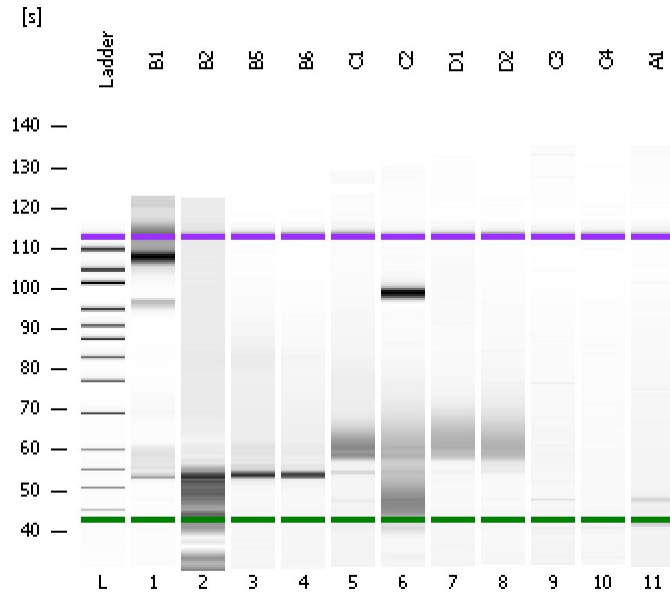


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-23\2019-01-23_001.xad

Created: 1/23/2019 11:28:48 AM
Modified: 1/23/2019 12:13:33 PM

Electrophoresis File Run Summary



Instrument Information:

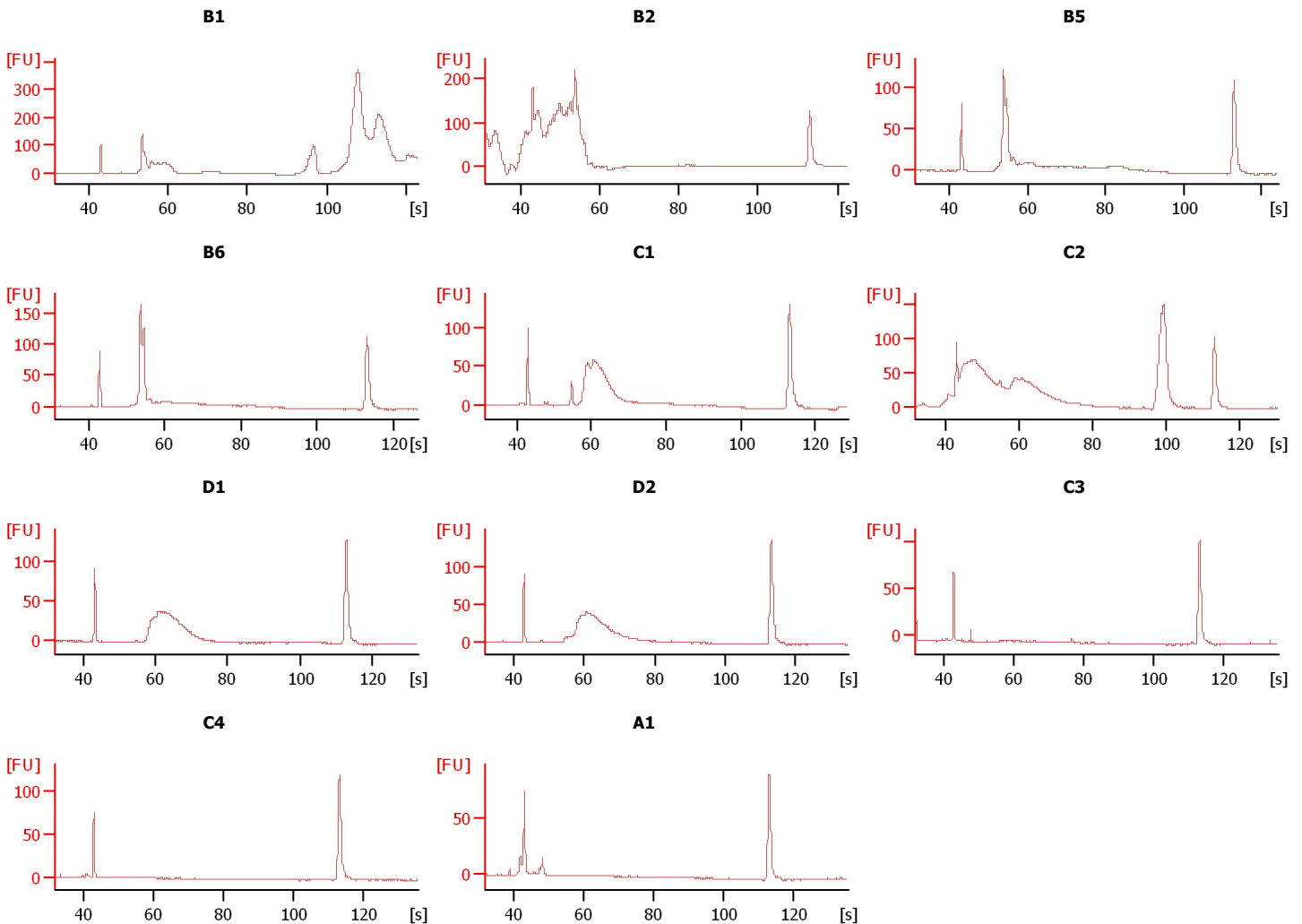
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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\2019-01-23\2019-01-23_001.xad

Created: 1/23/2019 11:28:48 AM
 Modified: 1/23/2019 12:13:33 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
B1		<input type="checkbox"/>	✓			
B2		<input type="checkbox"/>	✓			
B5		<input type="checkbox"/>	✓			
B6		<input type="checkbox"/>	✓			
C1		<input type="checkbox"/>	✓			
C2		<input type="checkbox"/>	✓			
D1		<input type="checkbox"/>	✓			
D2		<input type="checkbox"/>	✓			
C3		<input type="checkbox"/>	✓			
C4		<input type="checkbox"/>	✓			
A1		<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\2019-01-23\2019-01-23_001.xad

Created: 1/23/2019 11:28:48 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

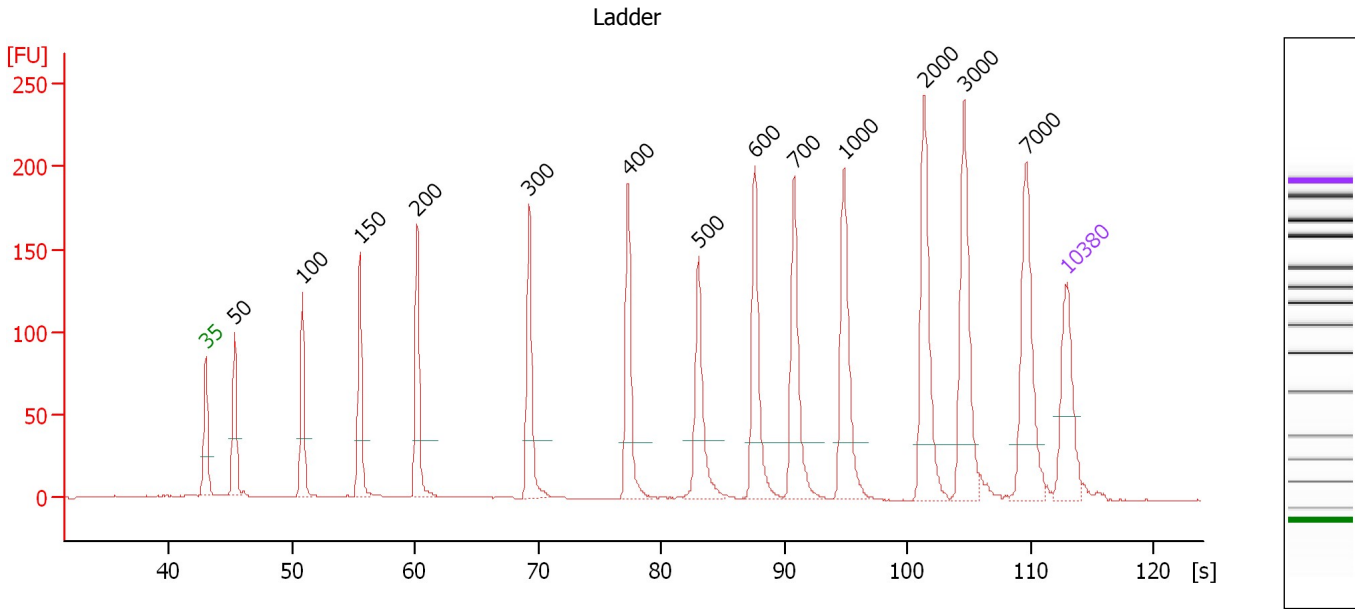
Ladder

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\2019-01-23\2019-01-23_001.xad

Created: 1/23/2019 11:28:48 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

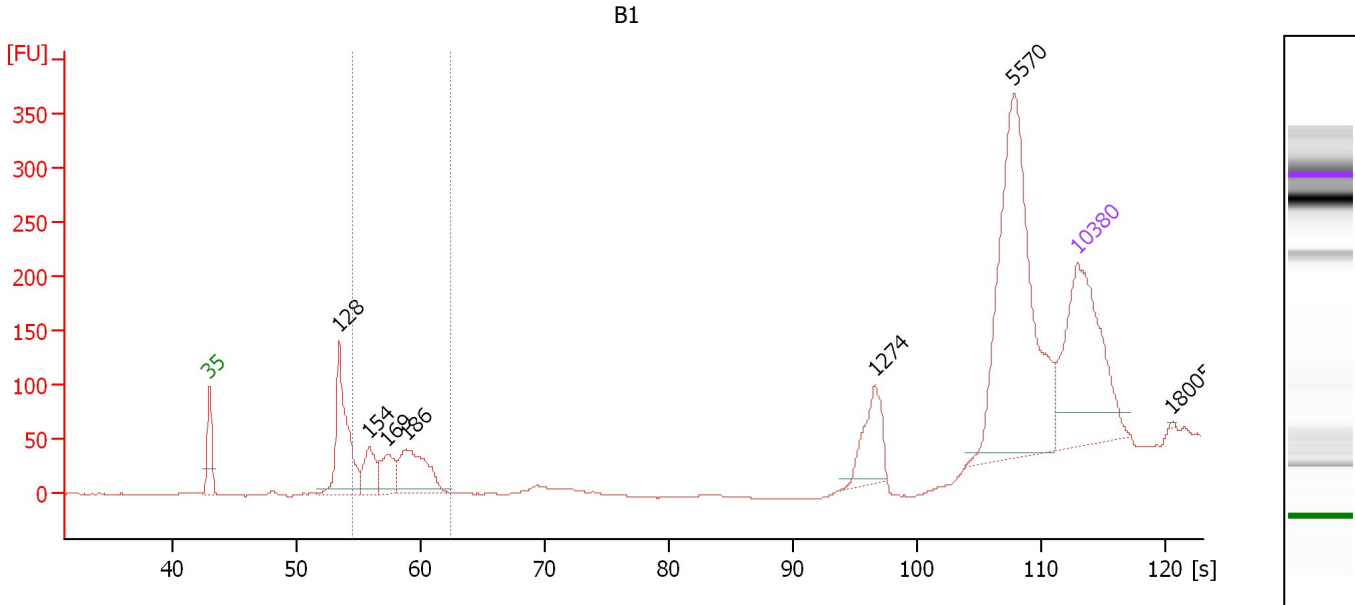
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	50.85
4	150	150.00	1,515.2	Ladder Peak	55.52
5	200	150.00	1,136.4	Ladder Peak	60.18
6	300	150.00	757.6	Ladder Peak	69.30
7	400	150.00	568.2	Ladder Peak	77.32
8	500	150.00	454.5	Ladder Peak	83.04
9	600	150.00	378.8	Ladder Peak	87.62
10	700	150.00	324.7	Ladder Peak	90.80
11	1,000	150.00	227.3	Ladder Peak	94.86
12	2,000	150.00	113.6	Ladder Peak	101.36
13	3,000	150.00	75.8	Ladder Peak	104.63
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\2019-01-23\2019-01-23_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : B1

Number of peaks found: 7 Corr. Area 1: 208.9
 Noise: 0.3

Peak table for sample 1 : B1

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	128	81.44	963.0		53.48
3	154	25.24	248.2		55.90
4	169	24.60	220.6		57.29
5	186	50.47	411.9		58.84
6	1,274	27.03	32.1		96.64
7	5,570	147.04	40.0		107.85
8	10,380	75.00	10.9	Upper Marker	113.00
9	18,005	0.00	0.0		120.58

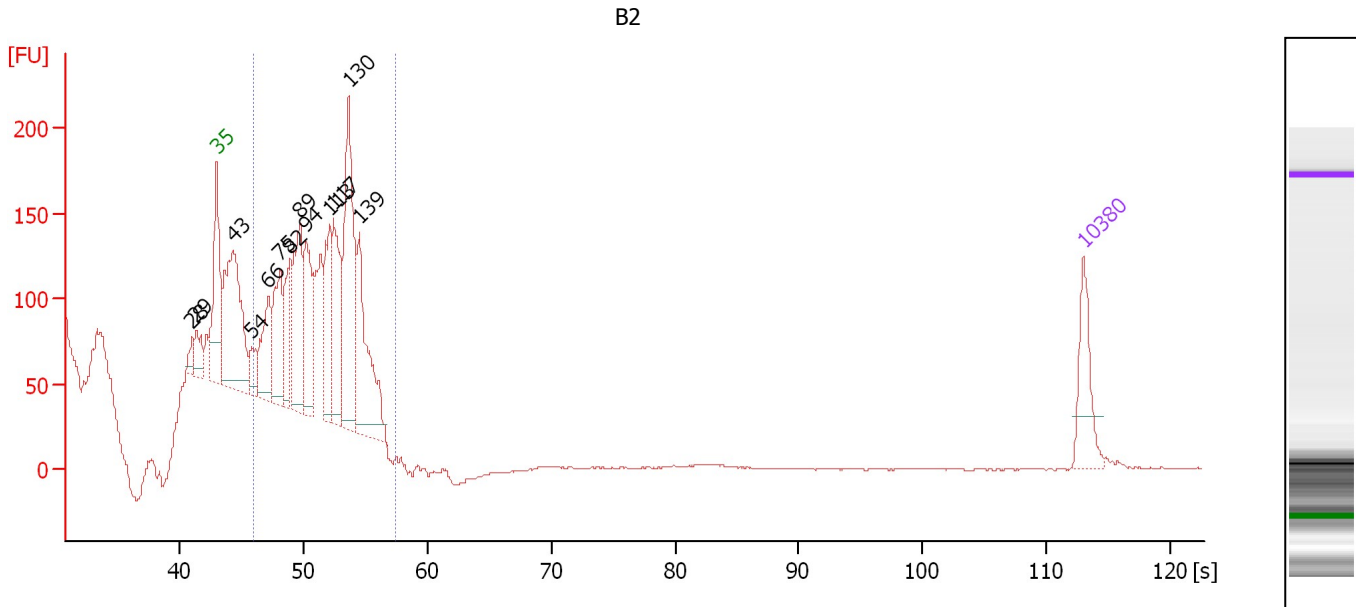
Region table for sample 1 : B1

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
54.47	62.49	173	55.36	208.9	490.4	15	11.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-23\2019-01-23_001.xad

Created: 1/23/2019 11:28:48 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : B2

Number of peaks found: 13 Corr. Area 1: 1,369.6
 Noise: 0.4

Peak table for sample 2 : B2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		41.00
2	29	0.00	0.0		41.35
3	35	125.00	5,411.3	Lower Marker	43.00
4	43	428.02	14,981.9		44.30
5	54	54.42	1,531.8		45.78
6	66	162.84	3,712.7		47.16
7	75	184.04	3,711.2		48.12
8	82	126.84	2,336.8		48.90
9	89	285.06	4,834.3		49.68
10	94	194.49	3,132.3		50.20
11	113	204.50	2,730.6		52.11
12	117	222.14	2,872.0		52.45
13	130	420.51	4,893.5		53.67
14	139	300.41	3,273.8		54.49
15	10,380	75.00	10.9	Upper Marker	113.00

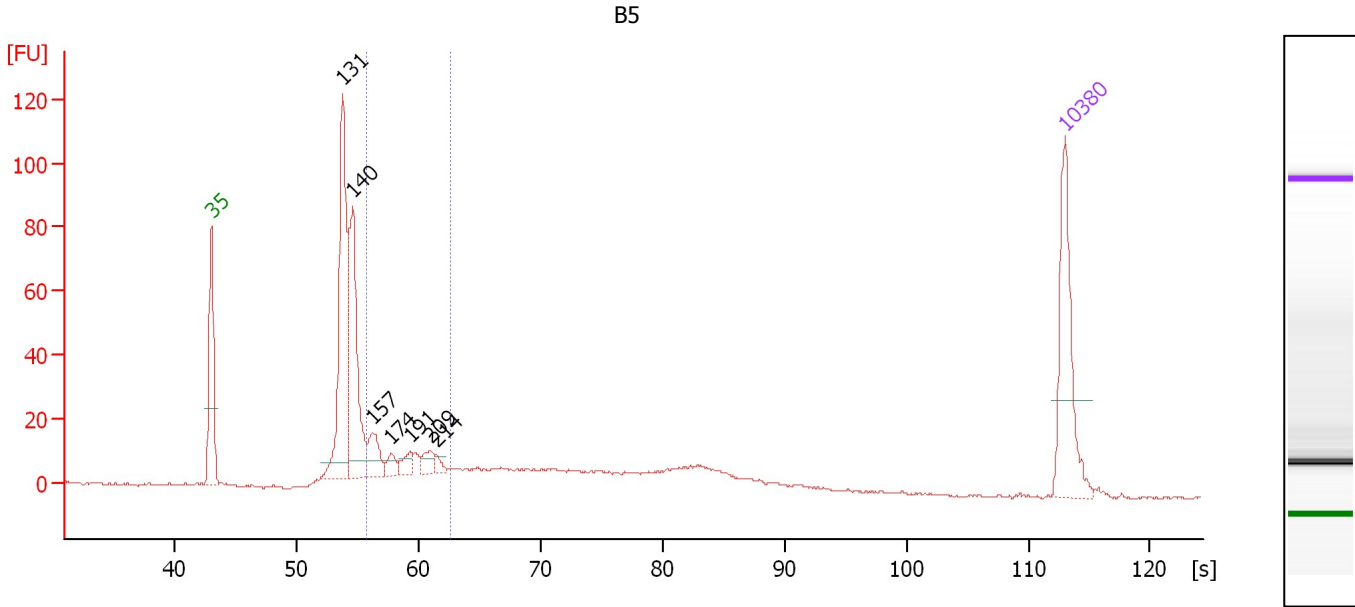
Region table for sample 2 : B2

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
45.93	57.41	106	1,794.78	1,369.6	26,999.2	76	22.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-23\2019-01-23_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : B5

Number of peaks found: 7 Corr. Area 1: 126.0
 Noise: 0.4

Peak table for sample 3 : B5

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	131	228.76	2,644.7		53.75
3	140	171.71	1,858.0		54.59
4	157	33.92	326.4		56.22
5	174	13.76	120.2		57.71
6	191	14.75	117.3		59.30
7	209	14.59	106.0		60.97
8	214	6.82	48.2		61.50
9	10,380	75.00	10.9	Upper Marker	113.00

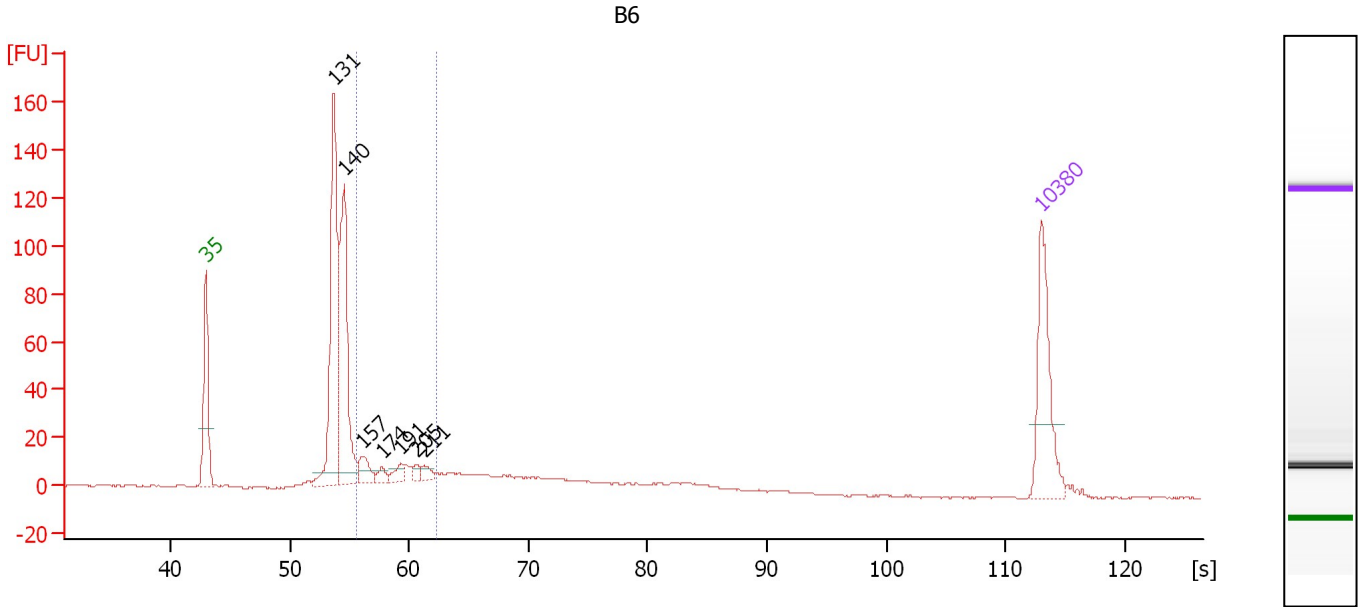
Region table for sample 3 : B5

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
55.66	62.65	185	155.48	126.0	1,289.2	19	11.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-23\2019-01-23_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : B6

Number of peaks found: 7 Corr. Area 1: 108.5
 Noise: 0.3

Peak table for sample 4 : B6

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	131	267.06	3,096.4		53.71
3	140	229.50	2,486.5		54.57
4	157	26.46	255.8		56.14
5	174	10.67	93.2		57.72
6	191	13.39	106.2		59.34
7	205	8.04	59.4		60.65
8	211	10.78	77.2		61.23
9	10,380	75.00	10.9	Upper Marker	113.00

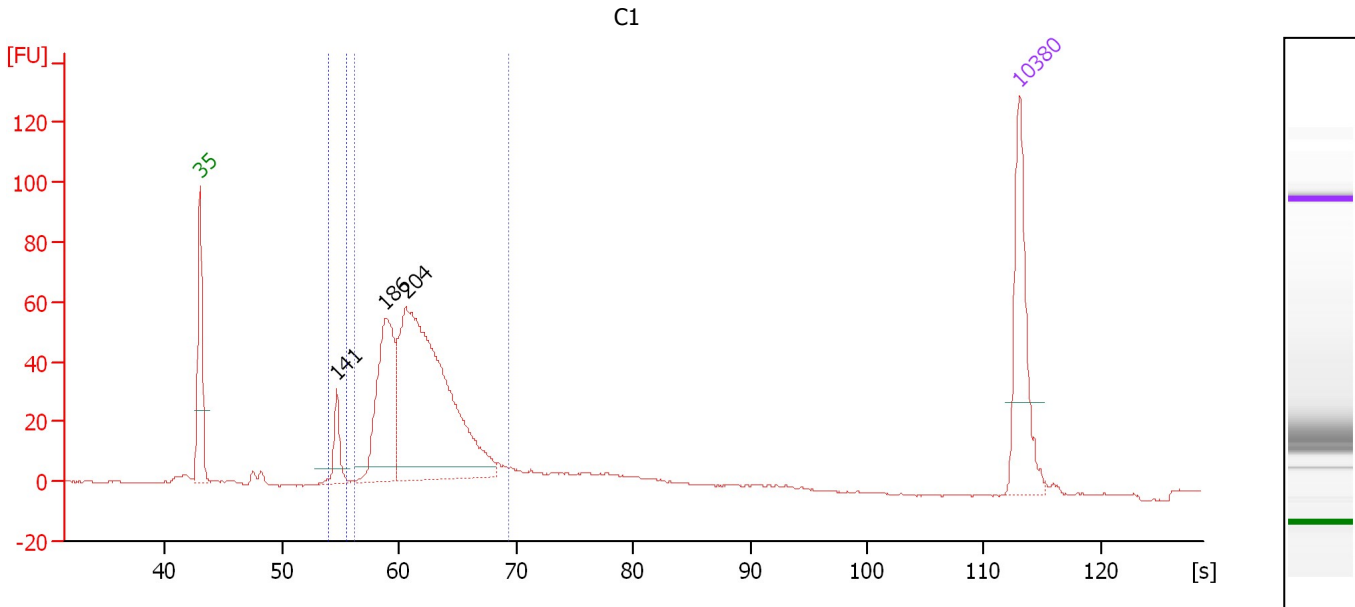
Region table for sample 4 : B6

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Total	Size distribution in CV [%]
55.53	62.34	185	125.80	108.5	1,043.3	16	12.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-23\2019-01-23_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : C1

Number of peaks found: 3 Corr. Area 1: 663.1
 Noise: 0.3 Corr. Area 2: 33.4

Peak table for sample 5 : C1

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	141	37.15	399.8		54.66
3	186	162.60	1,327.7		58.84
4	204	442.07	3,277.7		60.58
5	10,380	75.00	10.9	Upper Marker	113.00

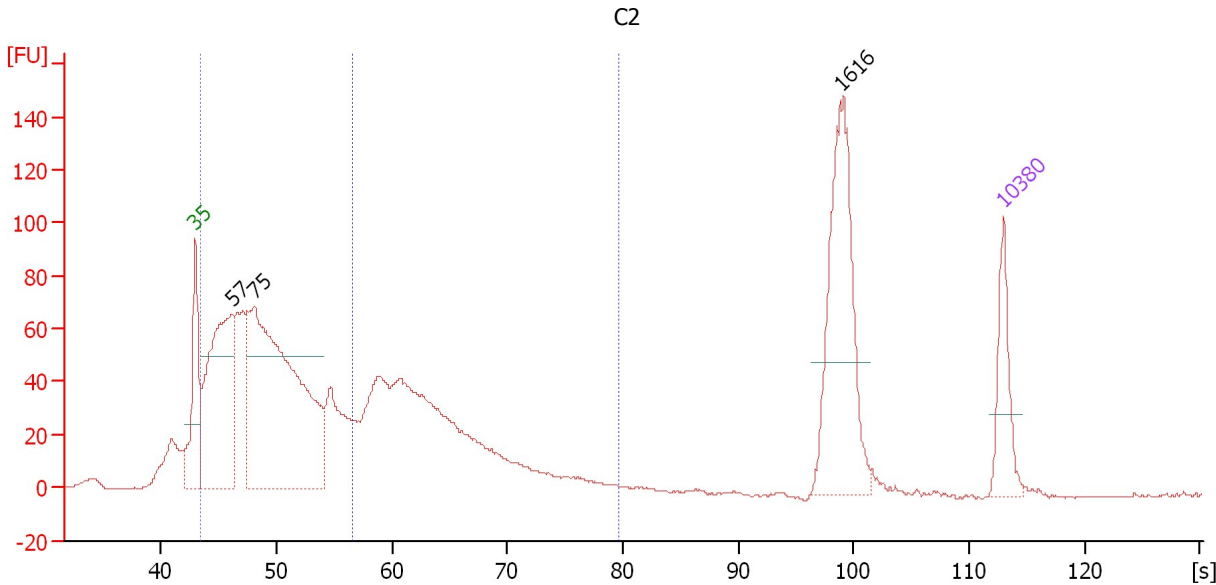
Region table for sample 5 : C1

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
54.03	55.59	141	35.18	33.4	377.4	4	2.0
56.11	69.30	219	620.78	663.1	4,372.6	82	13.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-23\2019-01-23_001.xad

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Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : C2

Height Threshold [FU] : 50

Overall Results for sample 6 : C2

Number of peaks found: 3
 Noise: 0.3
 Corr. Area 1: 2,047.9
 Corr. Area 2: 705.5

Peak table for sample 6 : C2

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	57	556.03	14,690.4		46.16
3	75	1,104.24	22,271.4		48.12
4	1,616	295.58	277.1		98.86
5	10,380	75.00	10.9	Upper Marker	113.00

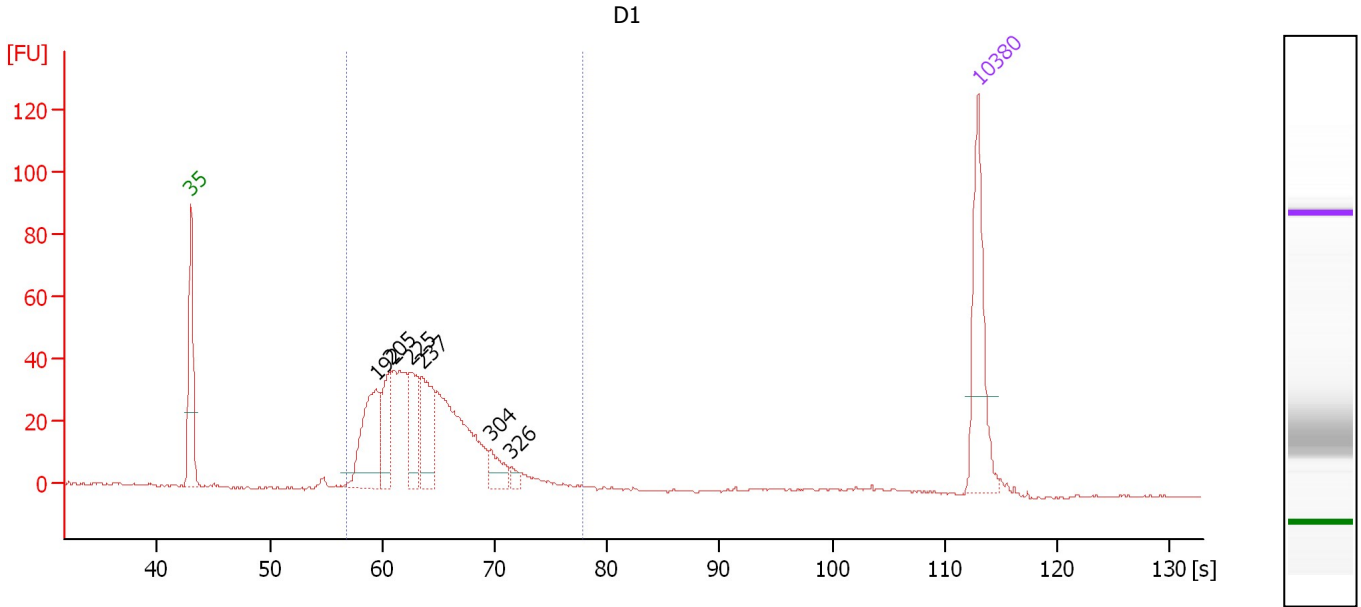
Region table for sample 6 : C2

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
43.52	79.74	148	2,943.49	2,047.9	48,046.8	81	58.6
56.53	79.74	238	900.64	705.5	6,116.0	28	23.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-23\2019-01-23_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : D1

Number of peaks found: 6 Corr. Area 1: 581.2
 Noise: 0.4

Peak table for sample 7 : D1

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	192	111.69	879.6		59.47
3	205	57.11	421.5		60.67
4	225	56.89	382.7		62.48
5	237	74.91	479.5		63.53
6	304	24.22	120.6		69.64
7	326	7.36	34.2		71.41
8	10,380	75.00	10.9	Upper Marker	113.00

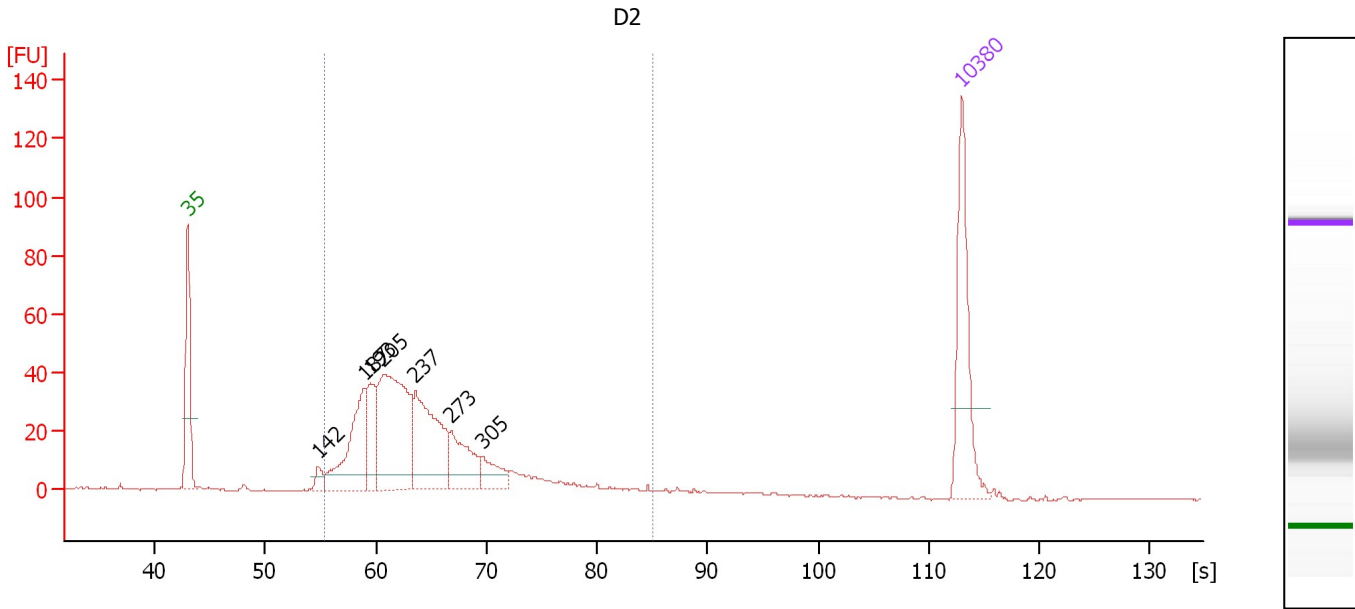
Region table for sample 7 : D1

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
56.91	77.85	241	604.68	581.2	3,937.0	97	18.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-23\2019-01-23_001.xad

Created: 1/23/2019 11:28:48 AM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : D2

Number of peaks found: 7 Corr. Area 1: 665.9
 Noise: 0.3

Peak table for sample 8 : D2

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	142	12.05	128.7		54.76
3	187	103.92	841.5		58.98
4	193	52.71	413.0		59.56
5	205	198.96	1,471.0		60.63
6	237	126.59	807.8		63.60
7	273	57.56	319.9		66.80
8	305	26.42	131.1		69.72
9	10,380	75.00	10.9	Upper Marker	113.00

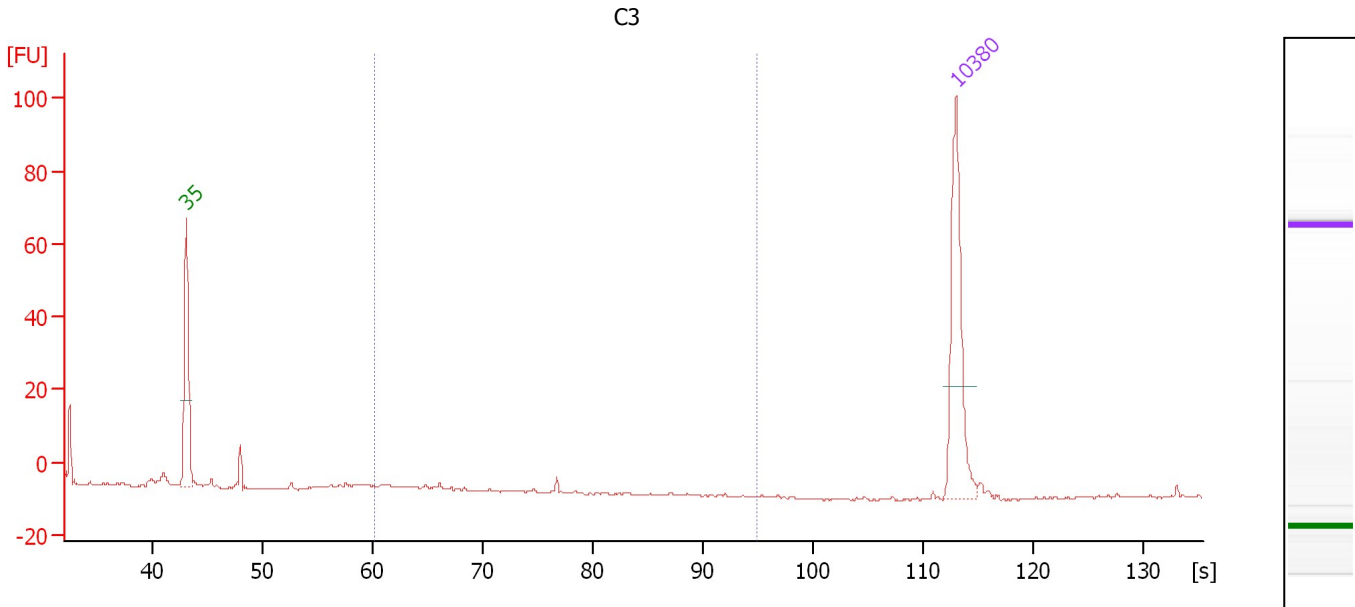
Region table for sample 8 : D2

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
55.42	84.99	248	623.12	665.9	4,116.8	95	26.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-23\2019-01-23_001.xad

Created: 1/23/2019 11:28:48 AM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : C3

Number of peaks found: 0 Corr. Area 1: 0.8
 Noise: 0.3

Peak table for sample 9 : C3

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

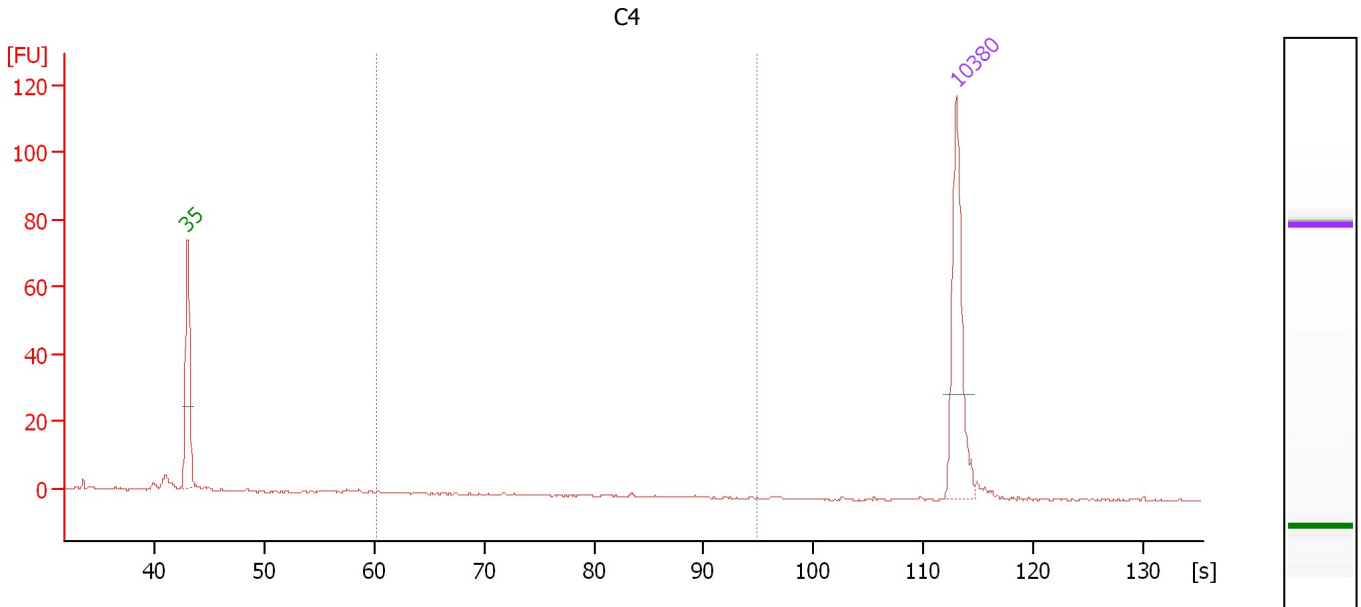
Region table for sample 9 : C3

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.18	94.86	370	0.84	0.8	3.6	8	13.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-23\2019-01-23_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : C4

Number of peaks found: 0 Corr. Area 1: 0.1
 Noise: 0.2

Peak table for sample 10 : C4

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 : C4

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.18	94.86	417	0.10	0.1	0.4	0	21.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-23\2019-01-23_001.xad

Created: 1/23/2019 11:28:48 AM
Modified: 1/23/2019 12:13:33 PM

Gel Image

