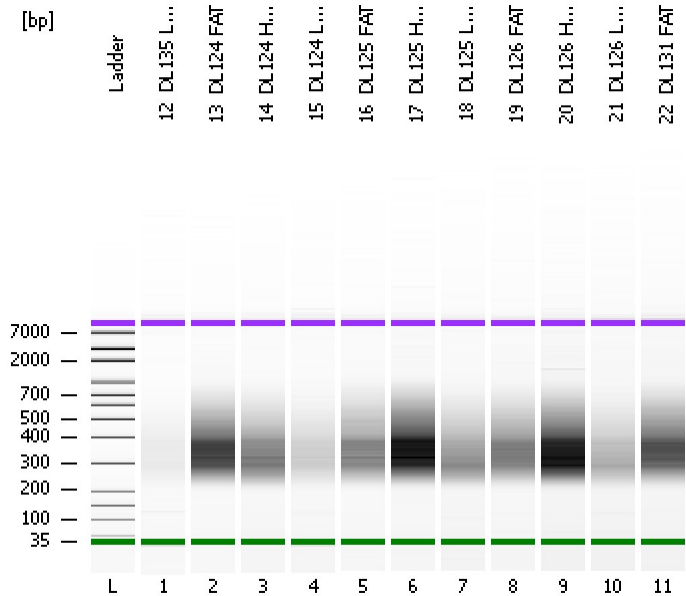


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
Modified: 6/1/2015 1:23:36 PM

Electrophoresis File Run Summary



Instrument Information:

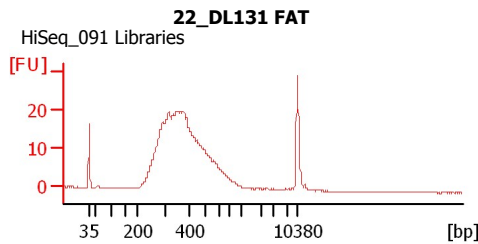
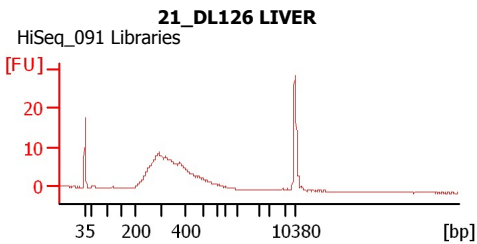
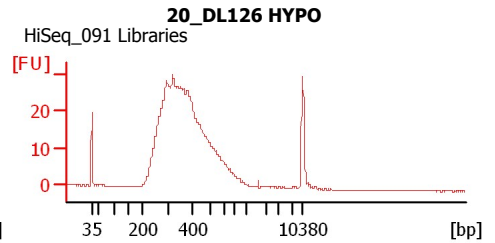
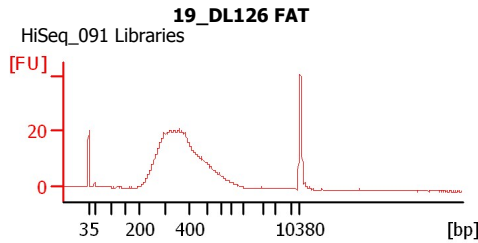
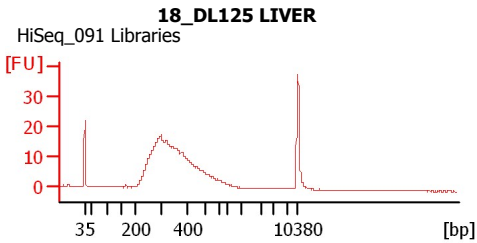
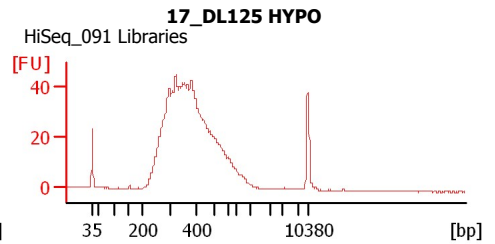
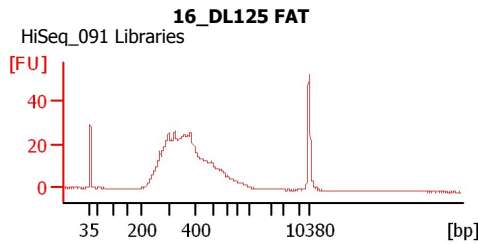
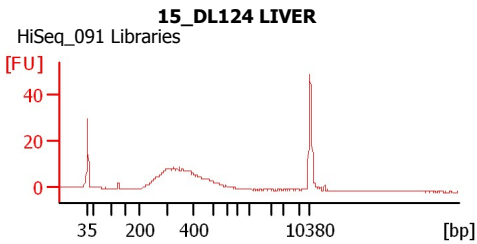
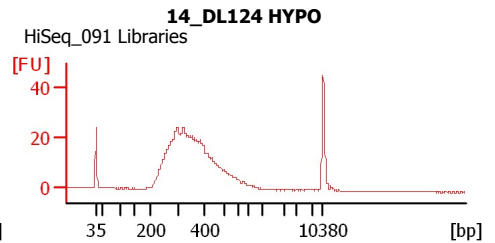
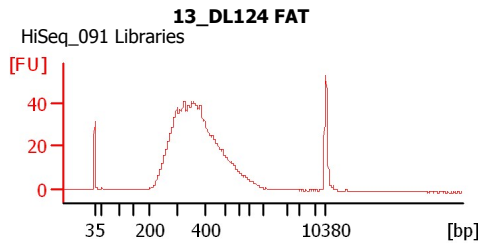
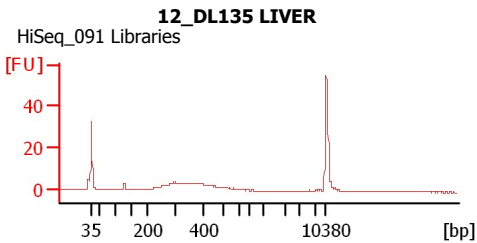
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
 Modified: 6/1/2015 1:23:36 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
12_DL135 LIVER	HiSeq_091 Libraries	<input type="checkbox"/>	✓			
13_DL124 FAT	HiSeq_091 Libraries	<input type="checkbox"/>	✓			
14_DL124 HYPO	HiSeq_091 Libraries	<input type="checkbox"/>	✓			
15_DL124 LIVER	HiSeq_091 Libraries	<input type="checkbox"/>	✓			
16_DL125 FAT	HiSeq_091 Libraries	<input type="checkbox"/>	✓			
17_DL125 HYPO	HiSeq_091 Libraries	<input type="checkbox"/>	✓			
18_DL125 LIVER	HiSeq_091 Libraries	<input type="checkbox"/>	✓			
19_DL126 FAT	HiSeq_091 Libraries	<input type="checkbox"/>	✓			
20_DL126 HYPO	HiSeq_091 Libraries	<input type="checkbox"/>	✓			
21_DL126 LIVER	HiSeq_091 Libraries	<input type="checkbox"/>	✓			
22_DL131 FAT	HiSeq_091 Libraries	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
Modified: 6/1/2015 1:23:36 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

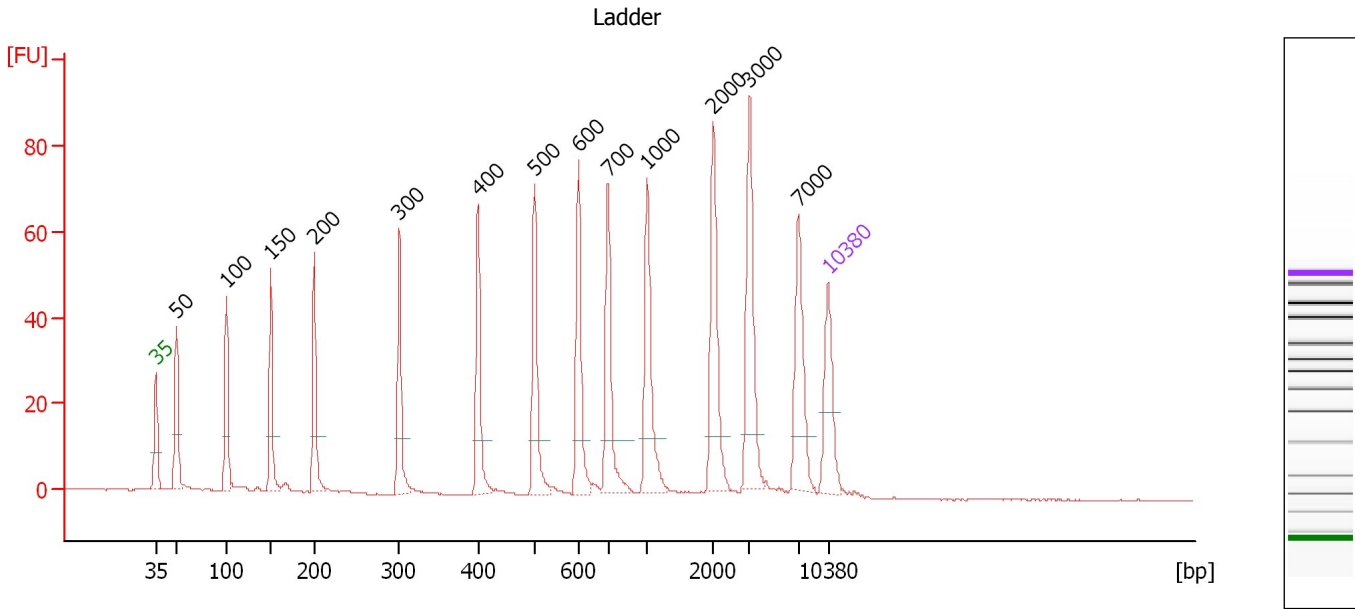
Ladder

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:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
 Modified: 6/1/2015 1:23:36 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

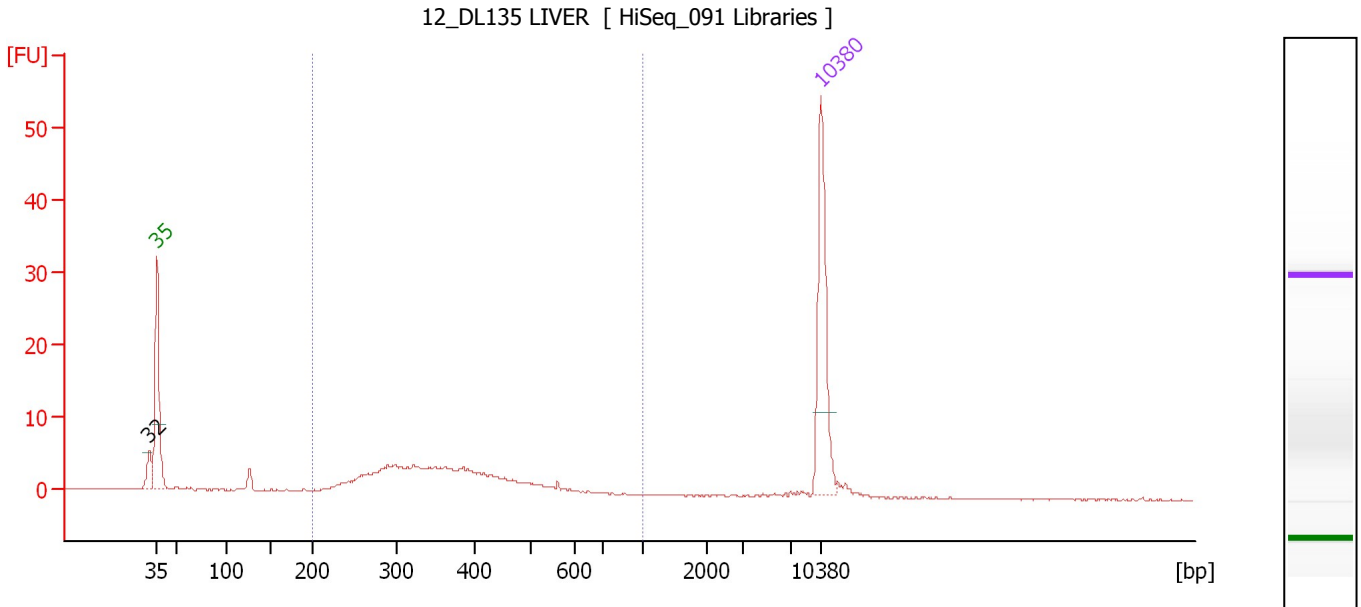
Peak table for Ladder

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	45.11
3	100	150.00	2,272.7	Ladder Peak	50.33
4	150	150.00	1,515.2	Ladder Peak	54.93
5	200	150.00	1,136.4	Ladder Peak	59.49
6	300	150.00	757.6	Ladder Peak	68.31
7	400	150.00	568.2	Ladder Peak	76.53
8	500	150.00	454.5	Ladder Peak	82.41
9	600	150.00	378.8	Ladder Peak	86.97
10	700	150.00	324.7	Ladder Peak	90.07
11	1,000	150.00	227.3	Ladder Peak	94.13
12	2,000	150.00	113.6	Ladder Peak	101.01
13	3,000	150.00	75.8	Ladder Peak	104.78
14	7,000	150.00	32.5	Ladder Peak	109.84
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
 Modified: 6/1/2015 1:23:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 12_DL135 LIVER

Number of peaks found: 1 Corr. Area 1: 80.3
 Noise: 0.1

Peak table for sample 1 : 12_DL135 LIVER

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.21
2	35	125.00	5,411.3	Lower Marker	43.00
3	10,380	75.00	10.9	Upper Marker	113.00

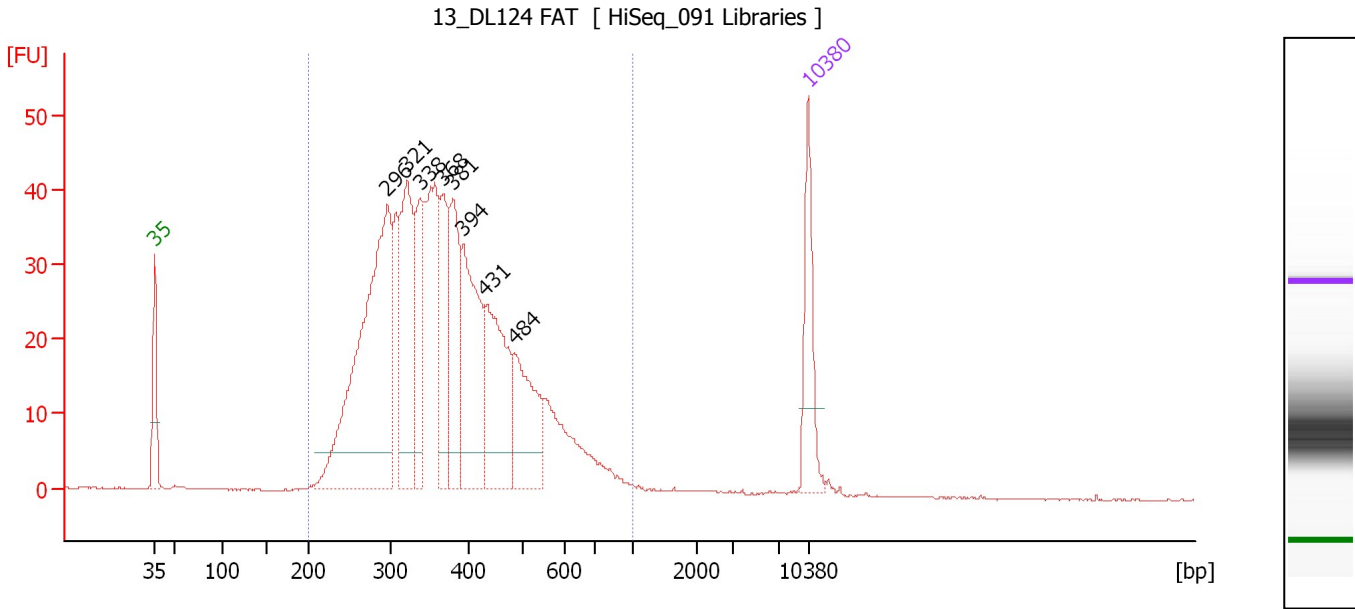
Region table for sample 1 : 12_DL135 LIVER

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	368	1,000	80.3	879.5	82	25.4	197.19	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
 Modified: 6/1/2015 1:23:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 13 DL124 FAT

Number of peaks found: 8 Corr. Area 1: 885.7
 Noise: 0.1

Peak table for sample 2 : 13 DL124 FAT

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	296	552.32	2,830.4		67.93
3	321	217.14	1,024.8		70.04
4	338	117.79	528.5		71.41
5	368	118.87	489.1		73.92
6	381	140.26	558.2		74.95
7	394	205.14	789.0		76.03
8	431	181.20	636.5		78.37
9	484	133.56	418.4		81.45
10	10,380	75.00	10.9	Upper Marker	113.00

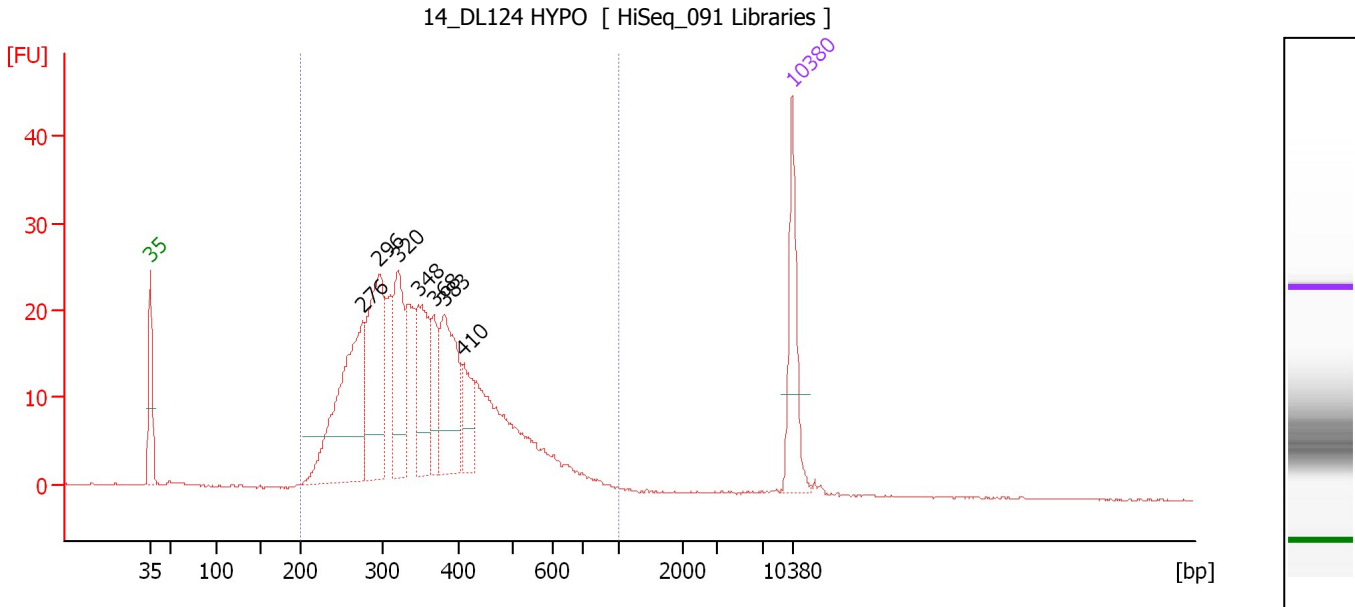
Region table for sample 2 : 13 DL124 FAT

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	385	1,000	885.7	9,471.0	98	28.6	2,190.99	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
 Modified: 6/1/2015 1:23:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 14 DL124 HYPO

Number of peaks found: 7 Corr. Area 1: 503.3
 Noise: 0.1

Peak table for sample 3 : 14 DL124 HYPO

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	276	273.67	1,502.2		66.20
3	296	201.87	1,034.0		67.94
4	320	127.10	601.3		69.98
5	348	108.08	470.8		72.24
6	368	54.08	222.4		73.93
7	383	141.71	560.3		75.15
8	410	52.74	194.8		77.13
9	10,380	75.00	10.9	Upper Marker	113.00

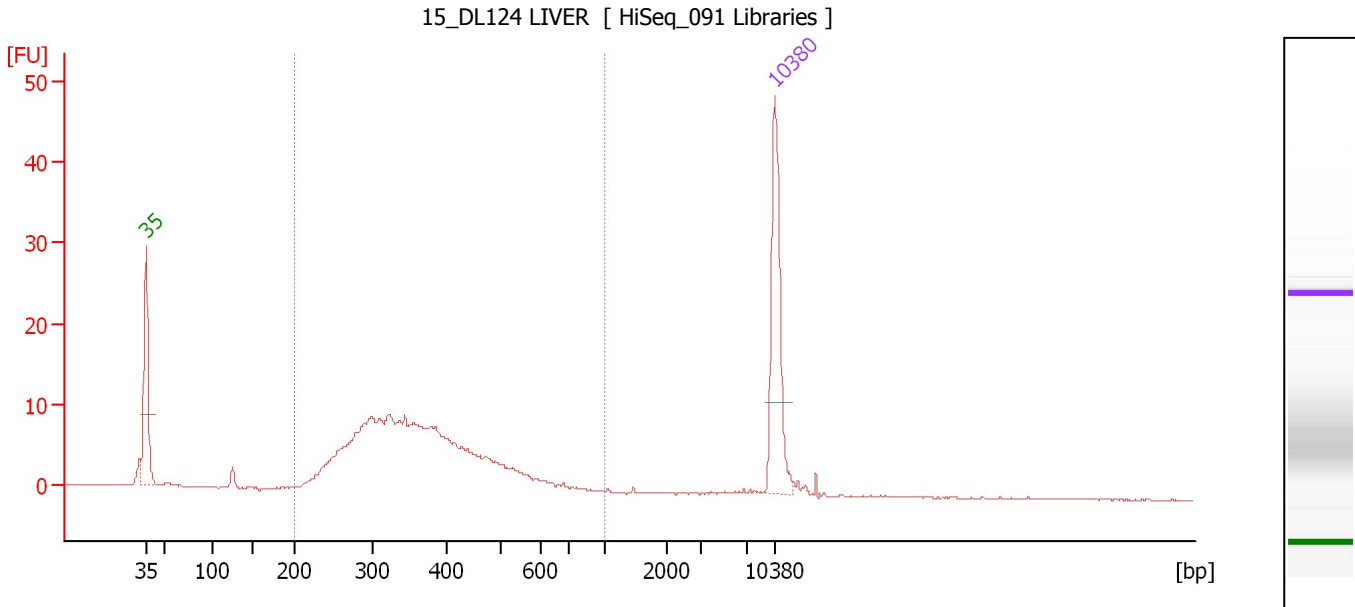
Region table for sample 3 : 14 DL124 HYPO

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	368	1,000	503.3	6,807.7	97	28.9	1,508.30	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
Modified: 6/1/2015 1:23:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 15 DL124 LIVER

Number of peaks found: 0 Corr. Area 1: 185.6
Noise: 0.1

Peak table for sample 4 : 15 DL124 LIVER

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

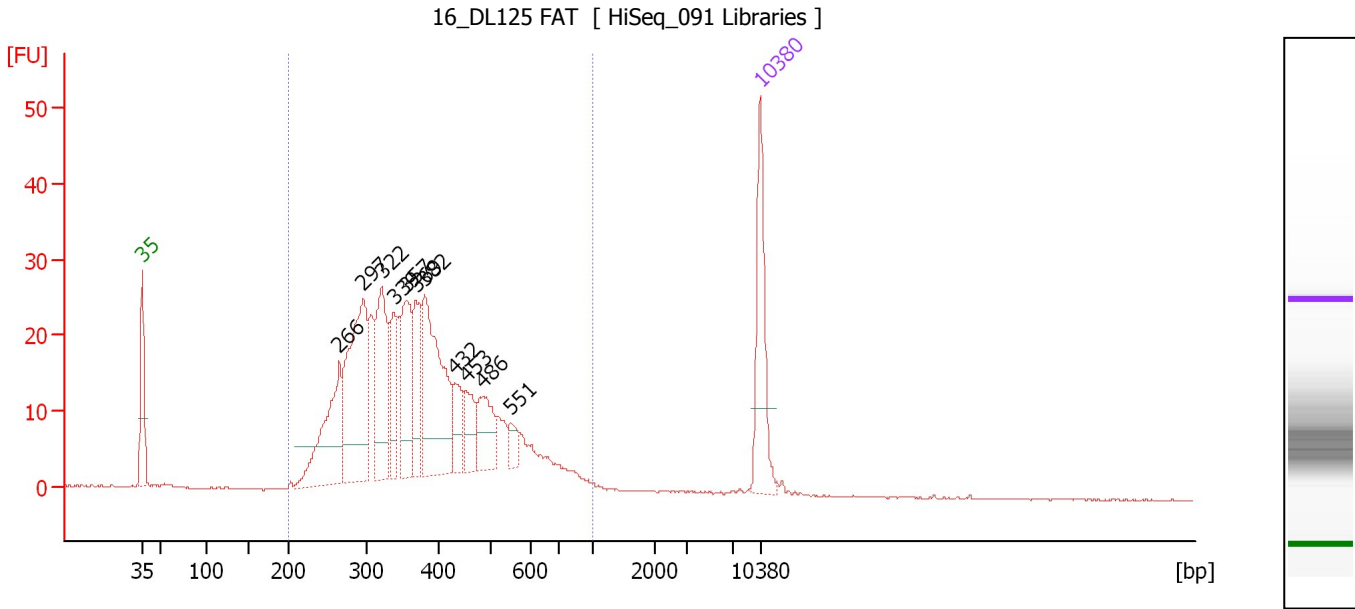
Region table for sample 4 : 15 DL124 LIVER

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	371	1,000	185.6	1,975.1	94	26.9	444.65	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
 Modified: 6/1/2015 1:23:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 16_DL125 FAT

Number of peaks found: 11 Corr. Area 1: 551.5
 Noise: 0.1

Peak table for sample 5 : 16_DL125 FAT

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	266	140.21	797.5		65.35
3	297	206.84	1,054.6		68.06
4	322	116.37	547.6		70.12
5	339	58.43	261.3		71.51
6	357	93.06	395.5		72.96
7	369	66.22	271.9		73.98
8	382	174.85	694.4		75.01
9	432	36.02	126.4		78.39
10	453	36.35	121.5		79.66
11	486	49.76	155.1		81.59
12	551	15.80	43.4		84.73
13	10,380	75.00	10.9	Upper Marker	113.00

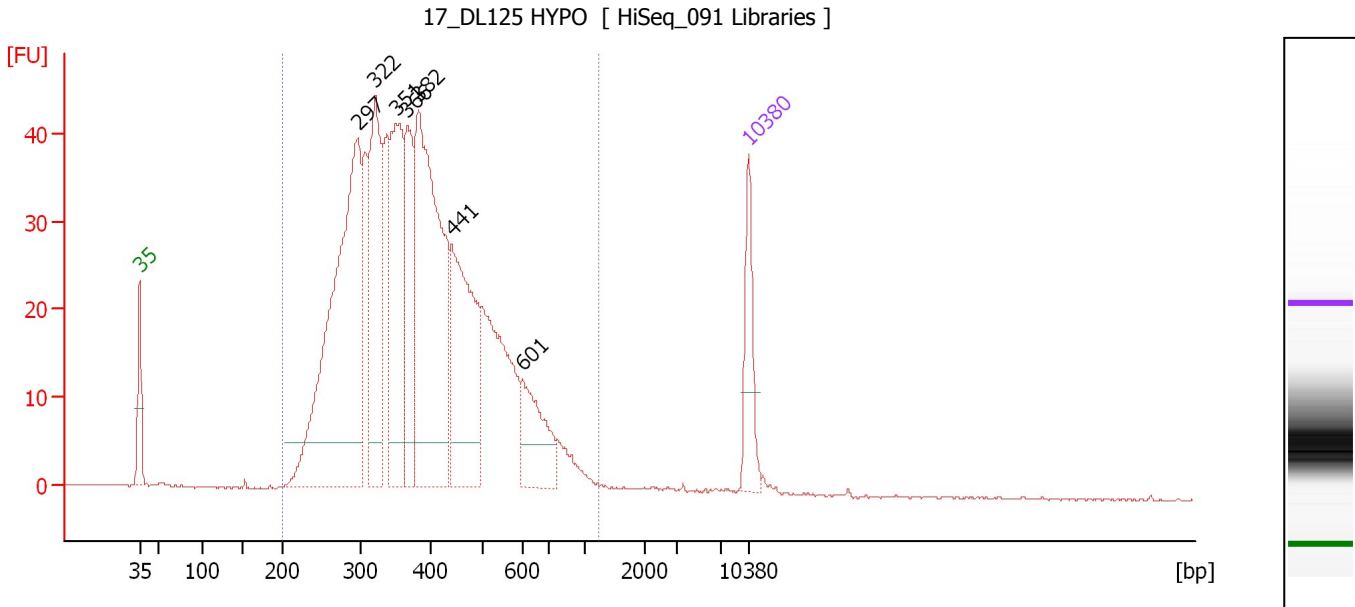
Region table for sample 5 : 16_DL125 FAT

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	390	1,000	551.5	5,724.6	98	30.4	1,328.53	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
 Modified: 6/1/2015 1:23:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 17 DL125 HYPO

Number of peaks found: 7 Corr. Area 1: 952.0
 Noise: 0.1

Peak table for sample 6 : 17 DL125 HYPO

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	297	749.15	3,818.7		68.07
3	322	312.85	1,473.6		70.09
4	351	313.37	1,353.7		72.48
5	366	175.74	726.7		73.77
6	382	569.32	2,257.6		75.06
7	441	308.89	1,062.2		78.92
8	601	112.84	284.3		87.01
9	10,380	75.00	10.9	Upper Marker	113.00

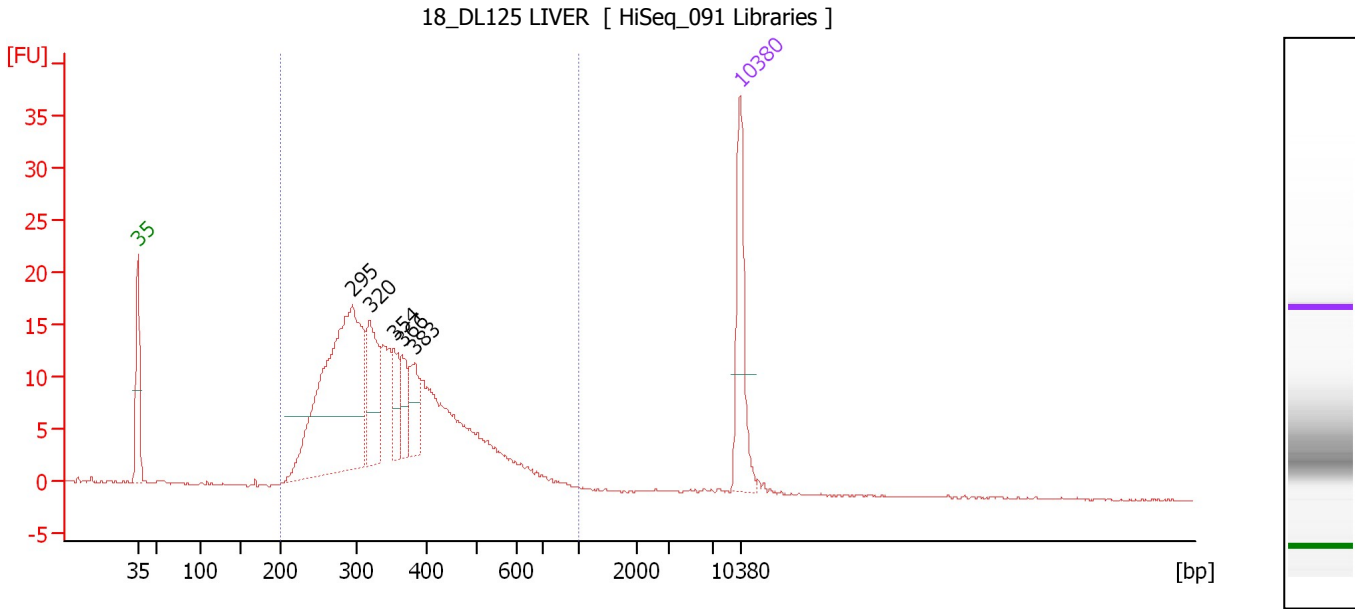
Region table for sample 6 : 17 DL125 HYPO

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	400	1,237	952.0	13,387.2	99	31.5	3,174.57	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
 Modified: 6/1/2015 1:23:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 18 DL125 LIVER

Number of peaks found: 5 Corr. Area 1: 327.3
 Noise: 0.1

Peak table for sample 7 : 18 DL125 LIVER

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	295	401.41	2,059.3		67.90
3	320	91.38	432.8		69.95
4	354	37.30	159.7		72.73
5	366	32.79	135.8		73.73
6	383	40.51	160.2		75.15
7	10,380	75.00	10.9	Upper Marker	113.00

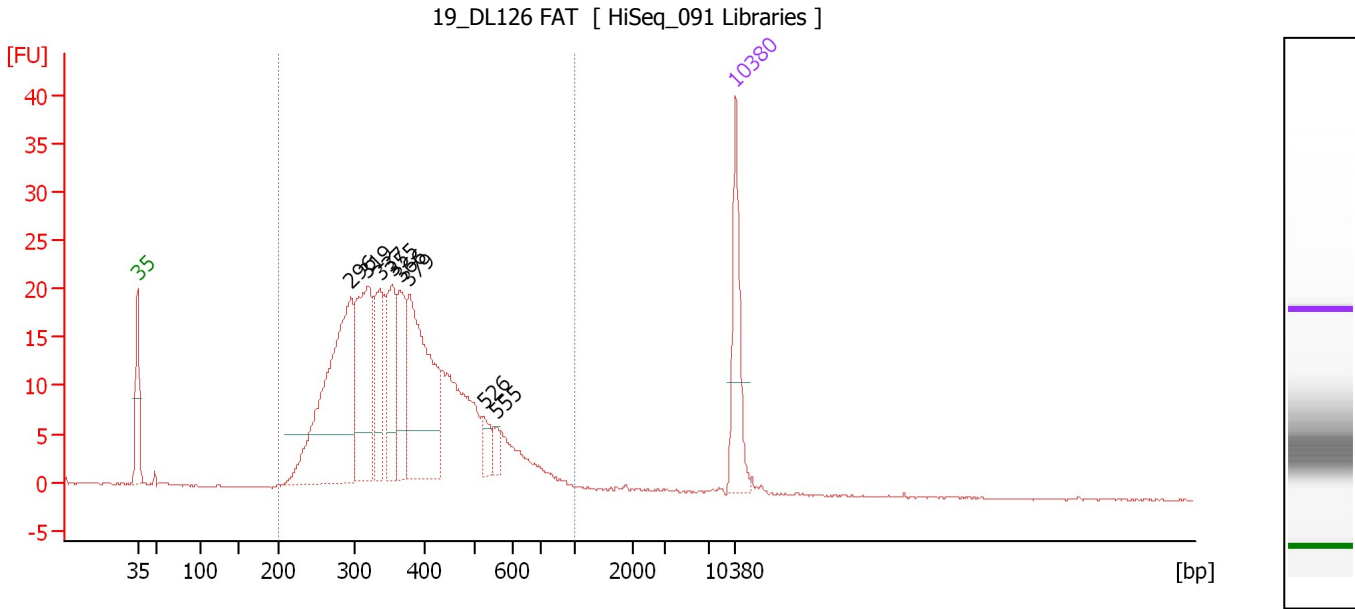
Region table for sample 7 : 18 DL125 LIVER

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	364	1,000	327.3	4,964.0	98	28.9	1,088.15	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
 Modified: 6/1/2015 1:23:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 19_DL126 FAT

Number of peaks found: 8 Corr. Area 1: 442.1
 Noise: 0.1

Peak table for sample 8 : 19_DL126 FAT

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	296	350.94	1,796.7		67.96
3	319	194.62	923.8		69.89
4	337	90.66	407.1		71.39
5	355	98.64	421.2		72.82
6	366	84.09	348.6		73.70
7	379	227.78	910.2		74.82
8	526	24.77	71.3		83.61
9	555	12.88	35.1		84.93
10	10,380	75.00	10.9	Upper Marker	113.00

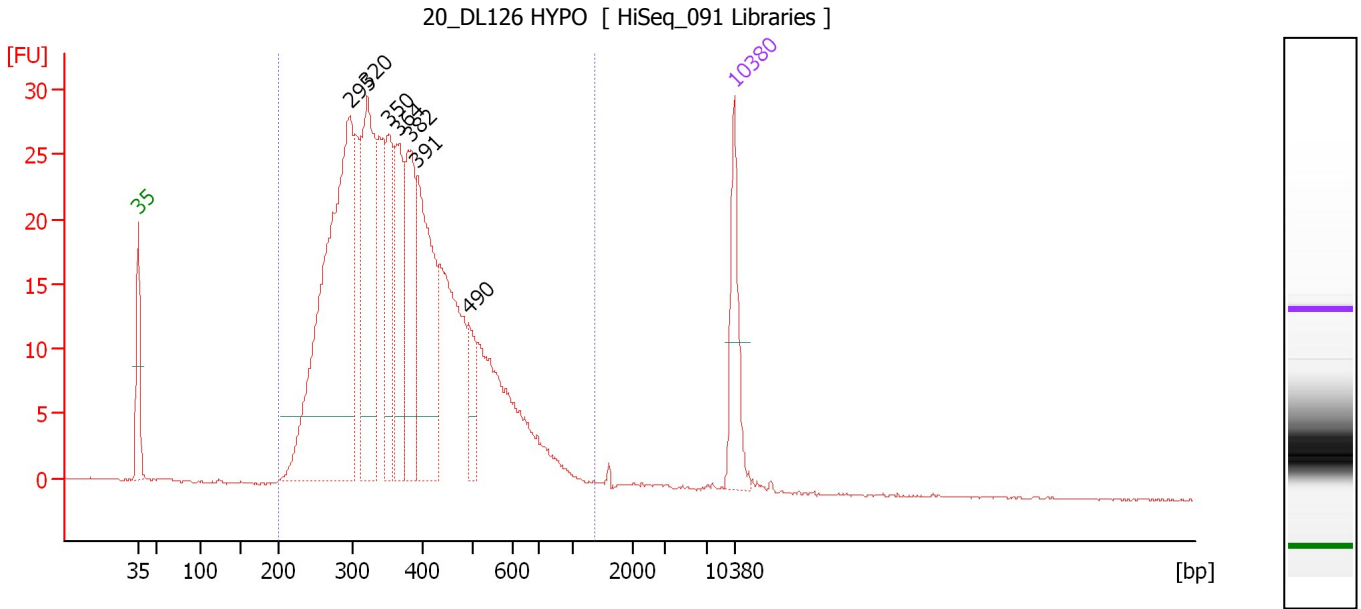
Region table for sample 8 : 19_DL126 FAT

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	384	1,000	442.1	6,383.6	98	28.5	1,474.14	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
 Modified: 6/1/2015 1:23:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 20_DL126 HYPO

Number of peaks found: 7 Corr. Area 1: 616.0
 Noise: 0.1

Peak table for sample 9 : 20_DL126 HYPO

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	295	683.66	3,513.4		67.86
3	320	286.67	1,359.1		69.92
4	350	132.23	572.3		72.43
5	364	132.27	550.9		73.55
6	382	162.42	644.1		75.06
7	391	245.68	951.5		75.81
8	490	54.39	168.2		81.82
9	10,380	75.00	10.9	Upper Marker	113.00

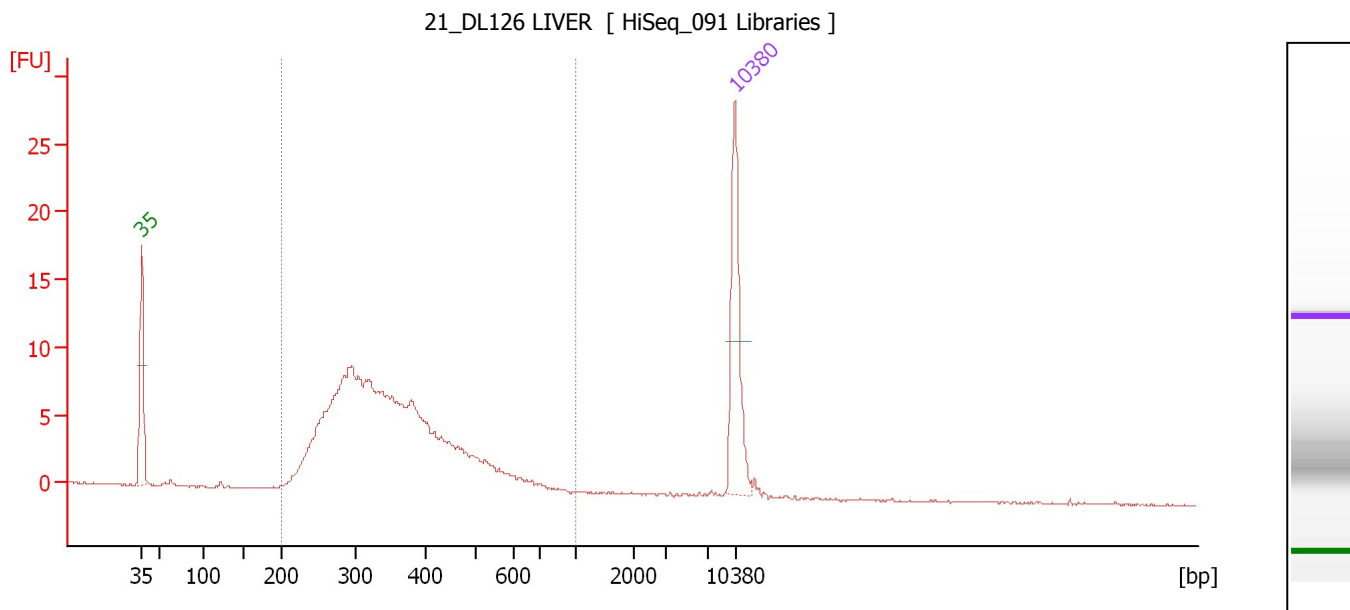
Region table for sample 9 : 20_DL126 HYPO

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	386	1,360	616.0	11,172.4	99	31.6	2,567.89	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
 Modified: 6/1/2015 1:23:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 21_DL126 LIVER

Number of peaks found: 0 Corr. Area 1: 161.8
 Noise: 0.1

Peak table for sample 10 : 21_DL126 LIVER

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

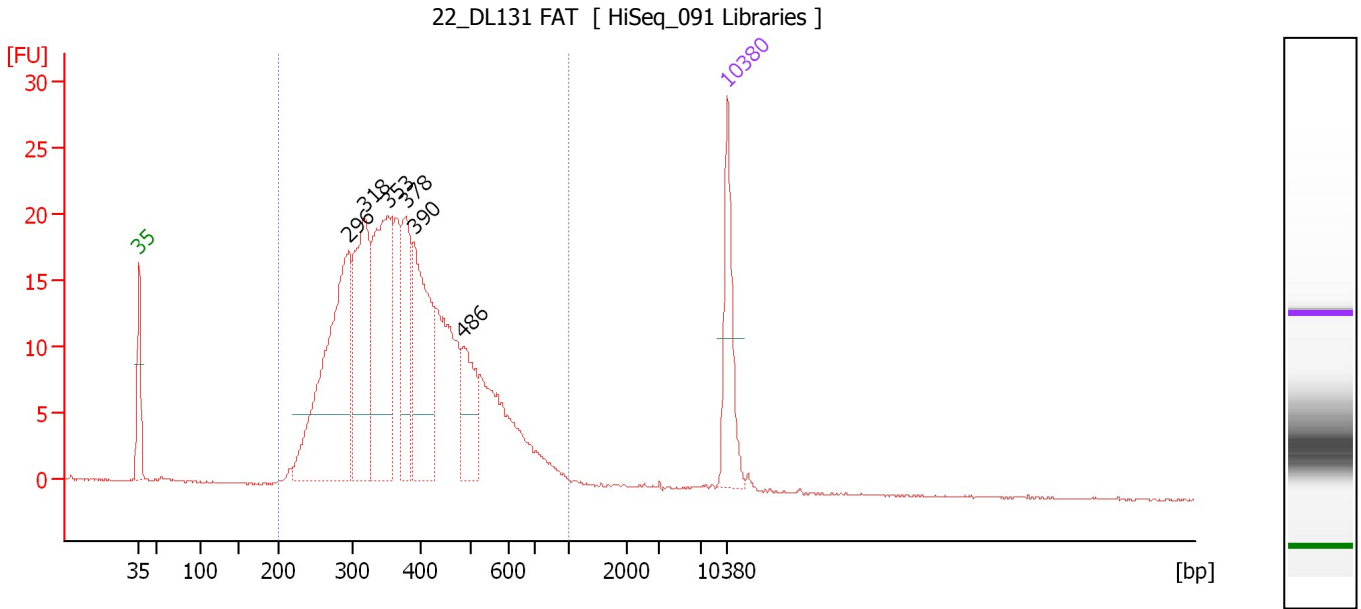
Region table for sample 10 : 21_DL126 LIVER

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	360	1,000	161.8	3,048.5	98	27.5	665.01	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
 Modified: 6/1/2015 1:23:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 22 DL131 FAT

Number of peaks found: 6 Corr. Area 1: 435.2
 Noise: 0.1

Peak table for sample 11 : 22 DL131 FAT

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	296	361.53	1,851.9		67.94
3	318	225.18	1,073.3		69.78
4	353	250.86	1,077.8		72.64
5	378	112.74	451.7		74.73
6	390	182.80	710.7		75.68
7	486	80.56	251.2		81.59
8	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 22 DL131 FAT

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	395	1,000	435.2	7,431.1	98	29.3	1,755.83	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-01\2015-06-01_002.xad

Created: 6/1/2015 12:37:39 PM
Modified: 6/1/2015 1:23:36 PM

Gel Image

