

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-08\2017-07-08_001.xad

Created: 7/8/2017 11:46:43 AM
Modified: 7/8/2017 12:28:01 PM

Electrophoresis File Run Summary

Instrument Information:

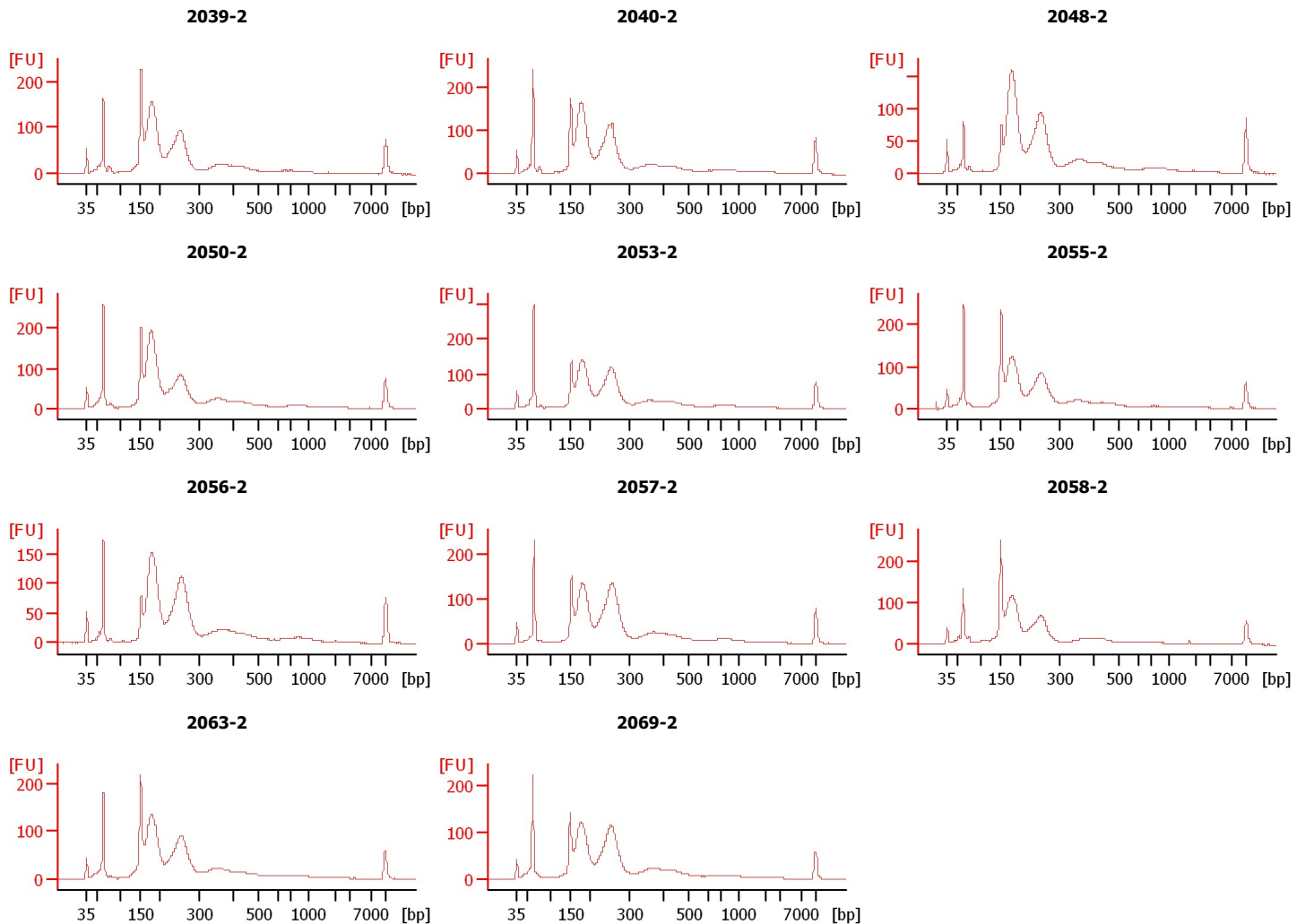
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
2039-2		<input type="checkbox"/>	✓			
2040-2		<input type="checkbox"/>	✓			
2048-2		<input type="checkbox"/>	✓			
2050-2		<input type="checkbox"/>	✓			
2053-2		<input type="checkbox"/>	✓			
2055-2		<input type="checkbox"/>	✓			
2056-2		<input type="checkbox"/>	✓			
2057-2		<input type="checkbox"/>	✓			
2058-2		<input type="checkbox"/>	✓			
2063-2		<input type="checkbox"/>	✓			
2069-2		<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

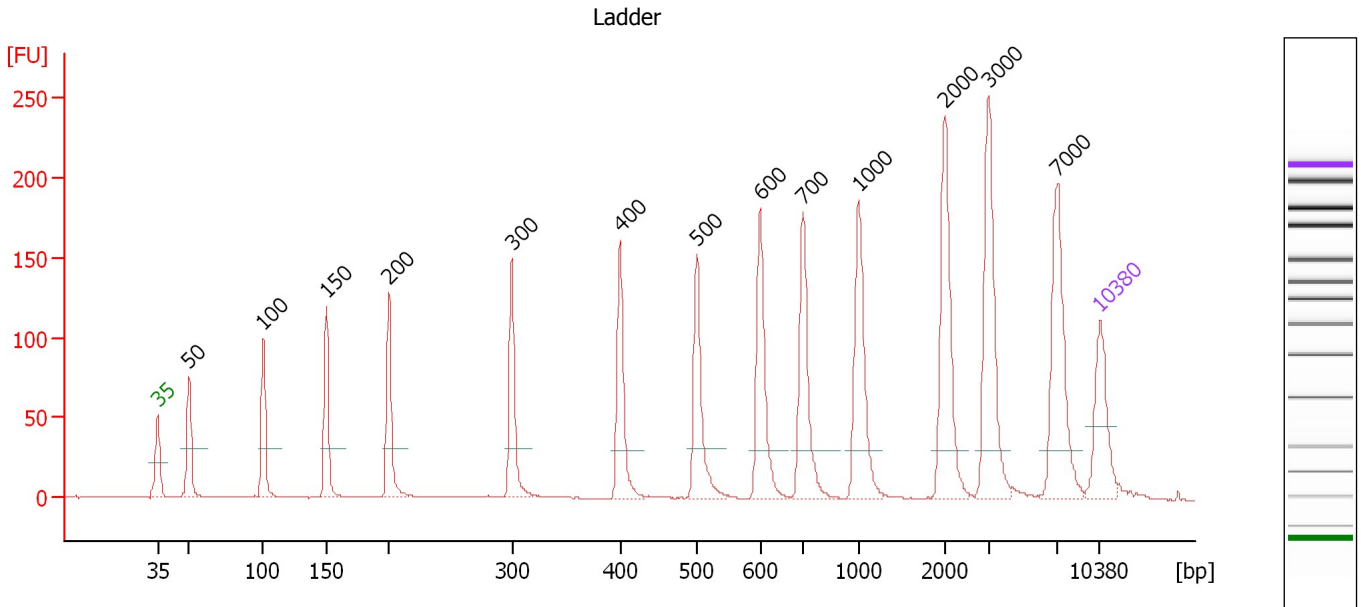
Ladder

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: 0.2

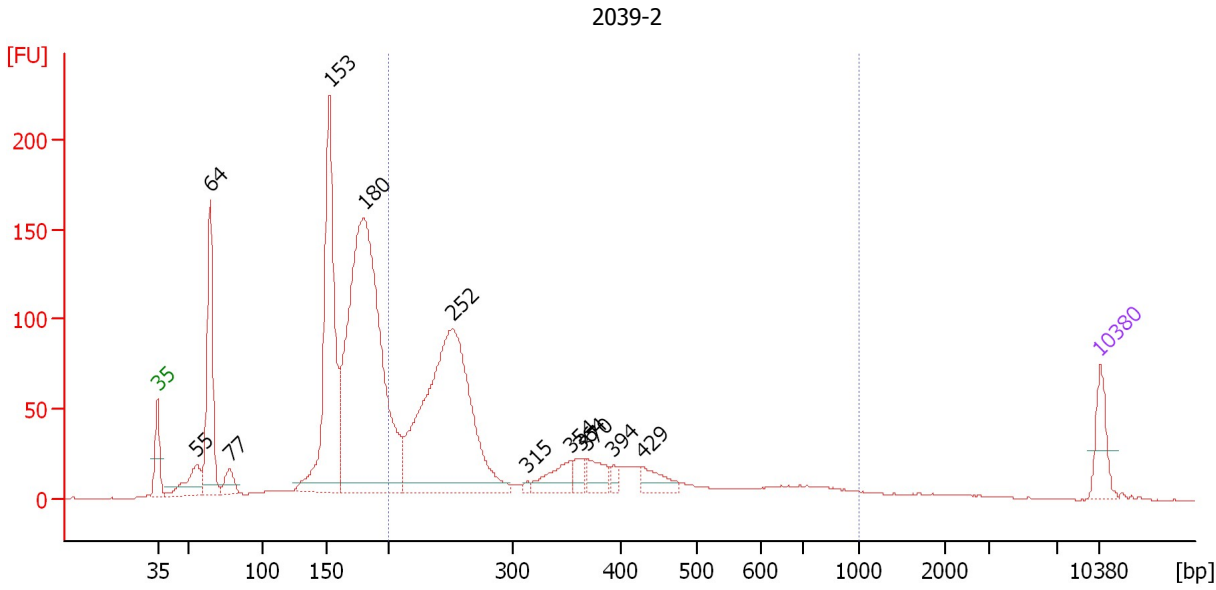
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	50.84
4	150	150.00	1,515.2	Ladder Peak	55.54
5	200	150.00	1,136.4	Ladder Peak	60.19
6	300	150.00	757.6	Ladder Peak	69.32
7	400	150.00	568.2	Ladder Peak	77.34
8	500	150.00	454.5	Ladder Peak	83.05
9	600	150.00	378.8	Ladder Peak	87.75
10	700	150.00	324.7	Ladder Peak	90.94
11	1,000	150.00	227.3	Ladder Peak	95.06
12	2,000	150.00	113.6	Ladder Peak	101.48
13	3,000	150.00	75.8	Ladder Peak	104.72
14	7,000	150.00	32.5	Ladder Peak	109.85
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 2039-2

Number of peaks found: 12 Corr. Area 1: 1,107.9
 Noise: 0.3

Peak table for sample 1 : 2039-2

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	55	130.58	3,581.4		45.92
3	64	453.97	10,705.4		46.91
4	77	61.60	1,206.6		48.35
5	153	880.54	8,745.0		55.78
6	180	1,770.28	14,891.1		58.34
7	252	1,214.31	7,309.6		64.91
8	315	9.47	45.6		70.49
9	354	89.65	383.9		73.64
10	364	41.94	174.6		74.45
11	370	72.77	298.3		74.90
12	394	20.53	78.9		76.88
13	429	65.82	232.5		78.99
14	10,380	75.00	10.9	Upper Marker	113.00

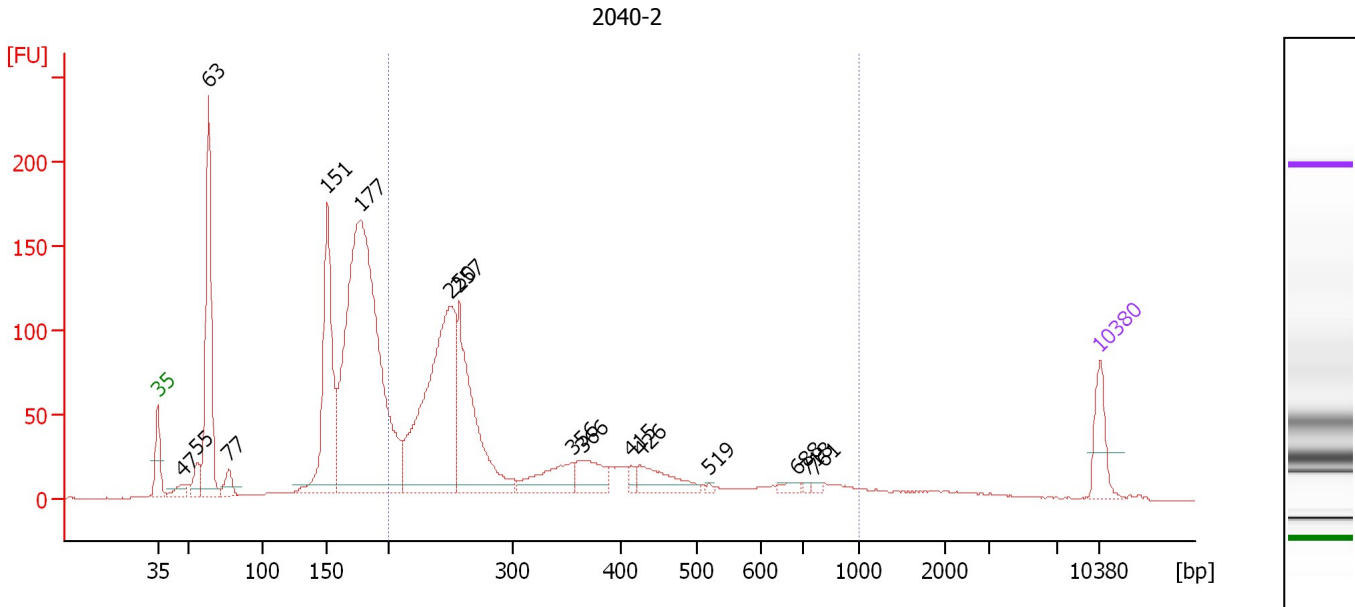
Region table for sample 1 : 2039-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	333	1,107.9	11,781.7	2,179.10	42	44.0

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 2040-2

Number of peaks found: 16 Corr. Area 1: 1,274.8
 Noise: 0.2

Peak table for sample 2 : 2040-2

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	47	41.72	1,357.6		44.81
3	55	67.08	1,834.6		45.94
4	63	571.68	13,700.4		46.80
5	77	51.44	1,014.6		48.29
6	151	551.75	5,538.9		55.62
7	177	1,705.20	14,621.1		58.02
8	250	817.27	4,950.6		64.76
9	257	477.48	2,814.3		65.40
10	356	121.01	514.9		73.81
11	366	96.68	399.9		74.63
12	415	18.44	67.3		78.20
13	426	96.91	344.4		78.84
14	519	5.03	14.7		83.95
15	688	14.50	31.9		90.56
16	718	5.25	11.1		91.19
17	761	6.42	12.8		91.78
18	10,380	75.00	10.9	Upper Marker	113.00

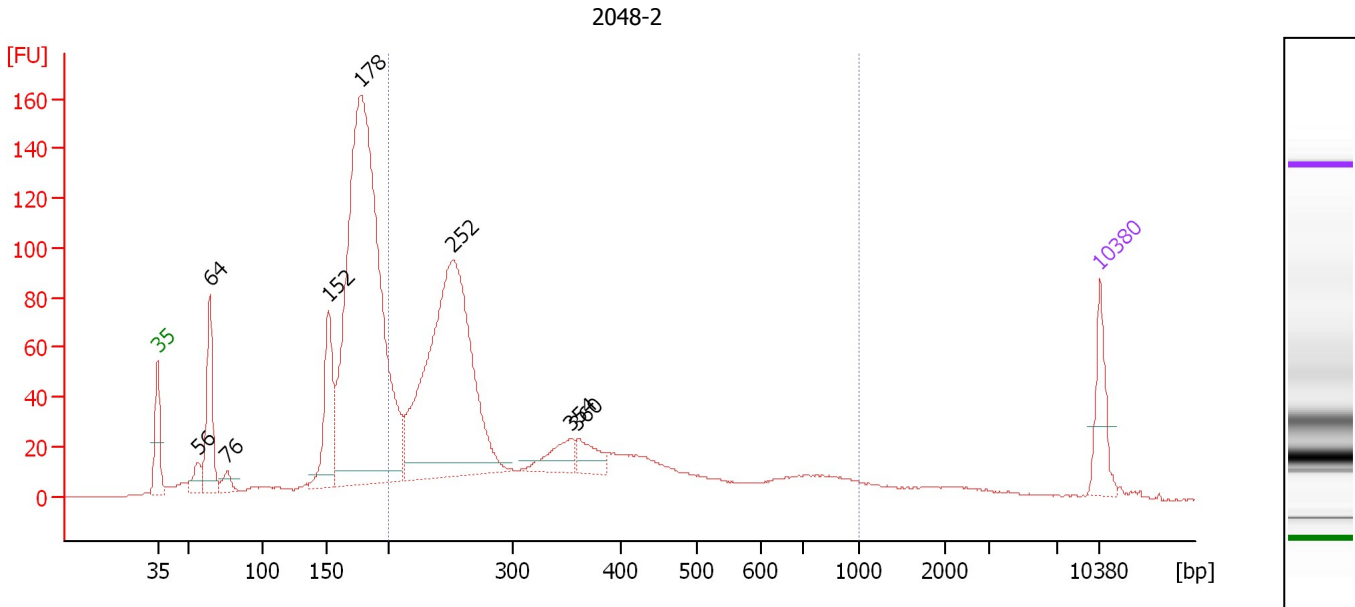
Region table for sample 2 : 2040-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	337	1,274.8	11,926.9	2,218.81	45	45.3

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 2048-2

Number of peaks found: 8 Corr. Area 1: 1,142.7
 Noise: 0.2

Peak table for sample 3 : 2048-2

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	56	51.76	1,404.0		45.99
3	64	219.22	5,204.9		46.87
4	76	35.97	721.4		48.15
5	152	239.12	2,387.2		55.70
6	178	1,745.96	14,863.2		58.14
7	252	1,055.56	6,341.9		64.95
8	354	69.68	298.2		73.65
9	360	63.46	266.8		74.16
10	10,380	75.00	10.9	Upper Marker	113.00

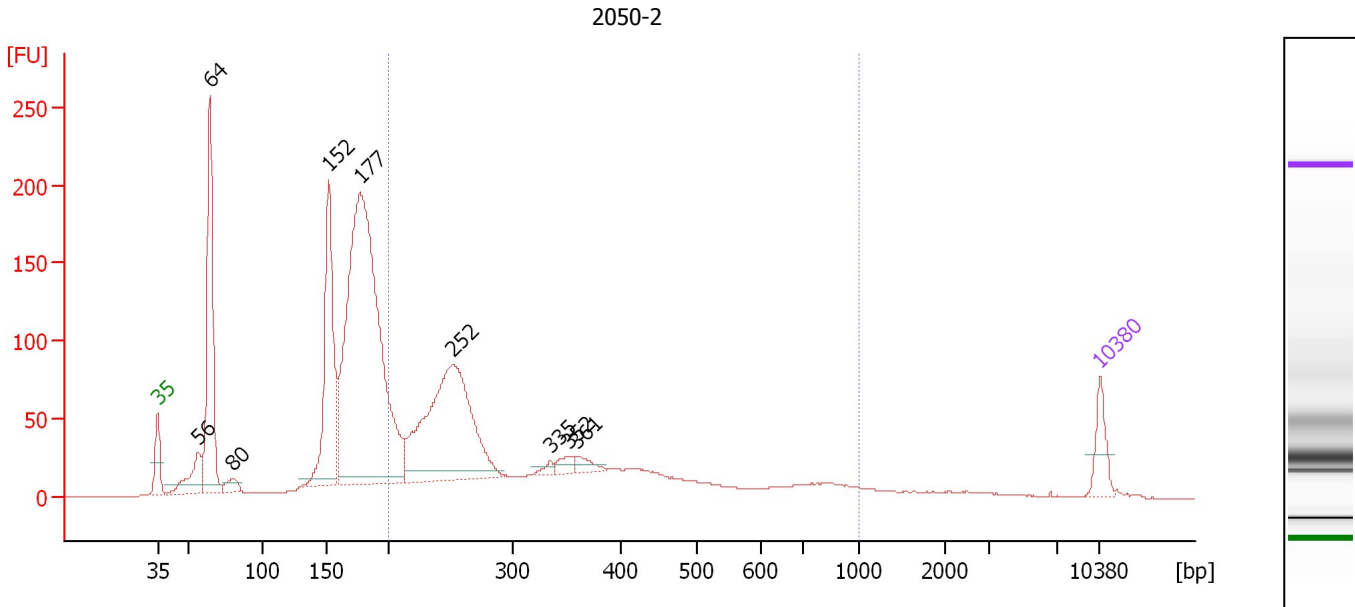
Region table for sample 3 : 2048-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	341	1,142.7	11,519.1	2,160.31	49	45.5

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



Overall Results for sample 4 : 2050-2

Number of peaks found: 9 Corr. Area 1: 1,188.6
 Noise: 0.1

Peak table for sample 4 : 2050-2

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	56	173.26	4,692.9		46.00
3	64	730.34	17,277.6		46.89
4	80	44.17	838.3		48.63
5	152	687.41	6,861.0		55.71
6	177	2,210.73	18,924.0		58.05
7	252	995.93	5,986.3		64.94
8	335	18.72	84.5		72.16
9	352	39.00	167.9		73.48
10	361	37.61	158.0		74.18
11	10,380	75.00	10.9	Upper Marker	113.00

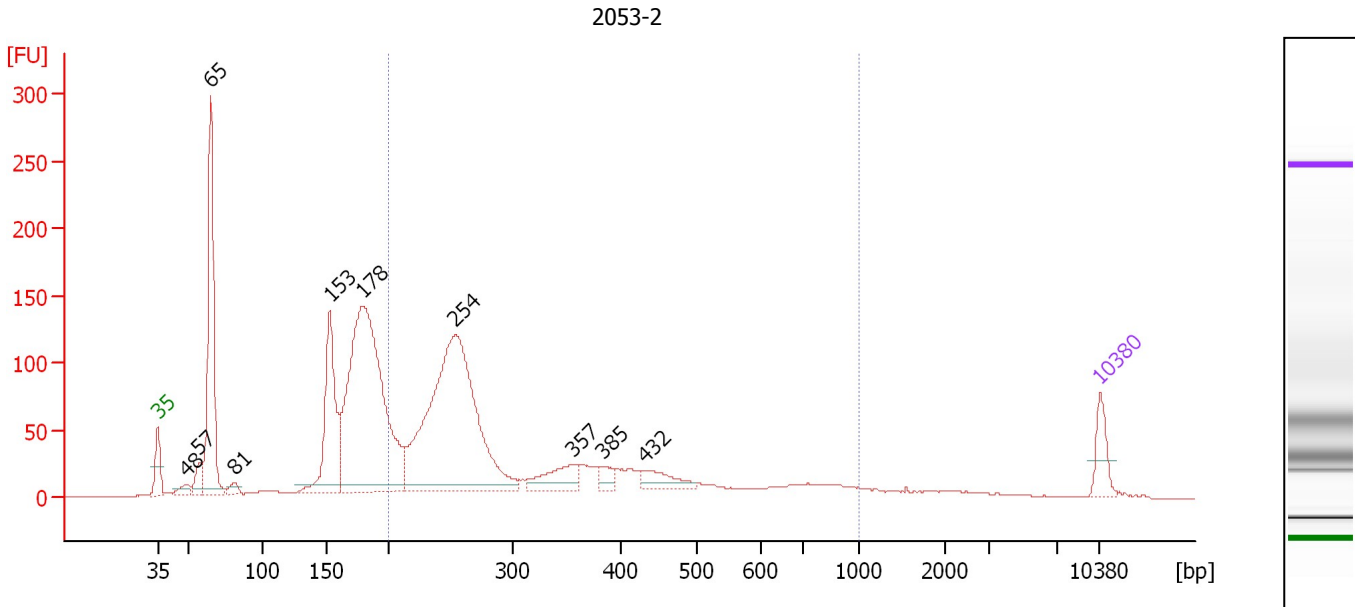
Region table for sample 4 : 2050-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	346	1,188.6	12,698.8	2,405.23	40	45.3

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



Overall Results for sample 5 : 2053-2

Number of peaks found: 10 Corr. Area 1: 1,391.9
 Noise: 0.2

Peak table for sample 5 : 2053-2

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	48	45.58	1,427.9		45.09
3	57	85.87	2,292.2		46.09
4	65	828.30	19,441.5		46.95
5	81	33.56	631.2		48.71
6	153	532.78	5,285.3		55.79
7	178	1,670.25	14,194.4		58.17
8	254	1,545.58	9,221.8		65.11
9	357	137.61	583.6		73.91
10	385	45.49	179.2		76.10
11	432	89.91	315.6		79.14
12	10,380	75.00	10.9	Upper Marker	113.00

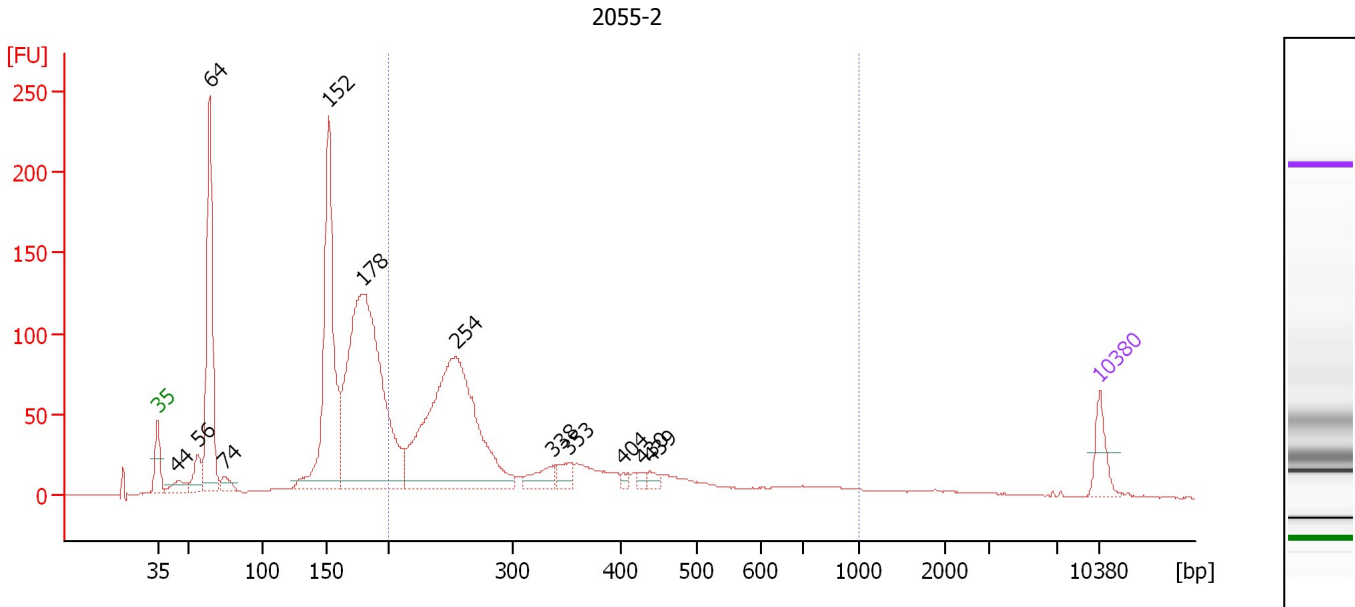
Region table for sample 5 : 2053-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	339	1,391.9	14,591.0	2,739.27	49	45.1

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



Overall Results for sample 6 : 2055-2

Number of peaks found: 12 Corr. Area 1: 1,055.5
 Noise: 0.2

Peak table for sample 6 : 2055-2

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	44	65.91	2,259.1		44.44
3	56	107.34	2,917.8		45.98
4	64	775.77	18,352.2		46.89
5	74	48.81	998.0		48.00
6	152	1,029.99	10,296.5		55.68
7	178	1,715.64	14,569.5		58.18
8	254	1,342.20	7,996.1		65.15
9	338	79.39	355.4		72.40
10	353	54.55	234.2		73.56
11	404	16.54	61.9		77.59
12	430	16.17	57.0		79.03
13	439	24.81	85.6		79.56
14	10,380	75.00	10.9	Upper Marker	113.00

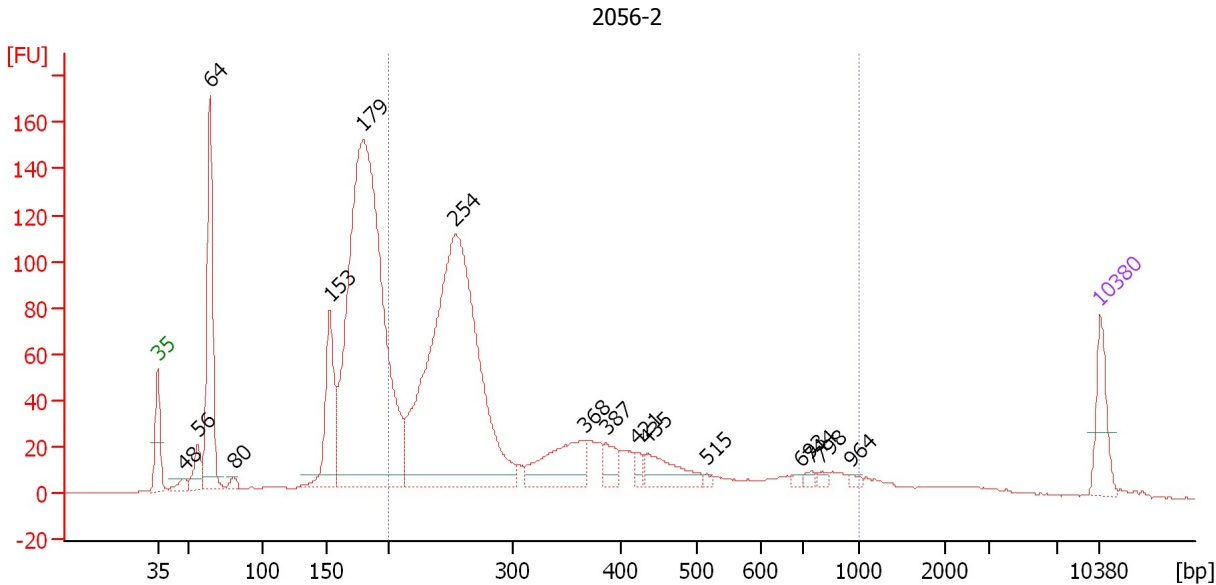
Region table for sample 6 : 2055-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	334	1,055.5	13,136.7	2,459.83	42	43.4

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 2056-2

Number of peaks found: 16 Corr. Area 1: 1,299.0
 Noise: 0.2

Peak table for sample 7 : 2056-2

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	48	26.49	840.8		44.99
3	56	70.74	1,926.5		45.97
4	64	454.40	10,749.4		46.89
5	80	16.22	307.3		48.64
6	153	256.95	2,548.8		55.79
7	179	1,772.79	14,971.3		58.27
8	254	1,470.88	8,768.3		65.13
9	368	172.11	708.7		74.77
10	387	44.97	175.9		76.32
11	421	20.52	73.8		78.56
12	435	91.52	318.8		79.34
13	515	6.60	19.4		83.76
14	693	7.68	16.8		90.72
15	744	9.83	20.0		91.55
16	798	9.92	18.9		92.28
17	964	6.45	10.1		94.56
18	10,380	75.00	10.9	Upper Marker	113.00

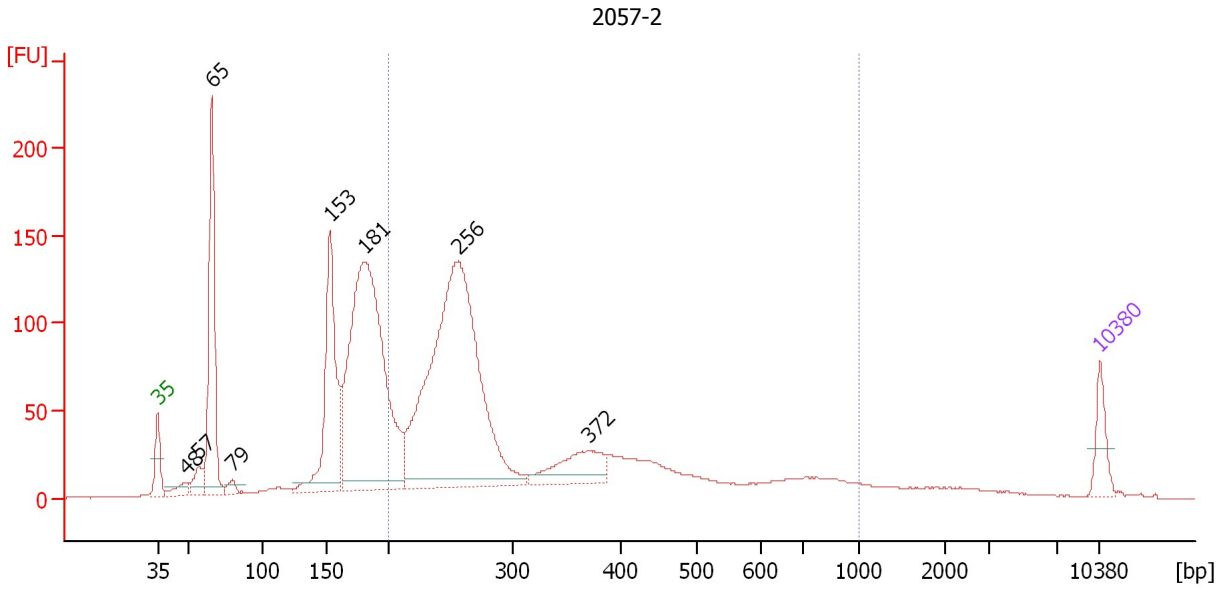
Region table for sample 7 : 2056-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	341	1,299.0	13,569.3	2,552.64	52	45.8

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 2057-2

Number of peaks found: 8 Corr. Area 1: 1,528.6
 Noise: 0.1

Peak table for sample 8 : 2057-2

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	48	56.78	1,775.1		45.11
3	57	78.96	2,108.6		46.09
4	65	668.91	15,541.4		47.02
5	79	37.22	713.5		48.54
6	153	661.89	6,565.2		55.79
7	181	1,701.55	14,227.6		58.44
8	256	1,944.23	11,505.5		65.30
9	372	212.77	867.5		75.06
10	10,380	75.00	10.9	Upper Marker	113.00

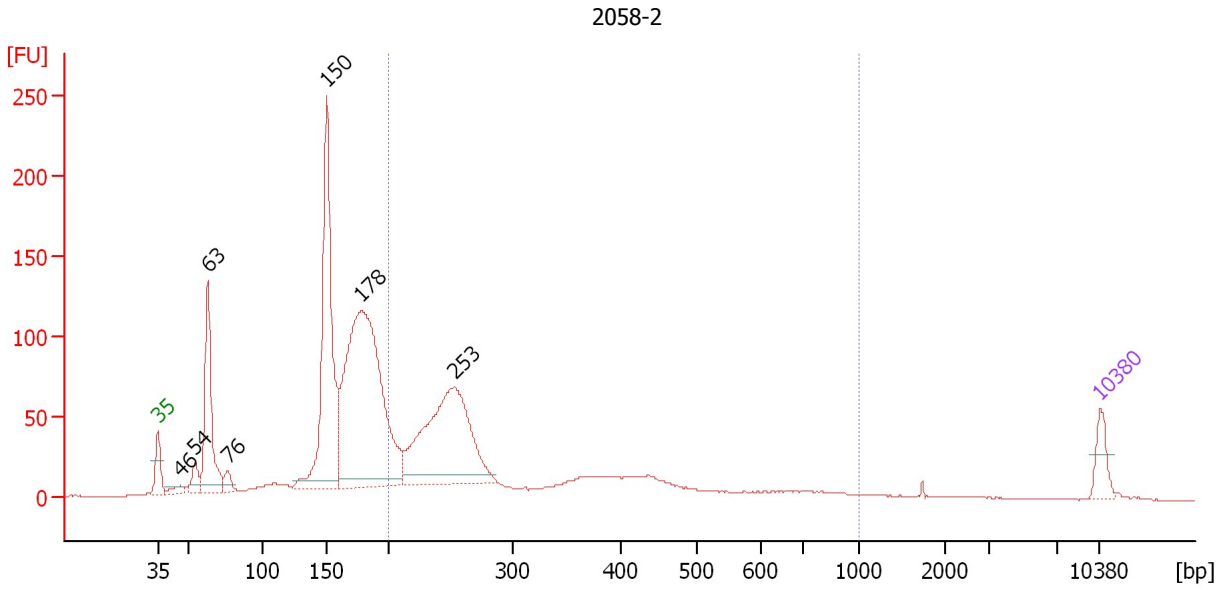
Region table for sample 8 : 2057-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	340	1,528.6	17,580.3	3,310.56	52	45.2

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 2058-2

Number of peaks found: 7 Corr. Area 1: 781.6
 Noise: 0.2

Peak table for sample 9 : 2058-2

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	46	45.07	1,484.9		44.72
3	54	84.59	2,368.5		45.80
4	63	557.10	13,482.2		46.73
5	76	56.60	1,128.1		48.21
6	150	1,257.06	12,663.6		55.58
7	178	1,833.39	15,618.4		58.13
8	253	1,025.44	6,146.4		65.01
9	10,380	75.00	10.9	Upper Marker	113.00

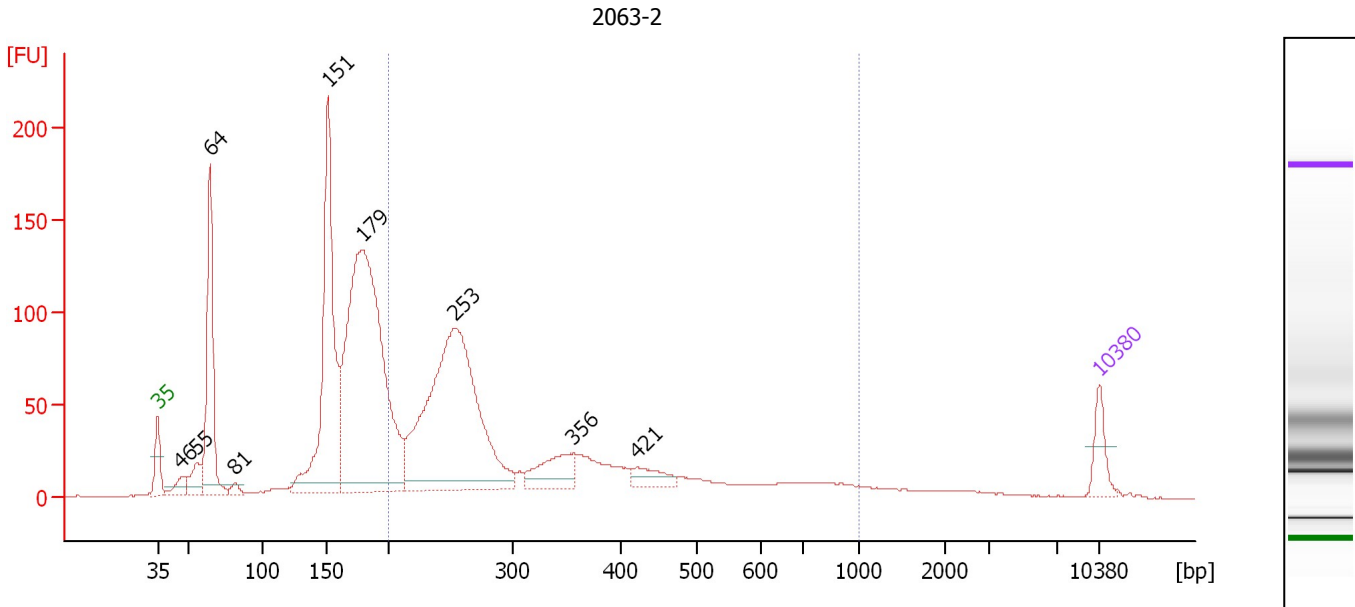
Region table for sample 9 : 2058-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	323	781.6	11,543.5	2,098.10	37	43.1

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Electropherogram Summary Continued ...



Overall Results for sample 10 : 2063-2

Number of peaks found: 9 Corr. Area 1: 1,153.1
 Noise: 0.2

Peak table for sample 10 : 2063-2

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	46	68.96	2,256.4		44.77
3	55	105.61	2,884.4		45.95
4	64	623.85	14,775.3		46.88
5	81	28.49	533.1		48.75
6	151	1,093.31	10,968.5		55.63
7	179	1,985.00	16,799.4		58.24
8	253	1,517.48	9,089.5		65.02
9	356	164.56	700.0		73.82
10	421	75.87	273.0		78.54
11	10,380	75.00	10.9	Upper Marker	113.00

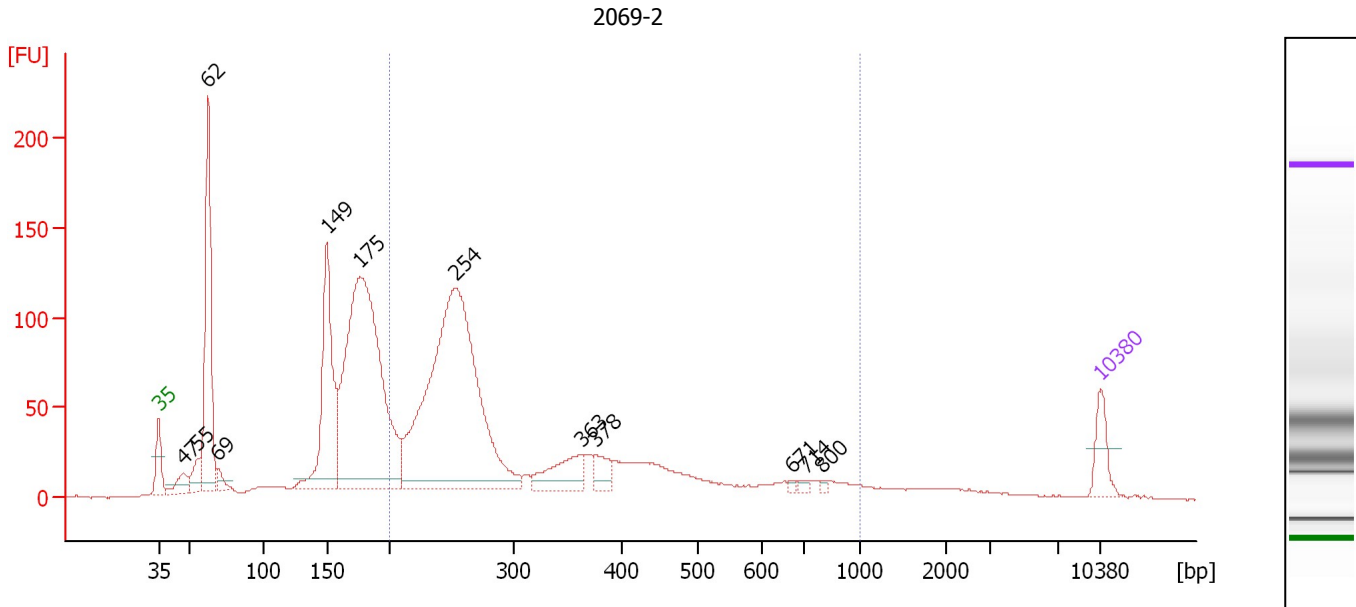
Region table for sample 10 : 2063-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	342	1,153.1	14,740.8	2,789.71	45	44.8

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Electropherogram Summary Continued ...



Overall Results for sample 11 : 2069-2

Number of peaks found: 12 Corr. Area 1: 1,312.4
 Noise: 0.2

Peak table for sample 11 : 2069-2

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	47	76.12	2,471.4		44.83
3	55	80.26	2,223.8		45.86
4	62	700.06	17,018.6		46.70
5	69	39.94	876.3		47.44
6	149	643.50	6,522.4		55.49
7	175	1,703.34	14,707.4		57.91
8	254	1,779.19	10,614.4		65.12
9	363	156.59	653.0		74.40
10	378	71.38	286.5		75.53
11	671	8.57	19.4		90.00
12	714	12.15	25.8		91.13
13	800	8.29	15.7		92.32
14	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 2069-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	340	1,312.4	16,132.9	3,040.44	49	45.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-08\2017-07-08_001.xad

Created: 7/8/2017 11:46:43 AM
Modified: 7/8/2017 12:28:01 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-08\2017-07-08_001.xad

Created: 7/8/2017 11:46:43 AM
Modified: 7/8/2017 12:28:01 PM

Curves

Standard Curve

