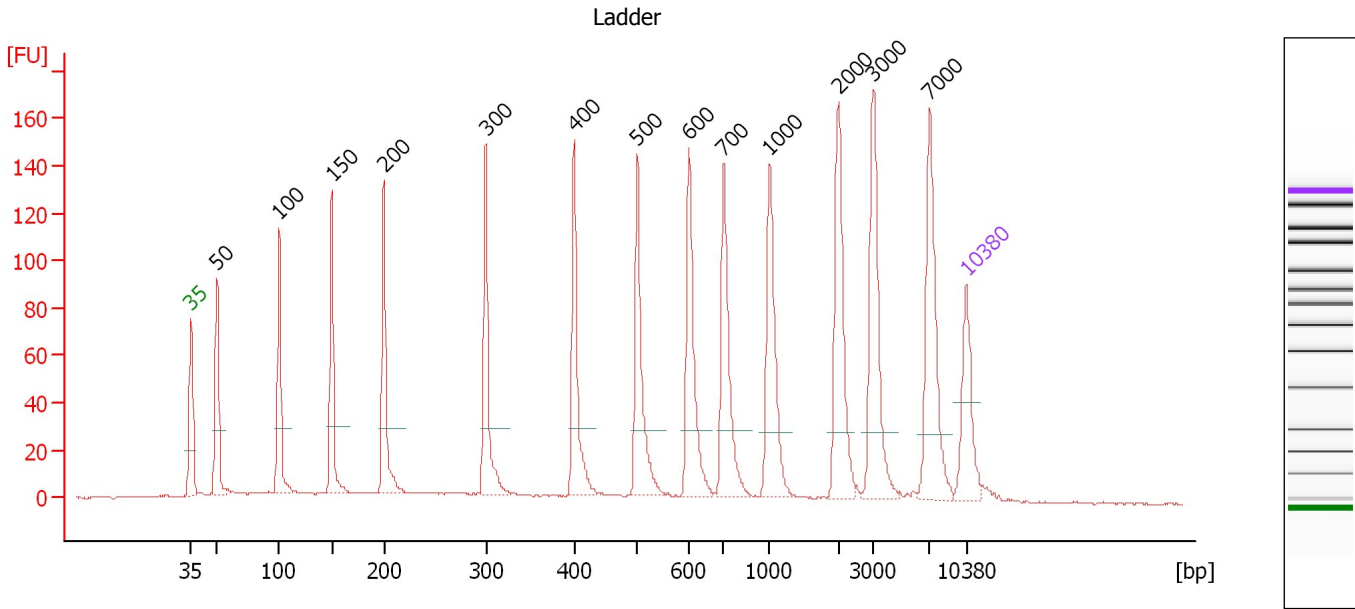
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
 Modified: 2/28/2018 11:04:20 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

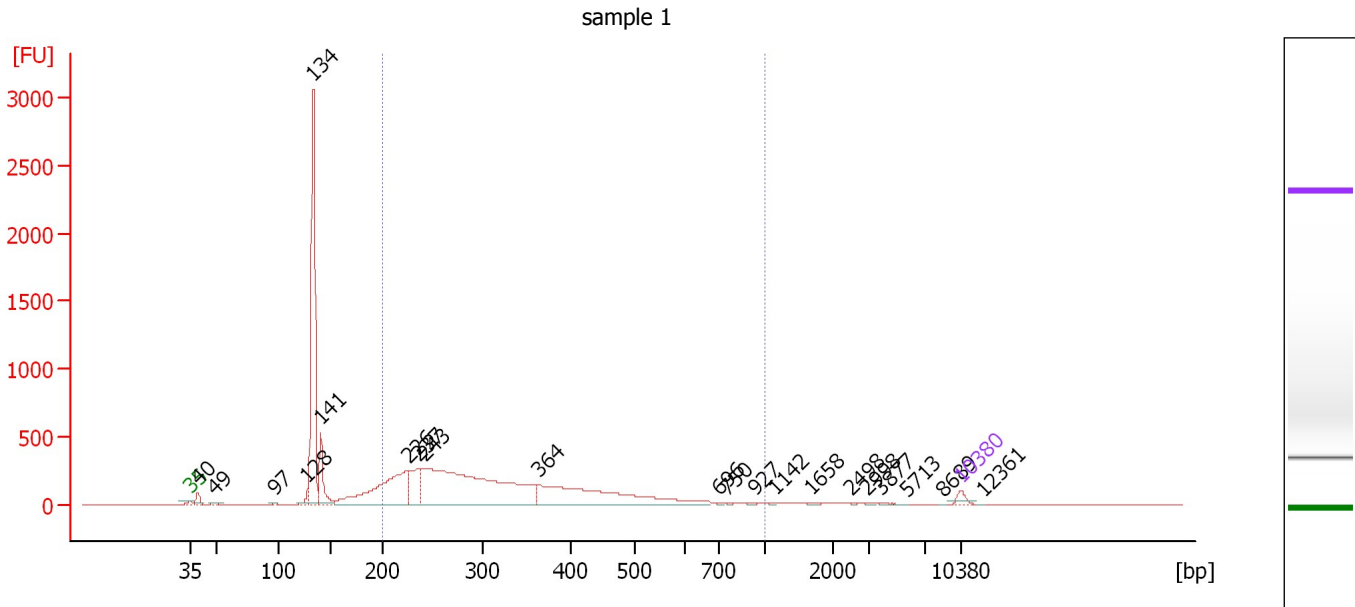
Peak table for Ladder

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	45.36
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	60.43
6	300	150.00	757.6	Ladder Peak	69.62
7	400	150.00	568.2	Ladder Peak	77.58
8	500	150.00	454.5	Ladder Peak	83.32
9	600	150.00	378.8	Ladder Peak	87.99
10	700	150.00	324.7	Ladder Peak	91.10
11	1,000	150.00	227.3	Ladder Peak	95.24
12	2,000	150.00	113.6	Ladder Peak	101.46
13	3,000	150.00	75.8	Ladder Peak	104.57
14	7,000	150.00	32.5	Ladder Peak	109.70
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
 Modified: 2/28/2018 11:04:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 21 Corr. Area 1: 6,224.1
 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	40	150.83	5,741.4		43.75
3	49	26.51	818.0		45.22
4	97	17.20	268.4		50.64
5	128	78.14	922.8		53.65
6	134	3,693.78	41,846.3		54.17
7	141	638.28	6,850.4		54.88
8	226	1,877.57	12,571.0		62.85
9	237	549.33	3,518.4		63.79
10	243	4,453.37	27,799.6		64.35
11	364	1,927.83	8,033.8		74.68
12	696	18.52	40.3		90.99
13	750	13.98	28.2		91.79
14	927	16.37	26.7		94.24
15	1,142	13.18	17.5		96.12
16	1,658	18.46	16.9		99.33
17	2,498	7.32	4.4		103.01
18	2,998	10.78	5.4		104.56
19	3,877	14.26	5.6		105.69
20	5,713	2.66	0.7		108.05
21	8,689	2.18	0.4		111.35
22	10,380	75.00	10.9	Upper Marker	113.00
23	12,361	0.00	0.0		114.93


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
Modified: 2/28/2018 11:04:20 AM

Electropherogram Summary Continued ...

... Region table for sample 1 :

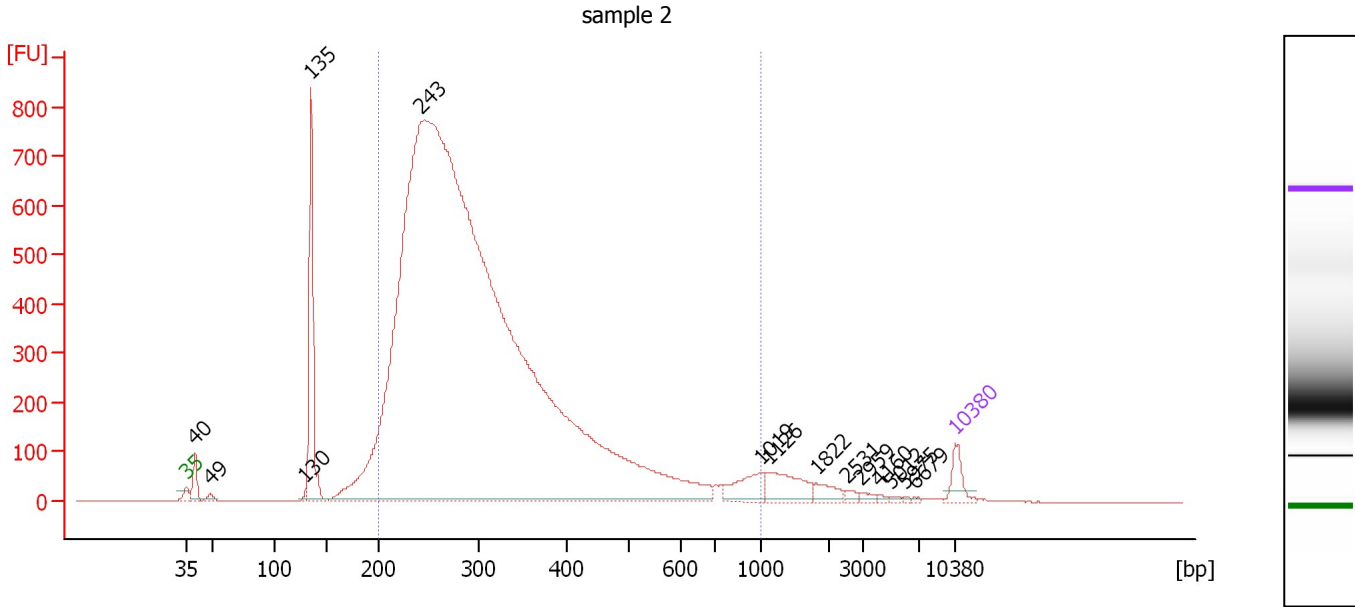
sample 1

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	1,000	336	6,224.1	7,535.38	38,796.5	 62	36.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
 Modified: 2/28/2018 11:04:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 14 Corr. Area 1: 13,663.6
 Noise: 0.5

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	40	138.76	5,276.4		43.76
3	49	31.44	979.6		45.14
4	130	11.28	131.7		53.79
5	135	842.33	9,434.3		54.32
6	243	15,927.14	99,218.7		64.40
7	1,019	143.49	213.4		95.36
8	1,126	174.18	234.4		96.02
9	1,822	57.37	47.7		100.35
10	2,531	17.09	10.2		103.11
11	2,959	19.18	9.8		104.44
12	4,160	8.77	3.2		106.06
13	5,012	7.68	2.3		107.15
14	5,975	5.09	1.3		108.39
15	6,679	5.15	1.2		109.29
16	10,380	75.00	10.9	Upper Marker	113.00

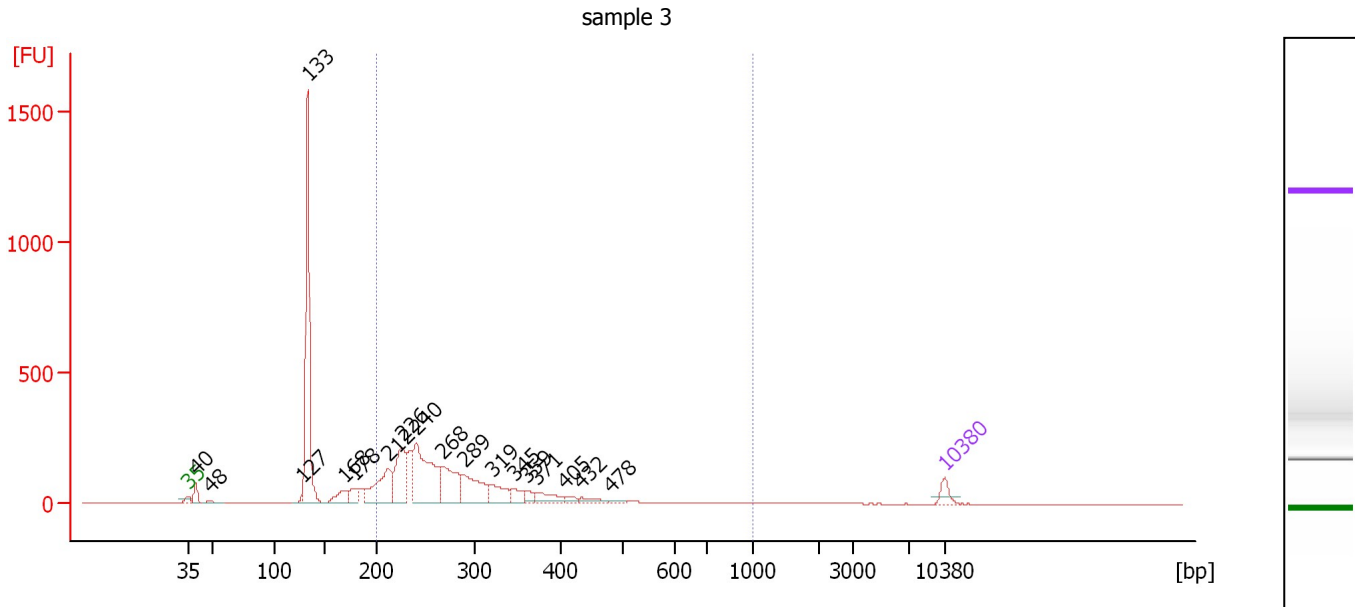
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	319	13,663.6	13,858.81	73,212.8	89	36.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
 Modified: 2/28/2018 11:04:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 18 Corr. Area 1: 2,977.7
 Noise: 0.3

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	40	152.49	5,835.9		43.72
3	48	38.21	1,202.3		45.07
4	127	35.88	426.6		53.57
5	133	2,171.59	24,744.7		54.10
6	168	190.16	1,715.2		57.41
7	178	133.60	1,136.0		58.37
8	212	614.42	4,388.2		61.54
9	226	589.31	3,955.3		62.79
10	240	1,098.31	6,922.5		64.14
11	268	518.37	2,935.2		66.64
12	289	481.96	2,531.1		68.56
13	319	225.96	1,072.1		71.15
14	345	129.71	570.2		73.17
15	359	67.37	284.2		74.32
16	371	152.30	622.6		75.24
17	405	47.95	179.3		77.88
18	432	68.23	239.3		79.42
19	478	22.06	69.9		82.06
20	10,380	75.00	10.9	Upper Marker	113.00

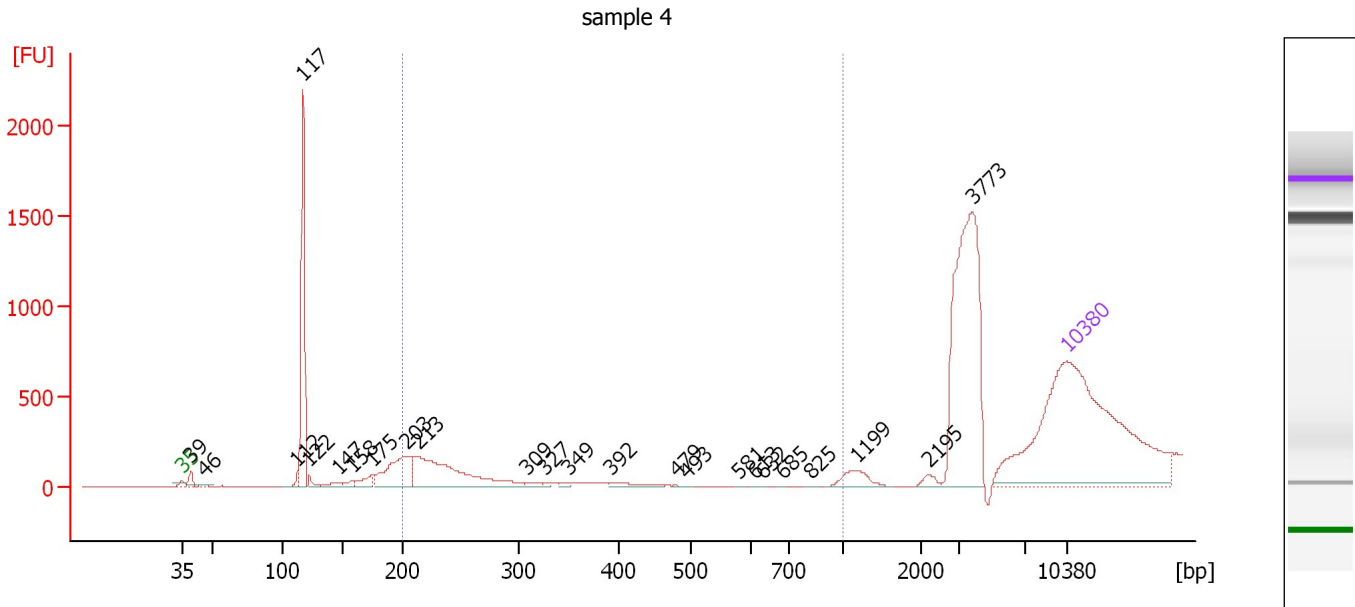
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	293	2,977.7	4,233.90	23,768.8	62	32.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
 Modified: 2/28/2018 11:04:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 24 Corr. Area 1: 681.2
 Noise: 0.2

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	39	3.13	121.0		43.66
3	46	0.86	28.4		44.73
4	112	1.13	15.3		52.08
5	117	51.05	661.2		52.58
6	122	1.45	18.0		53.07
7	147	1.91	19.7		55.45
8	158	1.68	16.1		56.44
9	175	3.77	32.6		58.09
10	203	20.07	149.7		60.72
11	213	36.18	256.9		61.66
12	309	1.19	5.8		70.33
13	327	0.51	2.4		71.77
14	349	0.77	3.3		73.54
15	392	2.05	7.9		76.91
16	479	0.15	0.5		82.09
17	493	0.08	0.3		82.91
18	581	0.12	0.3		87.10
19	613	0.07	0.2		88.38
20	632	0.09	0.2		89.00
21	685	0.09	0.2		90.64
22	825	0.12	0.2		92.82
23	1,199	4.57	5.8		96.48
24	2,195	1.39	1.0		102.07
25	3,773	57.34	23.0		105.56

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
Modified: 2/28/2018 11:04:20 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	10,380	75.00	10.9	Upper Marker	113.00

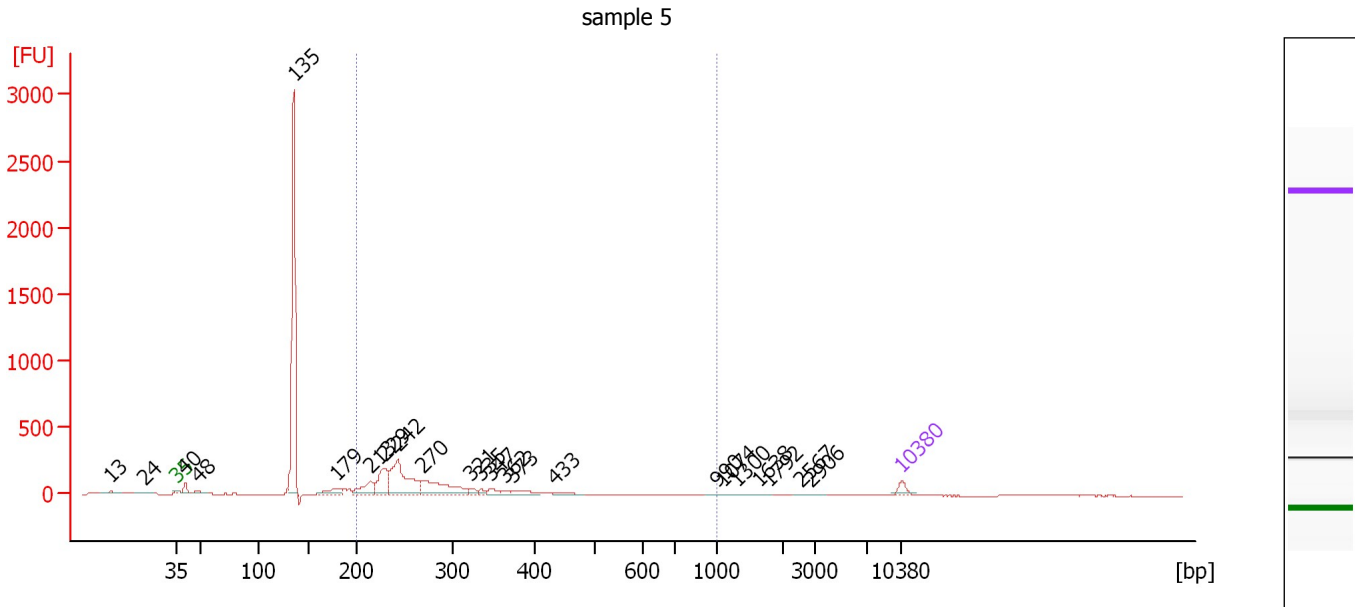
Region table for sample 4 : sample 4

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	1,000	220	681.2	18.22	125.7	12	6.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
 Modified: 2/28/2018 11:04:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 23 Corr. Area 1: 2,108.7
 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	13	0.00	0.0		36.63
2	24	0.00	0.0		39.94
3	35	125.00	5,411.3	Lower Marker	43.00
4	40	126.72	4,787.0		43.80
5	48	59.26	1,854.7		45.11
6	135	3,592.94	40,353.5		54.28
7	179	160.76	1,357.3		58.49
8	213	298.73	2,121.7		61.65
9	229	453.00	3,002.3		63.06
10	242	1,043.98	6,529.4		64.31
11	270	673.58	3,786.2		66.82
12	321	67.41	318.3		71.28
13	335	44.66	202.1		72.38
14	347	81.29	354.5		73.39
15	362	46.70	195.2		74.59
16	373	117.83	478.4		75.44
17	433	44.00	154.1		79.45
18	990	10.69	16.4		95.10
19	1,074	8.34	11.8		95.70
20	1,300	7.98	9.3		97.10
21	1,638	8.74	8.1		99.21
22	1,792	3.57	3.0		100.16
23	2,567	5.27	3.1		103.22
24	2,906	5.40	2.8		104.28
25	10,380	75.00	10.9	Upper Marker	113.00


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
Modified: 2/28/2018 11:04:20 AM

Electropherogram Summary Continued ...

... Region table for sample 5 :

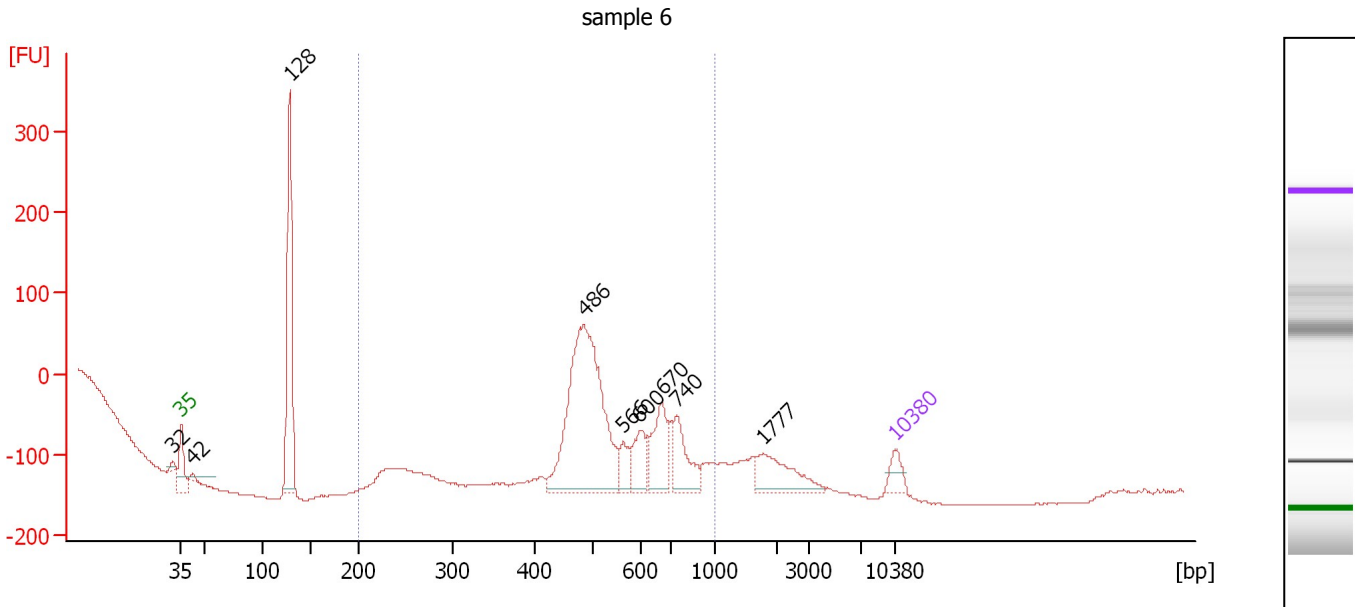
sample 5

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	1,000	277	2,108.7	2,805.08	16,157.4	 44	26.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
 Modified: 2/28/2018 11:04:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 9 Corr. Area 1: 499.0
 Noise: 0.8

Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.18
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	28.73	1,032.5		44.12
4	128	1,162.50	13,757.9		53.63
5	486	1,686.04	5,260.5		82.50
6	566	130.48	349.6		86.38
7	600	175.03	442.3		87.96
8	670	298.18	674.4		90.16
9	740	261.40	535.5		91.64
10	1,777	251.57	214.5		100.07
11	10,380	75.00	10.9	Upper Marker	113.00

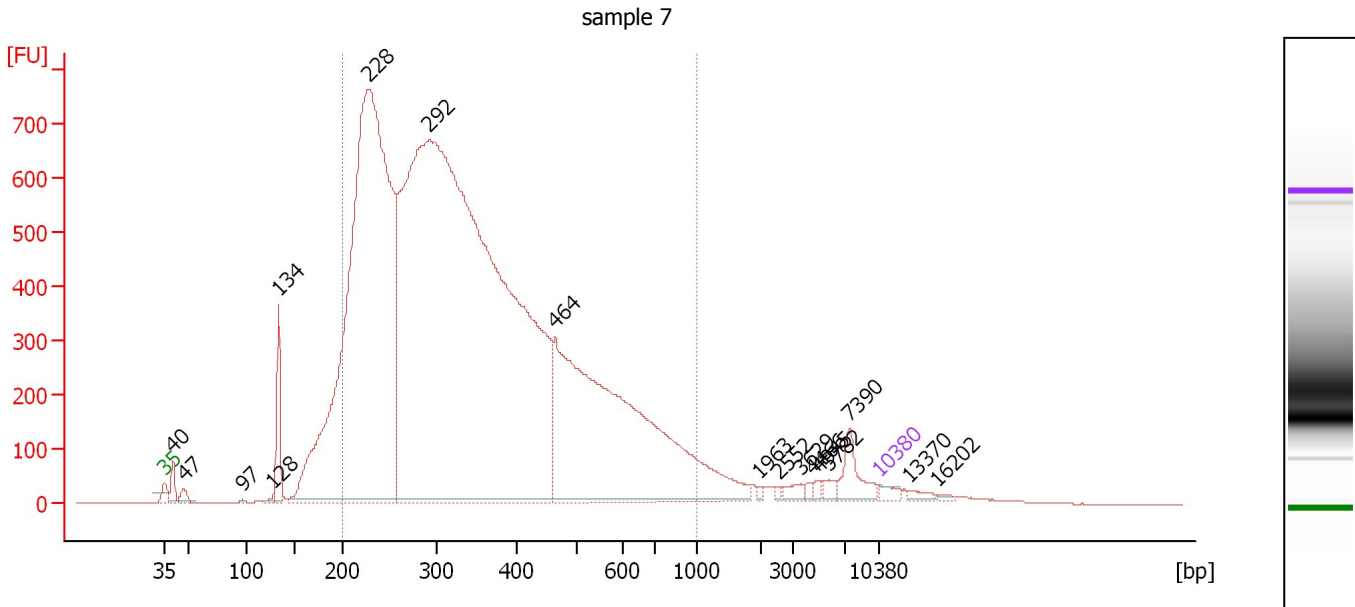
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	524	499.0	844.66	2,503.5	64	15.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
 Modified: 2/28/2018 11:04:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 17 Corr. Area 1: 19,356.2
 Noise: 0.6

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	40	270.82	10,203.6		43.82
3	47	149.67	4,852.6		44.84
4	97	19.31	301.6		50.62
5	128	39.98	474.6		53.59
6	134	775.70	8,799.4		54.15
7	228	16,076.44	106,803.9		63.01
8	292	26,986.86	139,970.8		68.89
9	464	7,421.28	24,214.7		81.27
10	1,963	28.28	21.8		101.23
11	2,552	28.73	17.1		103.18
12	3,629	90.64	37.8		105.38
13	4,466	38.10	12.9		106.45
14	4,945	49.73	15.2		107.06
15	5,782	77.81	20.4		108.14
16	7,390	332.59	68.2		110.08
17	10,380	75.00	10.9	Upper Marker	113.00
18	13,370	0.00	0.0		115.92
19	16,202	0.00	0.0		118.68

Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	363	19,356.2	44,437.04	218,188.0	88	39.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-02-28\2018-02-28_001.xad

Created: 2/28/2018 10:34:26 AM
Modified: 2/28/2018 11:04:20 AM

Gel Image

