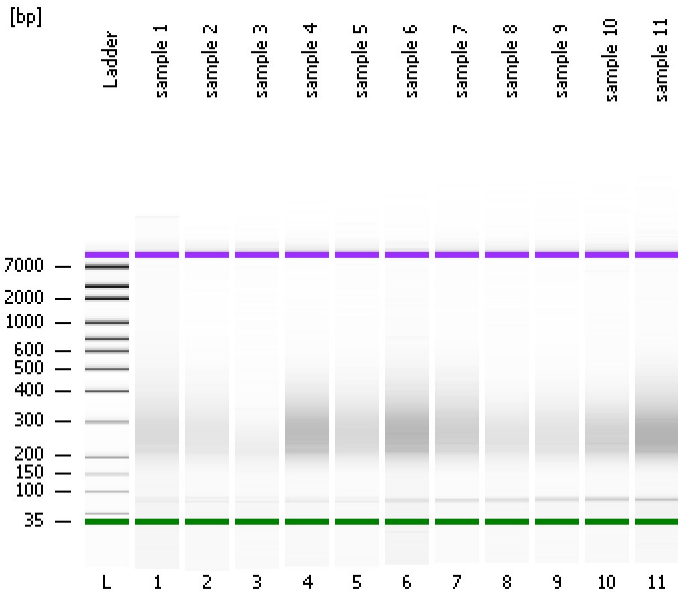


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
Modified: 12/26/2018 2:18:59 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

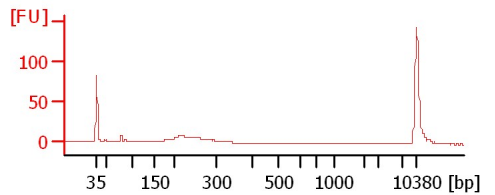
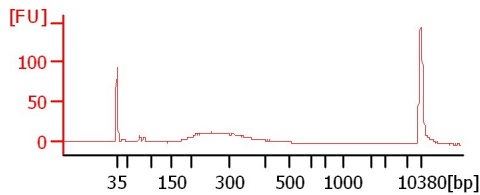
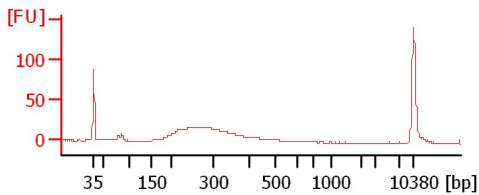
Chip Information:

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

sample 1

sample 2

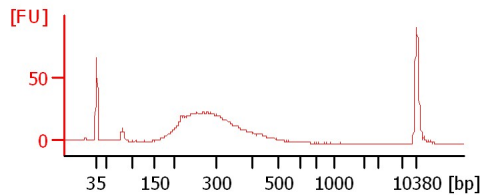
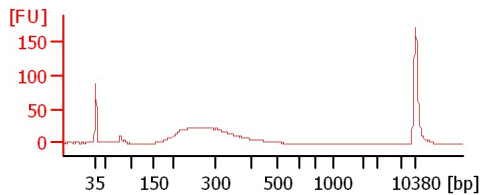
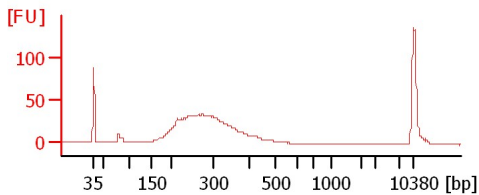
sample 3



sample 4

sample 5

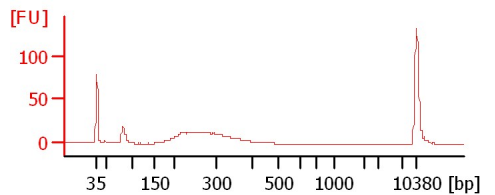
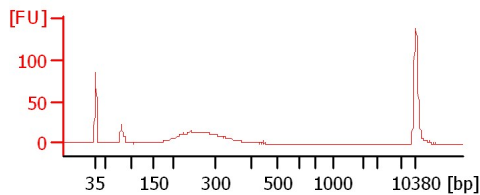
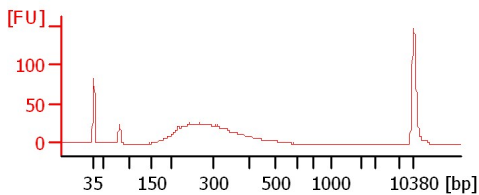
sample 6



sample 7

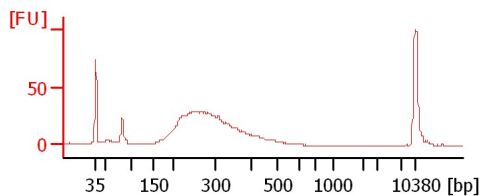
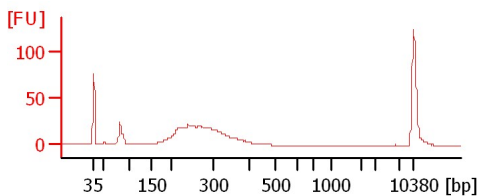
sample 8

sample 9



sample 10

sample 11



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
Modified: 12/26/2018 2:18:59 PM

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\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
Modified: 12/26/2018 2:18:59 PM

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

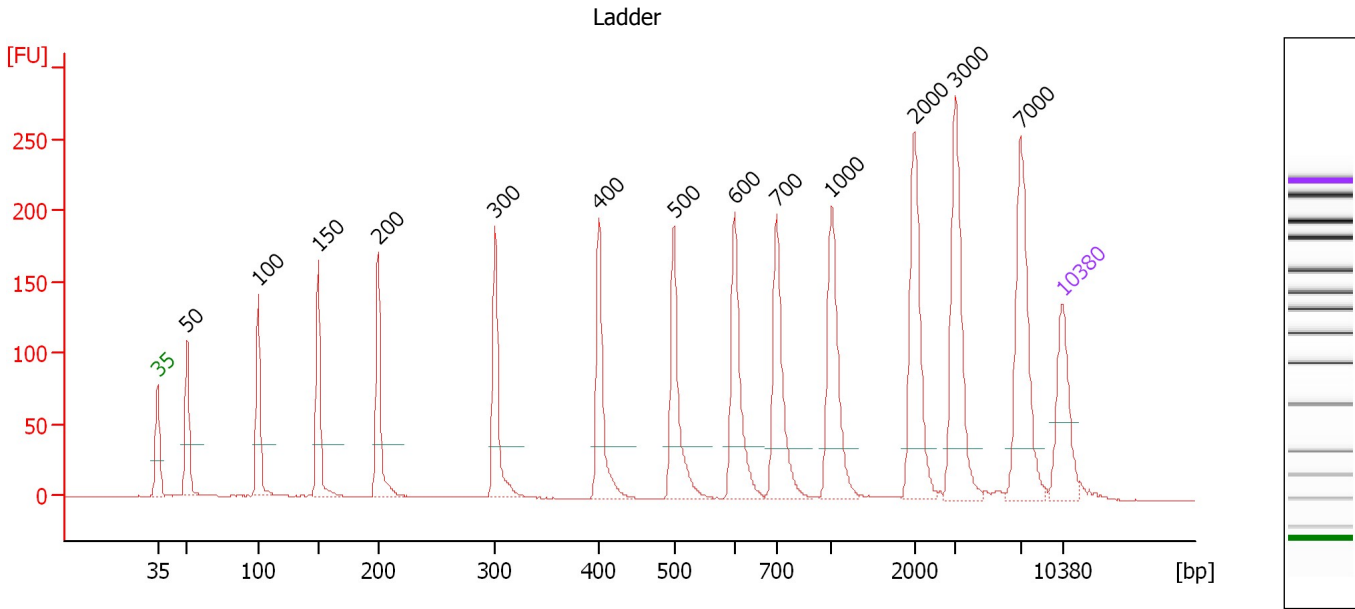
Ladder

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\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
 Modified: 12/26/2018 2:18:59 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

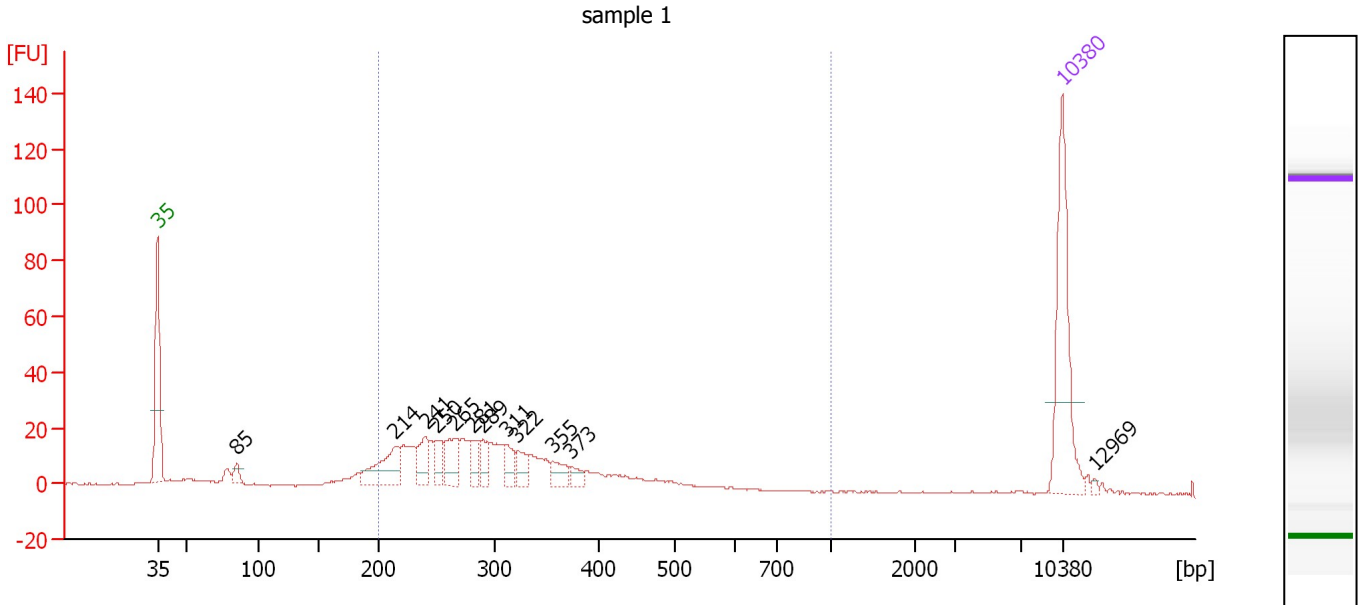
Peak table for Ladder

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	45.28
3	100	150.00	2,272.7	Ladder Peak	50.78
4	150	150.00	1,515.2	Ladder Peak	55.44
5	200	150.00	1,136.4	Ladder Peak	60.05
6	300	150.00	757.6	Ladder Peak	69.10
7	400	150.00	568.2	Ladder Peak	77.14
8	500	150.00	454.5	Ladder Peak	82.94
9	600	150.00	378.8	Ladder Peak	87.65
10	700	150.00	324.7	Ladder Peak	90.90
11	1,000	150.00	227.3	Ladder Peak	95.16
12	2,000	150.00	113.6	Ladder Peak	101.53
13	3,000	150.00	75.8	Ladder Peak	104.74
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\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
 Modified: 12/26/2018 2:18:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 12 Corr. Area 1: 312.4
 Noise: 0.2

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	85	9.48	169.2		49.12
3	214	47.23	333.8		61.35
4	241	25.04	157.5		63.76
5	250	15.88	96.4		64.54
6	265	26.63	152.2		65.94
7	281	14.72	79.2		67.43
8	289	16.32	85.5		68.12
9	311	14.80	72.2		69.96
10	322	14.77	69.6		70.83
11	355	14.26	60.8		73.54
12	373	7.61	30.9		74.99
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,969	0.00	0.0		115.49

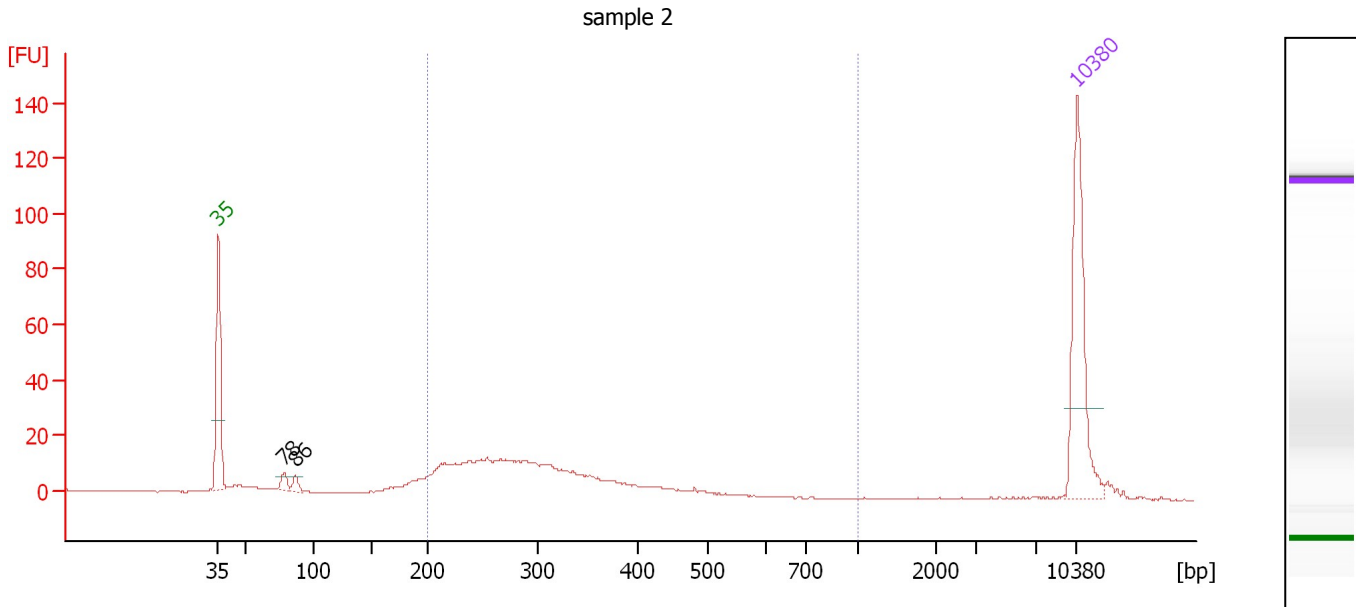
Region table for sample 1 : sample 1

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	290	296.68	312.4	1,620.9	87	19.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
 Modified: 12/26/2018 2:18:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 2 Corr. Area 1: 267.8
 Noise: 0.2

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	78	8.88	172.8		48.35
3	86	7.47	131.4		49.26
4	10,380	75.00	10.9	Upper Marker	113.00

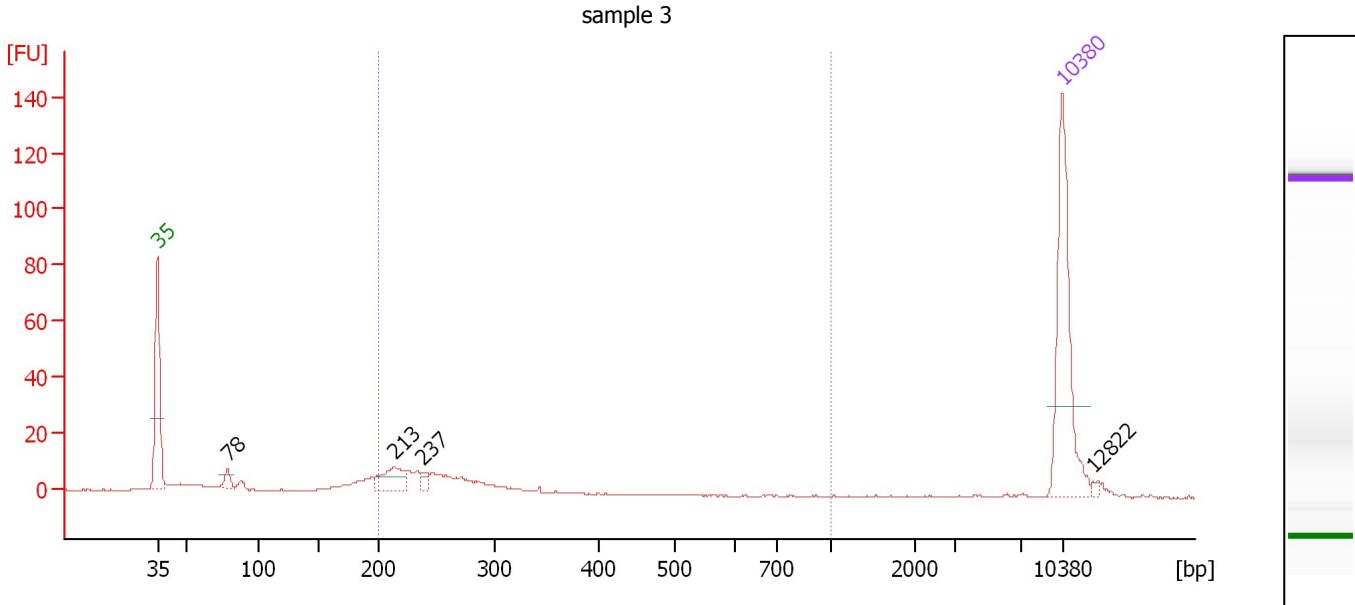
Region table for sample 2 : sample 2

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	300	231.31	267.8	1,242.3	79	23.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
 Modified: 12/26/2018 2:18:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 4 Corr. Area 1: 97.7
 Noise: 0.2

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	78	8.05	155.4		48.41
3	213	26.28	186.6		61.26
4	237	5.69	36.3		63.44
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,822	0.00	0.0		115.35

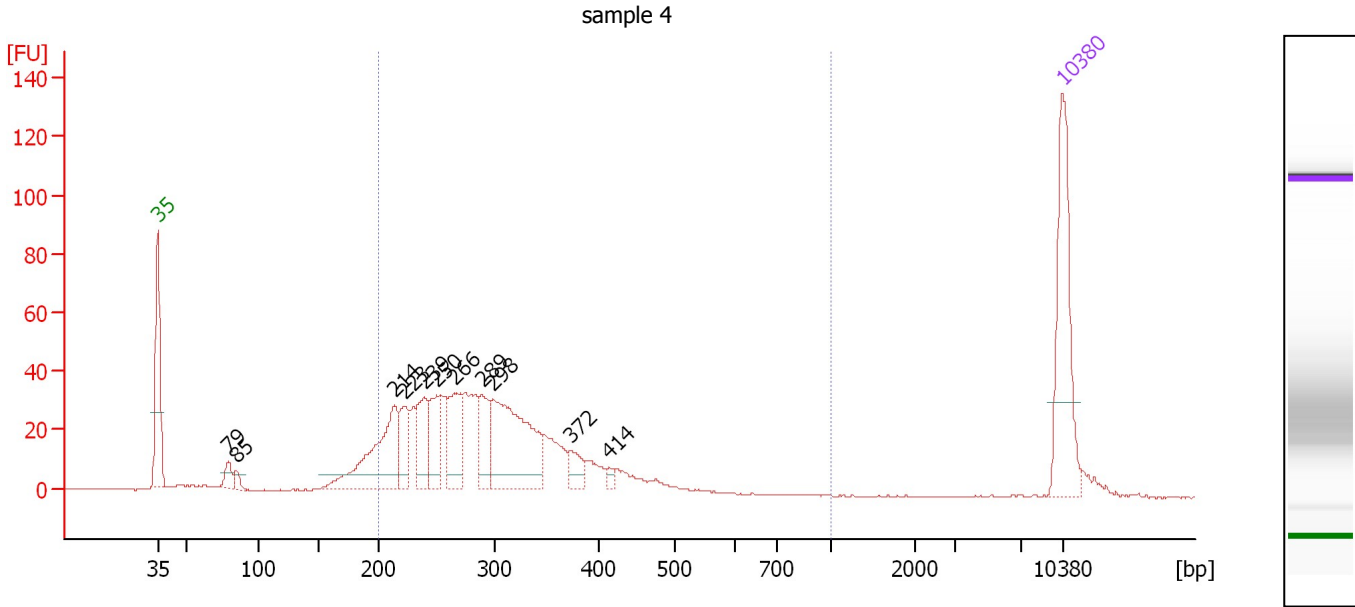
Region table for sample 3 : sample 3

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	251	87.98	97.7	537.2	56	14.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
 Modified: 12/26/2018 2:18:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 11 Corr. Area 1: 702.9
 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	79	13.15	252.1		48.47
3	85	7.36	131.5		49.11
4	214	104.32	738.0		61.33
5	223	33.10	225.2		62.11
6	239	44.59	282.3		63.61
7	250	36.99	223.8		64.62
8	266	48.86	278.8		65.98
9	289	33.62	176.1		68.13
10	298	128.99	655.2		68.95
11	372	15.61	63.5		74.92
12	414	4.57	16.7		77.98
13	10,380	75.00	10.9	Upper Marker	113.00

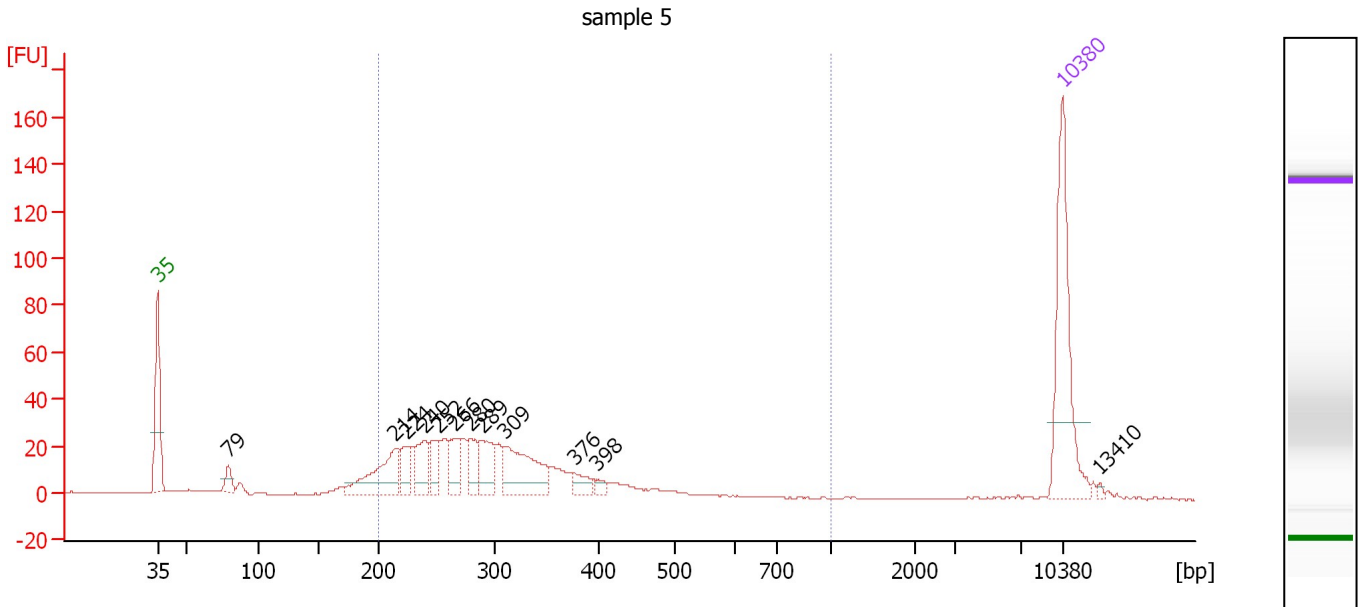
Region table for sample 4 : sample 4

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	298	604.75	702.9	3,250.7	87	22.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
 Modified: 12/26/2018 2:18:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 12 Corr. Area 1: 504.3
 Noise: 0.2

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	79	11.74	224.4		48.50
3	214	54.65	386.6		61.33
4	224	22.77	154.0		62.23
5	240	31.36	198.3		63.64
6	252	20.45	123.2		64.72
7	266	22.83	130.0		66.04
8	280	21.68	117.5		67.26
9	289	29.34	153.8		68.10
10	309	58.21	285.7		69.80
11	376	11.30	45.6		75.20
12	398	4.12	15.7		76.99
13	10,380	75.00	10.9	Upper Marker	113.00
14	13,410	0.00	0.0		115.91

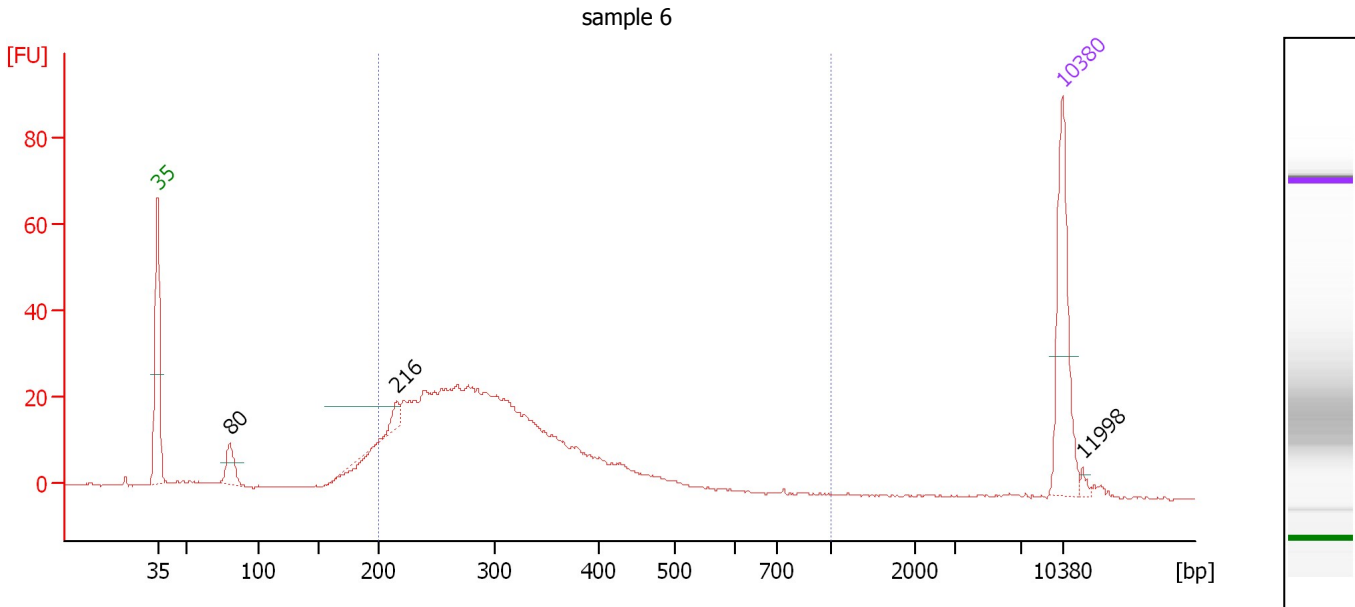
Region table for sample 5 : sample 5

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	301	364.06	504.3	1,950.6	83	24.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
 Modified: 12/26/2018 2:18:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 3 Corr. Area 1: 493.2
 Noise: 0.2

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	80	28.87	546.0		48.59
3	216	12.78	89.7		61.49
4	10,380	75.00	10.9	Upper Marker	113.00
5	11,998	0.00	0.0		114.56

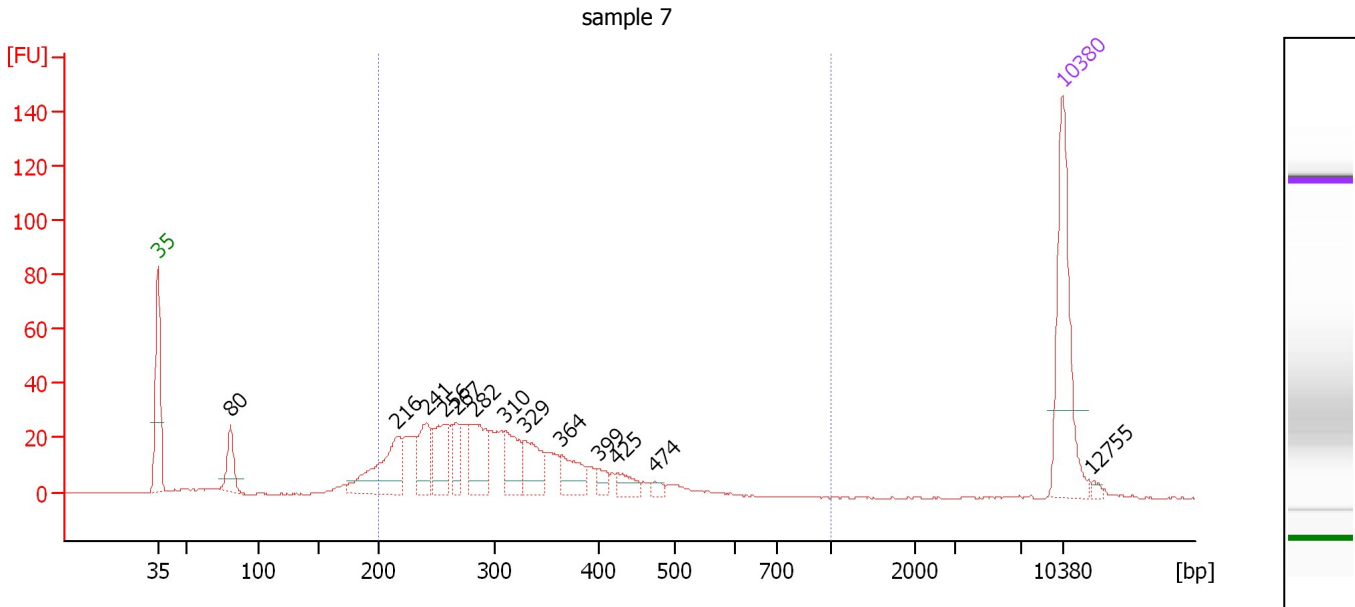
Region table for sample 6 : sample 6

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	303	737.52	493.2	3,927.7	88	24.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
 Modified: 12/26/2018 2:18:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 13 Corr. Area 1: 562.9
 Noise: 0.2

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	80	32.65	616.0		48.61
3	216	69.06	483.6		61.53
4	241	37.79	237.5		63.77
5	256	41.17	243.3		65.16
6	267	21.46	121.6		66.15
7	282	48.03	257.9		67.49
8	310	33.31	162.7		69.93
9	329	33.99	156.6		71.42
10	364	25.66	106.8		74.25
11	399	8.66	32.9		77.08
12	425	11.75	41.9		78.57
13	474	4.57	14.6		81.45
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,755	0.00	0.0		115.29

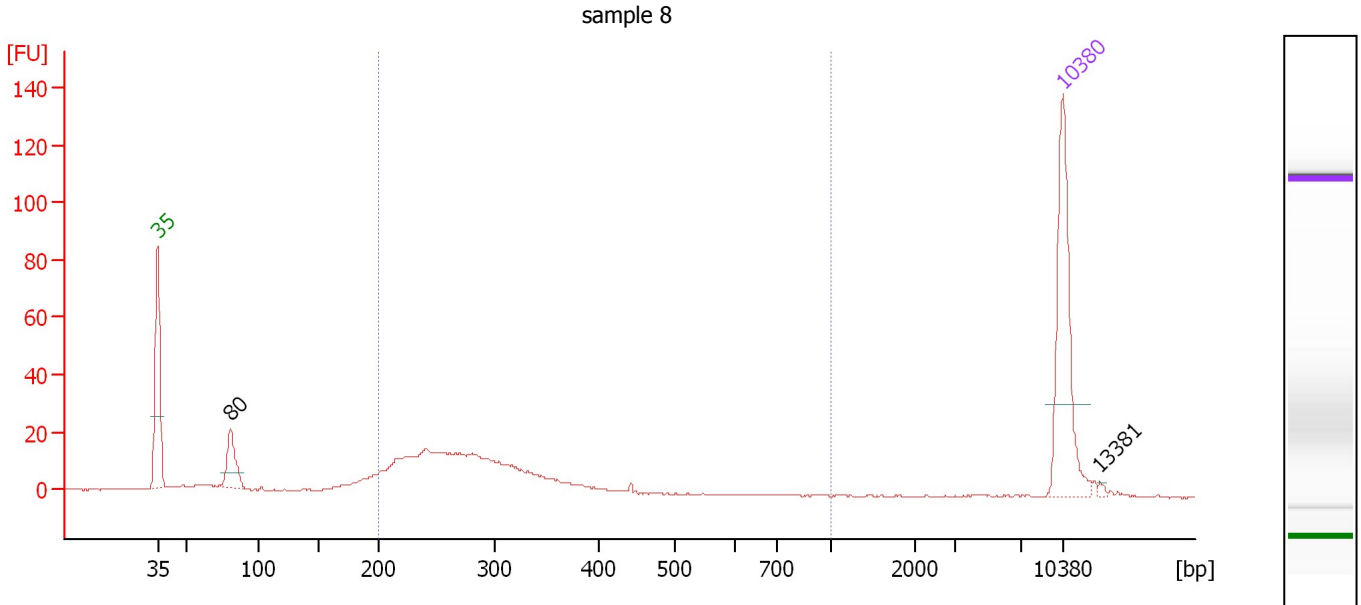
Region table for sample 7 : sample 7

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	310	460.76	562.9	2,418.5	86	25.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
 Modified: 12/26/2018 2:18:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 2 Corr. Area 1: 235.3
 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	80	35.55	670.1		48.62
3	10,380	75.00	10.9	Upper Marker	113.00
4	13,381	0.00	0.0		115.89

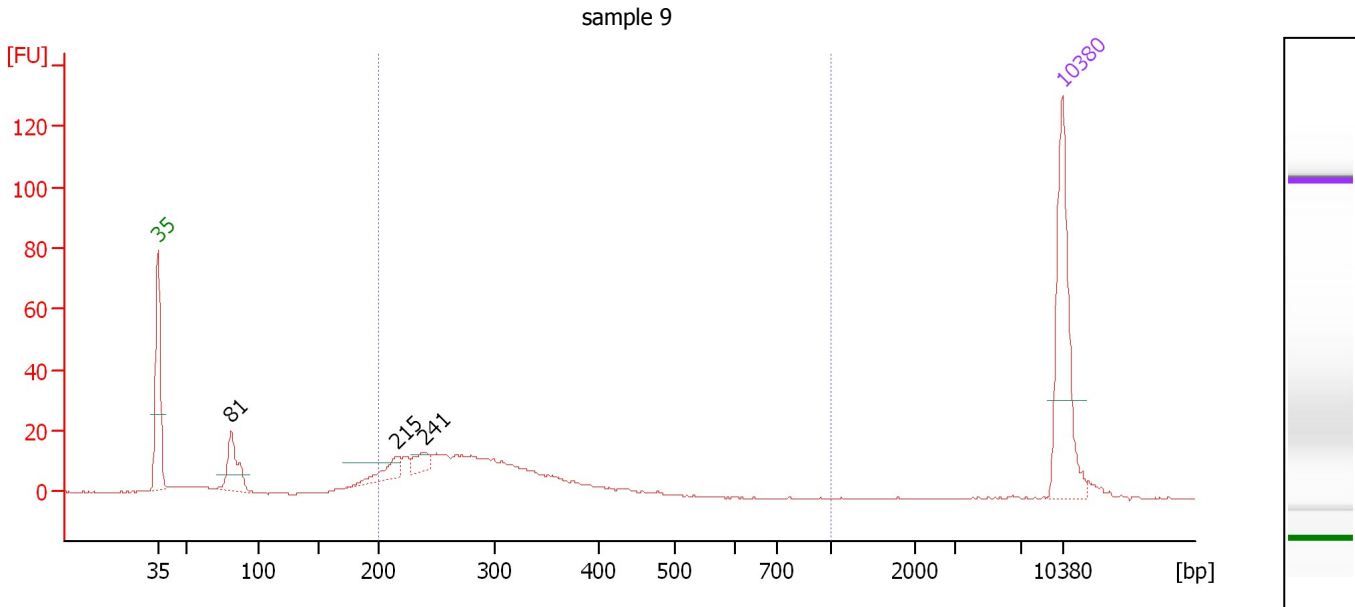
Region table for sample 8 : sample 8

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	279	214.69	235.3	1,203.5	73	18.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
 Modified: 12/26/2018 2:18:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 3 Corr. Area 1: 254.0
 Noise: 0.2

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	81	42.42	794.5		48.68
3	215	20.25	142.6		61.42
4	241	13.81	87.0		63.72
5	10,380	75.00	10.9	Upper Marker	113.00

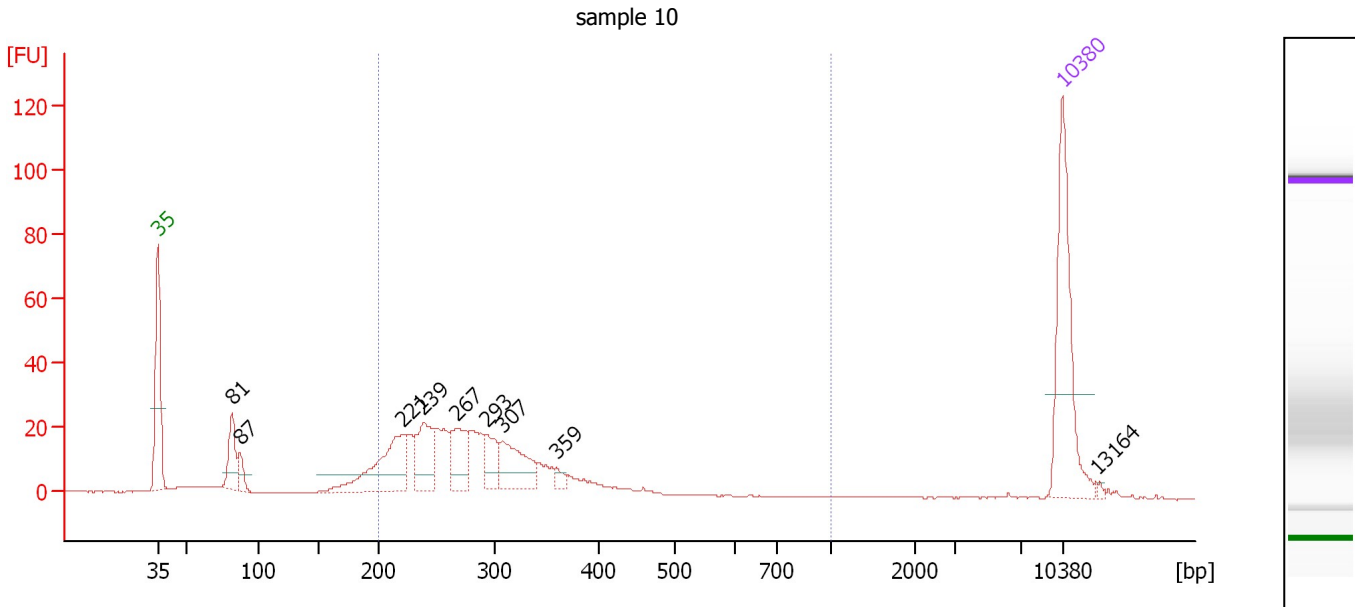
Region table for sample 9 : sample 9

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	289	247.49	254.0	1,359.9	73	21.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
 Modified: 12/26/2018 2:18:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 9 Corr. Area 1: 375.7
 Noise: 0.2

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	81	36.17	674.6		48.72
3	87	13.52	234.5		49.39
4	221	75.81	519.6		61.96
5	239	46.13	292.8		63.55
6	267	37.49	212.7		66.13
7	293	24.59	127.3		68.45
8	307	44.59	219.9		69.68
9	359	6.30	26.6		73.85
10	10,380	75.00	10.9	Upper Marker	113.00
11	13,164	0.00	0.0		115.68

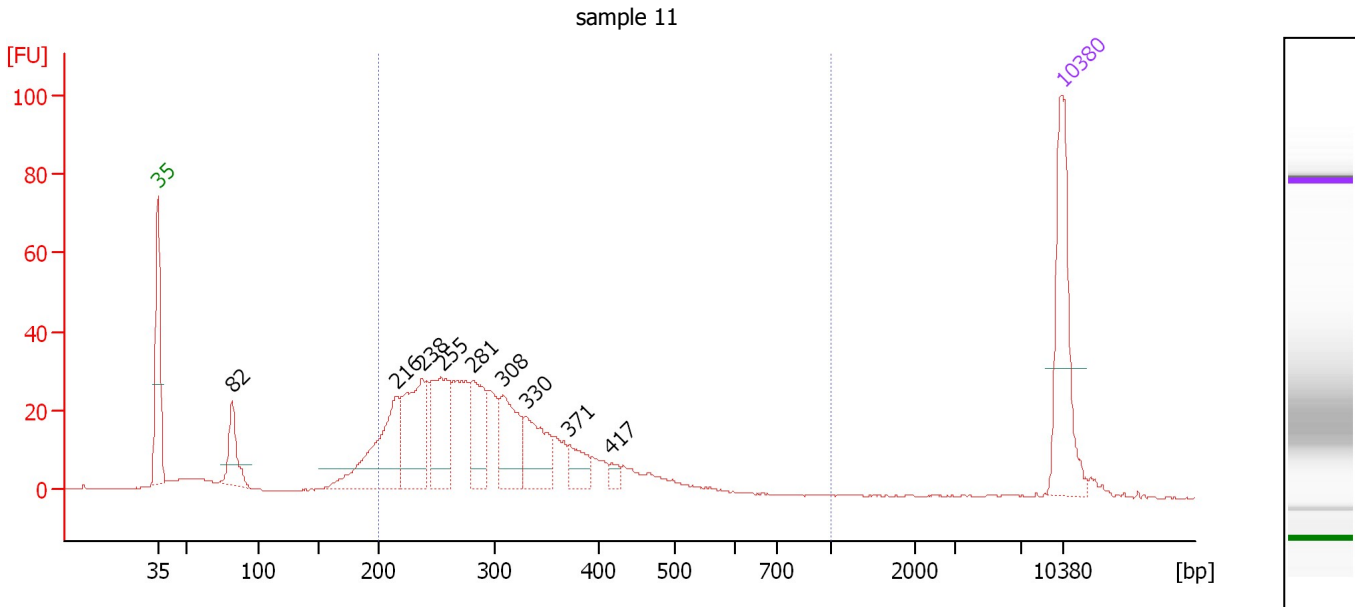
Region table for sample 10 : sample 10

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	286	357.39	375.7	1,976.8	77	21.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
 Modified: 12/26/2018 2:18:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 9 Corr. Area 1: 582.6
 Noise: 0.2

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	82	44.63	829.6		48.75
3	216	106.46	747.3		61.48
4	238	93.55	595.2		63.50
5	255	74.67	444.1		65.00
6	281	59.78	322.3		67.39
7	308	60.29	296.3		69.77
8	330	53.55	245.7		71.53
9	371	22.66	92.5		74.84
10	417	6.38	23.2		78.10
11	10,380	75.00	10.9	Upper Marker	113.00

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	303	660.70	582.6	3,532.8	83	25.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-12-26\2018-12-26_001.xad

Created: 12/26/2018 1:37:42 PM
Modified: 12/26/2018 2:18:59 PM

Gel Image

