

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_003.xad

Created: 11/8/2019 2:15:38 PM  
Modified: 11/8/2019 2:56:55 PM

**Electrophoresis File Run Summary**

Instrument Information:

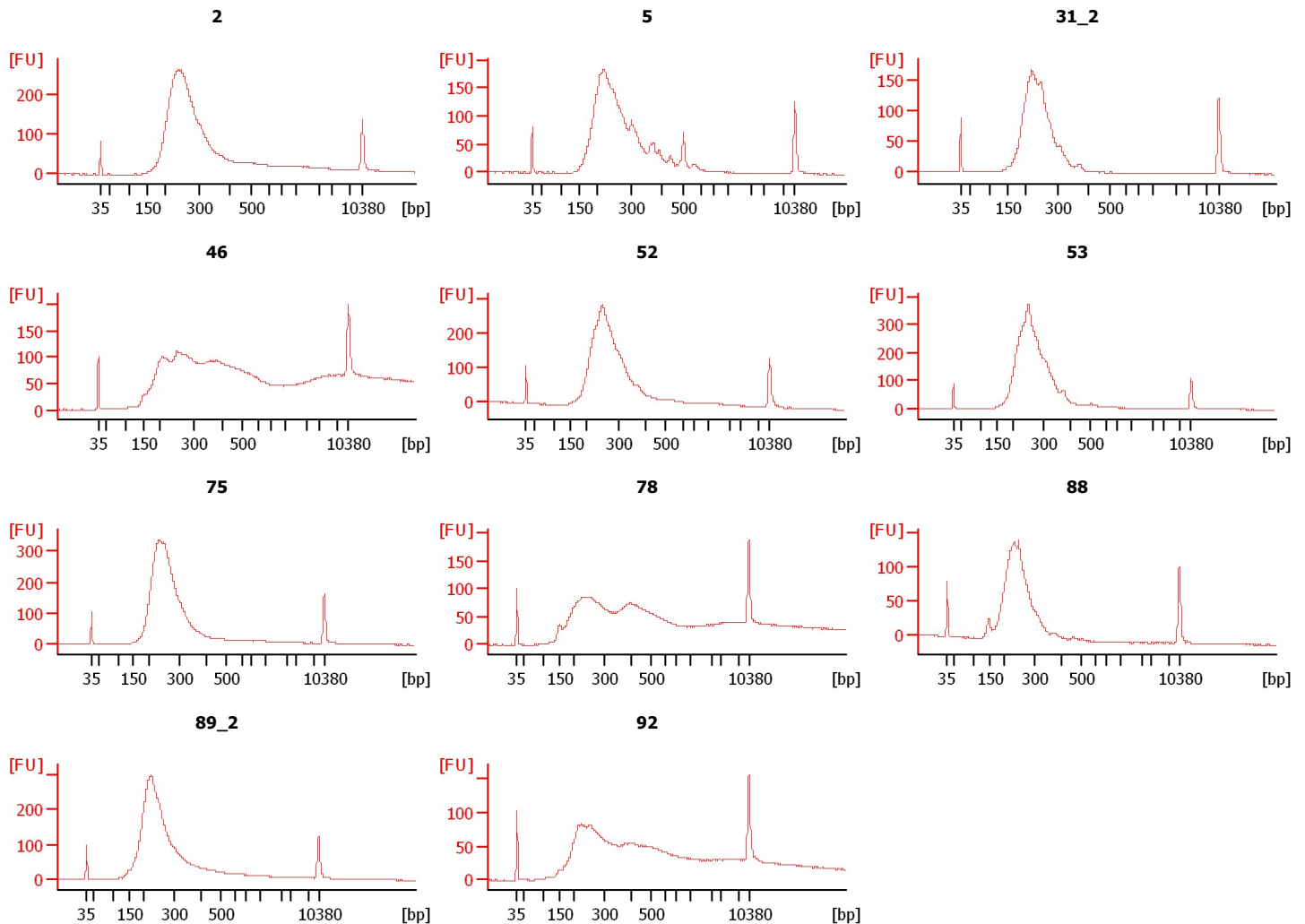
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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:



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
2		<input type="checkbox"/>	✓			
5		<input type="checkbox"/>	✓			
31_2		<input type="checkbox"/>	✓			
46		<input type="checkbox"/>	✓			
52		<input type="checkbox"/>	✓			
53		<input type="checkbox"/>	✓			
75		<input type="checkbox"/>	✓			
78		<input type="checkbox"/>	✓			
88		<input type="checkbox"/>	✓			
89_2		<input type="checkbox"/>	✓			
92		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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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

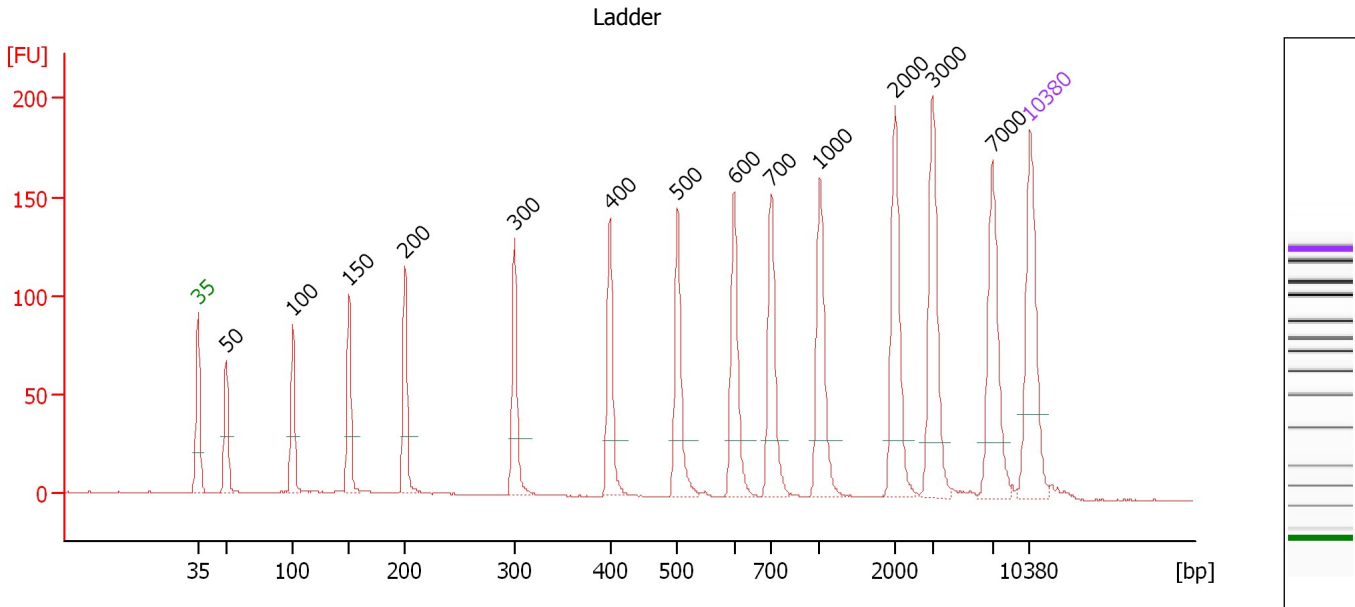
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

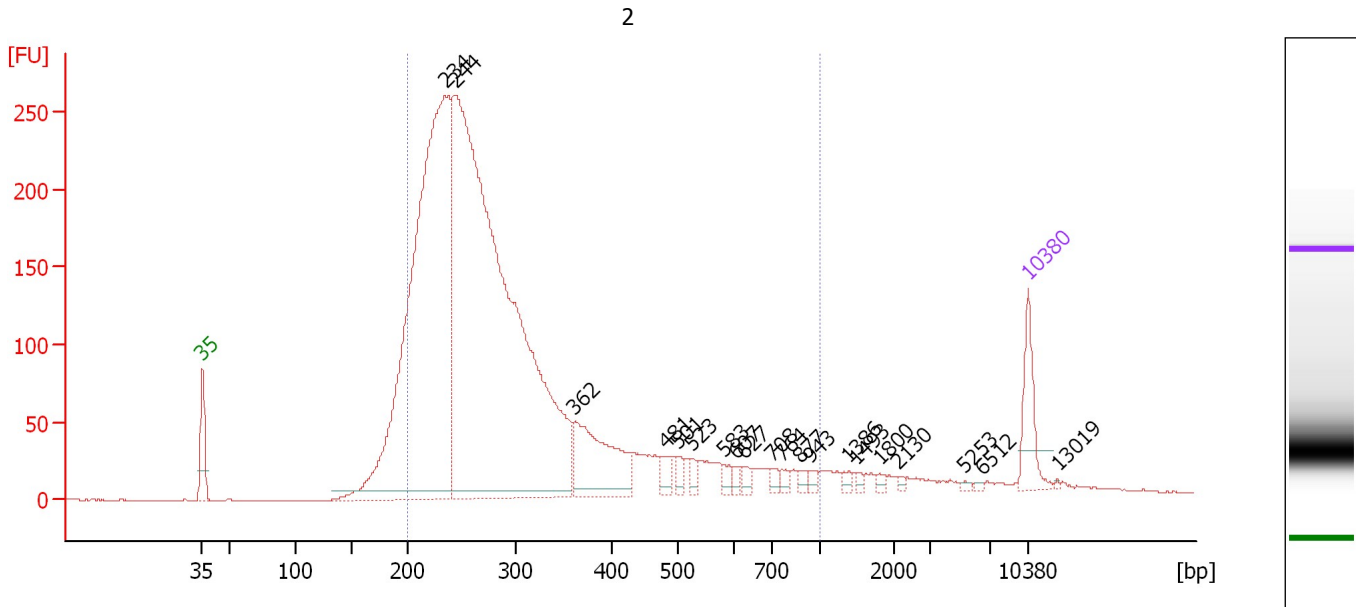
**Peak table for Ladder**

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.94
4	150	150.00	1,515.2	Ladder Peak	55.70
5	200	150.00	1,136.4	Ladder Peak	60.41
6	300	150.00	757.6	Ladder Peak	69.61
7	400	150.00	568.2	Ladder Peak	77.64
8	500	150.00	454.5	Ladder Peak	83.34
9	600	150.00	378.8	Ladder Peak	88.10
10	700	150.00	324.7	Ladder Peak	91.24
11	1,000	150.00	227.3	Ladder Peak	95.32
12	2,000	150.00	113.6	Ladder Peak	101.65
13	3,000	150.00	75.8	Ladder Peak	104.79
14	7,000	150.00	32.5	Ladder Peak	109.81
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 2**

Number of peaks found: 20                      Corr. Area 1: 4,158.7  
 Noise: 0.2

**Peak table for sample 1 : 2**

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	234	1,885.44	12,187.2		63.57
3	244	2,680.29	16,661.1		64.43
4	362	251.07	1,051.8		74.56
5	481	28.73	90.5		82.25
6	501	22.35	67.6		83.38
7	523	19.20	55.7		84.42
8	583	15.96	41.5		87.27
9	607	12.46	31.1		88.31
10	627	14.44	34.9		88.94
11	708	12.47	26.7		91.34
12	764	12.27	24.3		92.11
13	877	11.11	19.2		93.65
14	943	10.36	16.6		94.55
15	1,386	10.69	11.7		97.76
16	1,493	7.56	7.7		98.44
17	1,800	7.16	6.0		100.38
18	2,130	4.09	2.9		102.06
19	5,253	3.88	1.1		107.62
20	6,512	2.95	0.7		109.20
21	10,380	75.00	10.9	Upper Marker	113.00
22	13,019	0.00	0.0		115.49

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**Electropherogram Summary Continued ...**

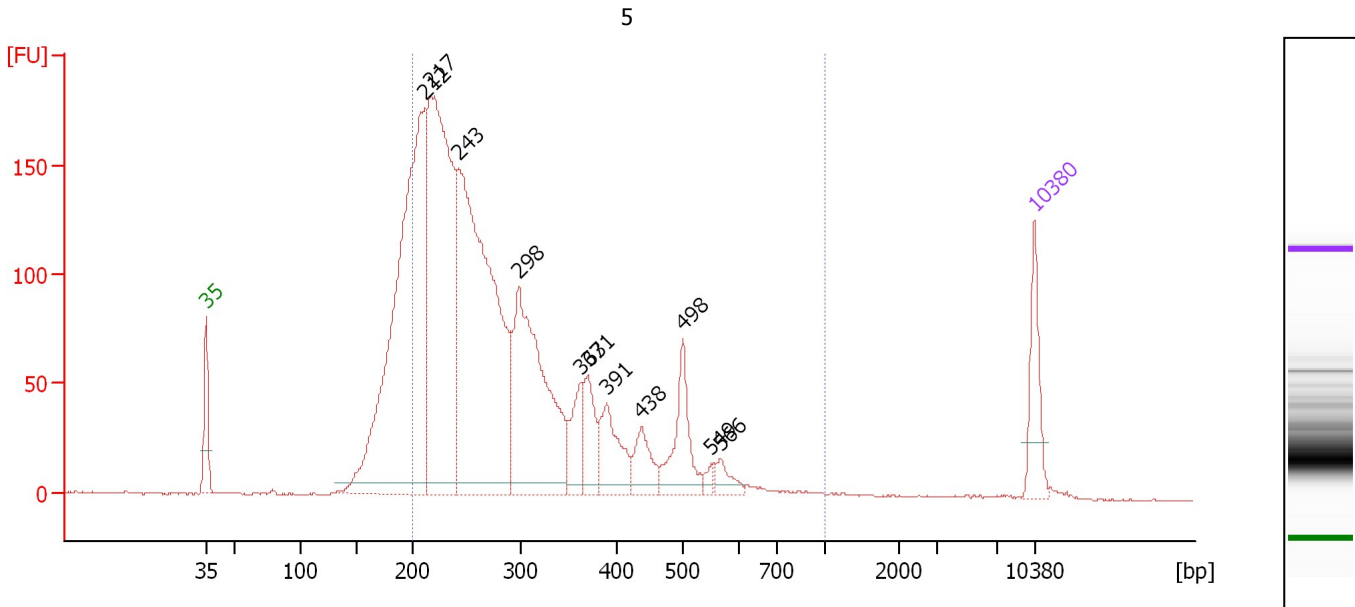
... Region table for sample 1 : 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	309	4,633.04	4,158.7	25,766.0	 89	41.2

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 5**

Number of peaks found: 11                      Corr. Area 1: 2,828.1  
 Noise: 0.3

**Peak table for sample 2 : 5**

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	212	1,157.81	8,289.1		61.48
3	217	960.24	6,703.9		61.98
4	243	1,060.44	6,612.2		64.37
5	298	529.82	2,695.0		69.41
6	363	83.66	349.5		74.64
7	371	89.02	364.0		75.27
8	391	116.64	452.3		76.90
9	438	68.98	238.9		79.78
10	498	126.40	384.2		83.25
11	549	13.92	38.4		85.69
12	566	30.74	82.2		86.50
13	10,380	75.00	10.9	Upper Marker	113.00

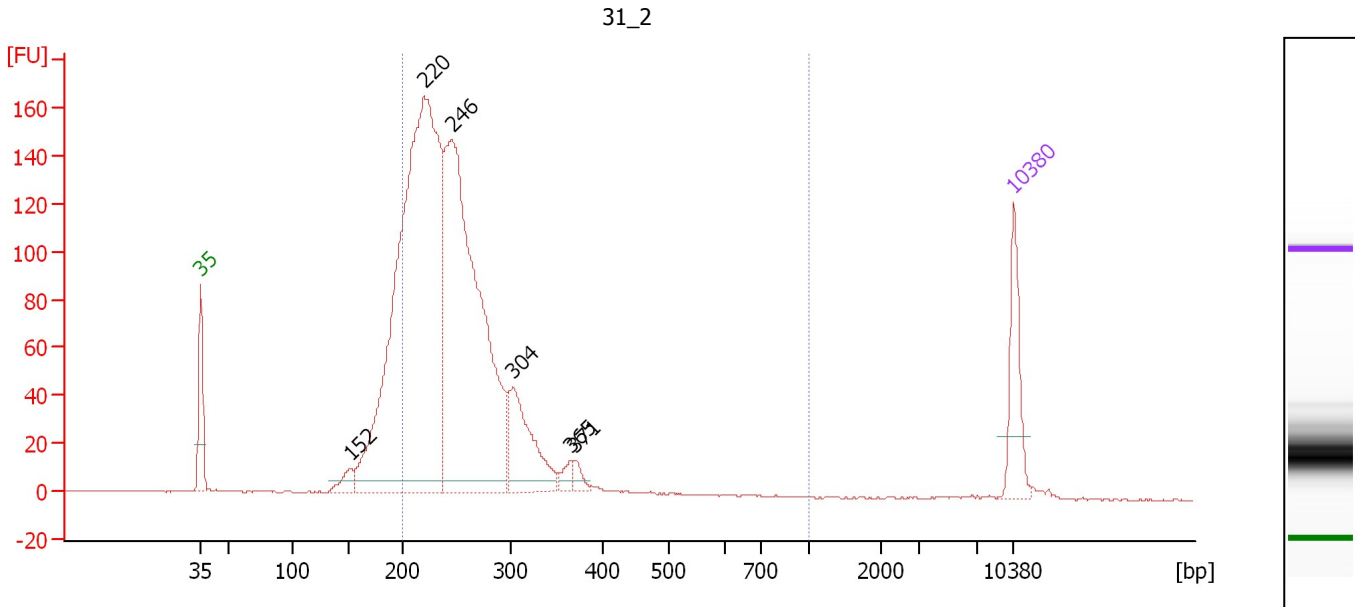
**Region table for sample 2 : 5**

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	298	3,516.01	2,828.1	19,810.8	83	33.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 31\_2**

Number of peaks found: 6                      Corr. Area 1: 1,905.9  
 Noise: 0.3

**Peak table for sample 3 : 31\_2**

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	152	29.89	297.5		55.91
3	220	1,474.79	10,159.2		62.25
4	246	987.52	6,084.4		64.63
5	304	173.40	864.7		69.92
6	365	18.02	74.8		74.83
7	371	16.02	65.5		75.29
8	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 3 : 31\_2**

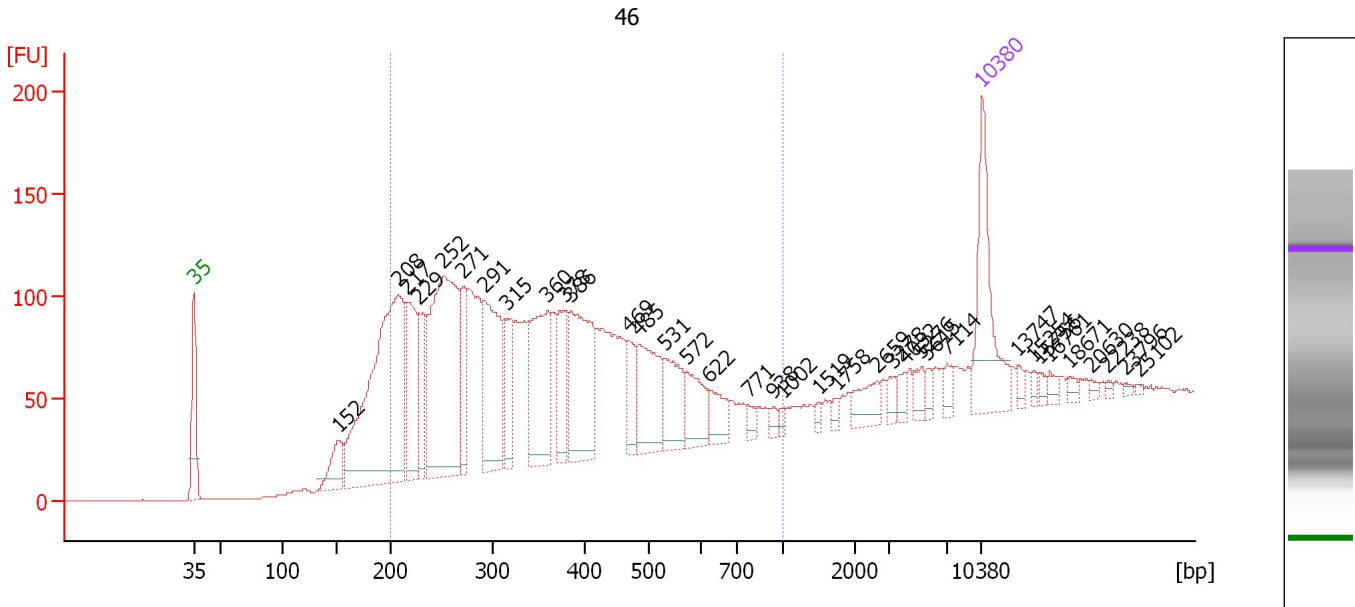
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	255	2,302.17	1,905.9	14,067.0	83	20.2



Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 46**

Number of peaks found: 36                      Corr. Area 1: 2,649.5  
 Noise: 0.2

**Peak table for sample 4 : 46**

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	152	43.21	430.9		55.88
3	208	384.41	2,801.1		61.14
4	217	103.19	721.6		61.94
5	229	60.49	401.0		63.03
6	252	294.10	1,770.5		65.17
7	271	56.92	318.5		66.92
8	291	136.68	712.1		68.76
9	315	56.76	273.1		70.80
10	360	121.67	512.6		74.40
11	378	55.04	220.7		75.87
12	386	127.02	499.1		76.48
13	469	31.25	100.9		81.60
14	485	82.02	256.1		82.50
15	531	50.99	145.5		84.82
16	572	42.47	112.5		86.76
17	622	26.44	64.4		88.80
18	771	8.11	15.9		92.21
19	938	6.09	9.8		94.48
20	1,002	4.36	6.6		95.33
21	1,519	4.28	4.3		98.60
22	1,758	4.15	3.6		100.12
23	2,659	21.26	12.1		103.72
24	3,278	7.84	3.6		105.14
25	4,032	8.77	3.3		106.09

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**Electropherogram Summary Continued ...**

**... Peak table for sample 4 : 46**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	5,276	10.42	3.0		107.65
27	5,615	6.58	1.8		108.07
28	7,114	8.99	1.9		109.92
29	10,380	75.00	10.9	Upper Marker	113.00
30	13,747	0.00	0.0		116.17
31	15,254	0.00	0.0		117.59
32	15,756	0.00	0.0		118.07
33	16,761	0.00	0.0		119.01
34	18,671	0.00	0.0		120.81
35	20,630	0.00	0.0		122.66
36	22,238	0.00	0.0		124.18
37	23,796	0.00	0.0		125.65
38	25,102	0.00	0.0		126.88

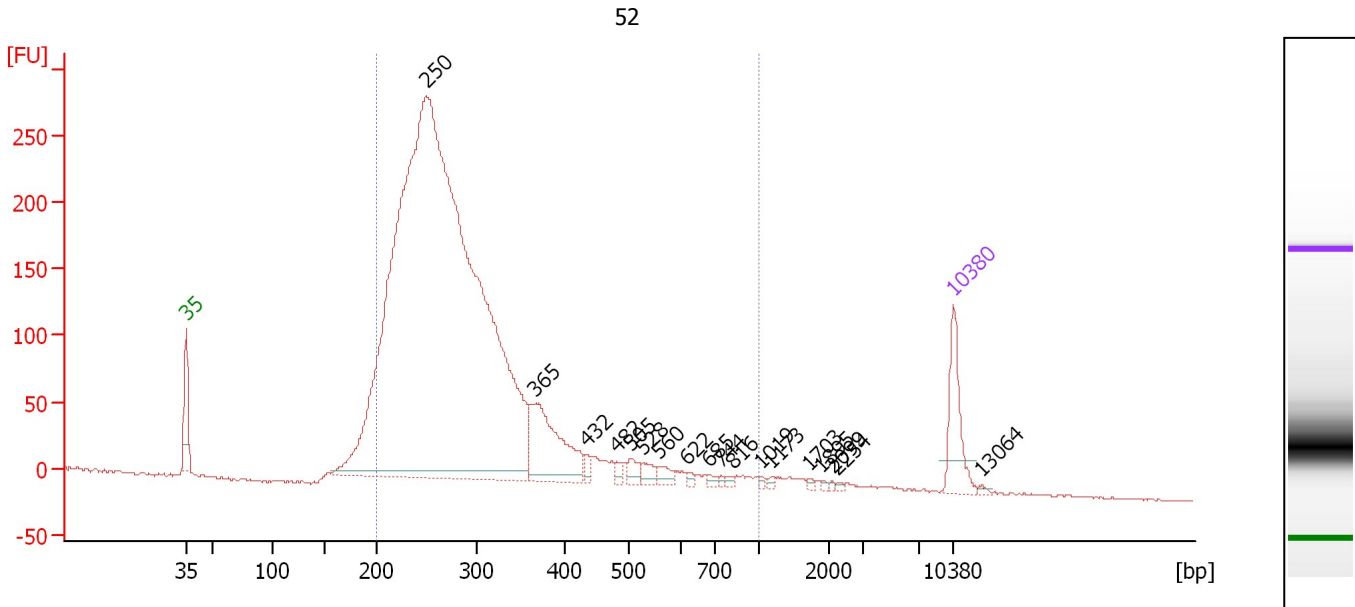
**Region table for sample 4 : 46**

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	367	1,660.73	2,649.5	8,053.3	79	37.7

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 52**

Number of peaks found: 18                      Corr. Area 1: 4,145.7  
 Noise: 0.7

**Peak table for sample 5 : 52**

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	250	3,458.97	20,983.6		64.99
3	365	204.28	848.5		74.81
4	432	12.70	44.5		79.48
5	482	10.16	31.9		82.31
6	505	19.68	59.1		83.57
7	528	18.06	51.8		84.69
8	560	18.11	49.0		86.20
9	622	5.50	13.4		88.77
10	685	6.54	14.5		90.77
11	744	3.89	7.9		91.84
12	816	4.65	8.6		92.81
13	1,019	3.50	5.2		95.44
14	1,173	3.82	4.9		96.41
15	1,703	3.37	3.0		99.77
16	1,895	2.62	2.1		100.98
17	2,099	2.32	1.7		101.96
18	2,254	2.40	1.6		102.44
19	10,380	75.00	10.9	Upper Marker	113.00
20	13,064	0.00	0.0		115.53

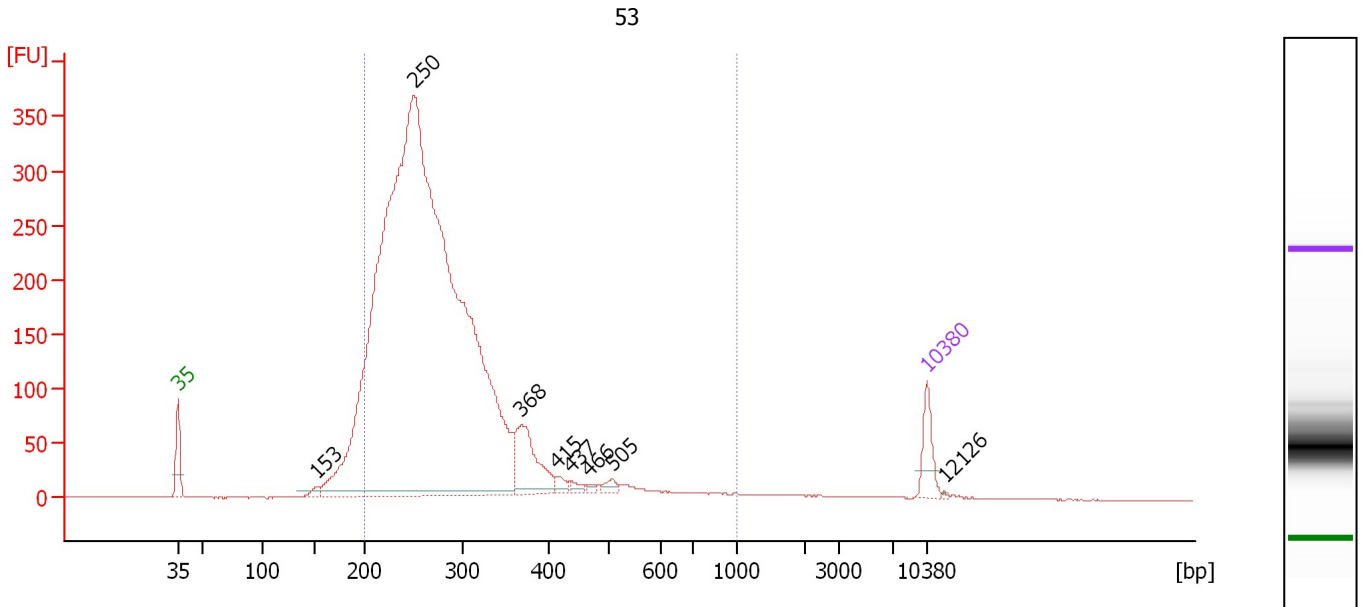
**Region table for sample 5 : 52**

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	298	3,581.43	4,145.7	19,836.7	93	34.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 53**

Number of peaks found: 8                      Corr. Area 1: 4,895.6  
 Noise: 0.3

**Peak table for sample 6 : 53**

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	153	26.53	262.2		56.01
3	250	6,544.18	39,614.4		65.04
4	368	241.17	991.7		75.11
5	415	24.26	88.6		78.50
6	437	18.93	65.7		79.75
7	466	10.62	34.5		81.39
8	505	22.30	66.9		83.58
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,126	0.00	0.0		114.65

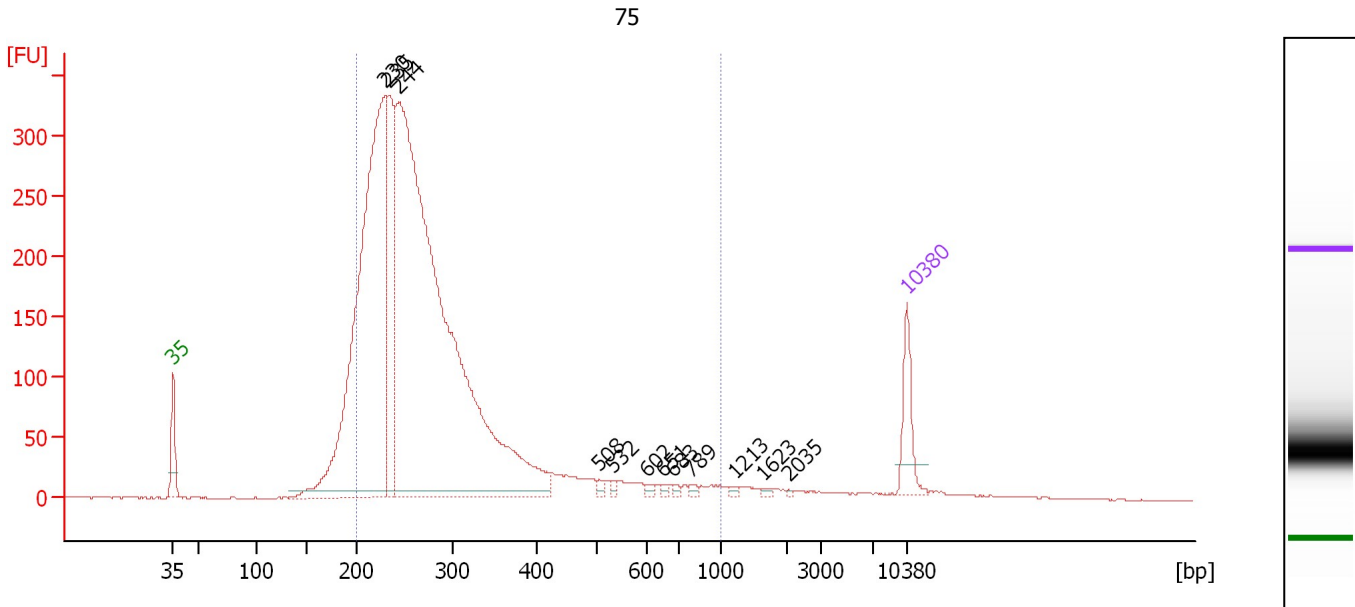
**Region table for sample 6 : 53**

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	284	6,551.96	4,895.6	37,059.2	93	28.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 75**

Number of peaks found: 12                      Corr. Area 1: 4,650.4  
 Noise: 0.2

**Peak table for sample 7 : 75**

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	230	1,617.49	10,642.1		63.20
3	235	391.20	2,525.4		63.60
4	244	2,740.92	17,012.3		64.47
5	508	9.35	27.9		83.70
6	532	7.88	22.4		84.87
7	602	7.71	19.4		88.17
8	651	7.34	17.1		89.70
9	683	5.85	13.0		90.72
10	789	6.60	12.7		92.45
11	1,213	4.66	5.8		96.67
12	1,623	4.57	4.3		99.26
13	2,035	1.98	1.5		101.76
14	10,380	75.00	10.9	Upper Marker	113.00

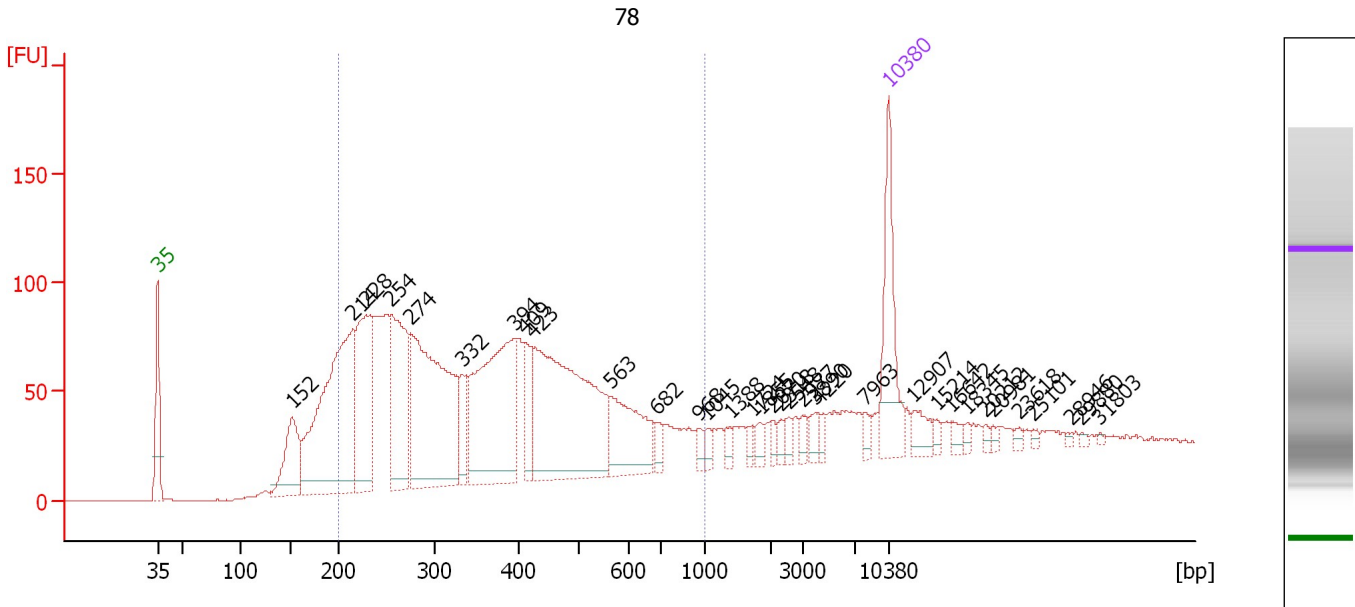
**Region table for sample 7 : 75**

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	288	4,410.64	4,650.4	25,347.8	90	36.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 78**

Number of peaks found: 34                      Corr. Area 1: 2,316.8  
 Noise: 0.3

**Peak table for sample 8 : 78**

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	152	94.76	947.7		55.84
3	214	350.96	2,479.2		61.74
4	228	180.36	1,198.6		62.99
5	254	166.94	996.3		65.37
6	274	318.80	1,762.0		67.23
7	332	34.10	155.8		72.15
8	394	228.03	876.5		77.17
9	409	41.73	154.6		78.16
10	423	304.37	1,091.1		78.93
11	563	92.39	248.7		86.34
12	682	13.96	31.0		90.68
13	968	8.68	13.6		94.88
14	1,045	8.42	12.2		95.60
15	1,388	8.91	9.7		97.78
16	1,724	7.01	6.2		99.90
17	1,855	8.63	7.0		100.73
18	2,070	6.58	4.8		101.87
19	2,318	6.60	4.3		102.64
20	2,548	7.92	4.7		103.37
21	2,977	8.51	4.3		104.72
22	3,890	9.88	3.8		105.91
23	4,220	7.09	2.5		106.32
24	7,963	7.47	1.4		110.72
25	10,380	75.00	10.9	Upper Marker	113.00

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 8 : 78

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	12,907	0.00	0.0		115.38
27	15,214	0.00	0.0		117.56
28	16,642	0.00	0.0		118.90
29	18,345	0.00	0.0		120.51
30	20,212	0.00	0.0		122.27
31	20,981	0.00	0.0		122.99
32	23,618	0.00	0.0		125.48
33	25,101	0.00	0.0		126.88
34	28,946	0.00	0.0		130.50
35	29,880	0.00	0.0		131.38
36	31,803	0.00	0.0		133.19

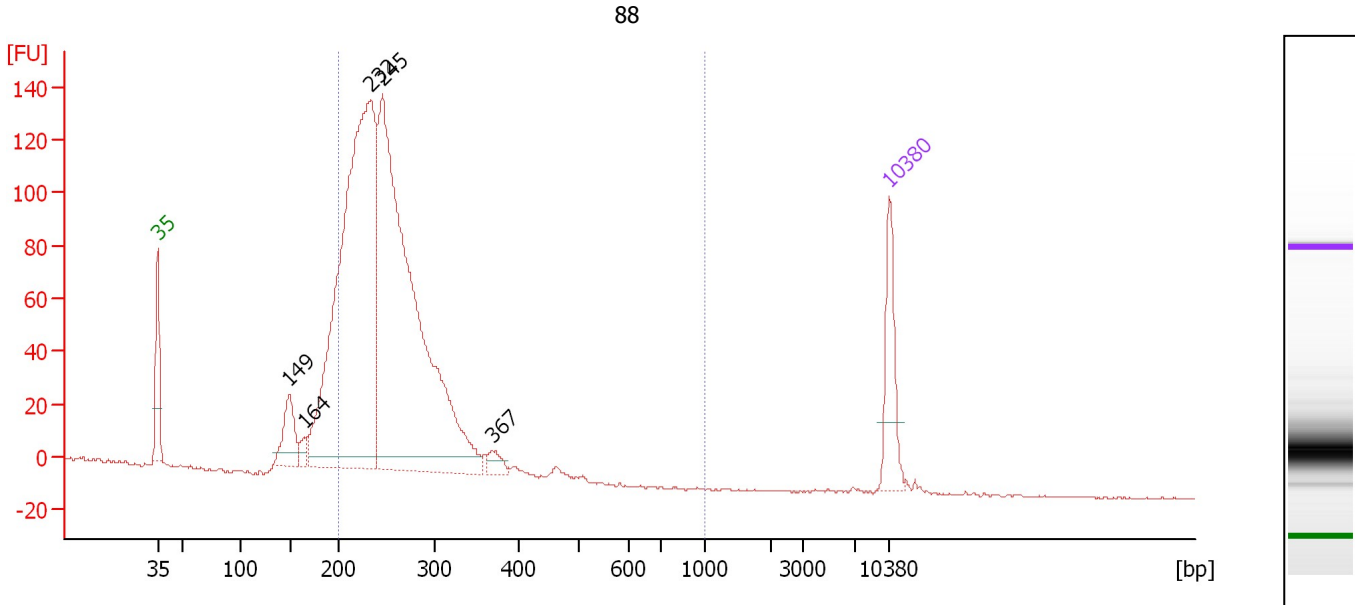
#### Region table for sample 8 : 78

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	384	1,688.71	2,316.8	8,053.7	 74	40.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_003.xad

Created: 11/8/2019 2:15:38 PM  
 Modified: 11/8/2019 2:56:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 88**

Number of peaks found: 5                      Corr. Area 1: 1,542.8  
 Noise: 0.4

**Peak table for sample 9 : 88**

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	149	90.77	923.6		55.59
3	164	17.30	159.5		57.05
4	232	1,134.55	7,411.1		63.35
5	245	1,115.25	6,898.0		64.55
6	367	19.70	81.3		75.01
7	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 9 : 88**

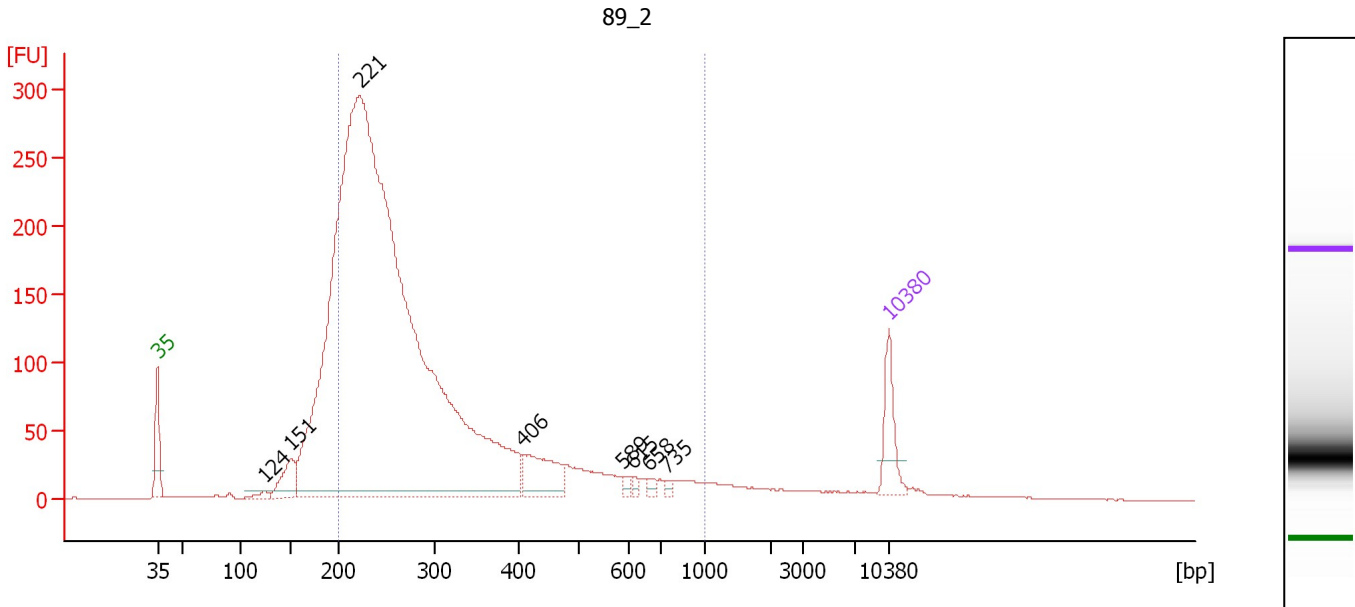
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	252	1,976.39	1,542.8	12,054.7	85	14.9



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_003.xad

Created: 11/8/2019 2:15:38 PM  
 Modified: 11/8/2019 2:56:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 89\_2**

Number of peaks found: 8                      Corr. Area 1: 3,814.0  
 Noise: 0.2

**Peak table for sample 10 : 89\_2**

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	124	15.82	193.7		53.20
3	151	97.19	976.8		55.77
4	221	4,860.73	33,328.9		62.34
5	406	134.36	501.0		78.00
6	589	11.03	28.4		87.56
7	615	9.71	23.9		88.56
8	658	10.18	23.4		89.93
9	735	9.96	20.5		91.72
10	10,380	75.00	10.9	Upper Marker	113.00

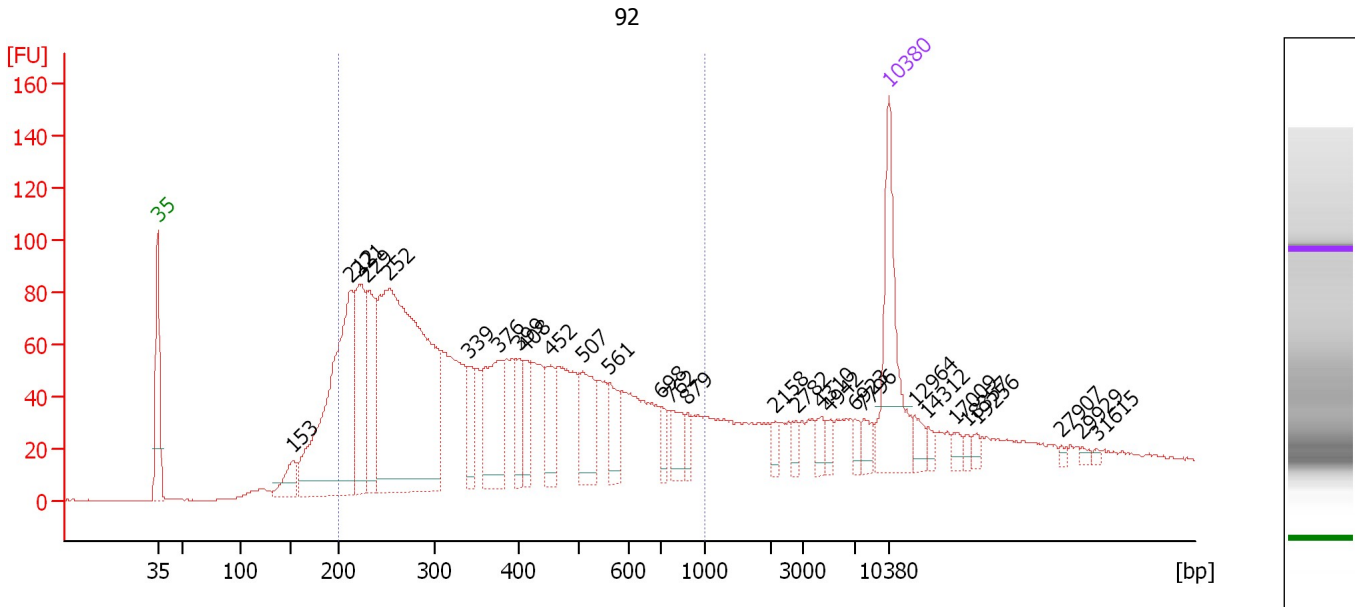
**Region table for sample 10 : 89\_2**

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	300	4,196.13	3,814.0	24,100.8	80	41.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_003.xad

Created: 11/8/2019 2:15:38 PM  
 Modified: 11/8/2019 2:56:55 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 92**

Number of peaks found: 29                      Corr. Area 1: 2,231.2  
 Noise: 0.2

**Peak table for sample 11 : 92**

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	153	27.25	270.0		55.97
3	212	265.61	1,896.5		61.53
4	221	103.87	712.7		62.33
5	229	84.15	557.0		63.07
6	252	440.38	2,648.6		65.19
7	339	28.75	128.7		72.70
8	376	82.52	332.4		75.72
9	399	26.27	99.7		77.58
10	408	25.69	95.4		78.11
11	452	34.41	115.4		80.59
12	507	49.02	146.5		83.67
13	561	30.67	82.8		86.26
14	698	12.18	26.4		91.18
15	762	22.09	43.9		92.08
16	879	9.93	17.1		93.67
17	2,158	6.35	4.5		102.15
18	2,782	6.73	3.7		104.10
19	4,310	8.81	3.1		106.43
20	4,942	6.61	2.0		107.23
21	6,923	6.44	1.4		109.72
22	7,796	9.18	1.8		110.56
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,964	0.00	0.0		115.44
25	14,312	0.00	0.0		116.71

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_003.xad

Created: 11/8/2019 2:15:38 PM  
 Modified: 11/8/2019 2:56:55 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 11 : 92

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	17,009	0.00	0.0		119.25
27	18,357	0.00	0.0		120.52
28	19,256	0.00	0.0		121.37
29	27,907	0.00	0.0		129.52
30	29,929	0.00	0.0		131.43
31	31,615	0.00	0.0		133.02

#### Region table for sample 11 : 92

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	395	1,478.79	2,231.2	7,028.5	 75	43.4

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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_003.xad

Created: 11/8/2019 2:15:38 PM  
Modified: 11/8/2019 2:56:55 PM

**Gel Image**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-08\2019-11-08\_003.xad

Created: 11/8/2019 2:15:38 PM  
 Modified: 11/8/2019 2:56:55 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		11/8/2019 2:56:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-11-08\2019-11-08_003.xad)		Instrument	Run		11/8/2019 2:15:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		11/8/2019 2:15:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/8/2019 2:15:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/8/2019 2:15:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		11/8/2019 2:15:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/8/2019 2:15:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/8/2019 2:15:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1