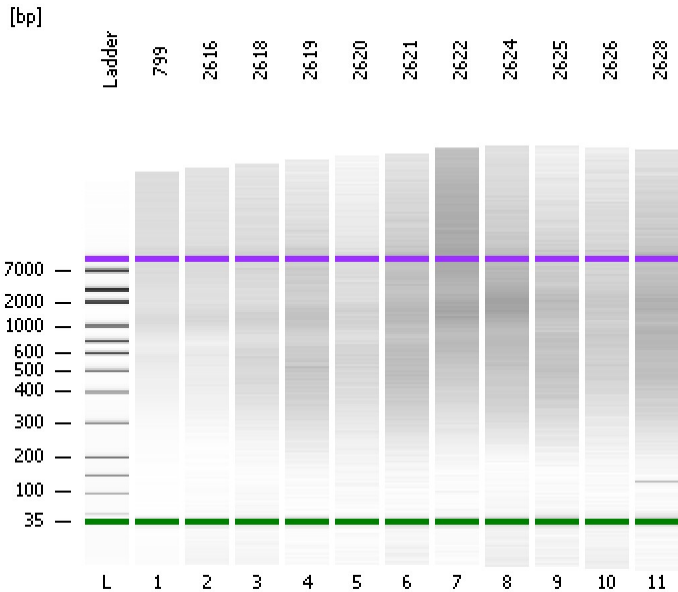


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

Created: 9/1/2016 8:00:06 AM  
Modified: 9/1/2016 8:41:28 AM

**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

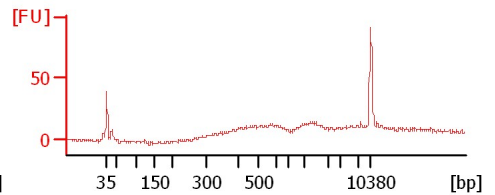
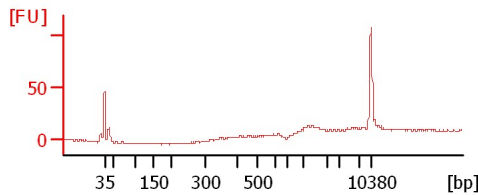
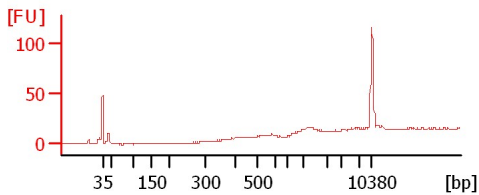
Chip Information:

Chip Lot #:  
Reagent Kit Lot #:  
Chip Comments:

799

2616

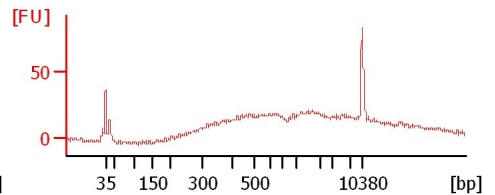
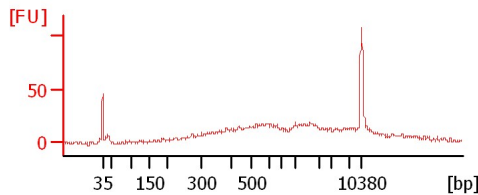
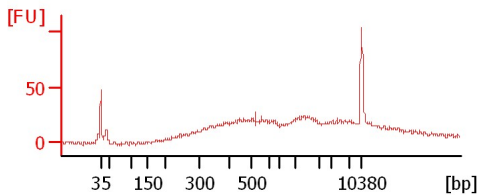
2618



2619

2620

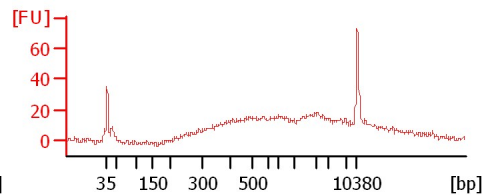
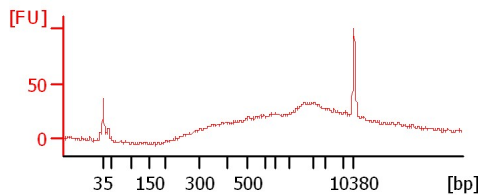
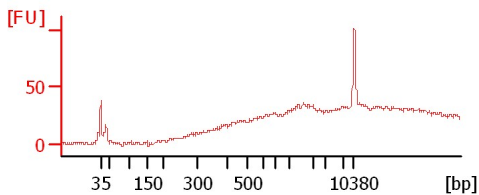
2621



2622

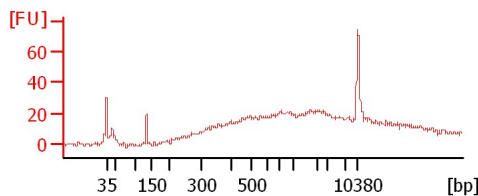
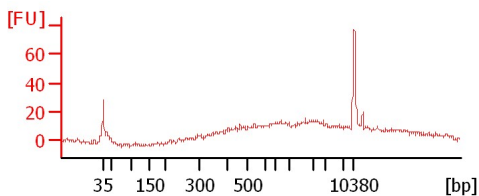
2624

2625



2626

2628



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

Created: 9/1/2016 8:00:06 AM  
Modified: 9/1/2016 8:41:28 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
799		<input type="checkbox"/>	✓			
2616		<input type="checkbox"/>	✓			
2618		<input type="checkbox"/>	✓			
2619		<input type="checkbox"/>	✓			
2620		<input type="checkbox"/>	✓			
2621		<input type="checkbox"/>	✓			
2622		<input type="checkbox"/>	✓			
2624		<input type="checkbox"/>	✓			
2625		<input type="checkbox"/>	✓			
2626		<input type="checkbox"/>	✓			
2628		<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\2016-09-01\2016-09-01\_001.xad

Created: 9/1/2016 8:00:06 AM  
Modified: 9/1/2016 8:41:28 AM

**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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

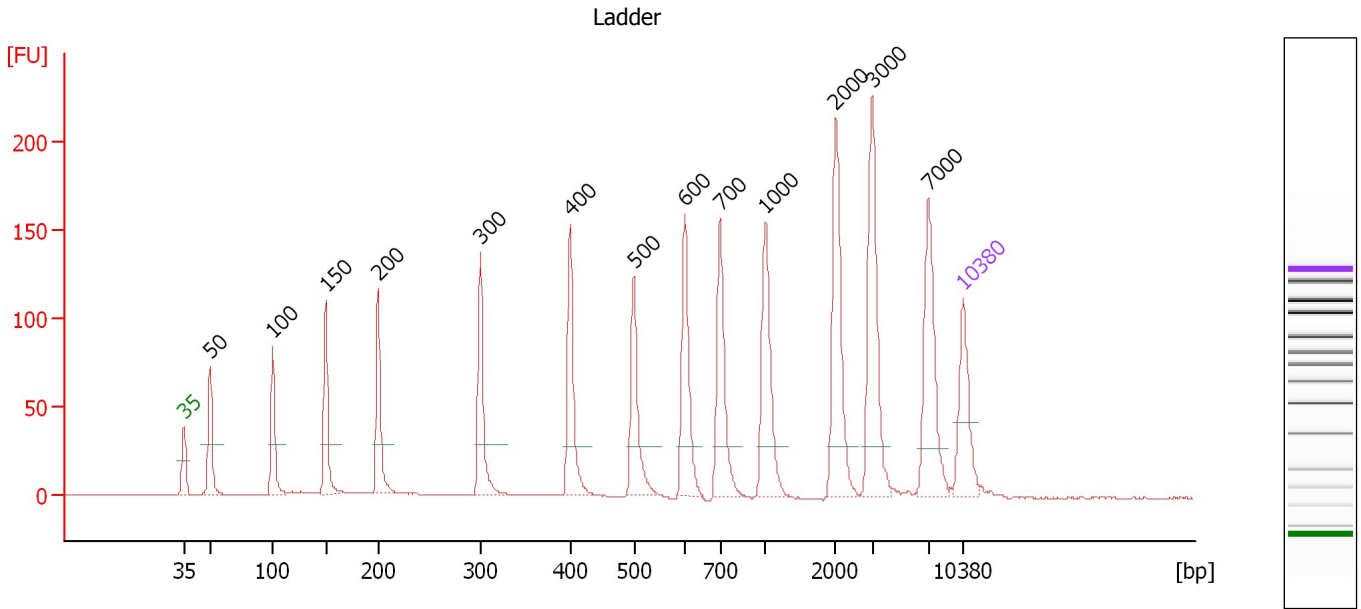
**Ladder**

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\2016-09-01\2016-09-01\_001.xad

Created: 9/1/2016 8:00:06 AM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

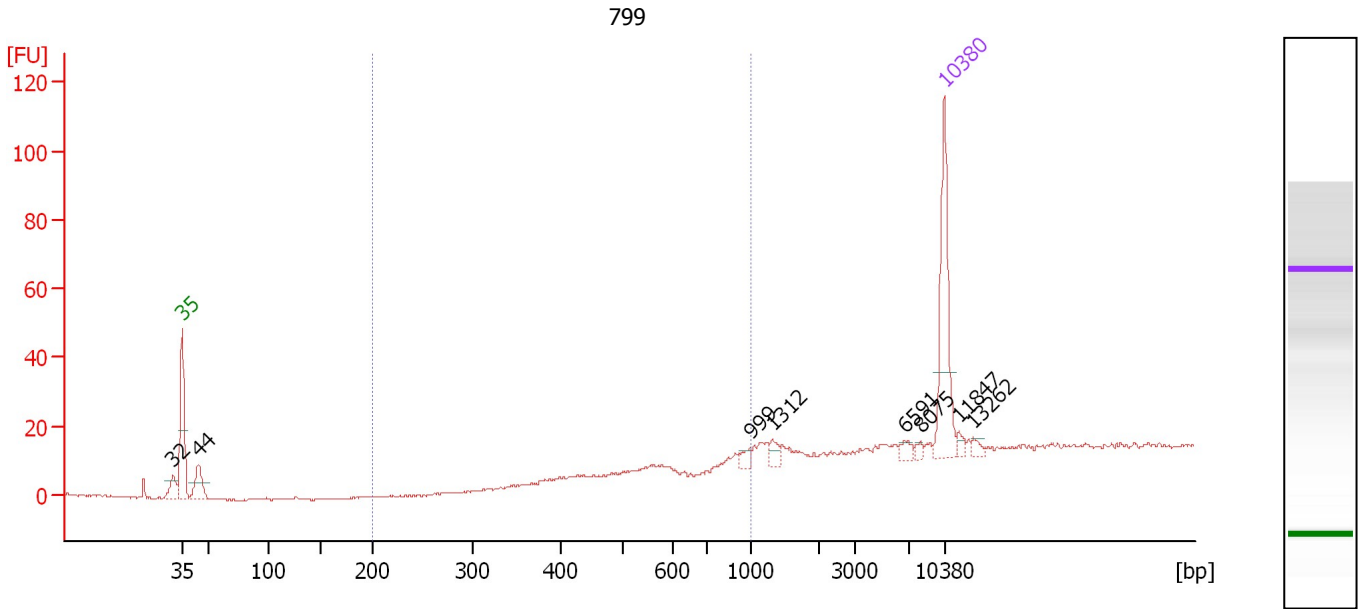
**Peak table for Ladder**

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	51.00
4	150	150.00	1,515.2	Ladder Peak	55.74
5	200	150.00	1,136.4	Ladder Peak	60.48
6	300	150.00	757.6	Ladder Peak	69.62
7	400	150.00	568.2	Ladder Peak	77.71
8	500	150.00	454.5	Ladder Peak	83.41
9	600	150.00	378.8	Ladder Peak	88.01
10	700	150.00	324.7	Ladder Peak	91.17
11	1,000	150.00	227.3	Ladder Peak	95.19
12	2,000	150.00	113.6	Ladder Peak	101.56
13	3,000	150.00	75.8	Ladder Peak	104.81
14	7,000	150.00	32.5	Ladder Peak	109.84
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

Created: 9/1/2016 8:00:06 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 799**

Number of peaks found: 8                      Corr. Area 1: 10.7  
 Noise: 0.2

**Peak table for sample 1 : 799**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.17
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	36.05	1,230.4		44.47
4	999	6.83	10.4		95.17
5	1,312	7.42	8.6		97.18
6	6,591	5.97	1.4		109.33
7	8,075	3.36	0.6		110.84
8	10,380	75.00	10.9	Upper Marker	113.00
9	11,847	0.00	0.0		114.37
10	13,262	0.00	0.0		115.69

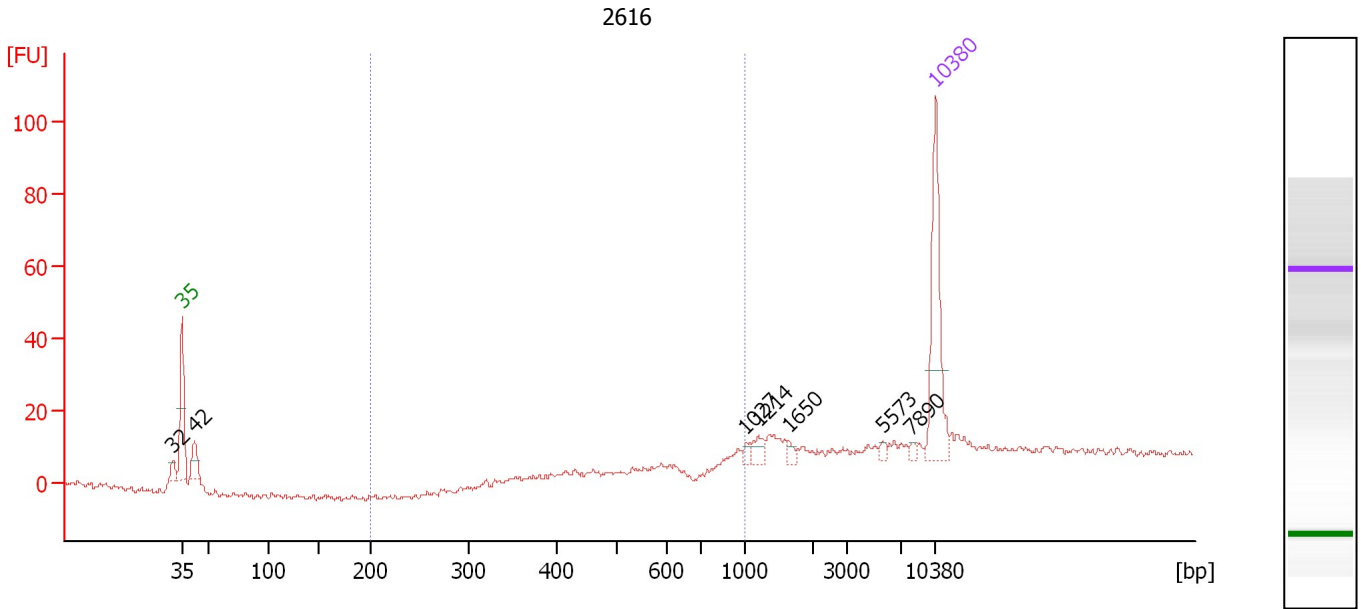
**Region table for sample 1 : 799**

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	842	10.7	24.2	12.72	9	18.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 2616**

Number of peaks found: 7                      Corr. Area 1: 8.7  
 Noise: 0.7

**Peak table for sample 2 : 2616**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.16
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	28.15	1,008.5		44.14
4	1,027	4.37	6.4		95.36
5	1,214	10.46	13.1		96.55
6	1,650	4.28	3.9		99.33
7	5,573	3.41	0.9		108.05
8	7,890	3.39	0.7		110.67
9	10,380	75.00	10.9	Upper Marker	113.00

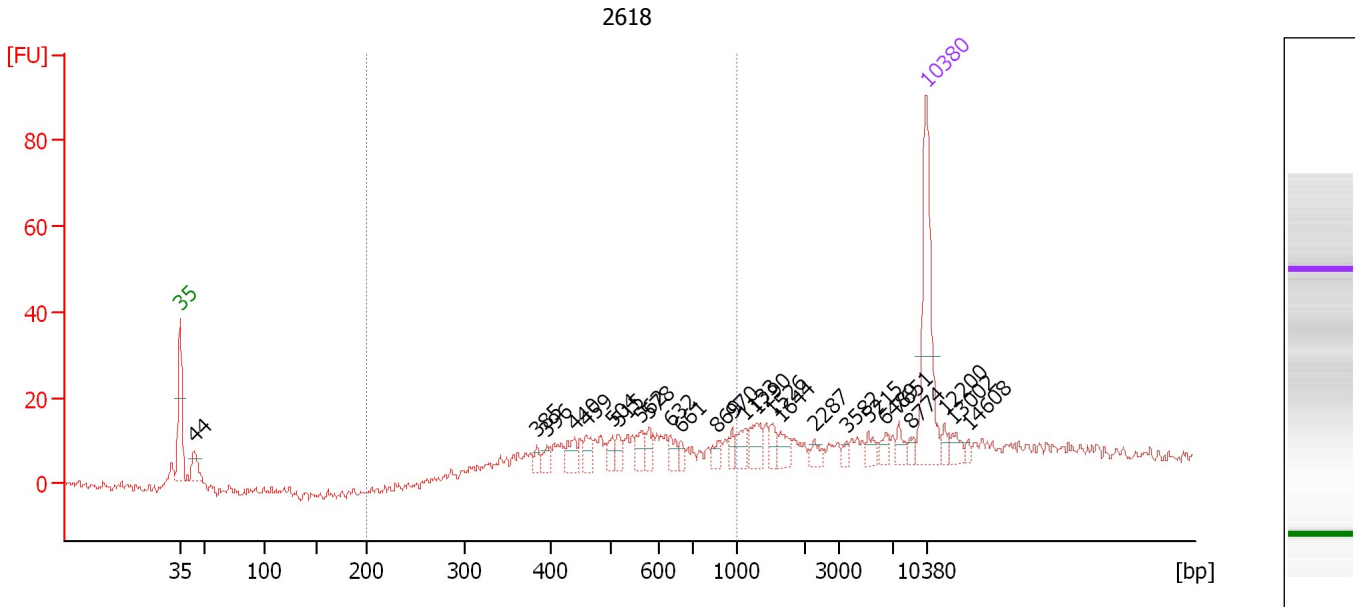
**Region table for sample 2 : 2616**

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	866	8.7	18.7	10.18	6	16.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 2618**

Number of peaks found: 26                      Corr. Area 1: 162.8  
 Noise: 1.2

**Peak table for sample 3 : 2618**

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	22.98	797.8		44.35
3	385	6.55	25.8		76.47
4	396	9.22	35.3		77.42
5	440	15.83	54.5		79.98
6	459	12.84	42.4		81.08
7	504	9.26	27.9		83.58
8	515	9.45	27.8		84.08
9	562	13.19	35.5		86.28
10	578	10.43	27.3		86.98
11	632	9.58	22.9		89.03
12	661	5.79	13.3		89.93
13	869	8.44	14.7		93.44
14	970	6.85	10.7		94.79
15	1,133	12.06	16.1		96.04
16	1,290	17.42	20.5		97.04
17	1,526	7.68	7.6		98.54
18	1,644	11.05	10.2		99.29
19	2,287	6.51	4.3		102.49
20	3,582	3.94	1.7		105.54
21	5,215	7.27	2.1		107.60
22	6,489	6.57	1.5		109.20
23	7,651	7.24	1.4		110.45
24	8,774	4.63	0.8		111.50
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

Created: 9/1/2016 8:00:06 AM  
Modified: 9/1/2016 8:41:28 AM

**Electropherogram Summary Continued ...****... Peak table for sample 3 : 2618**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	12,200	0.00	0.0		114.70
27	13,002	0.00	0.0		115.45
28	14,608	0.00	0.0		116.95

**Region table for sample 3 : 2618**

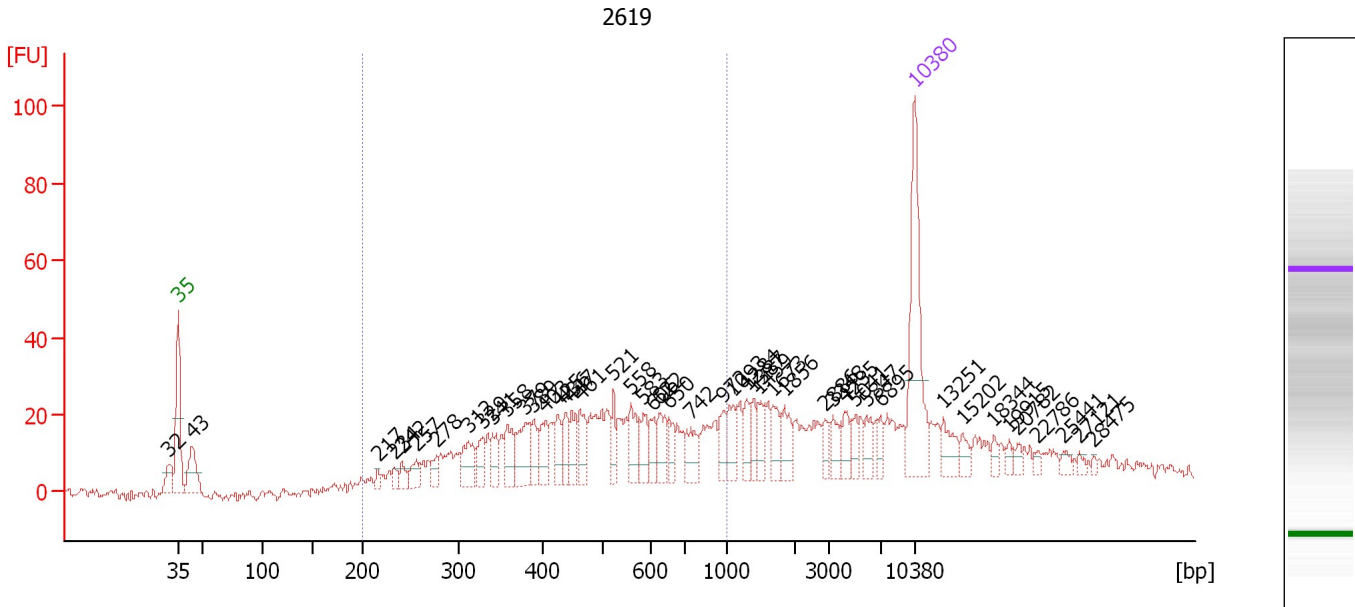
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
200	1,000	551	162.8	713.4	232.90	50	30.1



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 2619**

Number of peaks found: 47                      Corr. Area 1: 550.5  
 Noise: 1.4

**Peak table for sample 4 : 2619**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.14
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	43.08	1,503.4		44.32
4	217	5.68	39.7		61.99
5	234	6.96	45.1		63.56
6	242	9.65	60.6		64.27
7	257	13.66	80.6		65.69
8	278	9.61	52.5		67.57
9	312	27.20	132.0		70.60
10	329	17.82	82.1		71.97
11	341	17.63	78.3		72.93
12	358	24.85	105.2		74.30
13	379	34.51	137.9		76.02
14	389	15.79	61.6		76.78
15	403	22.39	84.1		77.90
16	425	17.57	62.7		79.11
17	436	16.89	58.7		79.77
18	447	16.96	57.5		80.38
19	461	23.23	76.3		81.19
20	521	16.47	47.9		84.38
21	558	24.28	66.0		86.05
22	583	17.88	46.5		87.22
23	606	13.04	32.6		88.18
24	622	18.76	45.7		88.69
25	650	12.30	28.7		89.60

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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 Modified: 9/1/2016 8:41:28 AM

**Electropherogram Summary Continued ...**

**... Peak table for sample 4 : 2619**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	742	21.40	43.7		91.73
27	972	13.50	21.0		94.82
28	1,093	17.32	24.0		95.78
29	1,284	12.64	14.9		96.99
30	1,387	12.60	13.8		97.65
31	1,459	13.24	13.8		98.11
32	1,673	15.11	13.7		99.48
33	1,856	15.52	12.7		100.64
34	2,886	8.76	4.6		104.44
35	3,348	11.64	5.3		105.25
36	4,235	11.20	4.0		106.36
37	5,041	10.22	3.1		107.38
38	5,847	11.15	2.9		108.39
39	6,895	8.11	1.8		109.71
40	10,380	75.00	10.9	Upper Marker	113.00
41	13,251	0.00	0.0		115.68
42	15,202	0.00	0.0		117.51
43	18,344	0.00	0.0		120.45
44	19,915	0.00	0.0		121.91
45	20,782	0.00	0.0		122.73
46	22,786	0.00	0.0		124.60
47	25,441	0.00	0.0		127.08
48	27,121	0.00	0.0		128.65
49	28,475	0.00	0.0		129.92

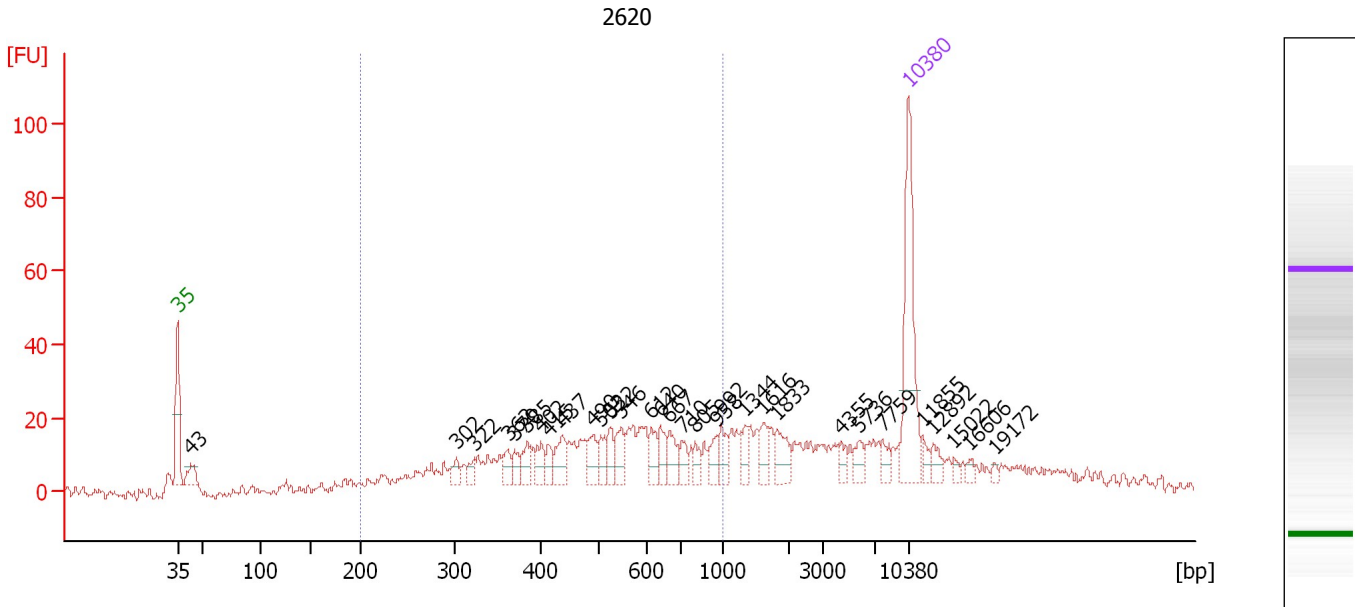
**Region table for sample 4 : 2619**

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	497	550.5	2,387.9	650.19	56	36.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 2620**

Number of peaks found: 31                      Corr. Area 1: 409.7  
 Noise: 1.6

**Peak table for sample 5 : 2620**

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	19.20	674.1		44.28
3	302	8.94	44.9		69.75
4	322	8.54	40.2		71.39
5	362	11.76	49.2		74.66
6	370	10.62	43.5		75.27
7	385	14.13	55.6		76.49
8	402	14.65	55.2		77.82
9	415	10.06	36.7		78.59
10	437	20.58	71.4		79.81
11	490	18.04	55.8		82.82
12	503	13.55	40.8		83.54
13	522	13.87	40.3		84.41
14	546	18.23	50.6		85.53
15	612	14.23	35.2		88.39
16	640	14.33	33.9		89.26
17	667	16.46	37.4		90.13
18	710	10.78	23.0		91.30
19	805	9.38	17.7		92.58
20	958	11.45	18.1		94.62
21	992	14.17	21.7		95.08
22	1,344	10.02	11.3		97.38
23	1,616	11.40	10.7		99.11
24	1,833	17.48	14.5		100.49
25	4,355	7.04	2.5		106.52

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 : 2620

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	5,736	8.96	2.4		108.25
27	7,759	8.03	1.6		110.55
28	10,380	75.00	10.9	Upper Marker	113.00
29	11,855	0.00	0.0		114.38
30	12,892	0.00	0.0		115.35
31	15,022	0.00	0.0		117.34
32	16,606	0.00	0.0		118.82
33	19,172	0.00	0.0		121.22

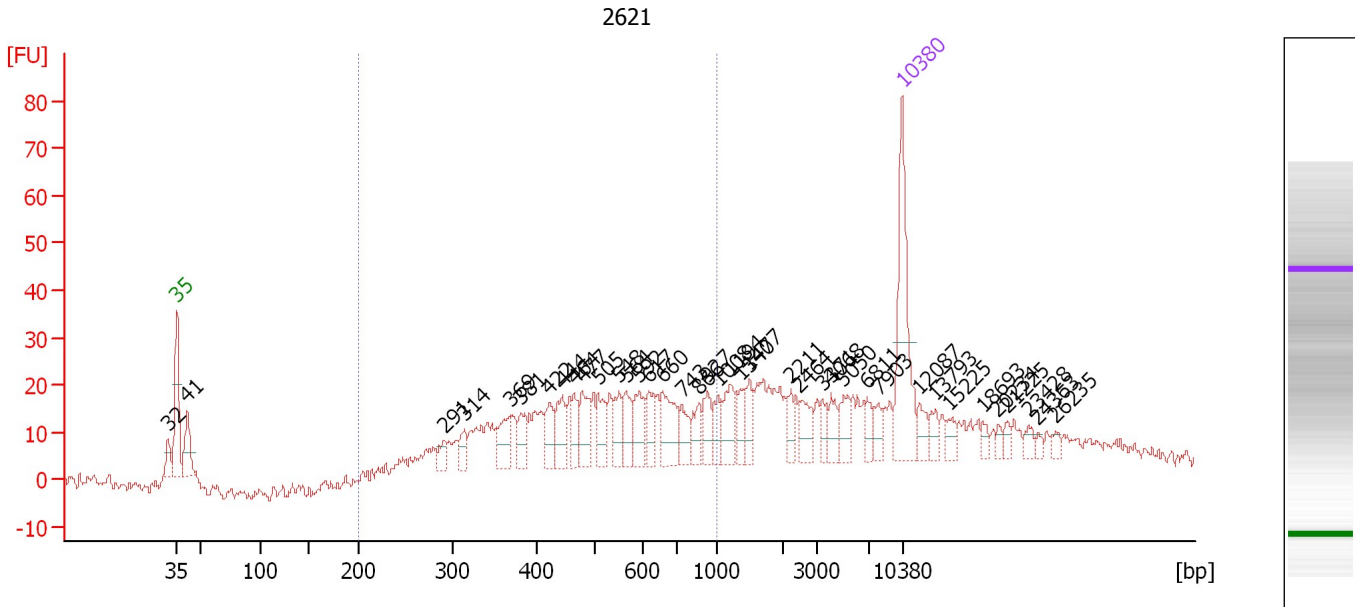
#### Region table for sample 5 : 2620

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
200	1,000	515	409.7	1,662.0	469.32	56	35.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 2621**

Number of peaks found: 39                      Corr. Area 1: 409.7  
 Noise: 1.6

**Peak table for sample 6 : 2621**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.12
2	35	125.00	5,411.3	Lower Marker	43.00
3	41	44.99	1,652.5		43.98
4	291	13.12	68.3		68.79
5	314	14.47	69.8		70.74
6	369	29.40	120.6		75.22
7	381	21.03	83.6		76.20
8	422	23.83	85.5		78.98
9	444	28.04	95.7		80.21
10	464	18.29	59.8		81.35
11	477	30.77	97.7		82.12
12	505	24.98	74.9		83.66
13	548	23.17	64.1		85.62
14	564	24.01	64.5		86.34
15	592	28.86	73.9		87.63
16	617	18.39	45.1		88.55
17	660	39.29	90.2		89.89
18	743	18.63	38.0		91.74
19	866	16.87	29.5		93.39
20	927	18.82	30.7		94.21
21	1,008	12.97	19.5		95.24
22	1,194	24.37	30.9		96.43
23	1,340	17.00	19.2		97.35
24	1,477	14.56	14.9		98.23
25	2,211	10.43	7.1		102.24

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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 Modified: 9/1/2016 8:41:28 AM

**Electropherogram Summary Continued ...**

**... Peak table for sample 6 : 2621**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,464	18.76	11.5		103.07
27	3,371	9.72	4.4		105.28
28	4,068	13.12	4.9		106.15
29	5,050	16.64	5.0		107.39
30	6,811	11.99	2.7		109.60
31	7,903	9.74	1.9		110.68
32	10,380	75.00	10.9	Upper Marker	113.00
33	12,087	0.00	0.0		114.60
34	13,793	0.00	0.0		116.19
35	15,225	0.00	0.0		117.53
36	18,693	0.00	0.0		120.77
37	20,234	0.00	0.0		122.21
38	21,225	0.00	0.0		123.14
39	23,428	0.00	0.0		125.20
40	24,363	0.00	0.0		126.07
41	26,235	0.00	0.0		127.82

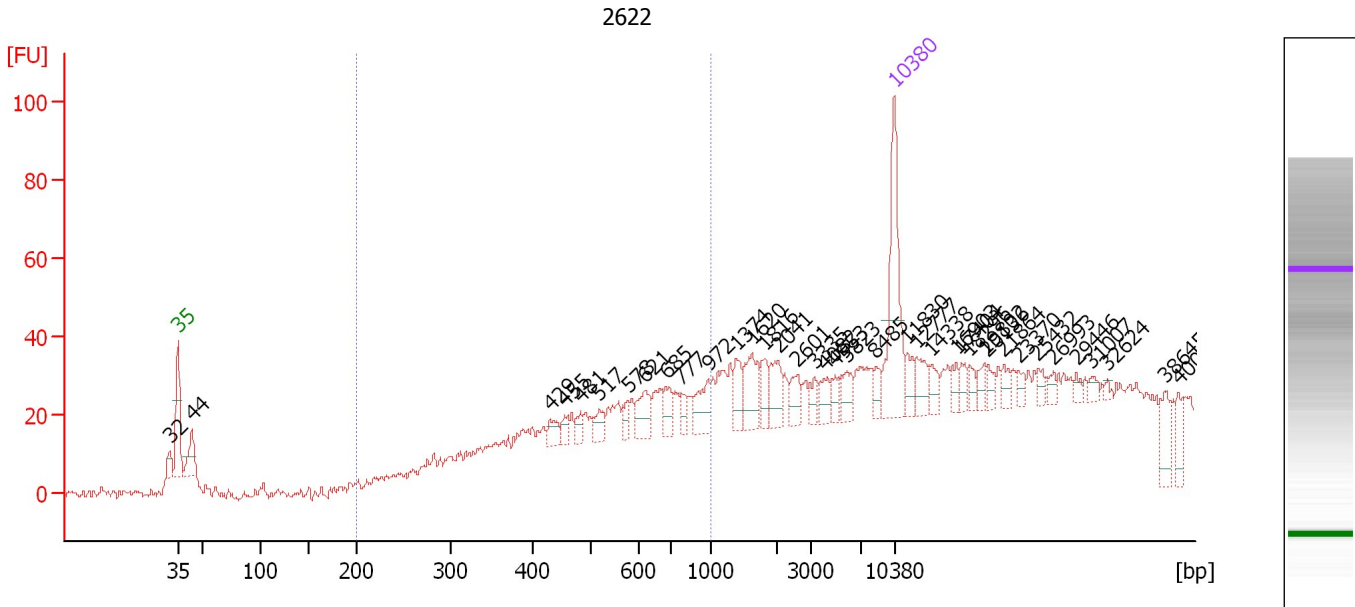
**Region table for sample 6 : 2621**

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	521	409.7	2,122.5	622.81	55	34.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 2622**

Number of peaks found: 38                      Corr. Area 1: 228.0  
 Noise: 0.8

**Peak table for sample 7 : 2622**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.17
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	36.37	1,262.0		44.36
4	429	12.58	44.4		79.38
5	455	9.58	31.9		80.84
6	481	9.40	29.6		82.35
7	517	14.06	41.2		84.18
8	578	9.34	24.5		86.99
9	621	24.35	59.5		88.66
10	685	16.30	36.1		90.69
11	777	9.61	18.7		92.20
12	972	23.35	36.4		94.81
13	1,374	18.42	20.3		97.57
14	1,620	30.48	28.5		99.14
15	1,816	14.97	12.5		100.39
16	2,041	20.81	15.4		101.69
17	2,601	14.90	8.7		103.51
18	3,335	9.37	4.3		105.23
19	4,082	12.80	4.8		106.17
20	4,953	8.08	2.5		107.27
21	5,823	13.53	3.5		108.36
22	8,485	9.30	1.7		111.23
23	10,380	75.00	10.9	Upper Marker	113.00
24	11,830	0.00	0.0		114.36
25	12,777	0.00	0.0		115.24

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad


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**Electropherogram Summary Continued ...**

**... Peak table for sample 7 : 2622**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	14,338	0.00	0.0		116.70
27	16,903	0.00	0.0		119.10
28	17,404	0.00	0.0		119.57
29	18,296	0.00	0.0		120.40
30	19,802	0.00	0.0		121.81
31	20,136	0.00	0.0		122.12
32	21,864	0.00	0.0		123.74
33	23,370	0.00	0.0		125.14
34	25,432	0.00	0.0		127.07
35	26,993	0.00	0.0		128.53
36	29,446	0.00	0.0		130.83
37	31,007	0.00	0.0		132.29
38	32,624	0.00	0.0		133.80
39	38,645	0.00	0.0		139.43
40	40,095	0.00	0.0		140.78

**Region table for sample 7 : 2622**

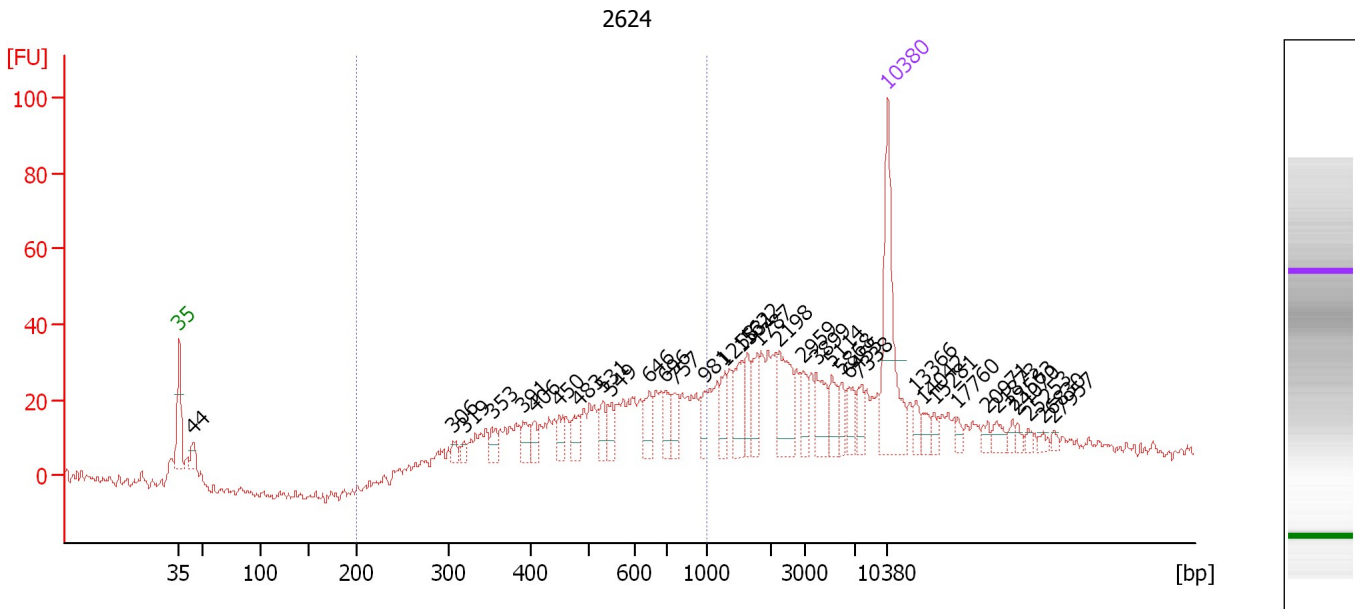
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	602	228.0	870.0	 308.45	34	28.8



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 2624**

Number of peaks found: 36                      Corr. Area 1: 384.4  
 Noise: 1.3

**Peak table for sample 8 : 2624**

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	15.12	519.6		44.42
3	306	8.01	39.6		70.13
4	319	6.63	31.4		71.18
5	353	11.72	50.3		73.92
6	391	14.38	55.8		76.97
7	406	10.09	37.6		78.08
8	450	13.77	46.4		80.55
9	483	16.31	51.2		82.45
10	531	15.32	43.7		84.82
11	549	14.84	40.9		85.66
12	646	18.08	42.4		89.46
13	696	18.07	39.3		91.04
14	757	16.02	32.1		91.93
15	981	12.21	18.9		94.93
16	1,258	16.57	20.0		96.83
17	1,531	25.25	25.0		98.57
18	1,622	16.51	15.4		99.15
19	1,787	17.33	14.7		100.20
20	2,198	38.65	26.6		102.20
21	2,959	14.43	7.4		104.68
22	3,899	23.30	9.1		105.94
23	5,114	15.18	4.5		107.47
24	5,868	10.40	2.7		108.42
25	6,455	13.61	3.2		109.16

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 8 : 2624**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	7,338	11.99	2.5		110.16
27	10,380	75.00	10.9	Upper Marker	113.00
28	13,366	0.00	0.0		115.79
29	14,042	0.00	0.0		116.42
30	15,281	0.00	0.0		117.58
31	17,760	0.00	0.0		119.90
32	20,971	0.00	0.0		122.90
33	21,873	0.00	0.0		123.74
34	23,563	0.00	0.0		125.33
35	24,070	0.00	0.0		125.80
36	25,253	0.00	0.0		126.91
37	26,830	0.00	0.0		128.38
38	27,957	0.00	0.0		129.43

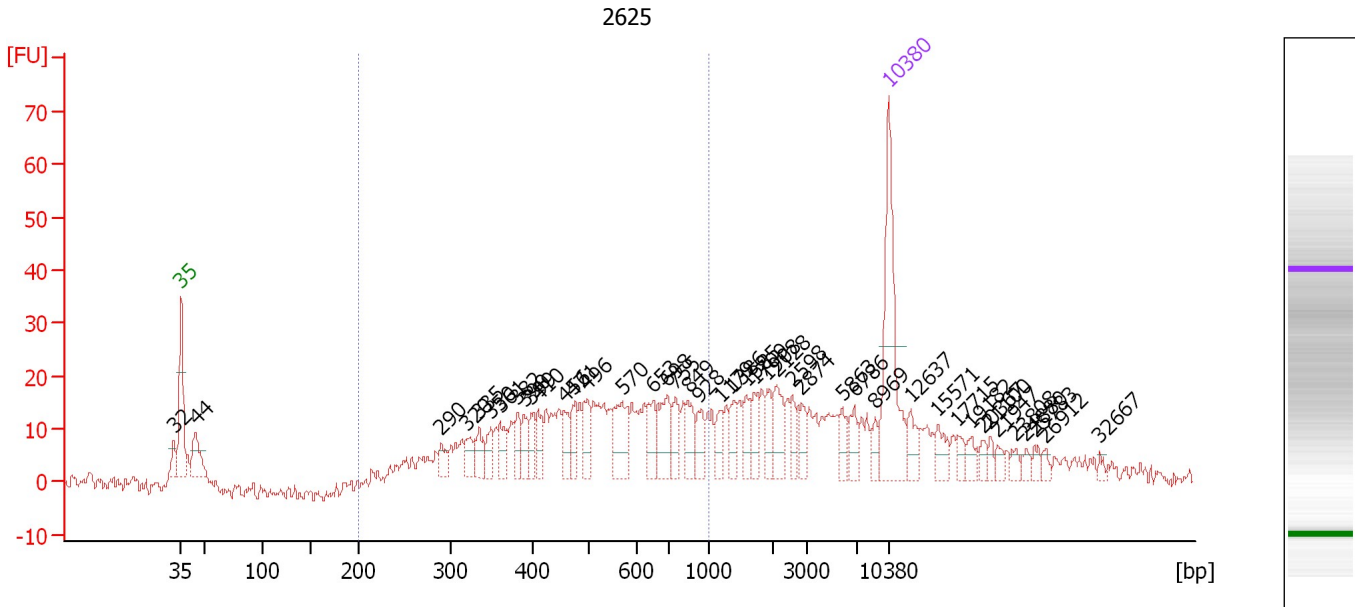
**Region table for sample 8 : 2624**

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	565	384.4	1,392.8	449.82	45	32.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 2625**

Number of peaks found: 43                      Corr. Area 1: 370.9  
 Noise: 1.3

**Peak table for sample 9 : 2625**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.26
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	35.09	1,205.6		44.42
4	290	12.71	66.3		68.74
5	320	14.40	68.1		71.27
6	335	18.03	81.4		72.49
7	350	13.78	59.7		73.65
8	361	18.25	76.6		74.54
9	382	16.24	64.4		76.29
10	390	14.77	57.4		76.92
11	399	14.97	56.8		77.66
12	410	16.09	59.4		78.29
13	456	17.43	57.9		80.93
14	471	17.49	56.2		81.77
15	496	19.71	60.2		83.20
16	570	37.02	98.4		86.62
17	653	19.03	44.1		89.68
18	698	32.25	70.0		91.11
19	755	16.73	33.6		91.90
20	849	18.85	33.6		93.17
21	928	15.35	25.1		94.22
22	1,179	12.80	16.4		96.33
23	1,386	11.65	12.7		97.65
24	1,585	13.78	13.2		98.92
25	1,709	12.09	10.7		99.71

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 9 : 2625**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,908	12.19	9.7		100.97
27	2,128	19.99	14.2		101.98
28	2,598	10.50	6.1		103.50
29	2,874	11.10	5.9		104.40
30	5,863	11.40	2.9		108.41
31	6,786	12.27	2.7		109.57
32	8,969	6.91	1.2		111.68
33	10,380	75.00	10.9	Upper Marker	113.00
34	12,637	0.00	0.0		115.11
35	15,571	0.00	0.0		117.85
36	17,715	0.00	0.0		119.86
37	19,182	0.00	0.0		121.23
38	20,367	0.00	0.0		122.34
39	21,100	0.00	0.0		123.02
40	21,947	0.00	0.0		123.81
41	23,808	0.00	0.0		125.55
42	24,880	0.00	0.0		126.56
43	25,783	0.00	0.0		127.40
44	26,912	0.00	0.0		128.46
45	32,667	0.00	0.0		133.84

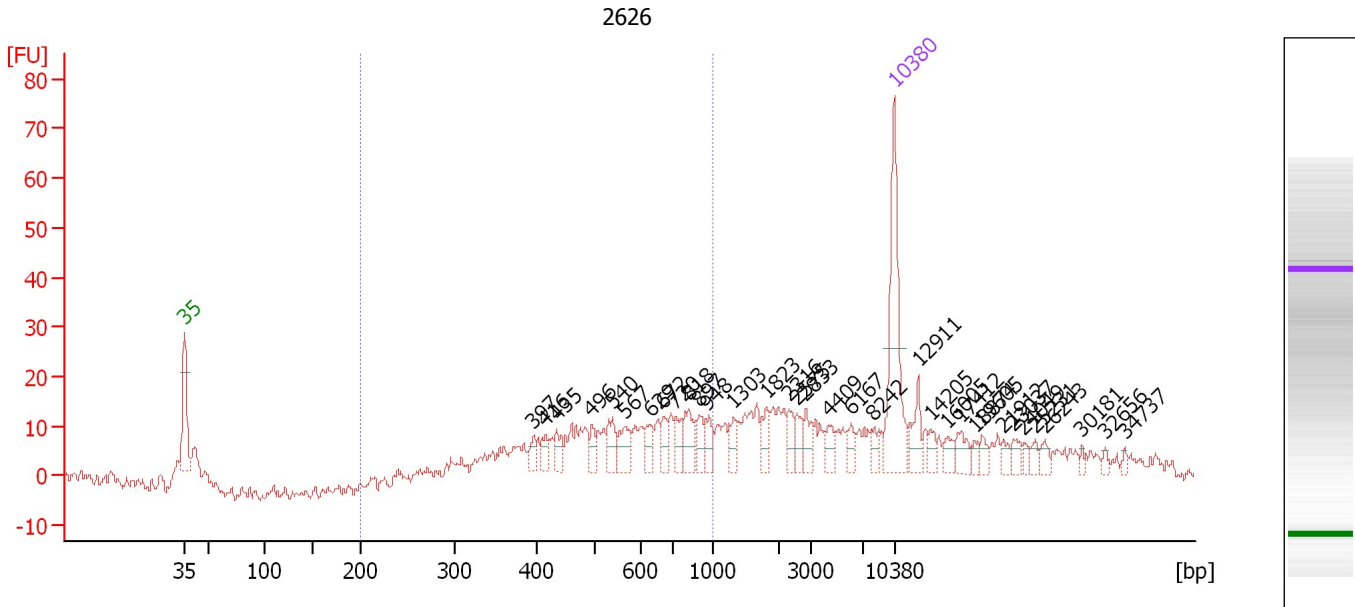
**Region table for sample 9 : 2625**

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	529	370.9	1,852.2	549.97	54	34.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 2626**

Number of peaks found: 34                      Corr. Area 1: 213.9  
 Noise: 1.3

**Peak table for sample 10 : 2626**

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	397	9.67	36.9		77.45
3	416	10.09	36.8		78.60
4	435	13.27	46.2		79.71
5	496	10.64	32.5		83.18
6	540	17.49	49.1		85.23
7	567	19.70	52.6		86.49
8	629	13.57	32.7		88.91
9	672	12.12	27.3		90.28
10	720	12.02	25.3		91.44
11	818	22.90	42.4		92.75
12	897	13.46	22.7		93.80
13	948	11.45	18.3		94.49
14	1,303	10.75	12.5		97.12
15	1,823	12.04	10.0		100.43
16	2,316	11.04	7.2		102.59
17	2,575	10.30	6.1		103.43
18	2,833	11.60	6.2		104.27
19	4,409	9.03	3.1		106.58
20	6,167	8.75	2.1		108.79
21	8,242	6.25	1.1		111.00
22	10,380	75.00	10.9	Upper Marker	113.00
23	12,911	0.00	0.0		115.37
24	14,205	0.00	0.0		116.58
25	16,005	0.00	0.0		118.26

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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 Modified: 9/1/2016 8:41:28 AM

**Electropherogram Summary Continued ...**

**... Peak table for sample 10 : 2626**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	17,412	0.00	0.0		119.57
27	18,874	0.00	0.0		120.94
28	19,605	0.00	0.0		121.63
29	21,912	0.00	0.0		123.78
30	23,037	0.00	0.0		124.83
31	24,049	0.00	0.0		125.78
32	25,231	0.00	0.0		126.88
33	26,243	0.00	0.0		127.83
34	30,181	0.00	0.0		131.51
35	32,656	0.00	0.0		133.83
36	34,737	0.00	0.0		135.77

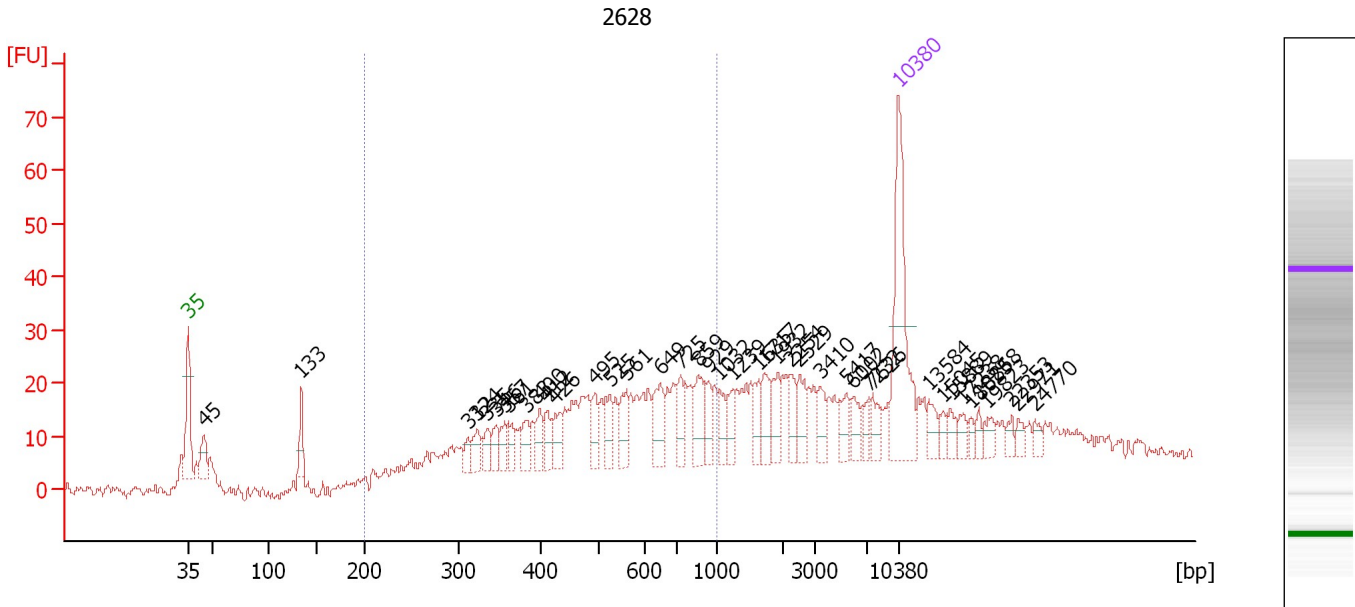
**Region table for sample 10 : 2626**

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	581	213.9	999.3	337.57	44	30.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

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 Modified: 9/1/2016 8:41:28 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 2628**

Number of peaks found: 41                      Corr. Area 1: 428.6  
 Noise: 1.0

**Peak table for sample 11 : 2628**

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	45	23.98	812.1		44.52
3	133	20.53	233.6		54.14
4	312	9.20	44.7		70.59
5	324	14.19	66.4		71.54
6	335	12.17	55.0		72.48
7	346	11.61	50.9		73.32
8	357	12.65	53.7		74.22
9	361	11.85	49.7		74.58
10	383	15.88	62.9		76.32
11	400	14.06	53.3		77.68
12	412	13.07	48.0		78.42
13	426	16.57	58.9		79.21
14	495	14.82	45.4		83.10
15	525	18.15	52.3		84.57
16	561	19.90	53.8		86.20
17	649	24.73	57.7		89.56
18	725	16.40	34.3		91.51
19	859	22.84	40.3		93.29
20	929	13.05	21.3		94.24
21	1,032	12.50	18.4		95.39
22	1,239	12.26	15.0		96.71
23	1,635	11.10	10.3		99.23
24	1,717	15.29	13.5		99.76
25	1,932	15.23	11.9		101.12

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

Created: 9/1/2016 8:00:06 AM  
 Modified: 9/1/2016 8:41:28 AM

**Electropherogram Summary Continued ...**

**... Peak table for sample 11 : 2628**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,254	12.52	8.4		102.38
27	2,529	15.72	9.4		103.28
28	3,410	12.86	5.7		105.33
29	5,417	12.59	3.5		107.85
30	6,002	10.82	2.7		108.59
31	7,232	7.65	1.6		110.06
32	7,626	11.74	2.3		110.42
33	10,380	75.00	10.9	Upper Marker	113.00
34	13,584	0.00	0.0		116.00
35	15,045	0.00	0.0		117.36
36	15,889	0.00	0.0		118.15
37	17,238	0.00	0.0		119.41
38	18,025	0.00	0.0		120.15
39	18,868	0.00	0.0		120.94
40	19,823	0.00	0.0		121.83
41	22,353	0.00	0.0		124.19
42	22,971	0.00	0.0		124.77
43	24,770	0.00	0.0		126.45

**Region table for sample 11 : 2628**

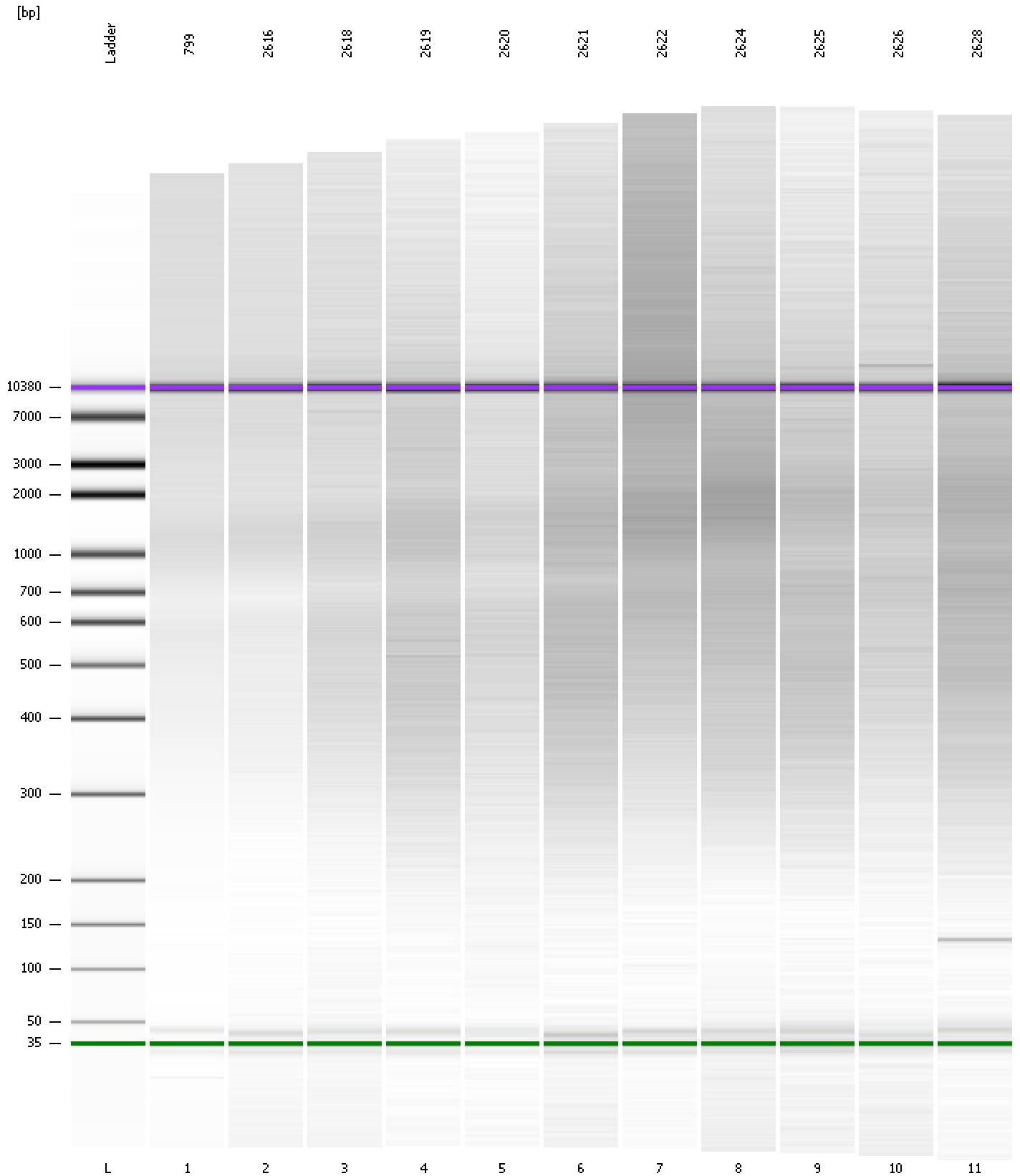
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	533	428.6	2,066.5	600.92	51	35.8



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad

Created: 9/1/2016 8:00:06 AM  
Modified: 9/1/2016 8:41:28 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay Created: 9/1/2016 8:00:06 AM  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-01\2016-09-01\_001.xad Modified: 9/1/2016 8:41:28 AM

**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		9/1/2016 8:41:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-09-01\2016-09-01_001.xad)		Instrument	Run		9/1/2016 8:00:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/1/2016 8:00:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/1/2016 8:00:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/1/2016 8:00:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/1/2016 8:00:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/1/2016 8:00:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/1/2016 8:00:11 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1