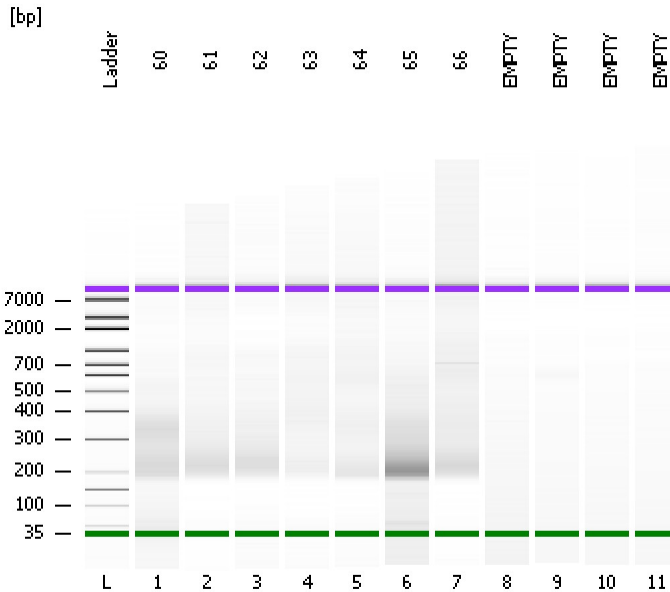


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-05\2019-03-05_002.xad

Created: 3/5/2019 11:39:17 AM
Modified: 3/5/2019 12:21:19 PM

Electrophoresis File Run Summary



Instrument Information:

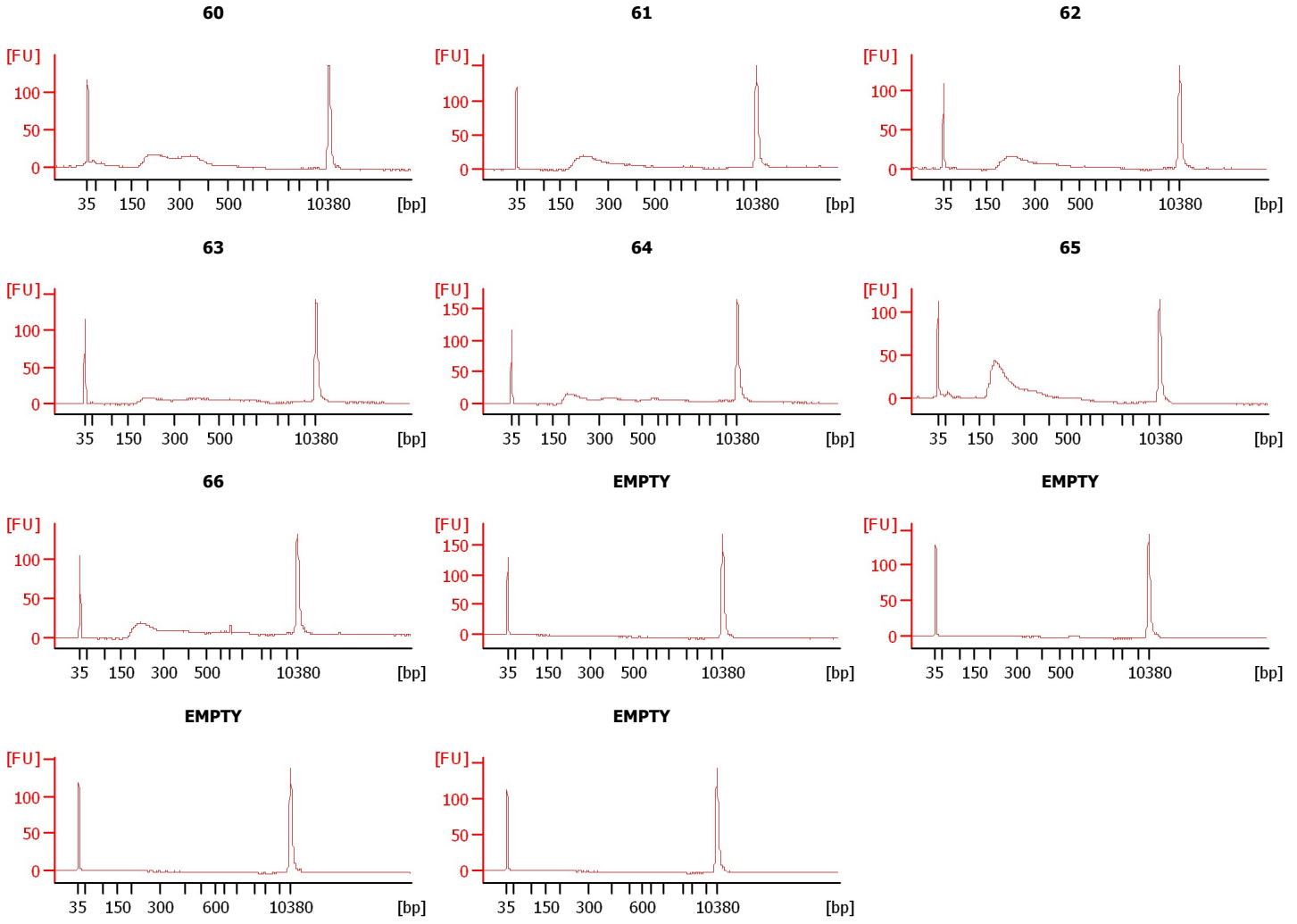
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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\2019-03-05\2019-03-05_002.xad

Created: 3/5/2019 11:39:17 AM
 Modified: 3/5/2019 12:21:19 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
60		<input type="checkbox"/>	✓			
61		<input type="checkbox"/>	✓			
62		<input type="checkbox"/>	✓			
63		<input type="checkbox"/>	✓			
64		<input type="checkbox"/>	✓			
65		<input type="checkbox"/>	✓			
66		<input type="checkbox"/>	✓			
EMPTY		<input type="checkbox"/>	✓			
EMPTY		<input type="checkbox"/>	✓			
EMPTY		<input type="checkbox"/>	✓			
EMPTY		<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\2019-03-05\2019-03-05_002.xad

Created: 3/5/2019 11:39:17 AM
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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

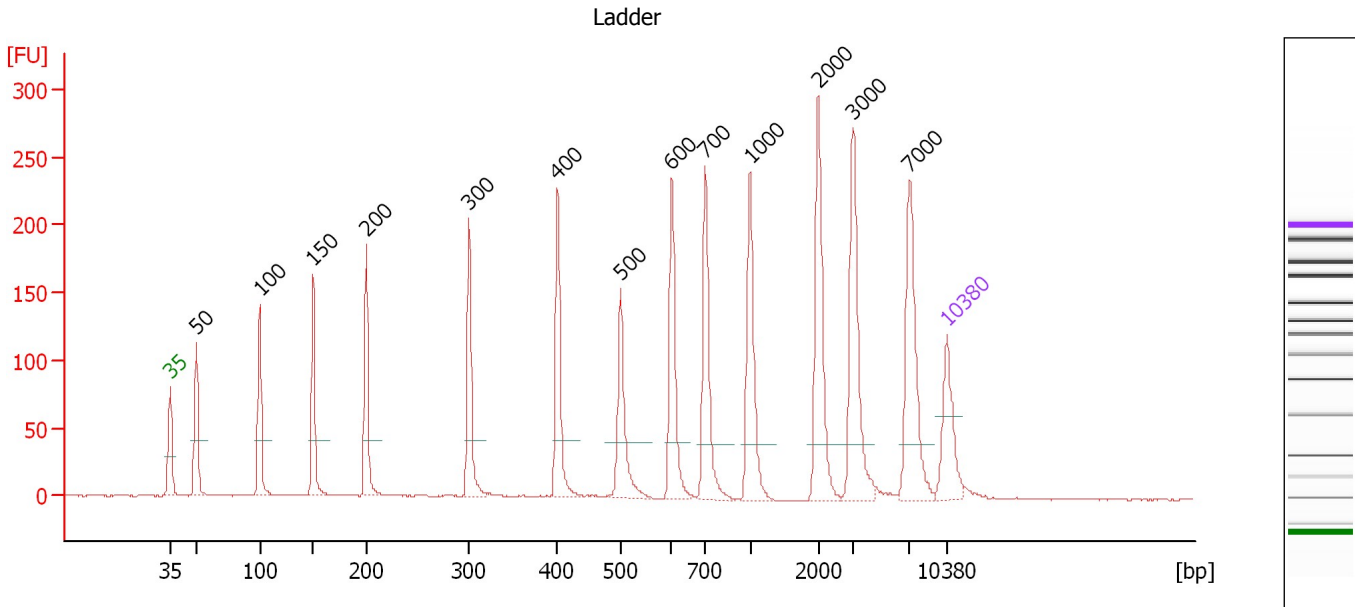
Ladder

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\2019-03-05\2019-03-05_002.xad

Created: 3/5/2019 11:39:17 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

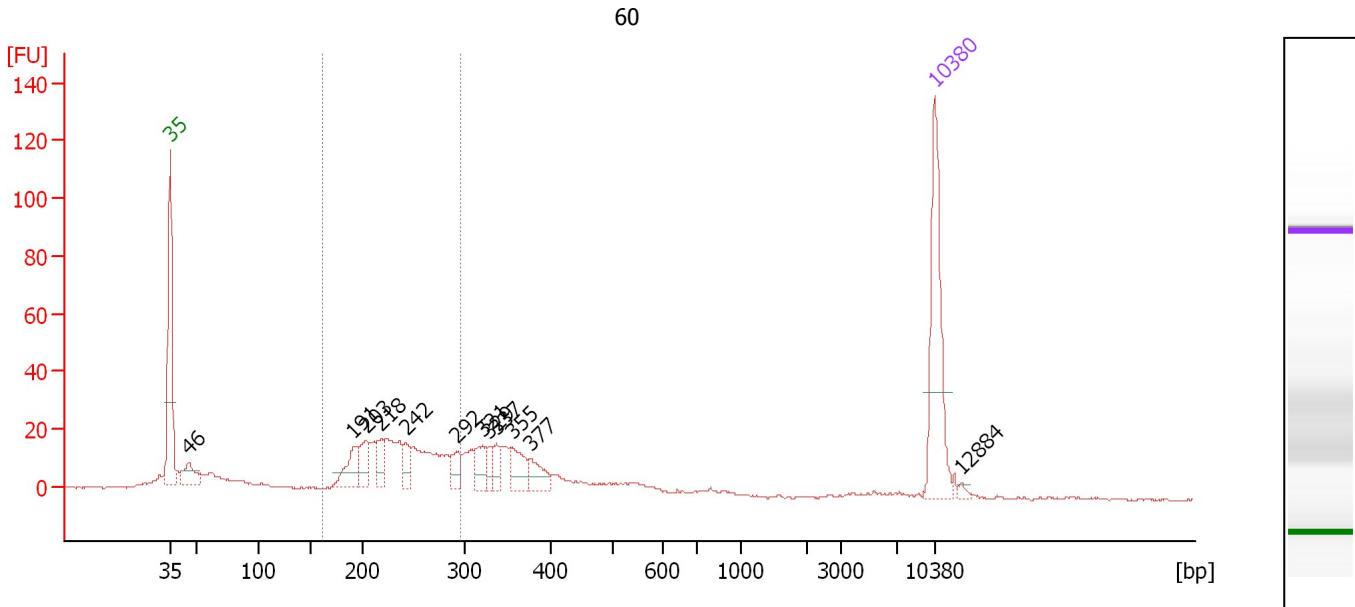
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	51.07
4	150	150.00	1,515.2	Ladder Peak	55.92
5	200	150.00	1,136.4	Ladder Peak	60.68
6	300	150.00	757.6	Ladder Peak	69.95
7	400	150.00	568.2	Ladder Peak	77.93
8	500	150.00	454.5	Ladder Peak	83.60
9	600	150.00	378.8	Ladder Peak	88.21
10	700	150.00	324.7	Ladder Peak	91.24
11	1,000	150.00	227.3	Ladder Peak	95.27
12	2,000	150.00	113.6	Ladder Peak	101.42
13	3,000	150.00	75.8	Ladder Peak	104.54
14	7,000	150.00	32.5	Ladder Peak	109.64
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-05\2019-03-05_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 60

Number of peaks found: 12 Corr. Area 1: 264.3
 Noise: 0.4

Peak table for sample 1 : 60

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	46	26.76	883.5		44.71
3	191	31.12	247.1		59.80
4	203	24.57	183.2		60.98
5	218	17.33	120.5		62.34
6	242	14.85	92.9		64.59
7	292	18.35	95.2		69.23
8	321	19.46	91.8		71.63
9	329	12.09	55.7		72.26
10	337	12.23	55.0		72.90
11	355	25.02	106.9		74.31
12	377	20.04	80.6		76.07
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,884	0.00	0.0		115.49

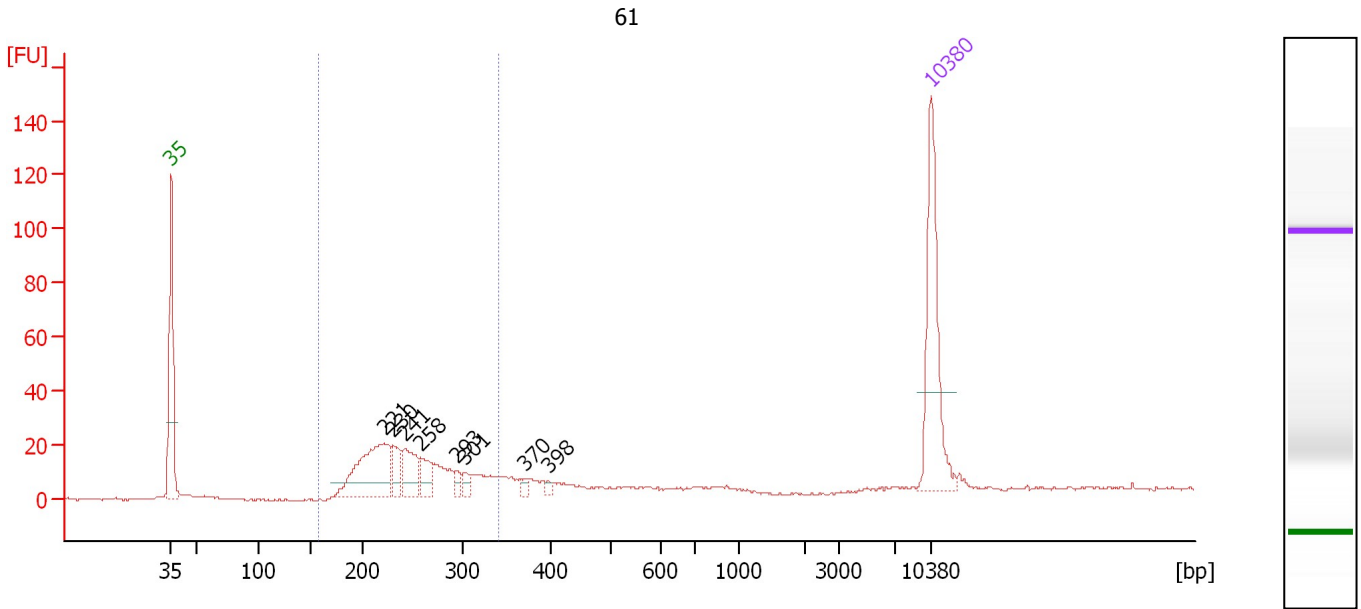
Region table for sample 1 : 60

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
161	297	235	261.79	264.3	1,712.3	44	14.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-05\2019-03-05_002.xad

Created: 3/5/2019 11:39:17 AM
 Modified: 3/5/2019 12:21:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 61

Number of peaks found: 8 Corr. Area 1: 277.5
 Noise: 0.4

Peak table for sample 2 : 61

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	221	94.30	645.8		62.65
3	230	22.44	148.0		63.44
4	241	34.68	217.7		64.52
5	258	20.26	119.1		66.04
6	293	6.96	36.0		69.33
7	301	7.35	37.0		70.02
8	370	4.54	18.6		75.52
9	398	3.14	12.0		77.73
10	10,380	75.00	10.9	Upper Marker	113.00

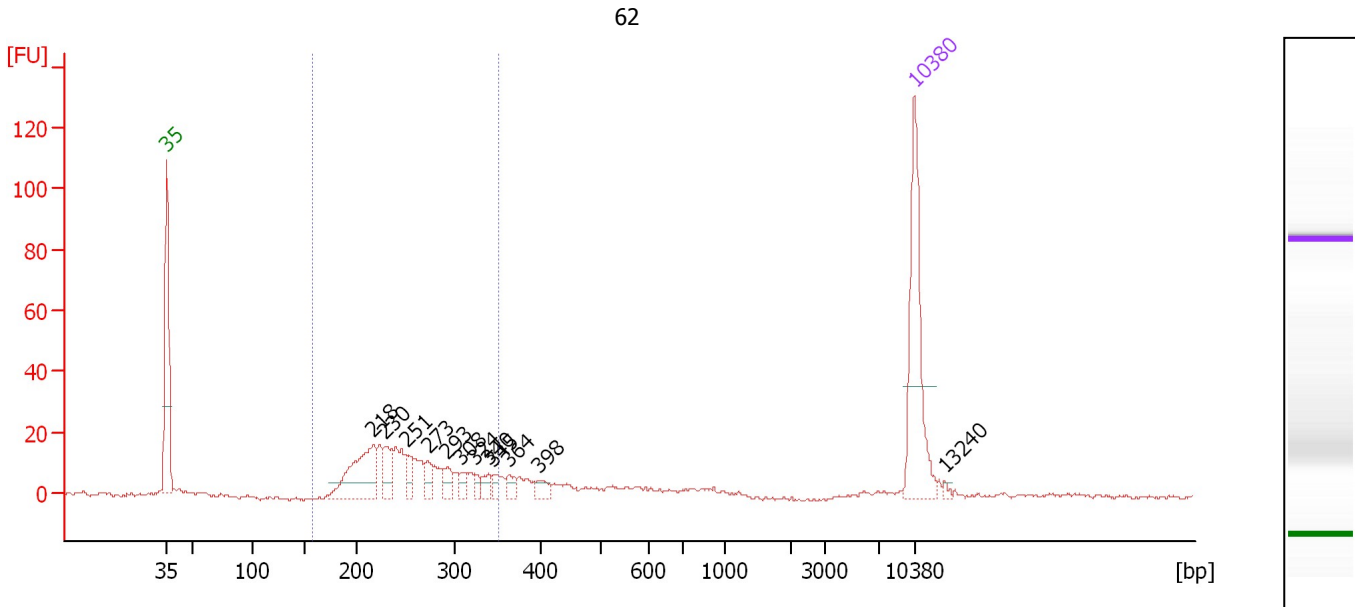
Region table for sample 2 : 61

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
157	340	248	233.96	277.5	1,468.1	71	16.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-05\2019-03-05_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 62

Number of peaks found: 12 Corr. Area 1: 243.3
 Noise: 0.7

Peak table for sample 3 : 62

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	218	75.65	526.5		62.32
3	230	23.68	156.3		63.42
4	251	14.52	87.6		65.42
5	273	13.12	72.8		67.47
6	293	12.36	64.0		69.26
7	308	8.31	40.8		70.61
8	324	6.22	29.1		71.86
9	340	8.75	39.0		73.16
10	345	5.98	26.3		73.56
11	364	7.90	32.9		75.05
12	398	8.89	33.8		77.80
13	10,380	75.00	10.9	Upper Marker	113.00
14	13,240	0.00	0.0		115.85

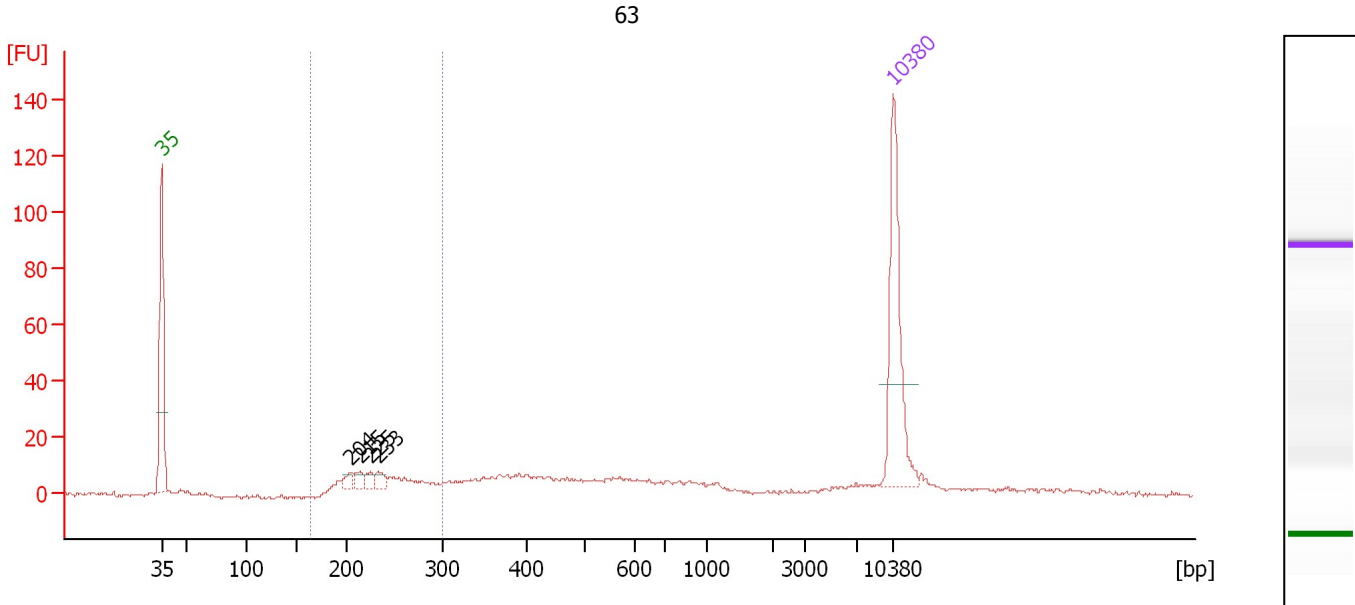
Region table for sample 3 : 62

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
158	351	255	232.58	243.3	1,425.8	69	16.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-05\2019-03-05_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 63

Number of peaks found: 4 Corr. Area 1: 102.9
 Noise: 0.6

Peak table for sample 4 : 63

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	204	7.51	55.9		61.01
3	215	8.46	59.7		62.03
4	225	7.39	49.7		63.00
5	233	8.88	57.8		63.71
6	10,380	75.00	10.9	Upper Marker	113.00

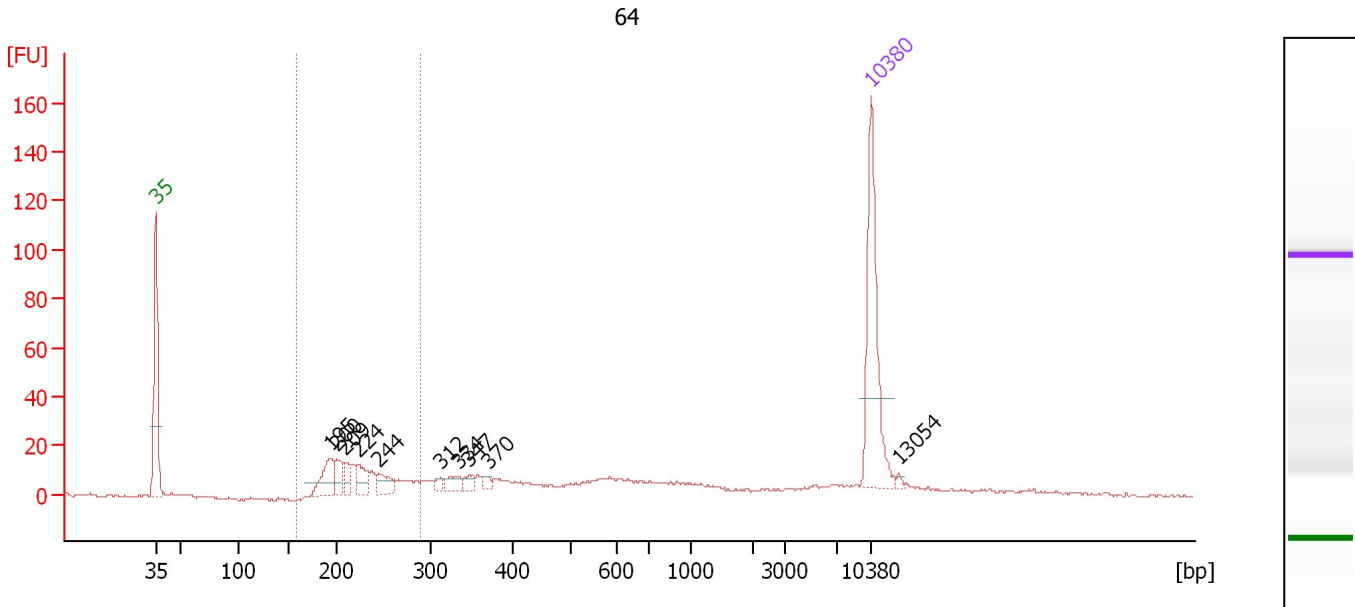
Region table for sample 4 : 63

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
165	301	237	93.86	102.9	606.5	29	13.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-05\2019-03-05_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 64

Number of peaks found: 10 Corr. Area 1: 164.2
 Noise: 0.6

Peak table for sample 5 : 64

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	195	31.86	247.4		60.21
3	200	16.03	121.4		60.68
4	209	12.51	90.7		61.52
5	224	17.47	118.4		62.87
6	244	16.67	103.3		64.80
7	312	5.09	24.7		70.91
8	334	9.88	44.8		72.68
9	347	6.70	29.2		73.72
10	370	4.09	16.8		75.50
11	10,380	75.00	10.9	Upper Marker	113.00
12	13,054	0.00	0.0		115.66

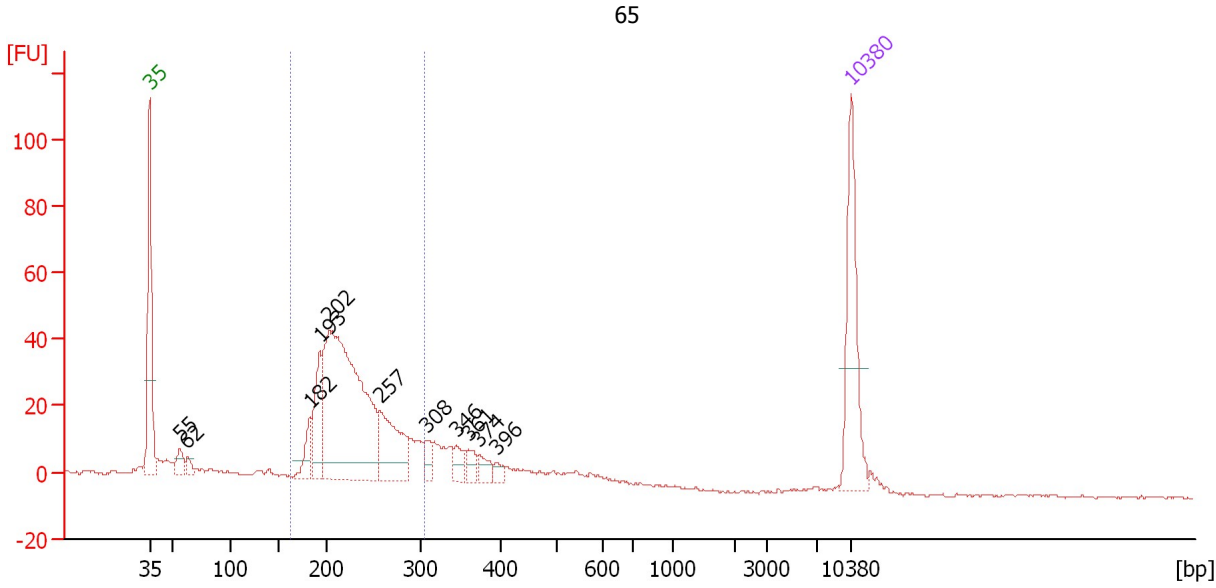
Region table for sample 5 : 64

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
160	288	226	139.31	164.2	948.5	34	12.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-05\2019-03-05_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 65

Number of peaks found: 11 Corr. Area 1: 486.4
 Noise: 0.5

Peak table for sample 6 : 65

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	55	17.54	479.2		45.98
3	62	9.87	241.3		46.72
4	182	25.65	213.7		58.96
5	193	57.72	454.3		59.97
6	202	358.58	2,688.7		60.87
7	257	77.86	458.8		65.98
8	308	13.65	67.1		70.61
9	346	15.41	67.6		73.59
10	361	12.18	51.1		74.81
11	374	12.33	49.9		75.87
12	396	6.50	24.9		77.63
13	10,380	75.00	10.9	Upper Marker	113.00

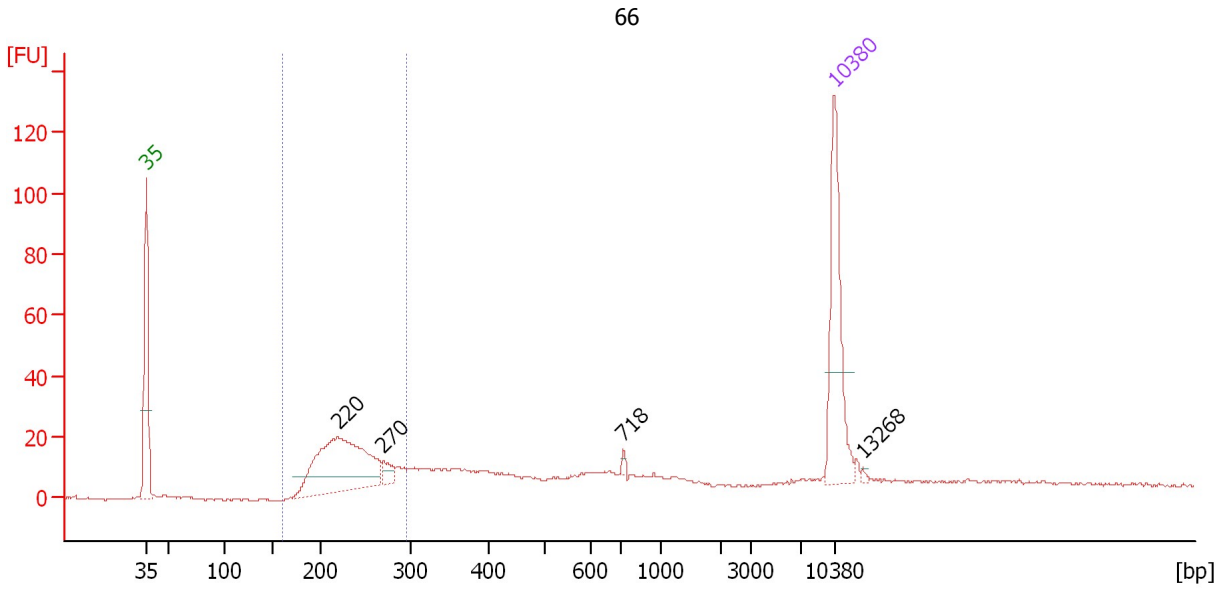
Region table for sample 6 : 65

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
161	305	229	533.18	486.4	3,587.8	68	14.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-05\2019-03-05_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 66

Number of peaks found: 4 Corr. Area 1: 216.1
 Noise: 0.4

Peak table for sample 7 : 66

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	220	162.51	1,120.0		62.52
3	270	12.76	71.7		67.13
4	718	2.60	5.5		91.47
5	10,380	75.00	10.9	Upper Marker	113.00
6	13,268	0.00	0.0		115.87

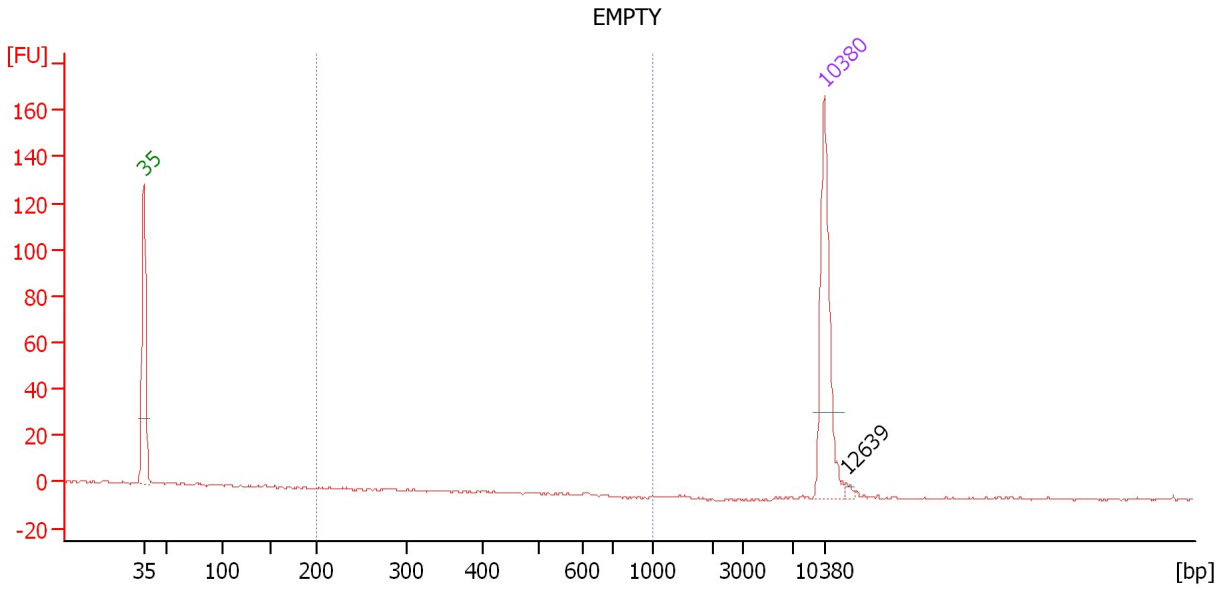
Region table for sample 7 : 66

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
159	295	235	205.12	216.1	1,336.5	42	12.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-05\2019-03-05_002.xad

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 Modified: 3/5/2019 12:21:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : EMPTY

Number of peaks found: 1 Corr. Area 1: 0.0
 Noise: 0.4

Peak table for sample 8 : EMPTY

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
3	12,639	0.00	0.0		115.25

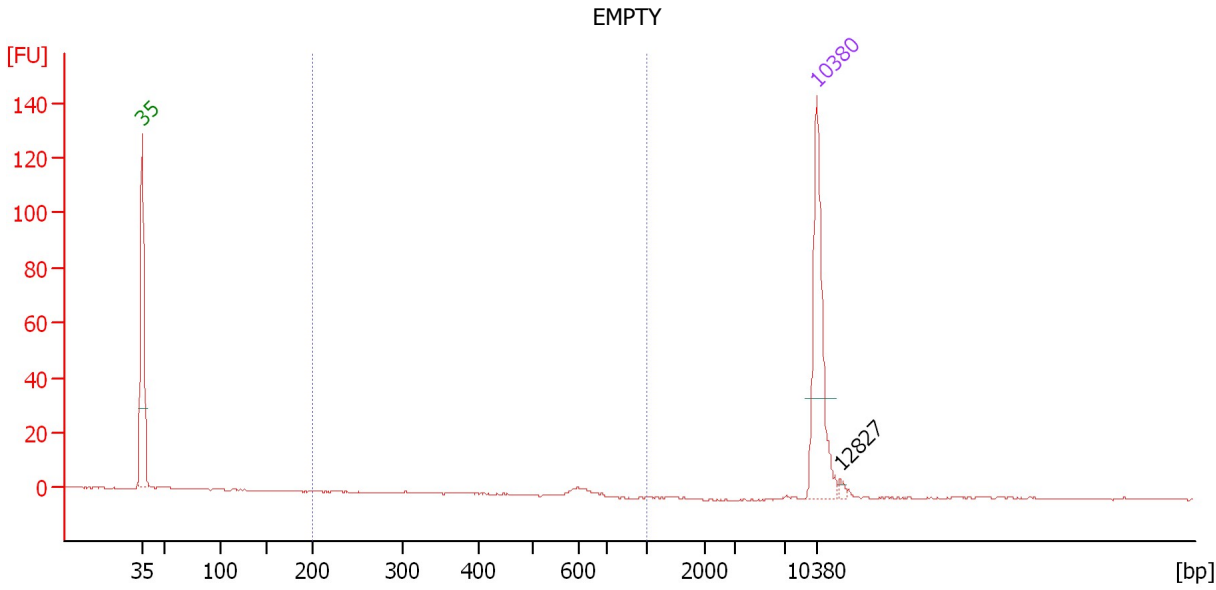
Region table for sample 8 : EMPTY

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	0	0.00	0.0	0.0	0	0.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-05\2019-03-05_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : EMPTY

Number of peaks found: 1 Corr. Area 1: 3.6
 Noise: 0.2

Peak table for sample 9 : EMPTY

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
3	12,827	0.00	0.0		115.43

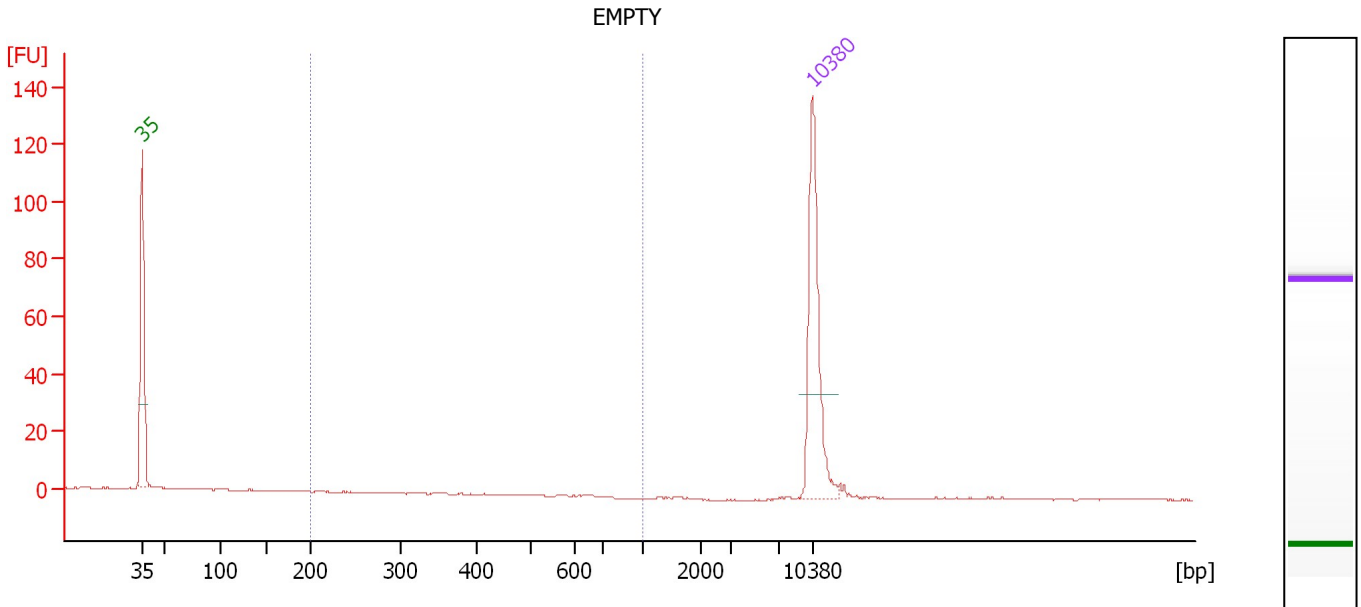
Region table for sample 9 : EMPTY

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	610	2.44	3.6	6.1	28	3.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-05\2019-03-05_002.xad

Created: 3/5/2019 11:39:17 AM
 Modified: 3/5/2019 12:21:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : EMPTY

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 10 : EMPTY

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

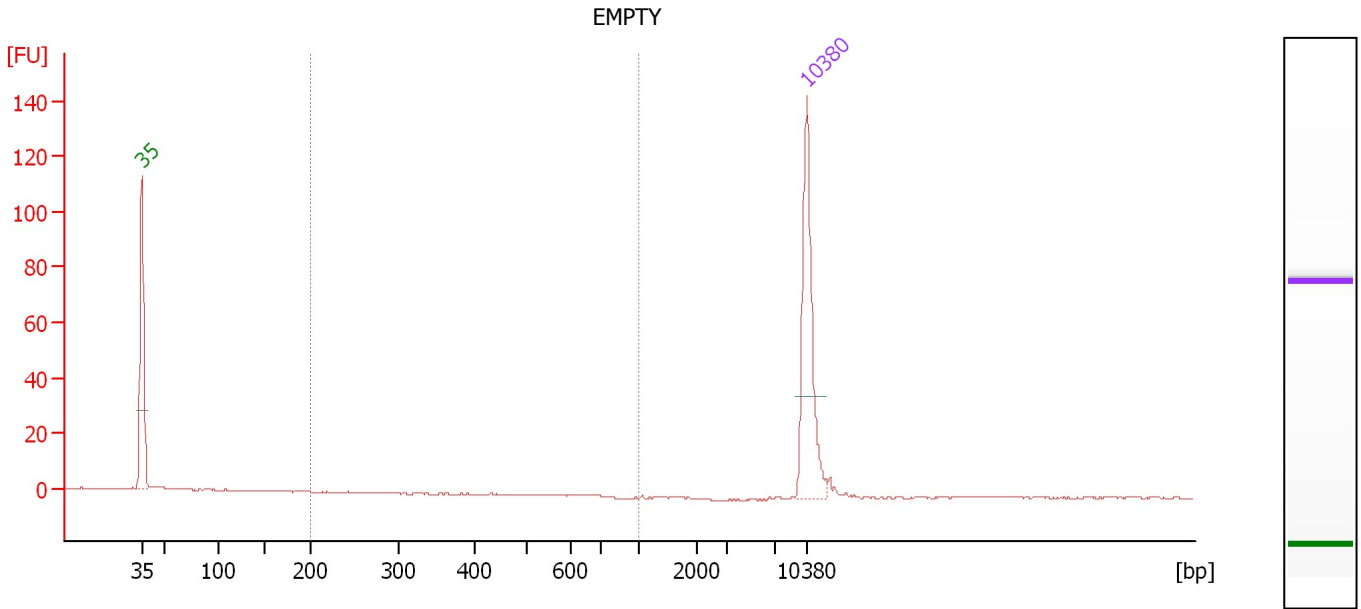
Region table for sample 10 : EMPTY

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	0	0.00	0.0	0.0	0	0.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-05\2019-03-05_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : EMPTY

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 11 : EMPTY

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 11 : EMPTY

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	0	0.00	0.0	0.0	0	0.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-05\2019-03-05_002.xad

Created: 3/5/2019 11:39:17 AM
Modified: 3/5/2019 12:21:19 PM

Gel Image

