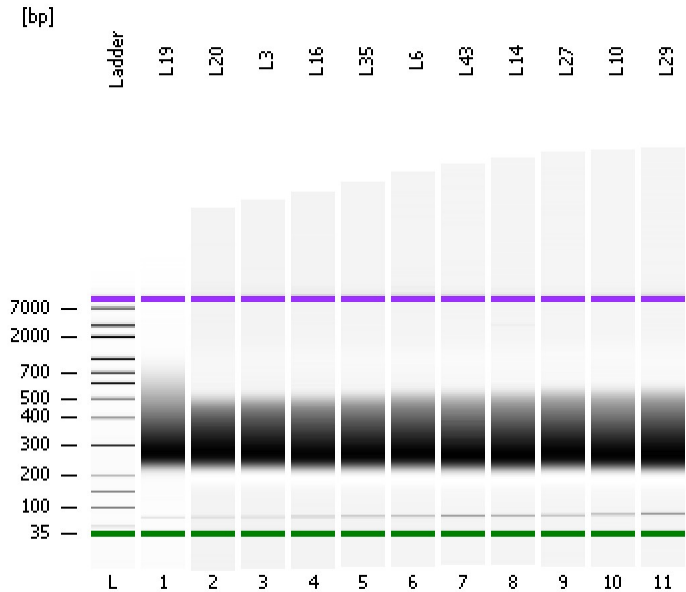


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
Modified: 6/21/2018 3:02:54 PM

Electrophoresis File Run Summary



Instrument Information:

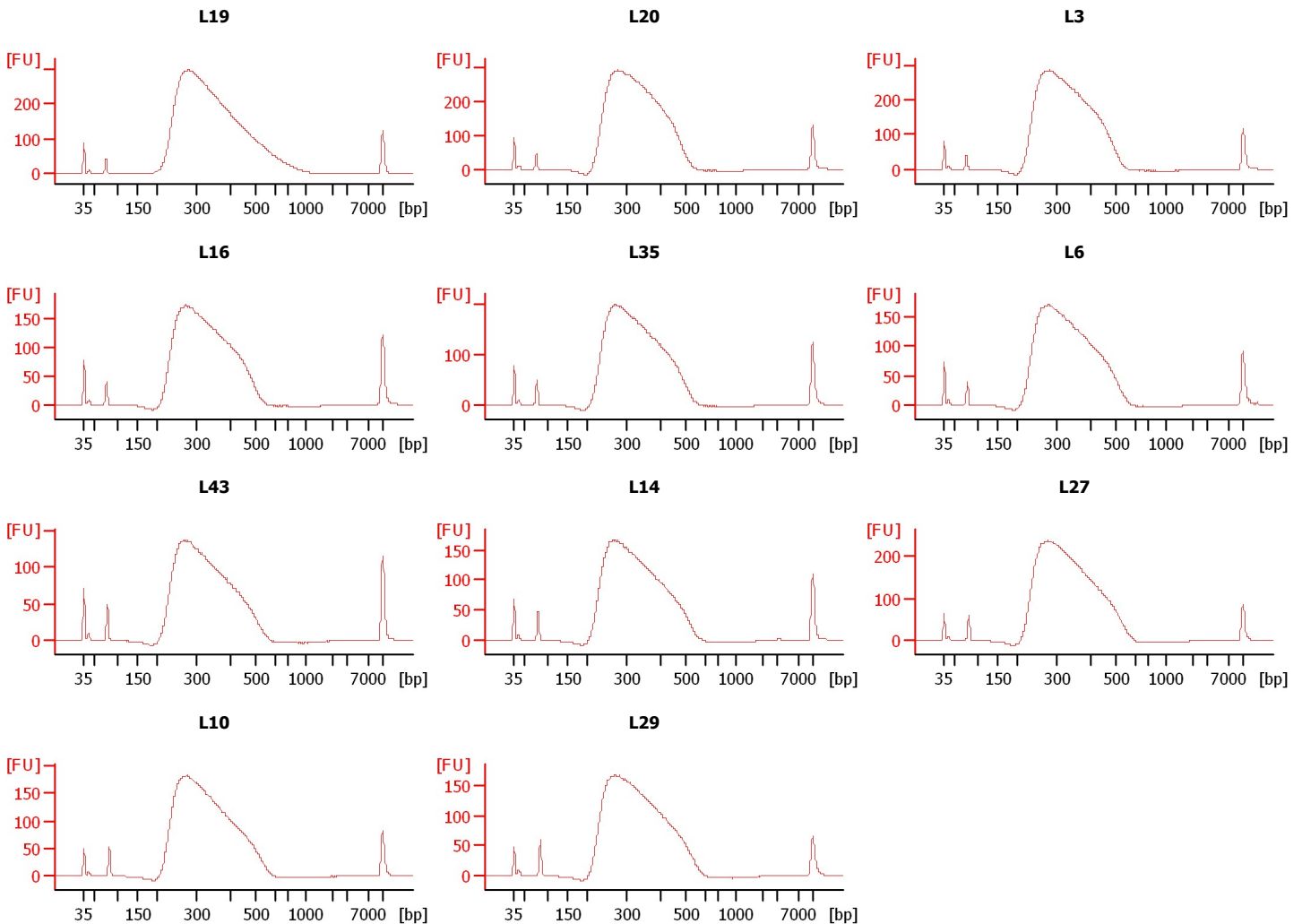
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
 Modified: 6/21/2018 3:02:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
L19		<input type="checkbox"/>	✓			
L20		<input type="checkbox"/>	✓			
L3		<input type="checkbox"/>	✓			
L16		<input type="checkbox"/>	✓			
L35		<input type="checkbox"/>	✓			
L6		<input type="checkbox"/>	✓			
L43		<input type="checkbox"/>	✓			
L14		<input type="checkbox"/>	✓			
L27		<input type="checkbox"/>	✓			
L10		<input type="checkbox"/>	✓			
L29		<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\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
Modified: 6/21/2018 3:02:54 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

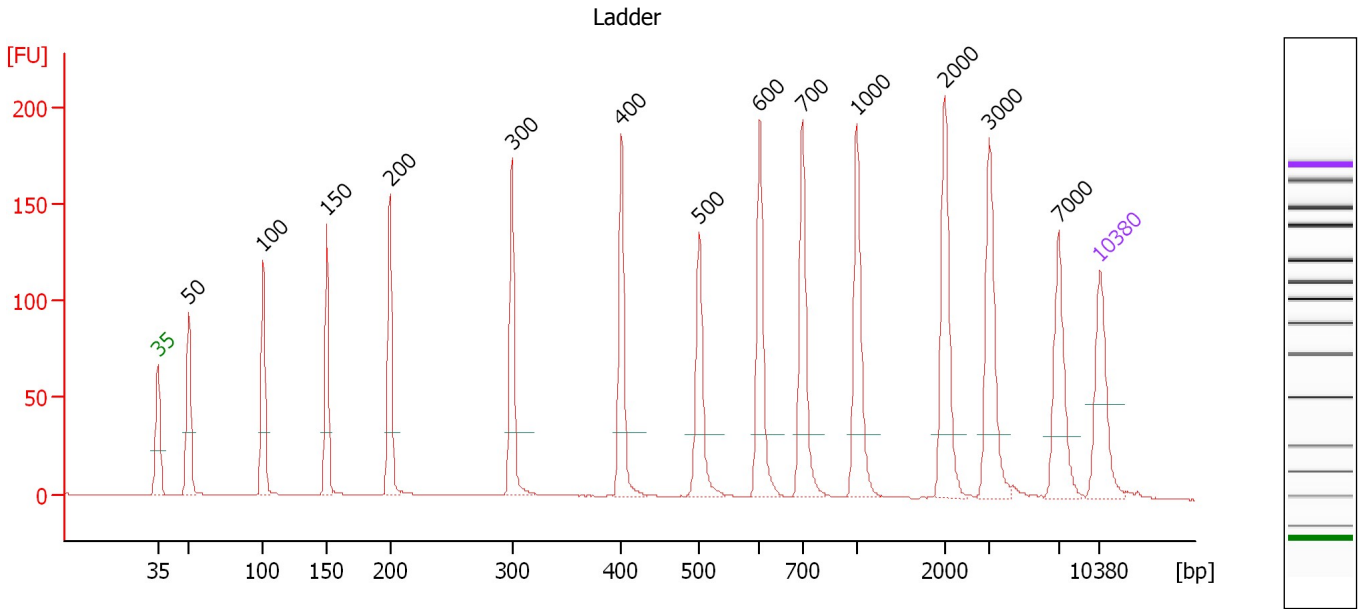
Ladder

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\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

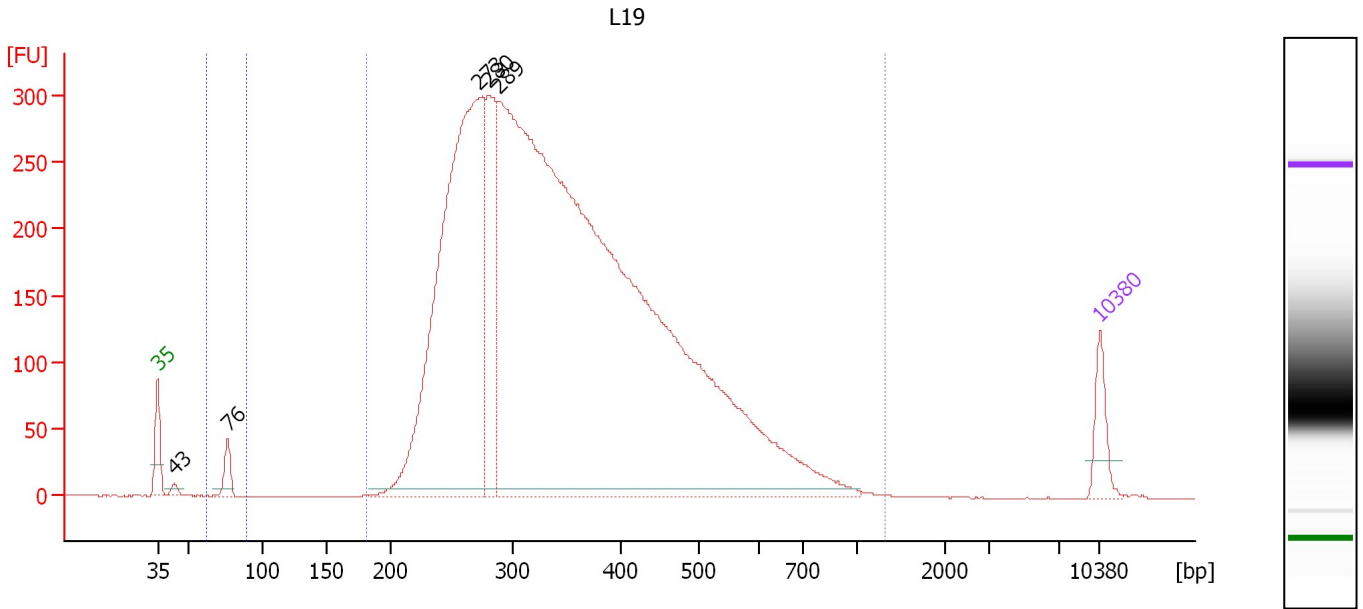
Peak table for Ladder

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	50.86
4	150	150.00	1,515.2	Ladder Peak	55.58
5	200	150.00	1,136.4	Ladder Peak	60.24
6	300	150.00	757.6	Ladder Peak	69.33
7	400	150.00	568.2	Ladder Peak	77.44
8	500	150.00	454.5	Ladder Peak	83.18
9	600	150.00	378.8	Ladder Peak	87.70
10	700	150.00	324.7	Ladder Peak	90.89
11	1,000	150.00	227.3	Ladder Peak	94.92
12	2,000	150.00	113.6	Ladder Peak	101.51
13	3,000	150.00	75.8	Ladder Peak	104.75
14	7,000	150.00	32.5	Ladder Peak	109.91
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
 Modified: 6/21/2018 3:02:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : L19

Number of peaks found: 5 Corr. Area 1: 6,831.7
 Noise: 0.2 Corr. Area 2: 47.7

Peak table for sample 1 : L19

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	43	19.56	687.2		44.25
3	76	69.66	1,388.6		48.20
4	273	2,000.06	11,097.3		66.88
5	280	491.61	2,658.1		67.53
6	289	5,857.88	30,709.3		68.33
7	10,380	75.00	10.9	Upper Marker	113.00

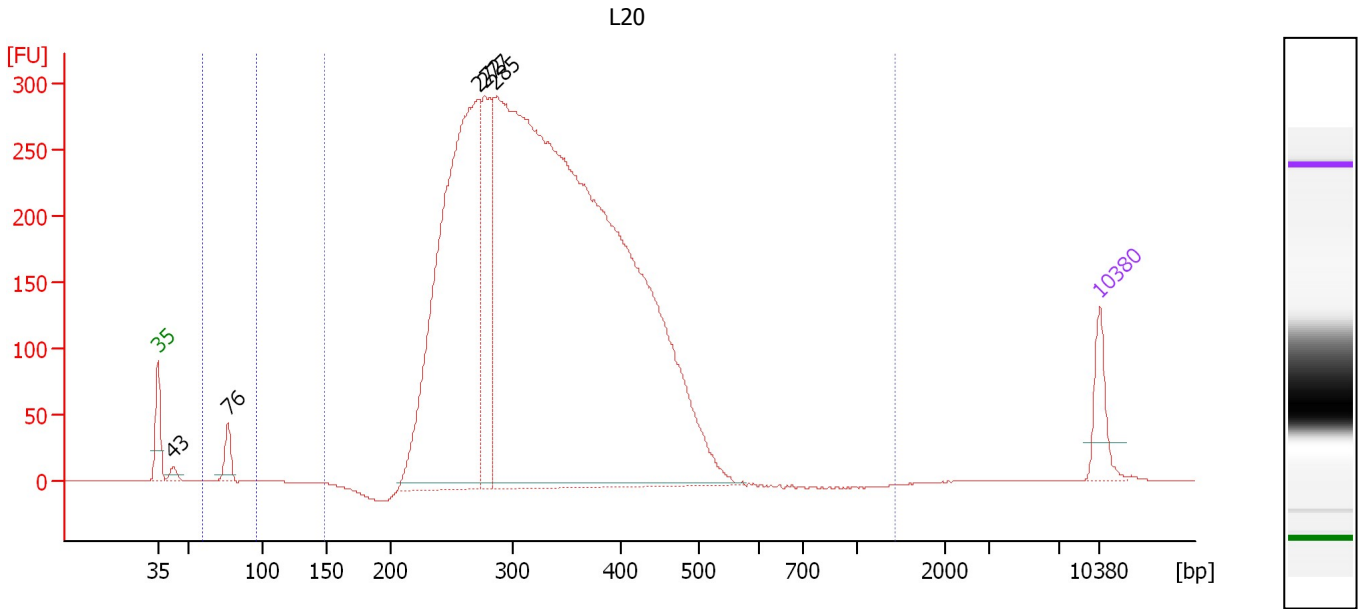
Region table for sample 1 : L19

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
61	89	75	69.86	47.7	1,402.2	1	2.8
182	1,318	361	7,454.31	6,831.7	34,802.1	99	31.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
 Modified: 6/21/2018 3:02:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : L20

Number of peaks found: 5 Corr. Area 1: 6,089.9
 Noise: 0.2 Corr. Area 2: 48.4

Peak table for sample 2 : L20

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	43	21.17	753.7		44.16
3	76	64.98	1,293.3		48.21
4	272	1,706.69	9,492.8		66.82
5	277	432.48	2,362.1		67.28
6	285	4,965.59	26,379.4		67.99
7	10,380	75.00	10.9	Upper Marker	113.00

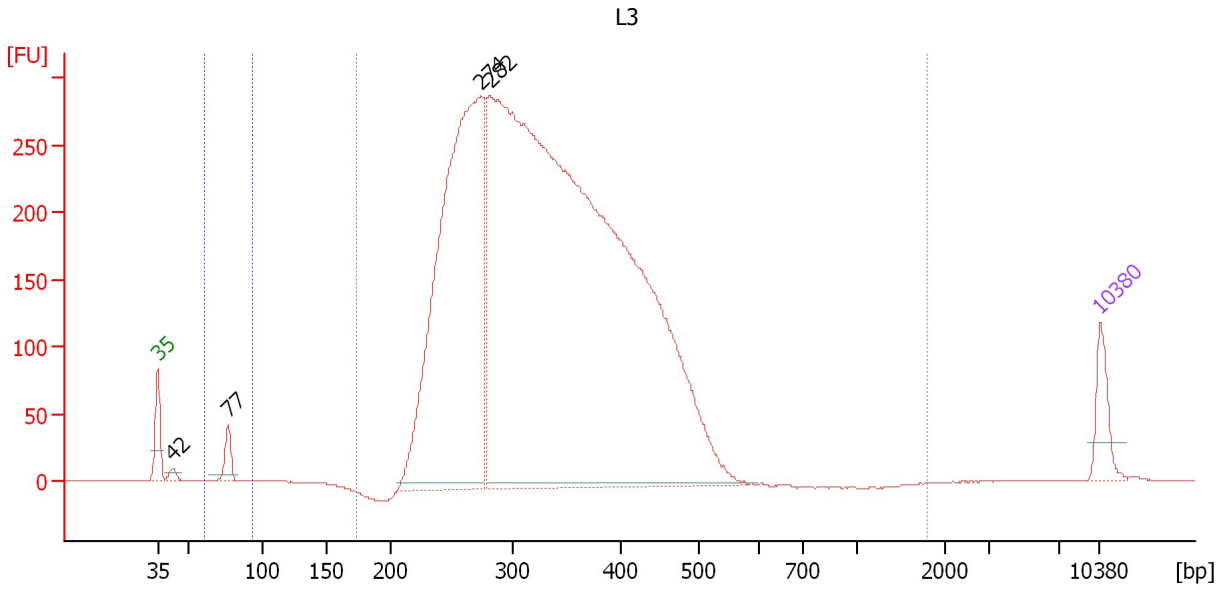
Region table for sample 2 : L20

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
59	96	76	65.73	48.4	1,313.8	1	3.1
147	1,424	332	6,231.78	6,089.9	30,033.4	99	20.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
 Modified: 6/21/2018 3:02:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : L3

Number of peaks found: 4 Corr. Area 1: 5,965.5
 Noise: 0.2 Corr. Area 2: 46.5

Peak table for sample 3 : L3

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	42	19.82	708.7		44.14
3	77	71.16	1,406.9		48.27
4	274	2,021.12	11,159.5		67.00
5	282	5,641.12	30,330.9		67.68
6	10,380	75.00	10.9	Upper Marker	113.00

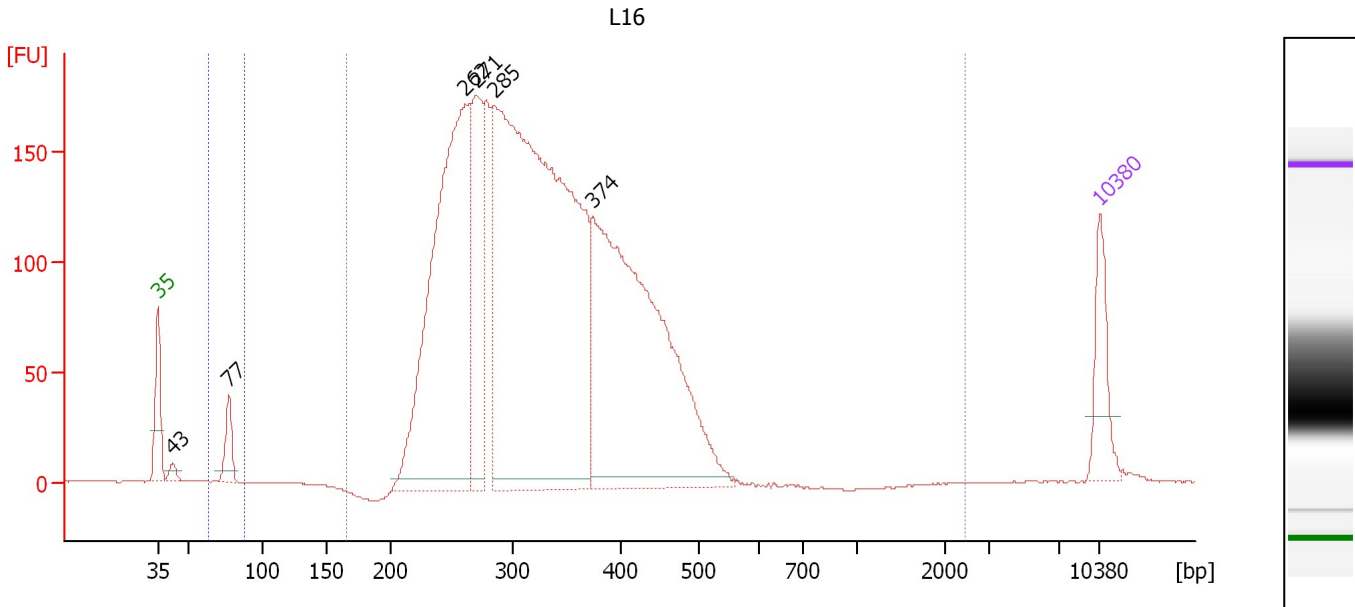
Region table for sample 3 : L3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
60	93	76	69.43	46.5	1,382.4	1	2.7
174	1,794	334	6,706.69	5,965.5	32,285.2	99	20.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
 Modified: 6/21/2018 3:02:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : L16

Number of peaks found: 6 Corr. Area 1: 3,598.2
 Noise: 0.2 Corr. Area 2: 44.2

Peak table for sample 4 : L16

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	43	16.94	603.7		44.16
3	77	63.80	1,254.7		48.31
4	262	934.18	5,402.1		65.88
5	271	309.83	1,734.2		66.67
6	285	1,757.31	9,337.1		67.98
7	374	944.67	3,825.0		75.34
8	10,380	75.00	10.9	Upper Marker	113.00

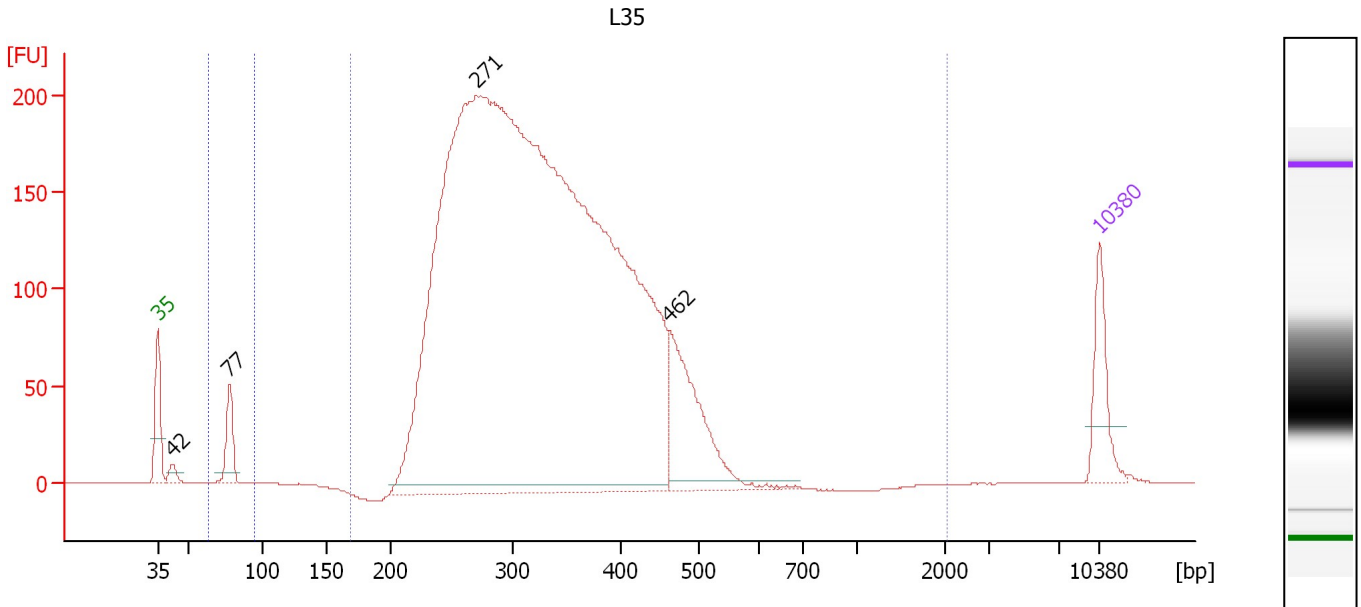
Region table for sample 4 : L16

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
63	88	77	61.85	44.2	1,222.8	1	2.5
165	2,440	330	3,803.18	3,598.2	18,546.0	98	21.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
 Modified: 6/21/2018 3:02:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : L35

Number of peaks found: 4 Corr. Area 1: 4,119.7
 Noise: 0.2 Corr. Area 2: 57.9

Peak table for sample 5 : L35

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	42	18.64	666.9		44.13
3	77	78.63	1,541.4		48.34
4	271	4,671.12	26,136.7		66.67
5	462	243.97	799.5		81.02
6	10,380	75.00	10.9	Upper Marker	113.00

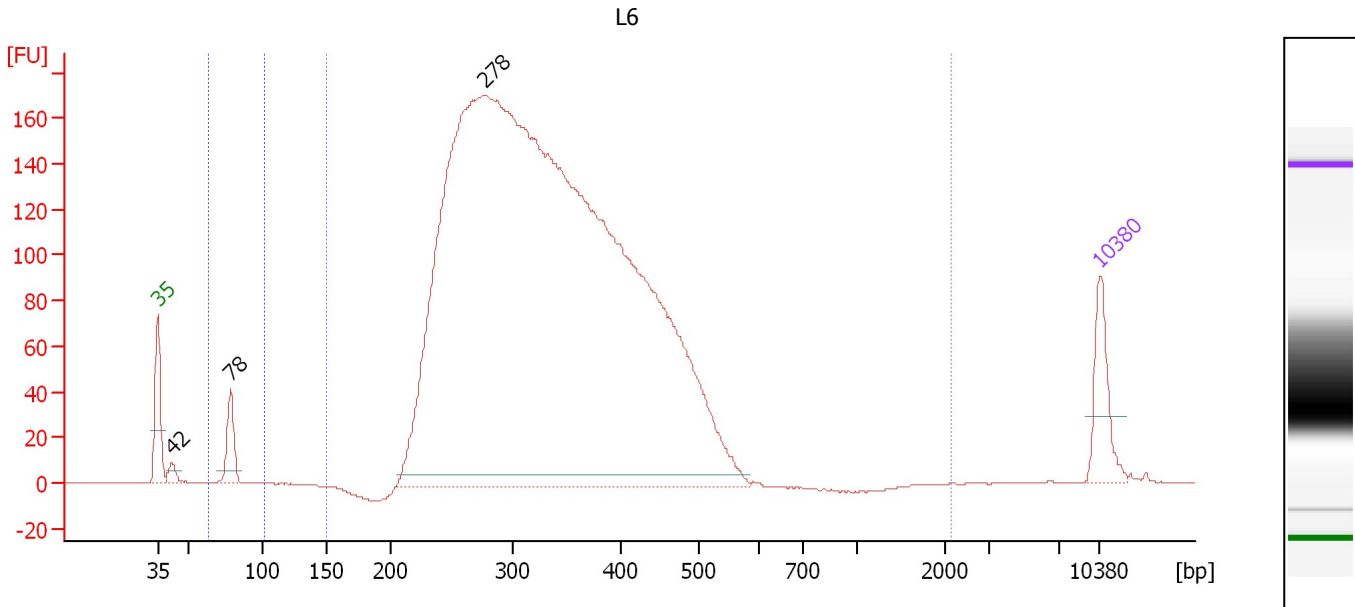
Region table for sample 5 : L35

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
63	94	77	79.34	57.9	1,557.7	1	3.0
169	2,030	332	4,262.84	4,119.7	20,684.0	98	21.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
 Modified: 6/21/2018 3:02:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : L6

Number of peaks found: 3 Corr. Area 1: 3,549.3
 Noise: 0.2 Corr. Area 2: 48.1

Peak table for sample 6 : L6

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	42	20.51	743.1		44.05
3	78	80.06	1,556.4		48.41
4	278	5,170.12	28,223.1		67.29
5	10,380	75.00	10.9	Upper Marker	113.00

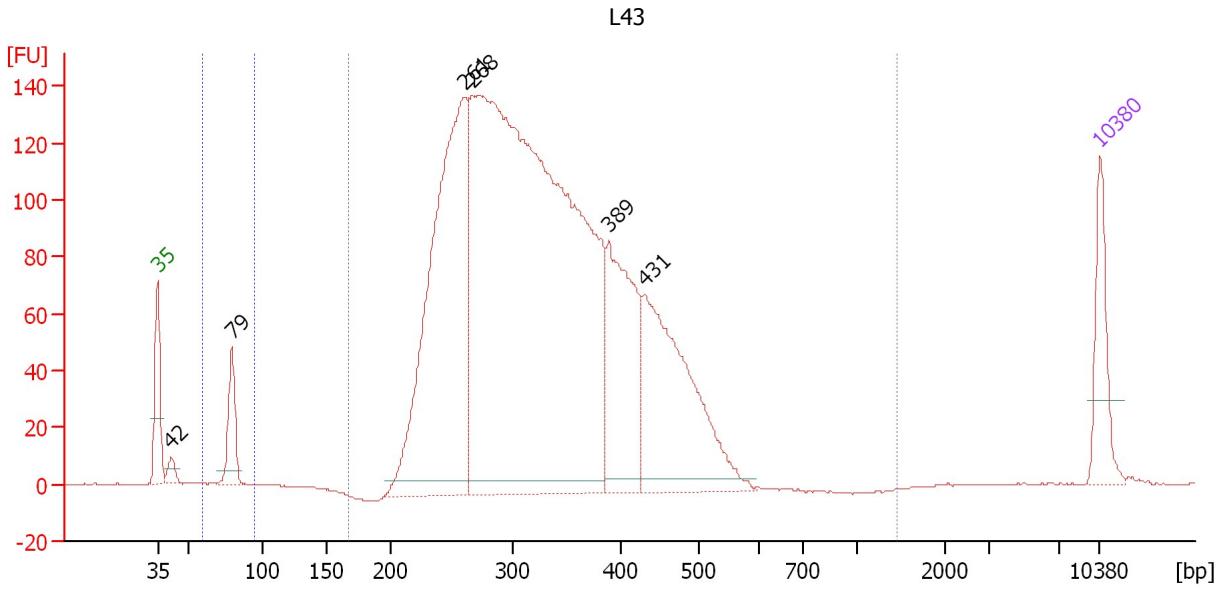
Region table for sample 6 : L6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
63	100	78	81.75	48.1	1,591.6	1	3.2
150	2,111	337	4,539.45	3,549.3	21,805.3	98	22.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
 Modified: 6/21/2018 3:02:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : L43

Number of peaks found: 6 Corr. Area 1: 2,782.1
 Noise: 0.2 Corr. Area 2: 55.7

Peak table for sample 7 : L43

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	42	20.64	752.0		44.01
3	79	90.85	1,746.0		48.51
4	261	846.97	4,919.8		65.77
5	268	2,232.66	12,610.0		66.45
6	389	300.78	1,172.8		76.51
7	431	390.56	1,373.4		79.21
8	10,380	75.00	10.9	Upper Marker	113.00

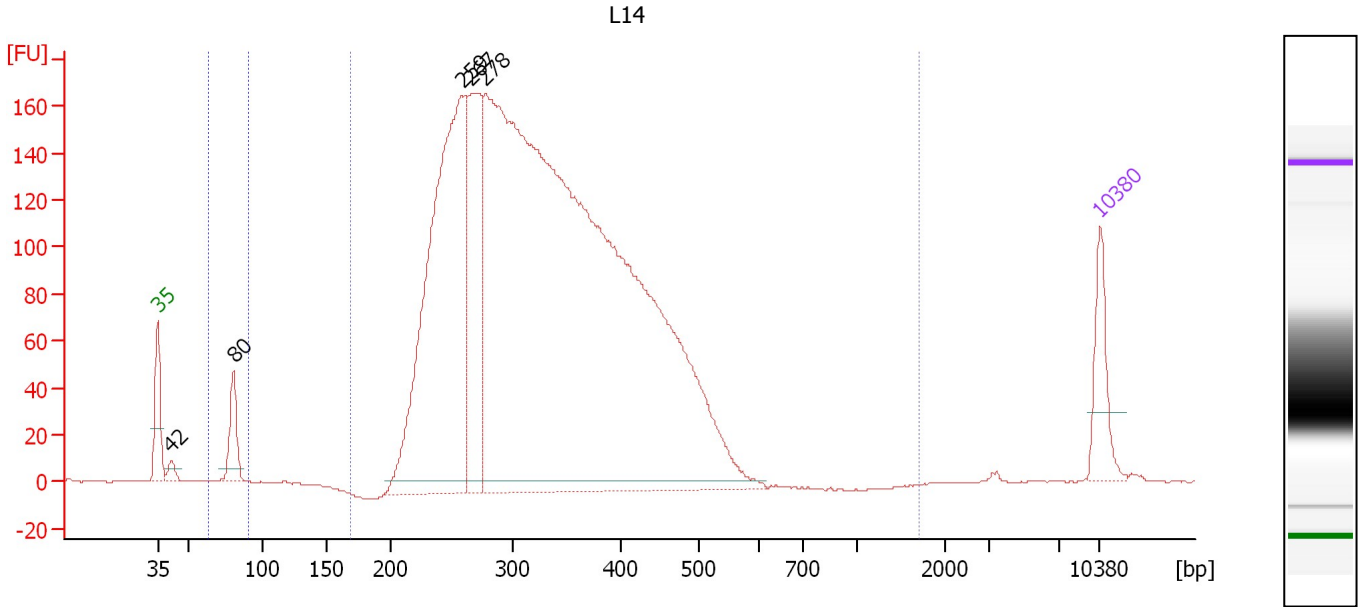
Region table for sample 7 : L43

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
59	94	79	89.88	55.7	1,732.7	2	3.0
168	1,455	332	3,390.67	2,782.1	16,537.2	97	22.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
 Modified: 6/21/2018 3:02:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : L14

Number of peaks found: 5 Corr. Area 1: 3,451.5
 Noise: 0.2 Corr. Area 2: 56.6

Peak table for sample 8 : L14

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	42	19.30	702.0		44.03
3	80	88.03	1,667.3		48.64
4	259	1,029.10	6,018.2		65.61
5	267	344.78	1,959.4		66.30
6	278	3,485.52	19,004.2		67.32
7	10,380	75.00	10.9	Upper Marker	113.00

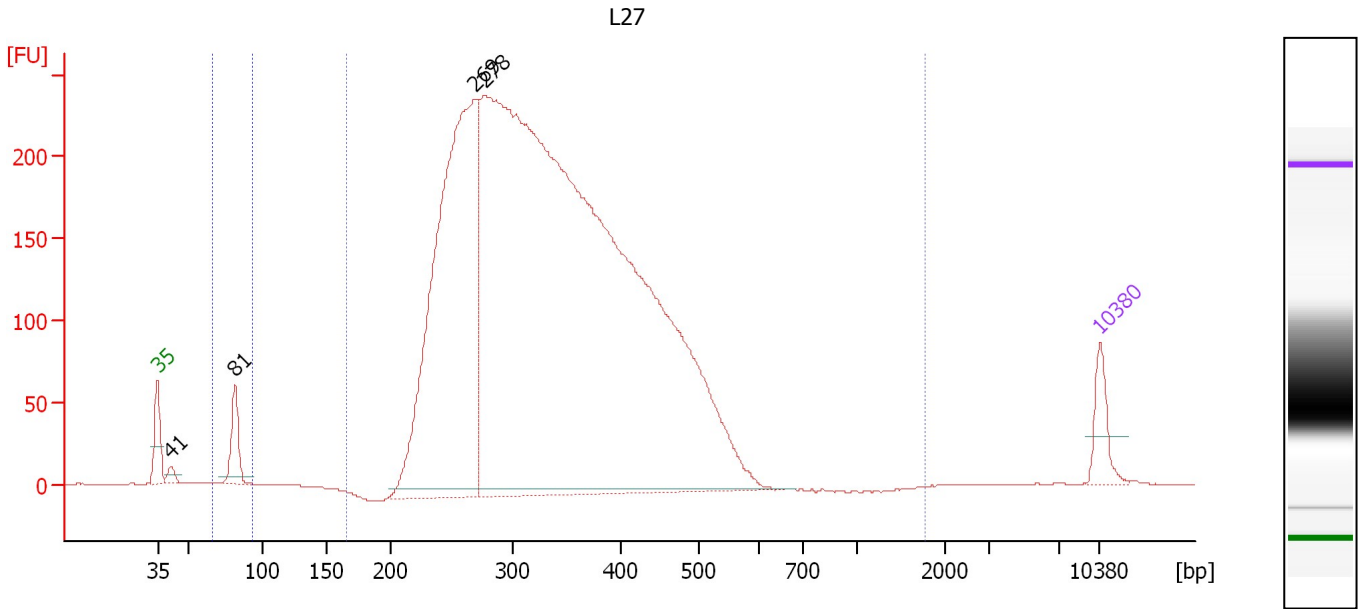
Region table for sample 8 : L14

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
63	90	80	91.41	56.6	1,740.8	2	3.6
169	1,701	332	4,208.17	3,451.5	20,528.2	98	22.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
 Modified: 6/21/2018 3:02:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : L27

Number of peaks found: 4 Corr. Area 1: 4,921.1
 Noise: 0.2 Corr. Area 2: 71.4

Peak table for sample 9 : L27

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	41	28.93	1,058.9		43.98
3	81	142.04	2,662.4		48.73
4	269	2,001.28	11,274.9		66.51
5	278	6,616.71	36,080.7		67.32
6	10,380	75.00	10.9	Upper Marker	113.00

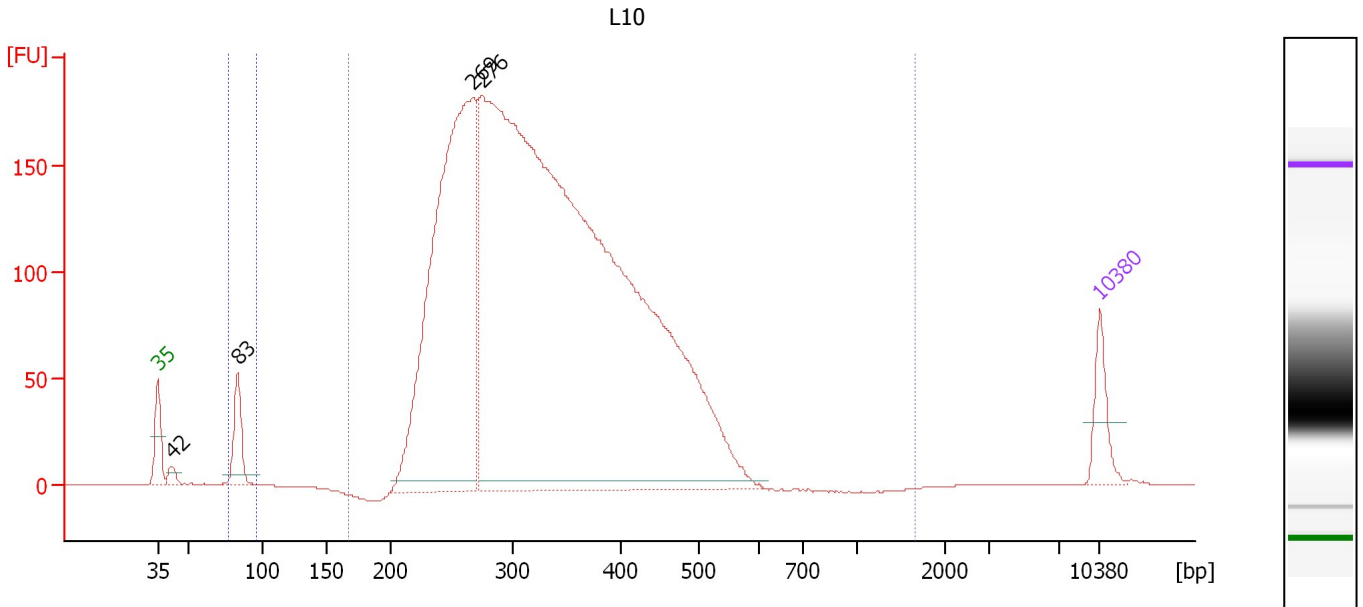
Region table for sample 9 : L27

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
66	93	81	141.52	71.4	2,652.1	1	3.1
166	1,771	339	7,326.90	4,921.1	35,062.7	98	22.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
 Modified: 6/21/2018 3:02:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : L10

Number of peaks found: 4 Corr. Area 1: 3,658.8
 Noise: 0.2 Corr. Area 2: 62.9

Peak table for sample 10 : L10

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	42	26.48	959.1		44.05
3	83	139.87	2,558.1		48.95
4	269	1,737.89	9,806.0		66.47
5	276	5,271.55	28,981.9		67.11
6	10,380	75.00	10.9	Upper Marker	113.00

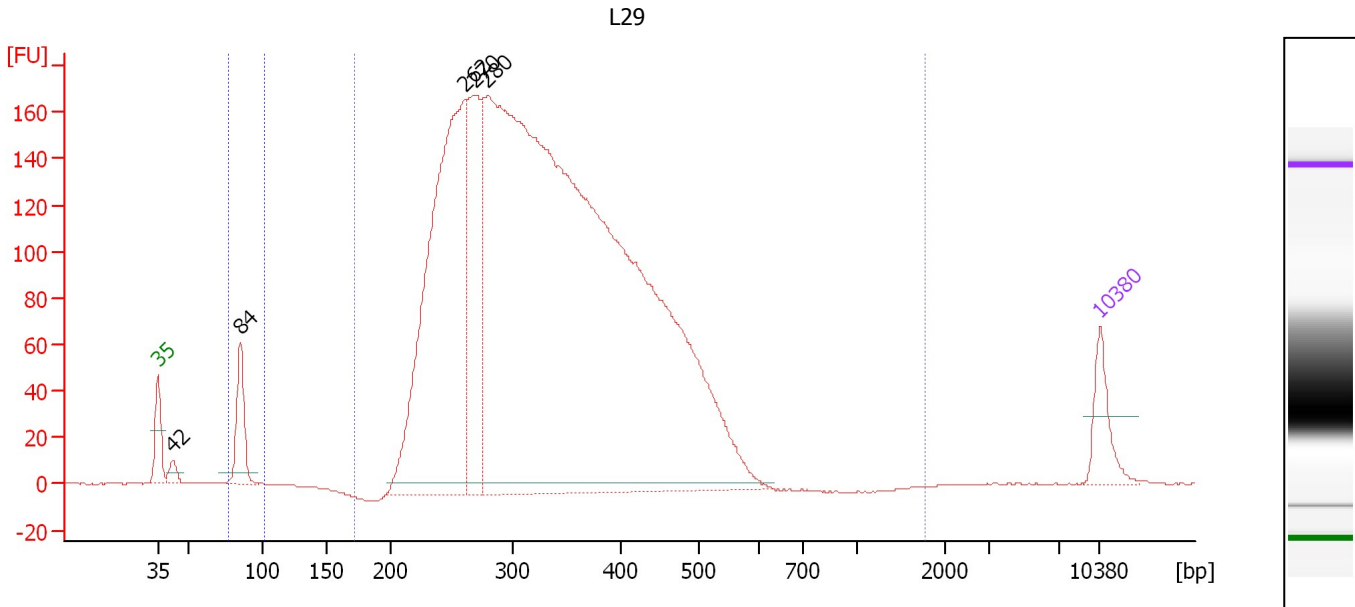
Region table for sample 10 : L10

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
76	95	83	139.54	62.9	2,551.4	2	3.0
167	1,649	334	6,121.53	3,658.8	29,715.1	98	23.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
 Modified: 6/21/2018 3:02:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : L29

Number of peaks found: 5 Corr. Area 1: 3,559.5
 Noise: 0.1 Corr. Area 2: 73.3

Peak table for sample 11 : L29

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	42	31.01	1,111.2		44.12
3	84	164.58	2,951.2		49.14
4	262	1,409.31	8,162.1		65.84
5	270	472.62	2,651.6		66.61
6	280	4,962.47	26,872.4		67.49
7	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : L29

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
76	100	85	161.27	73.3	2,884.7	2	3.0
172	1,766	337	5,893.55	3,559.5	28,502.8	98	23.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_003.xad

Created: 6/21/2018 2:17:44 PM
Modified: 6/21/2018 3:02:54 PM

Gel Image

