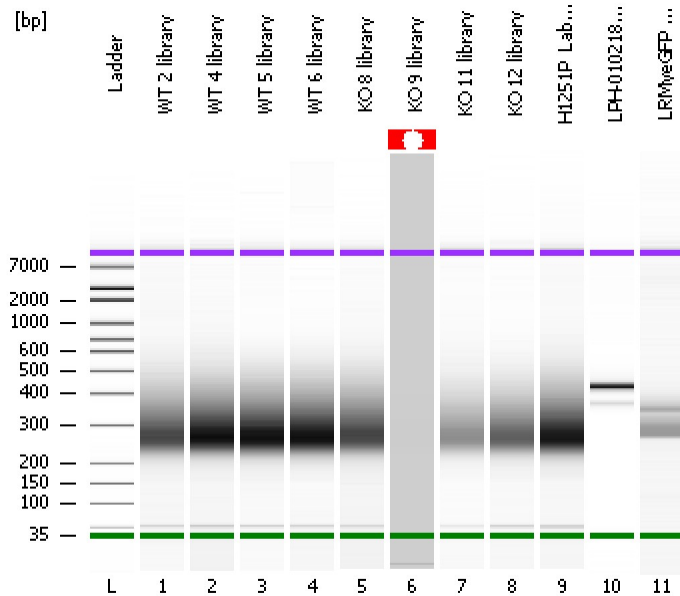


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
 Modified: 1/9/2018 4:15:06 PM

Electrophoresis File Run Summary



Instrument Information:

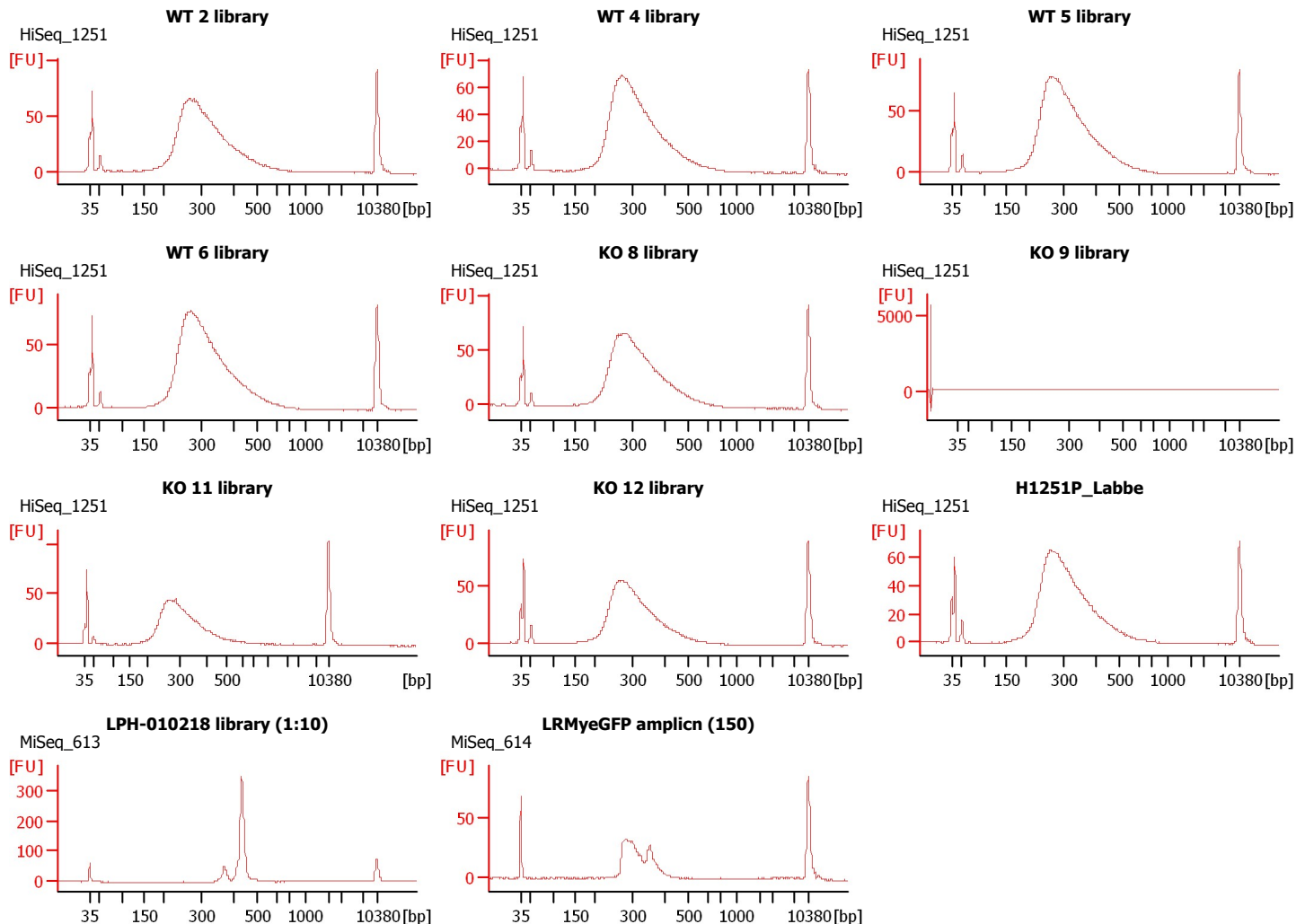
Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

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:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
Modified: 1/9/2018 4:15:06 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
WT 2 library	HiSeq_1251	<input type="checkbox"/>	✓			
WT 4 library	HiSeq_1251	<input type="checkbox"/>	✓			
WT 5 library	HiSeq_1251	<input type="checkbox"/>	✓			
WT 6 library	HiSeq_1251	<input type="checkbox"/>	✓			
KO 8 library	HiSeq_1251	<input type="checkbox"/>	✓			
KO 9 library	HiSeq_1251	<input type="checkbox"/>	⚠			
KO 11 library	HiSeq_1251	<input type="checkbox"/>	✓			
KO 12 library	HiSeq_1251	<input type="checkbox"/>	✓			
H1251P_Labbe	HiSeq_1251	<input type="checkbox"/>	✓			
LPH-010218 library (1:10)	MiSeq_613	<input type="checkbox"/>	✓			
LRMyeGFP amplicn (150)	MiSeq_614	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

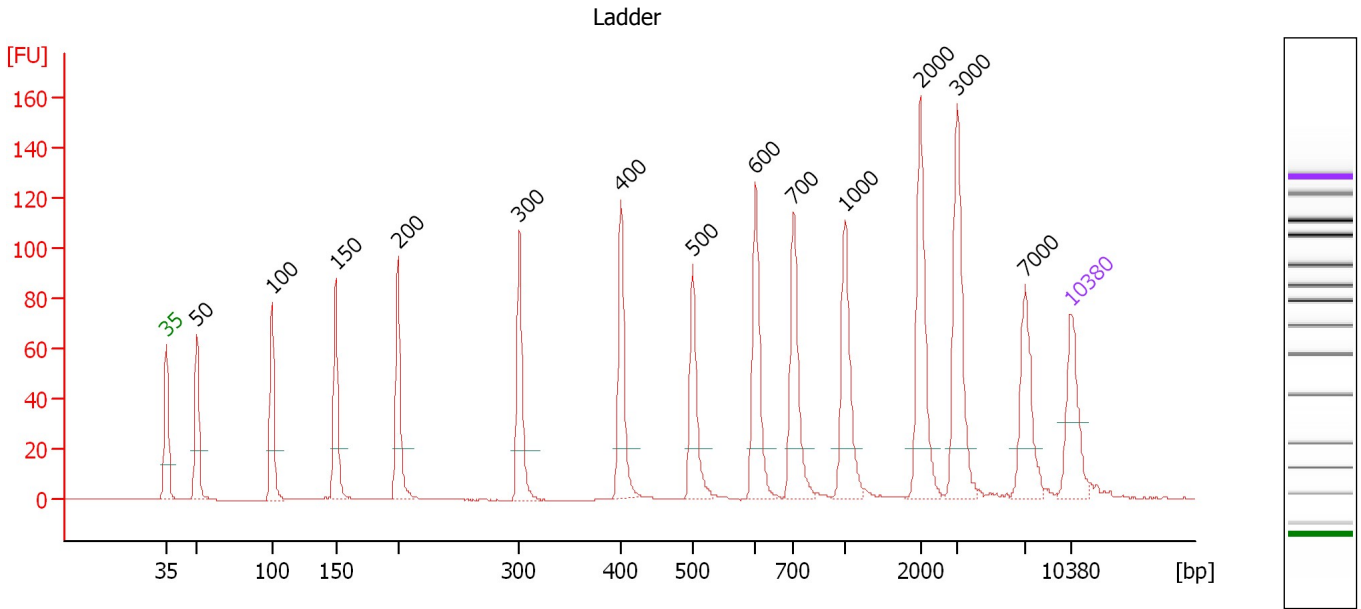
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
 Modified: 1/9/2018 4:15:06 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

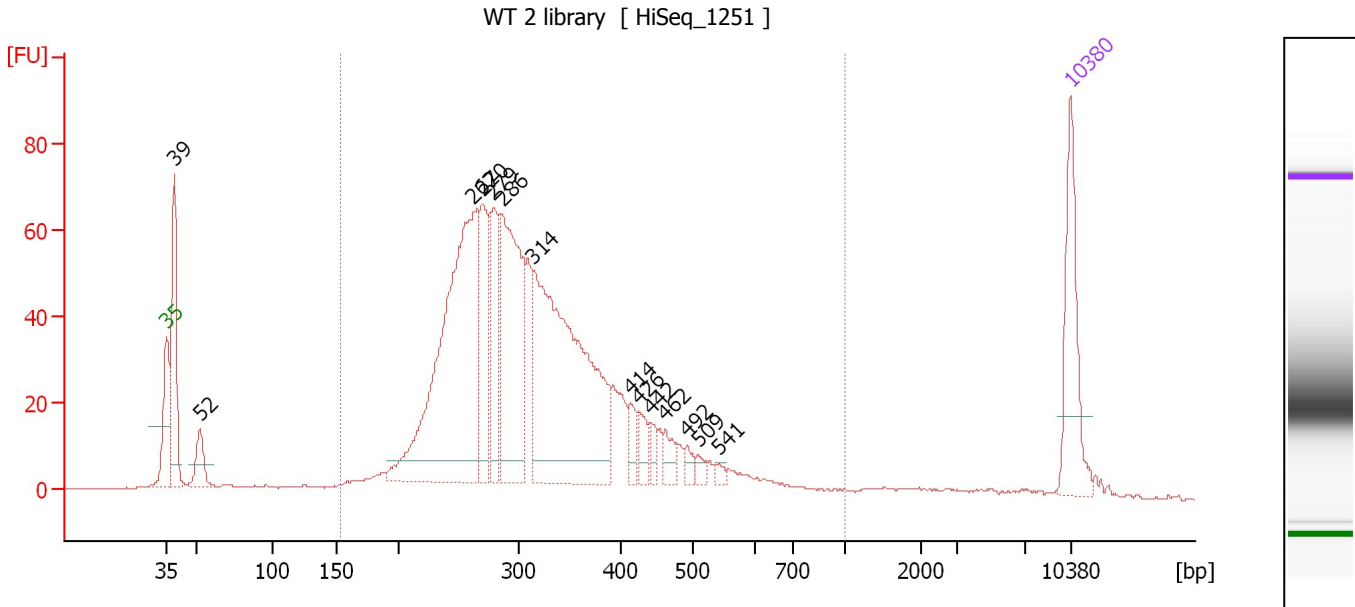
Peak table for Ladder

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	45.38
3	100	150.00	2,272.7	Ladder Peak	51.16
4	150	150.00	1,515.2	Ladder Peak	56.10
5	200	150.00	1,136.4	Ladder Peak	60.90
6	300	150.00	757.6	Ladder Peak	70.31
7	400	150.00	568.2	Ladder Peak	78.19
8	500	150.00	454.5	Ladder Peak	83.73
9	600	150.00	378.8	Ladder Peak	88.58
10	700	150.00	324.7	Ladder Peak	91.56
11	1,000	150.00	227.3	Ladder Peak	95.52
12	2,000	150.00	113.6	Ladder Peak	101.35
13	3,000	150.00	75.8	Ladder Peak	104.24
14	7,000	150.00	32.5	Ladder Peak	109.50
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
 Modified: 1/9/2018 4:15:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : WT 2 library

Number of peaks found: 14 Corr. Area 1: 1,299.6
 Noise: 0.2

Peak table for sample 1 : WT 2 library

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	160.87	6,278.4		43.61
3	52	40.54	1,181.0		45.61
4	262	470.76	2,718.5		66.77
5	270	102.30	574.5		67.47
6	279	99.06	538.5		68.31
7	286	234.19	1,242.2		68.96
8	314	437.83	2,115.3		71.38
9	414	20.91	76.5		78.98
10	426	19.26	68.5		79.63
11	442	13.54	46.4		80.52
12	462	17.86	58.5		81.64
13	492	10.73	33.0		83.31
14	509	8.13	24.2		84.15
15	541	5.79	16.2		85.74
16	10,380	75.00	10.9	Upper Marker	113.00

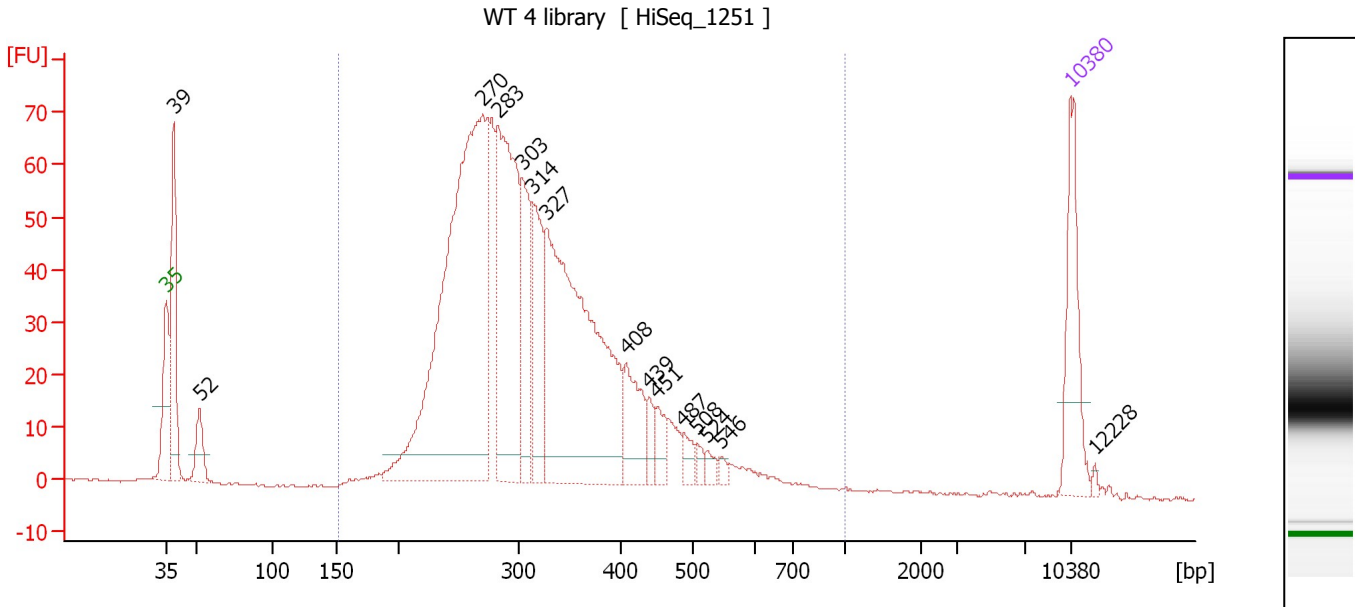
Region table for sample 1 : WT 2 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
155	1,000	325	1,299.6	1,807.92	9,220.0	89	29.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
 Modified: 1/9/2018 4:15:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : WT 4 library

Number of peaks found: 15 Corr. Area 1: 1,313.9
 Noise: 0.3

Peak table for sample 2 : WT 4 library

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	172.49	6,782.9		43.56
3	52	45.95	1,349.0		45.56
4	270	727.39	4,084.9		67.47
5	283	318.41	1,706.7		68.68
6	303	117.28	586.5		70.54
7	314	115.23	556.7		71.38
8	327	489.71	2,271.7		72.41
9	408	67.98	252.7		78.61
10	439	19.84	68.4		80.38
11	451	23.32	78.3		81.03
12	487	16.09	50.1		82.99
13	508	7.85	23.4		84.11
14	524	8.62	24.9		84.90
15	546	6.55	18.2		85.97
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,228	0.00	0.0		114.91

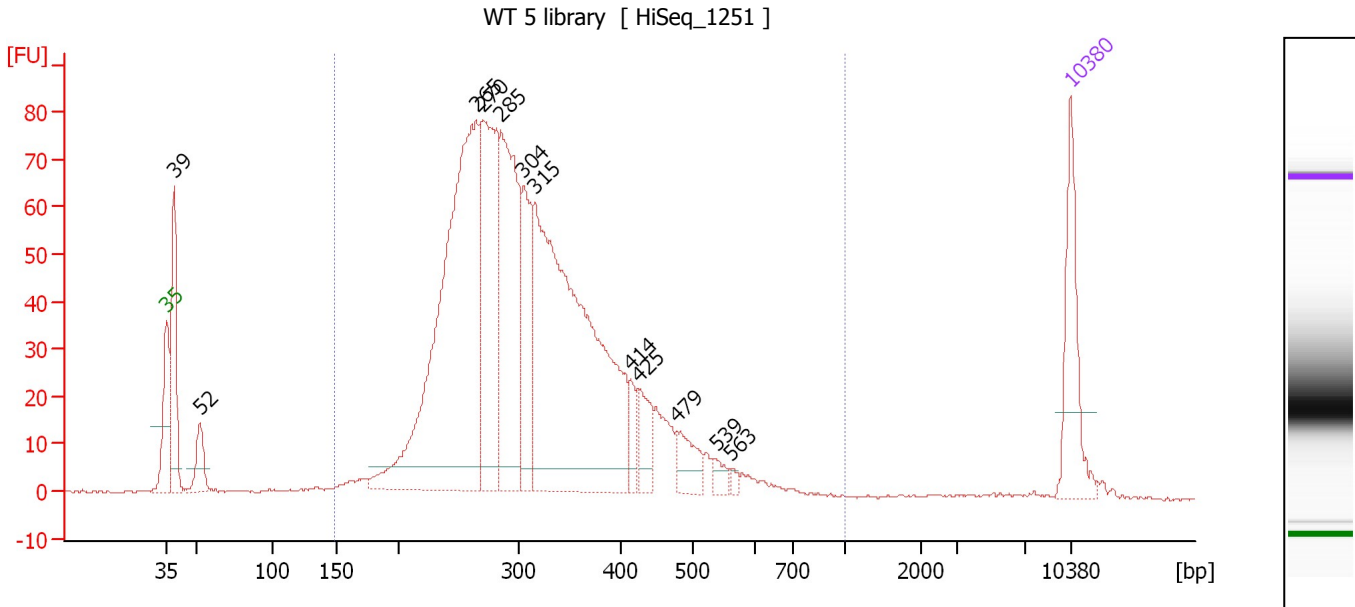
Region table for sample 2 : WT 4 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
153	1,000	323	1,313.9	2,144.83	10,846.3	92	26.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
 Modified: 1/9/2018 4:15:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : WT 5 library

Number of peaks found: 12 Corr. Area 1: 1,513.3
 Noise: 0.3

Peak table for sample 3 : WT 5 library

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	162.05	6,320.1		43.61
3	52	47.08	1,378.2		45.58
4	265	686.34	3,930.6		66.97
5	270	289.79	1,625.9		67.49
6	285	296.18	1,574.6		68.90
7	304	114.84	572.2		70.63
8	315	676.02	3,247.3		71.53
9	414	25.38	93.0		78.94
10	425	42.71	152.4		79.55
11	479	38.81	122.8		82.55
12	539	12.68	35.7		85.60
13	563	4.95	13.3		86.77
14	10,380	75.00	10.9	Upper Marker	113.00

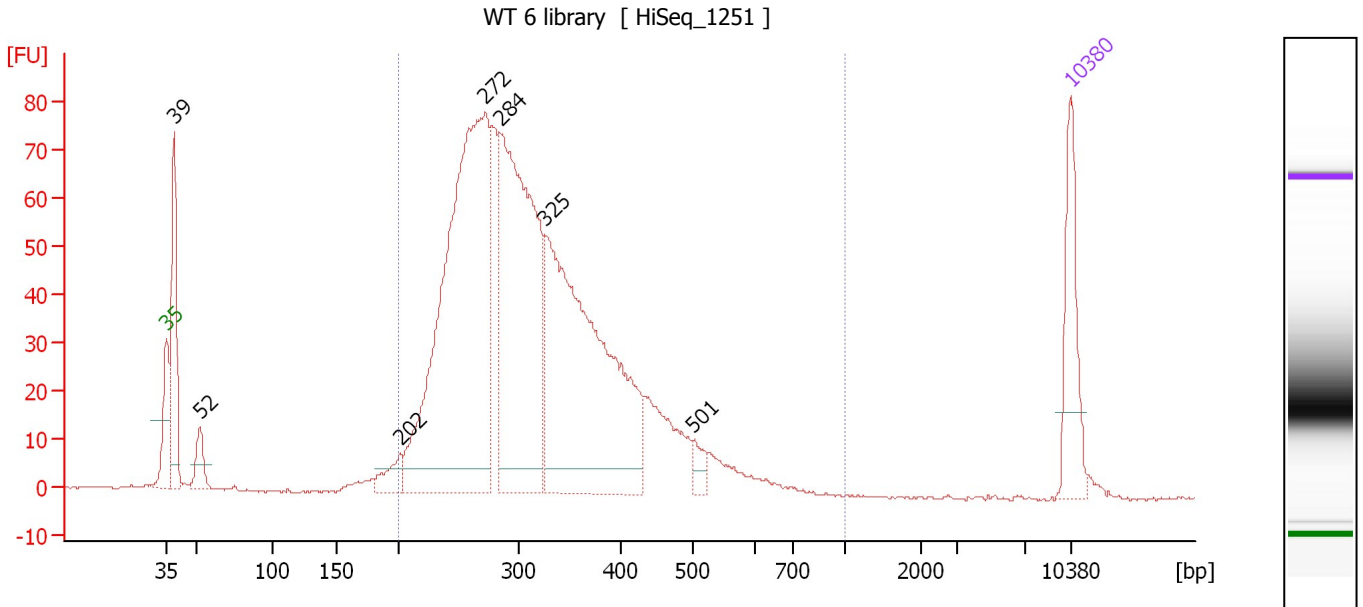
Region table for sample 3 : WT 5 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
149	1,000	320	1,513.3	2,298.51	11,781.3	92	25.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
 Modified: 1/9/2018 4:15:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : WT 6 library

Number of peaks found: 7 Corr. Area 1: 1,417.0
 Noise: 0.3

Peak table for sample 4 : WT 6 library

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	173.41	6,754.0		43.62
3	52	39.94	1,171.7		45.57
4	202	33.31	249.4		61.12
5	272	791.38	4,407.2		67.68
6	284	532.10	2,836.8		68.82
7	325	586.11	2,730.9		72.29
8	501	17.39	52.6		83.80
9	10,380	75.00	10.9	Upper Marker	113.00

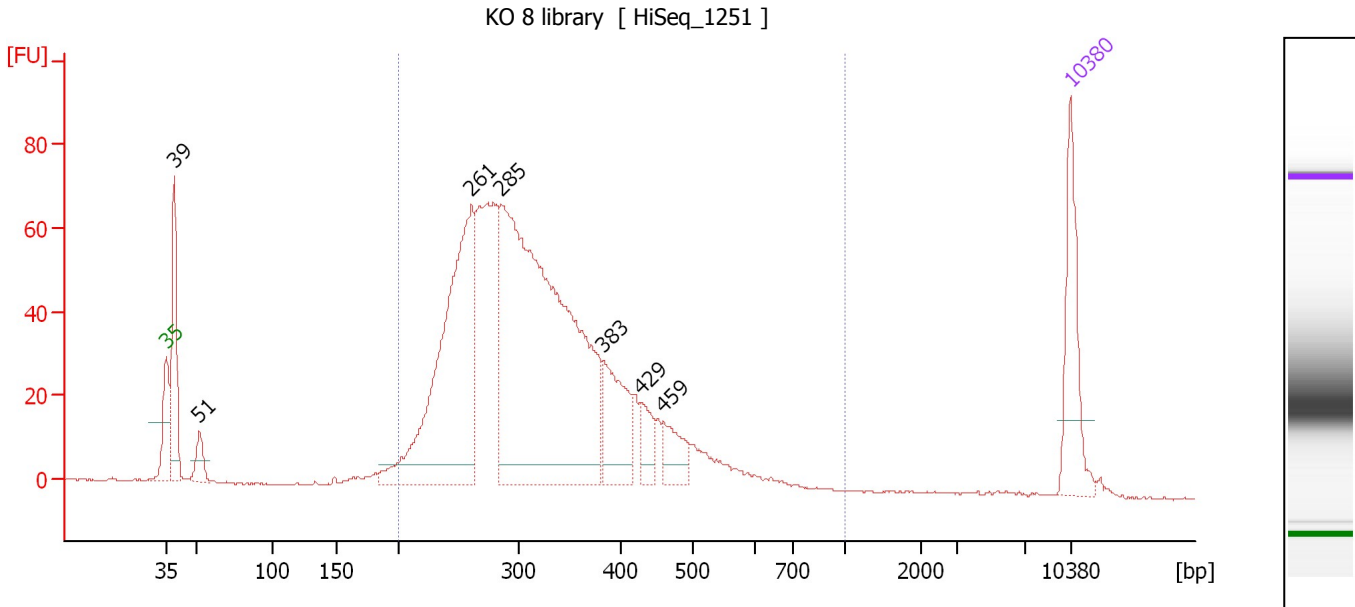
Region table for sample 4 : WT 6 library

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	320	1,417.0	2,137.12	10,802.1	92	24.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
 Modified: 1/9/2018 4:15:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : KO 8 library

Number of peaks found: 7 Corr. Area 1: 1,304.4
 Noise: 0.3

Peak table for sample 5 : KO 8 library

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	151.39	5,890.7		43.62
3	51	33.90	998.2		45.54
4	261	454.17	2,638.4		66.62
5	285	822.86	4,377.9		68.88
6	383	99.58	393.9		76.85
7	429	31.93	112.9		79.78
8	459	41.55	137.2		81.46
9	10,380	75.00	10.9	Upper Marker	113.00

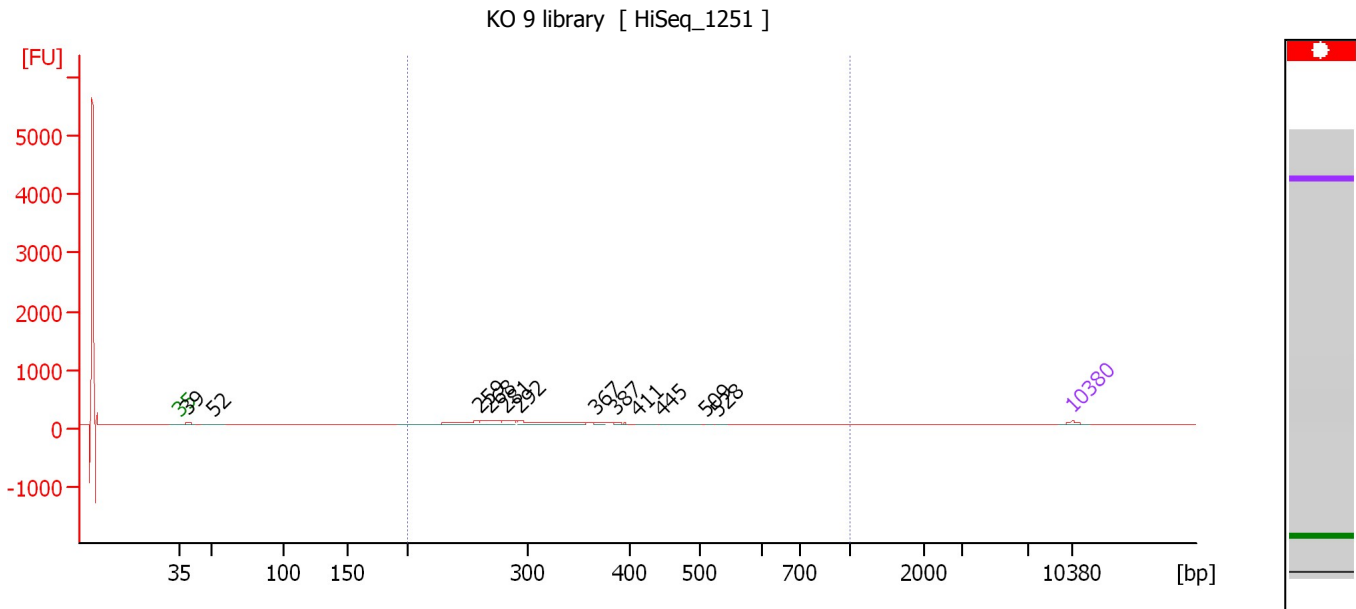
Region table for sample 5 : KO 8 library

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	326	1,304.4	1,759.95	8,778.9	91	25.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
 Modified: 1/9/2018 4:15:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : KO 9 library

Number of peaks found: 12 Corr. Area 1: 29,319.2
 Noise: 0.3

Peak table for sample 6 : KO 9 library

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	166.19	6,463.0		43.63
3	52	38.97	1,145.0		45.56
4	259	529.30	3,101.0		66.41
5	268	314.16	1,773.8		67.33
6	281	203.72	1,097.8		68.54
7	292	711.74	3,687.4		69.60
8	367	66.60	275.0		75.59
9	387	65.00	254.3		77.18
10	411	69.52	256.0		78.82
11	445	84.15	286.3		80.70
12	509	10.42	31.0		84.18
13	528	9.23	26.5		85.10
14	10,380	75.00	10.9	Upper Marker	113.00

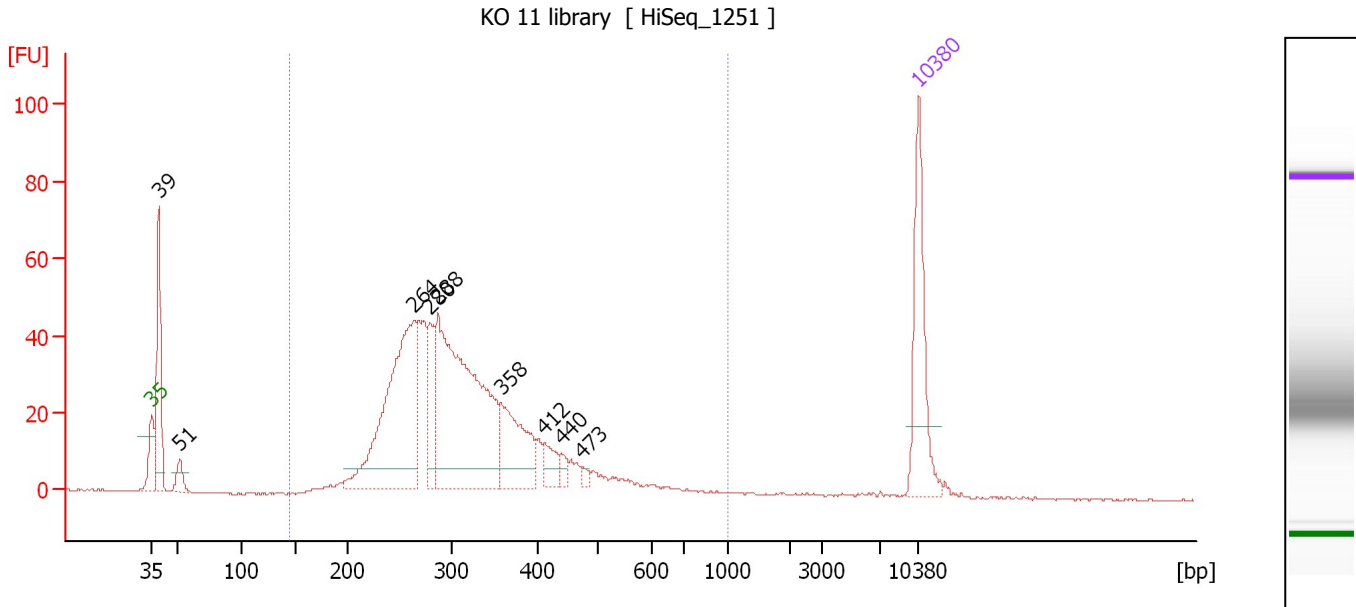
Region table for sample 6 : KO 9 library

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	414	29,319.2	50,640.06	232,758.5	33	43.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
 Modified: 1/9/2018 4:15:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : KO 11 library

Number of peaks found: 9 Corr. Area 1: 832.6
 Noise: 0.2

Peak table for sample 7 : KO 11 library

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	131.95	5,127.0		43.63
3	51	20.40	602.0		45.53
4	264	264.13	1,514.1		66.95
5	280	53.77	291.1		68.41
6	288	338.39	1,782.9		69.14
7	358	87.71	371.2		74.88
8	412	20.73	76.3		78.83
9	440	9.21	31.7		80.39
10	473	5.36	17.2		82.24
11	10,380	75.00	10.9	Upper Marker	113.00

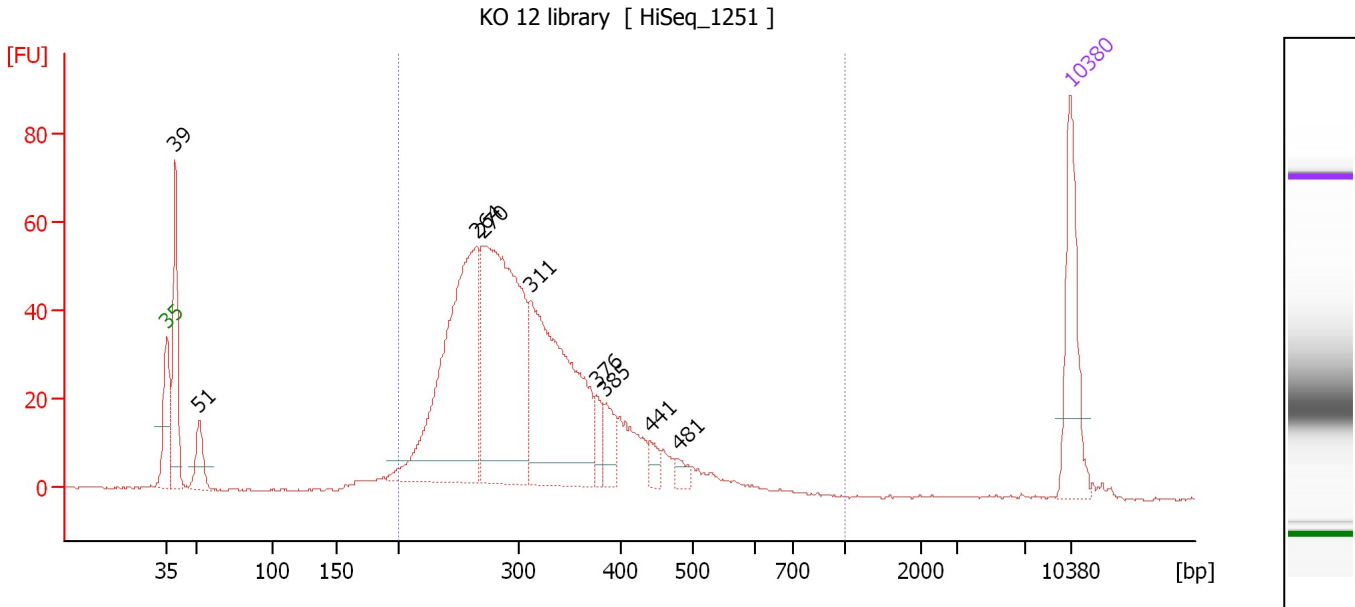
Region table for sample 7 : KO 11 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
144	1,000	324	832.6	973.69	4,939.5	88	28.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
 Modified: 1/9/2018 4:15:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : KO 12 library

Number of peaks found: 9 Corr. Area 1: 988.3
 Noise: 0.2

Peak table for sample 8 : KO 12 library

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	149.72	5,770.8		43.68
3	51	43.69	1,288.4		45.54
4	264	388.30	2,225.9		66.95
5	270	409.26	2,300.9		67.44
6	311	318.83	1,552.1		71.20
7	376	21.81	88.0		76.27
8	385	29.07	114.4		77.00
9	441	12.62	43.3		80.46
10	481	10.31	32.5		82.66
11	10,380	75.00	10.9	Upper Marker	113.00

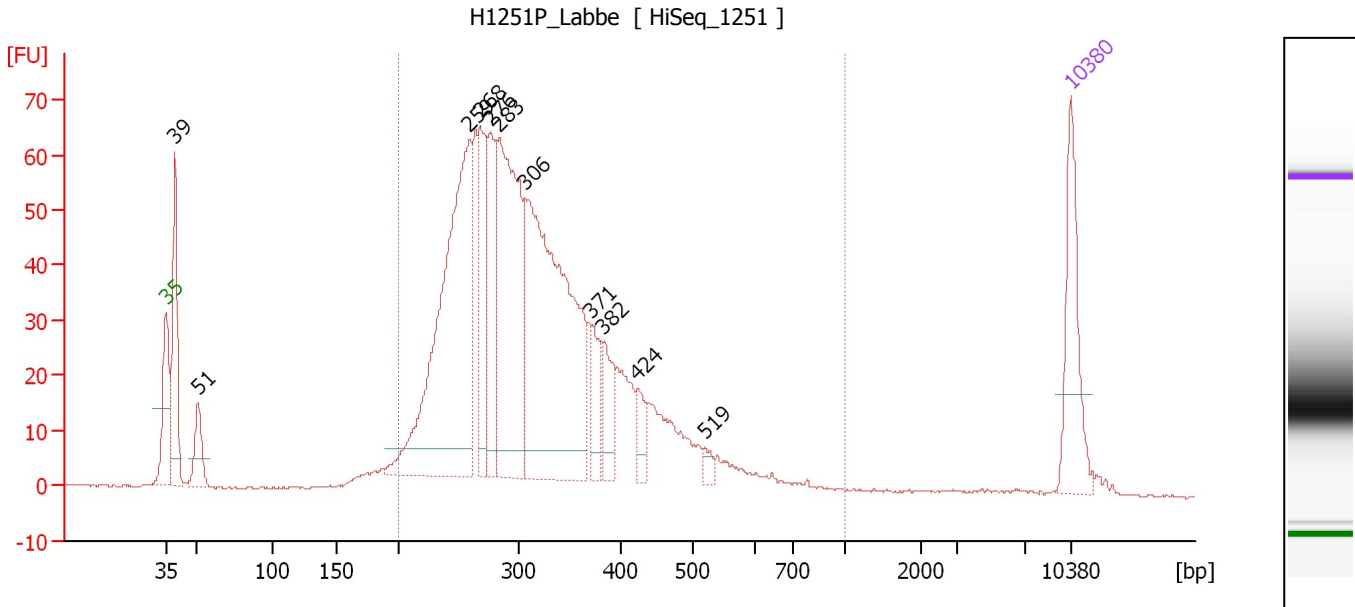
Region table for sample 8 : KO 12 library

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	317	988.3	1,353.87	6,889.5	88	24.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
 Modified: 1/9/2018 4:15:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : H1251P Labbe

Number of peaks found: 11 Corr. Area 1: 1,214.3
 Noise: 0.2

Peak table for sample 9 : H1251P Labbe

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	157.23	6,107.0		43.64
3	51	52.34	1,568.2		45.44
4	259	472.01	2,761.6		66.45
5	268	118.95	673.0		67.28
6	276	106.92	586.8		68.06
7	283	324.53	1,735.3		68.74
8	306	490.67	2,433.2		70.75
9	371	44.95	183.5		75.92
10	382	49.35	195.5		76.80
11	424	24.84	88.9		79.49
12	519	9.38	27.4		84.67
13	10,380	75.00	10.9	Upper Marker	113.00

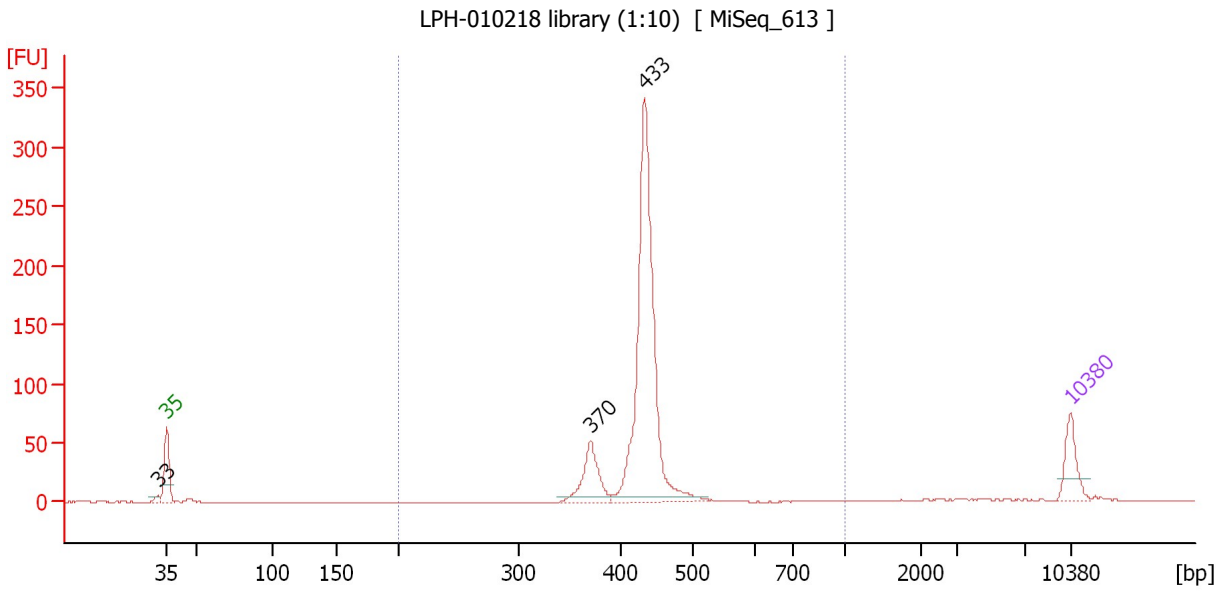
Region table for sample 9 : H1251P Labbe

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	325	1,214.3	2,049.61	10,317.0	90	27.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
 Modified: 1/9/2018 4:15:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : LPH-010218 library (1:10)

Number of peaks found: 3 Corr. Area 1: 724.0
 Noise: 0.3

Peak table for sample 10 : LPH-010218 library (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.31
2	35	125.00	5,411.3	Lower Marker	43.00
3	370	165.75	678.6		75.83
4	433	978.65	3,423.4		80.02
5	10,380	75.00	10.9	Upper Marker	113.00

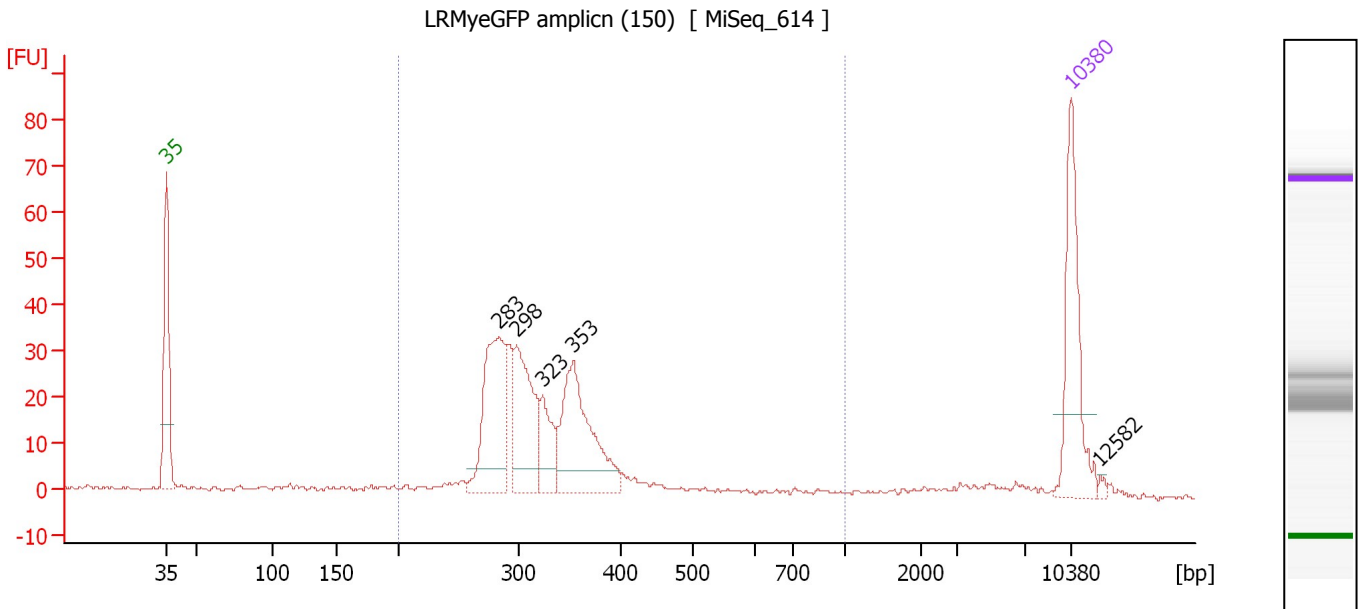
Region table for sample 10 : LPH-010218 library (1:10)

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	432	724.0	1,157.06	4,103.8	92	11.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
 Modified: 1/9/2018 4:15:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : LRMyeGFP amplicn (150)

Number of peaks found: 5 Corr. Area 1: 377.7
 Noise: 0.5

Peak table for sample 11 : LRMyeGFP amplicn (150)

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	283	133.62	715.8		68.69
3	298	104.45	530.9		70.13
4	323	42.37	198.8		72.11
5	353	130.53	560.2		74.49
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,582	0.00	0.0		115.28

Region table for sample 11 : LRMyeGFP amplicn (150)

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	336	377.7	501.95	2,392.0	85	26.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-09\2018-01-09_001.xad

Created: 1/9/2018 3:27:19 PM
Modified: 1/9/2018 4:15:06 PM

Gel Image

