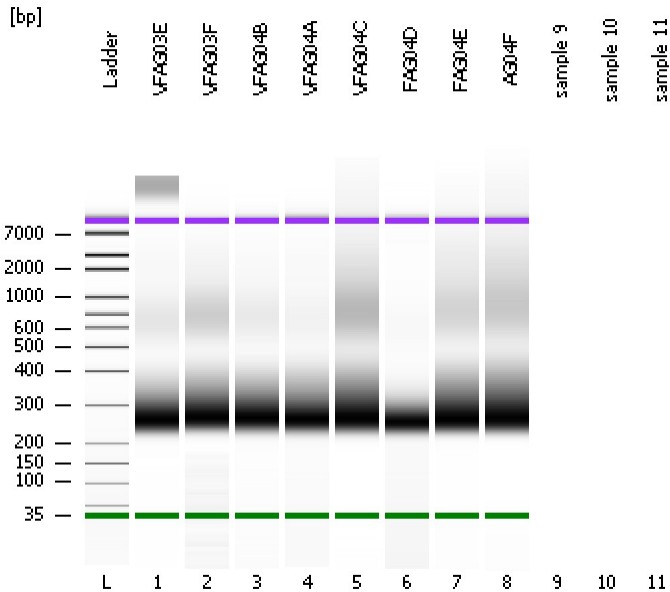


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
Modified: 12/11/2013 11:37:36 AM

Electrophoresis File Run Summary



Instrument Information:

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

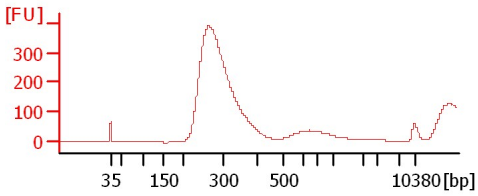
Assay Information:

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

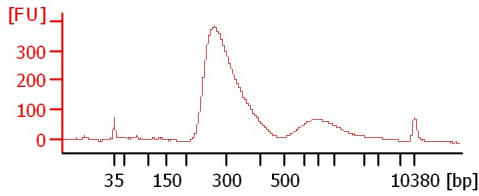
Chip Information:

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

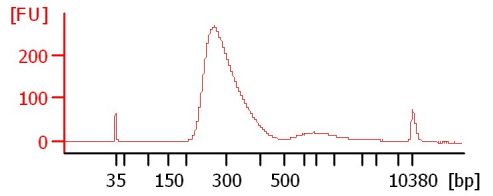
VFAG03E



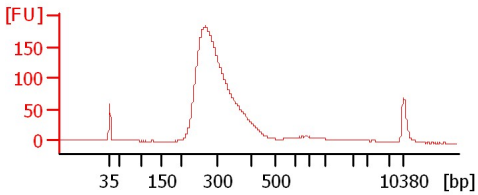
VFAG03F



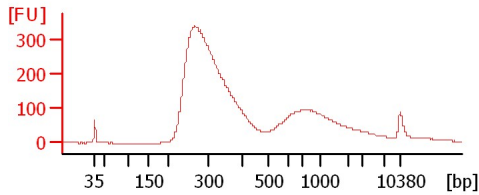
VFAG04B



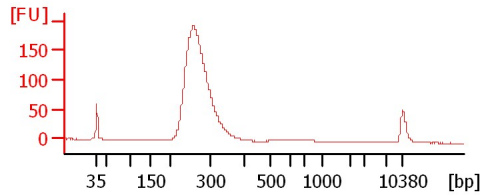
VFAG04A



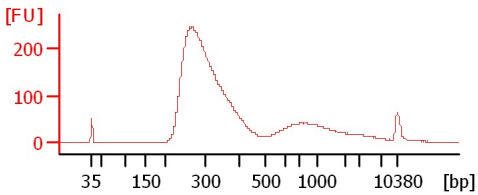
VFAG04C



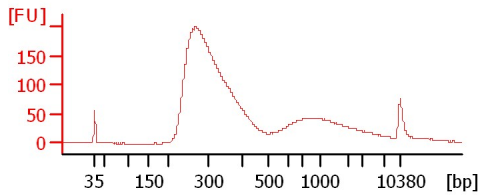
FAG04D



FAG04E



AG04F



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
Modified: 12/11/2013 11:37:36 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
VFAG03E		<input type="checkbox"/>	✓			
VFAG03F		<input type="checkbox"/>	✓			
VFAG04B		<input type="checkbox"/>	✓			
VFAG04A		<input type="checkbox"/>	✓			
VFAG04C		<input type="checkbox"/>	✓			
FAG04D		<input type="checkbox"/>	✓			
FAG04E		<input type="checkbox"/>	✓			
AG04F		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
Modified: 12/11/2013 11:37:36 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/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

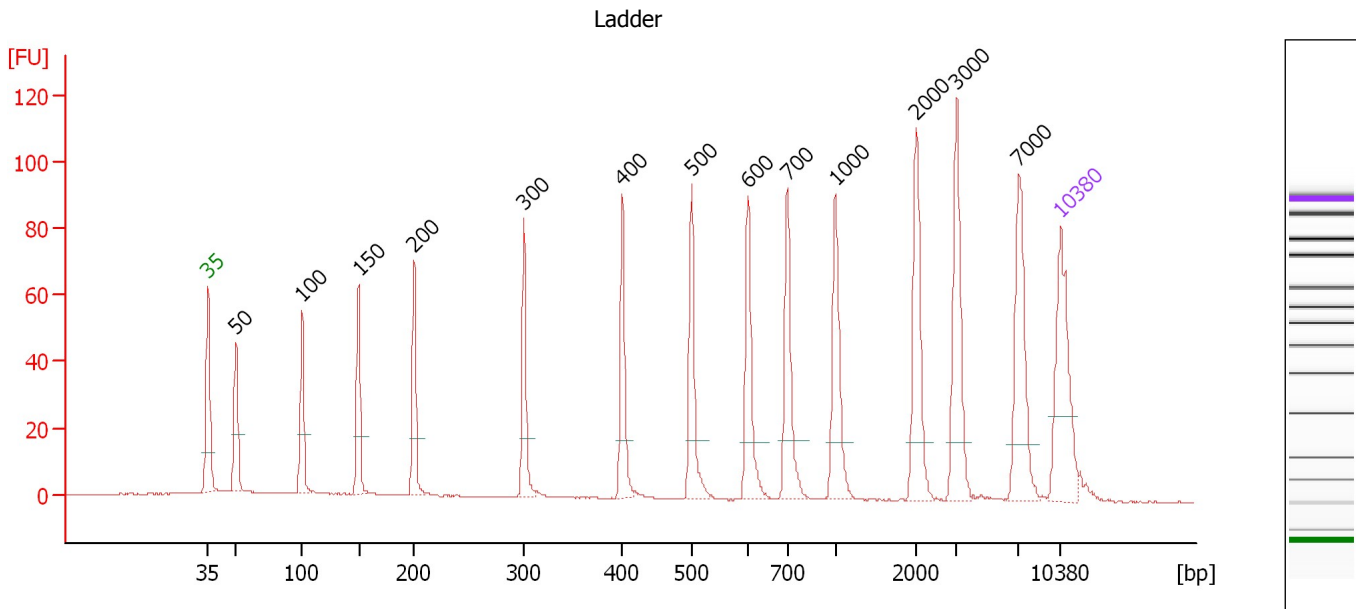
Ladder

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:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
 Modified: 12/11/2013 11:37:36 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

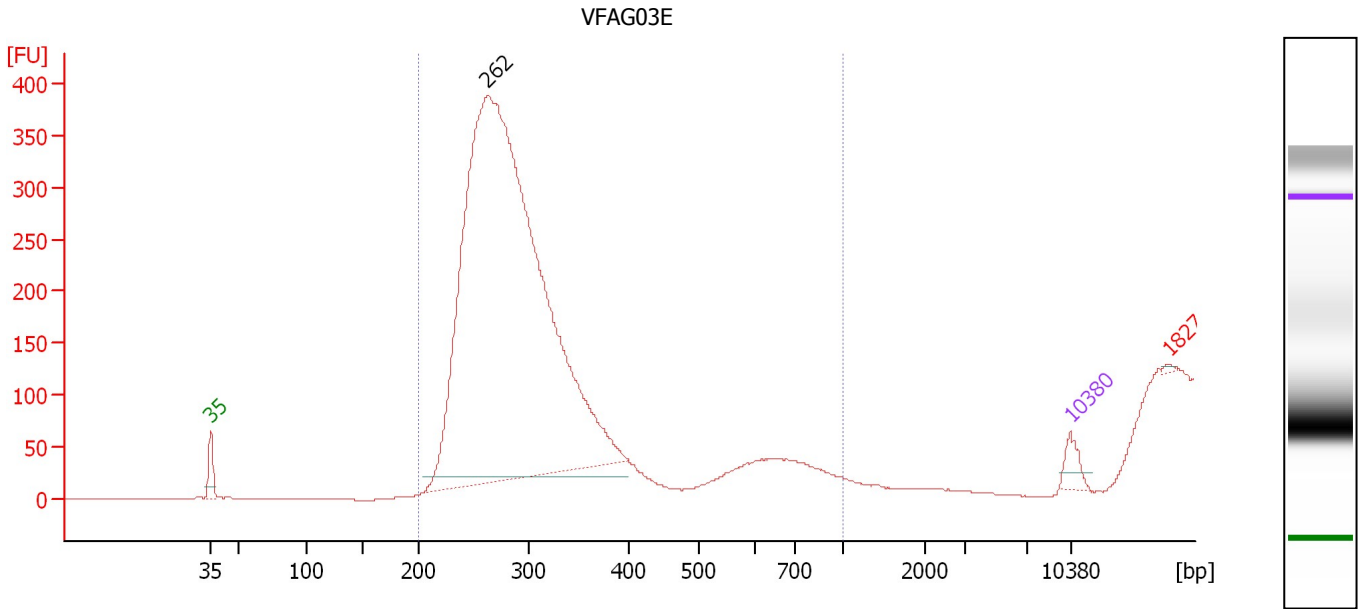
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.28	50	150.00	4,545.5	Ladder Peak
3	50.70	100	150.00	2,272.7	Ladder Peak
4	55.35	150	150.00	1,515.2	Ladder Peak
5	59.90	200	150.00	1,136.4	Ladder Peak
6	68.92	300	150.00	757.6	Ladder Peak
7	77.02	400	150.00	568.2	Ladder Peak
8	82.66	500	150.00	454.5	Ladder Peak
9	87.30	600	150.00	378.8	Ladder Peak
10	90.54	700	150.00	324.7	Ladder Peak
11	94.48	1,000	150.00	227.3	Ladder Peak
12	101.14	2,000	150.00	113.6	Ladder Peak
13	104.46	3,000	150.00	75.8	Ladder Peak
14	109.54	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
 Modified: 12/11/2013 11:37:36 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : VFAG03E

Number of peaks found: 1 Corr. Area 1: 3,676.2
 Noise: 0.1

Peak table for sample 1 : VFAG03E

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	65.49	262	8,420.57	48,687.0	
3	113.00	10,380	75.00	10.9	Upper Marker
4	121.08	18,274	0.00	0.0	excluded peak

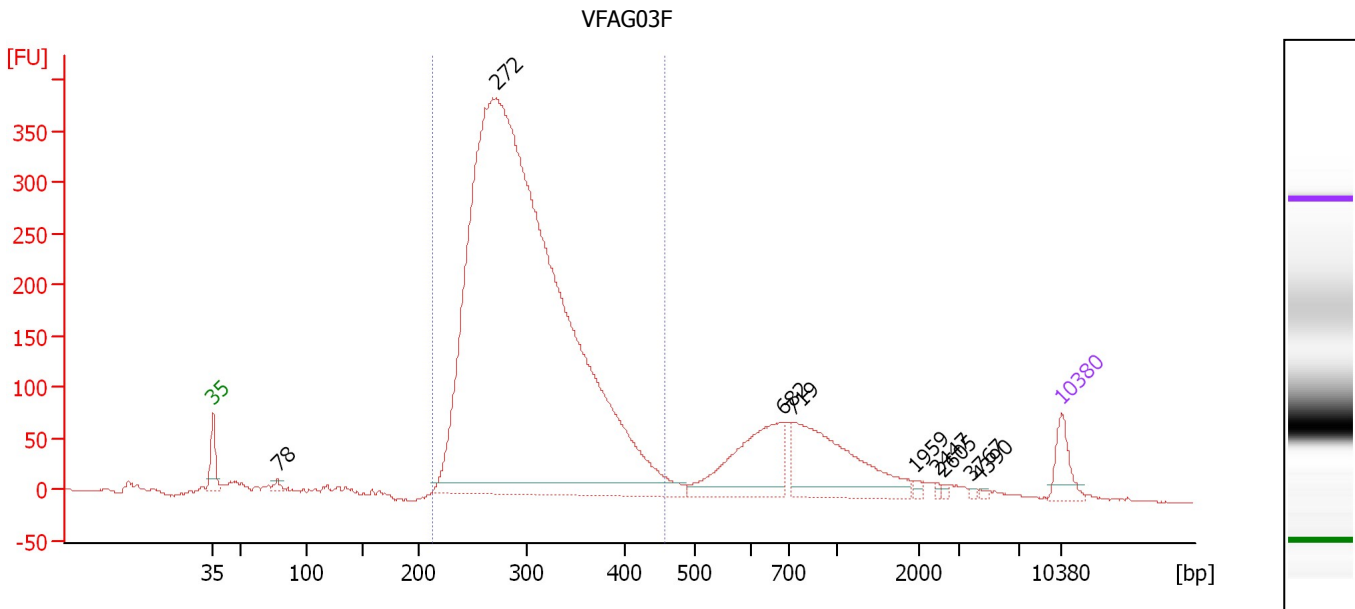
Region table for sample 1 : VFAG03E

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	280	37,631.0	6,863.55	3,676.2	100	11.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
 Modified: 12/11/2013 11:37:36 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : VFAG03F

Height Threshold [FU] : 10

Overall Results for sample 2 : VFAG03F

Number of peaks found: 9 Corr. Area 1: 5,216.0
 Noise: 0.4

Peak table for sample 2 : VFAG03F

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	48.32	78	23.22	450.8	
3	66.35	272	6,574.06	36,684.7	
4	89.96	682	389.96	866.3	
5	90.80	719	498.04	1,049.1	
6	100.86	1,959	12.68	9.8	
7	102.62	2,447	6.69	4.1	
8	103.15	2,605	7.09	4.1	
9	105.44	3,767	6.06	2.4	
10	106.23	4,390	5.45	1.9	
11	113.00	10,380	75.00	10.9	Upper Marker

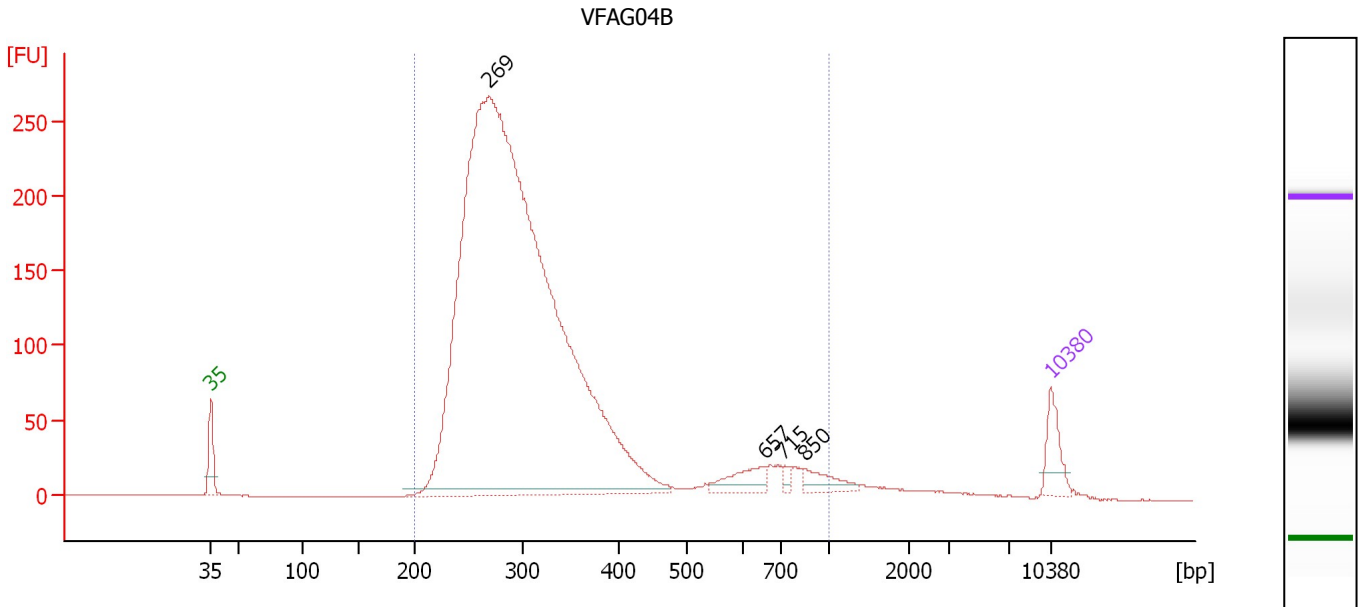
Region table for sample 2 : VFAG03F

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
213	457	301	31,974.5	6,173.92	5,216.0	80	15.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
 Modified: 12/11/2013 11:37:36 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : VFAG04B

Number of peaks found: 4 Corr. Area 1: 3,812.8
 Noise: 0.3

Peak table for sample 3 : VFAG04B

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	66.16	269	5,687.68	31,989.9	
3	89.13	657	88.73	204.8	
4	90.73	715	19.61	41.6	
5	92.51	850	61.17	109.0	
6	113.00	10,380	75.00	10.9	Upper Marker

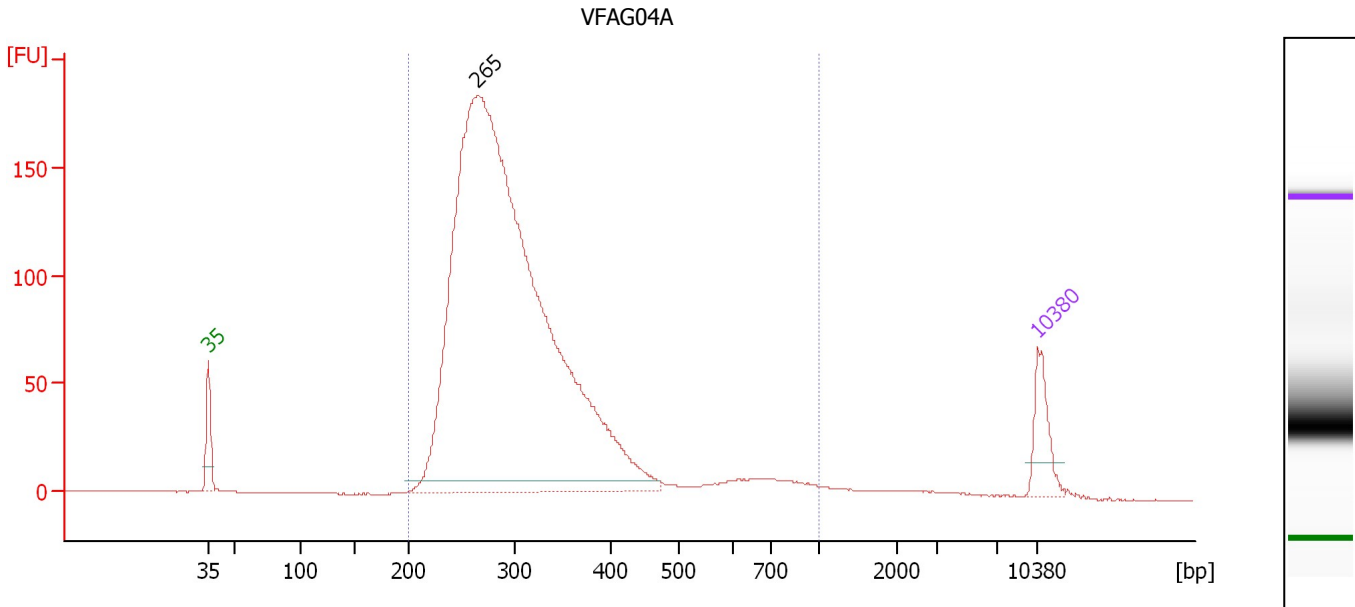
Region table for sample 3 : VFAG04B

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	329	28,991.3	5,707.80	3,812.8	97	36.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
 Modified: 12/11/2013 11:37:36 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : VFAG04A

Number of peaks found: 1 Corr. Area 1: 2,529.1
 Noise: 0.1

Peak table for sample 4 : VFAG04A

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	65.72	265	3,638.68	20,840.4	
3	113.00	10,380	75.00	10.9	Upper Marker

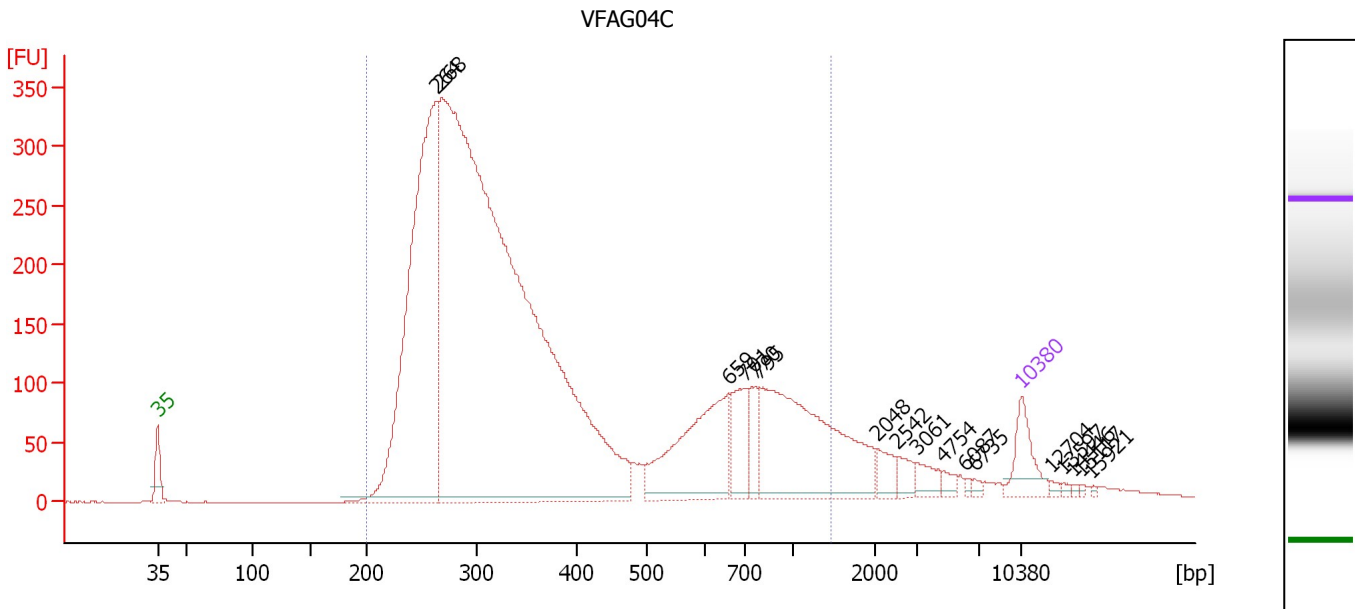
Region table for sample 4 : VFAG04A

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	316	18,477.1	3,575.10	2,529.1	98	31.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
 Modified: 12/11/2013 11:37:36 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : VFAG04C

Number of peaks found: 17 Corr. Area 1: 6,442.4
 Noise: 0.2

Peak table for sample 5 : VFAG04C

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	65.63	264	1,412.18	8,117.5	
3	66.00	268	4,179.81	23,662.4	
4	89.22	659	366.25	841.7	
5	90.55	701	124.41	269.0	
6	91.47	770	76.40	150.3	
7	91.79	795	562.64	1,072.8	
8	101.30	2,048	40.22	29.8	
9	102.94	2,542	29.13	17.4	
10	104.54	3,061	34.03	16.8	
11	106.69	4,754	16.05	5.1	
12	108.38	6,087	5.66	1.4	
13	109.21	6,735	7.54	1.7	
14	113.00	10,380	75.00	10.9	Upper Marker
15	115.38	12,704	0.00	0.0	
16	116.29	13,597	0.00	0.0	
17	117.16	14,446	0.00	0.0	
18	117.85	15,117	0.00	0.0	
19	118.67	15,921	0.00	0.0	

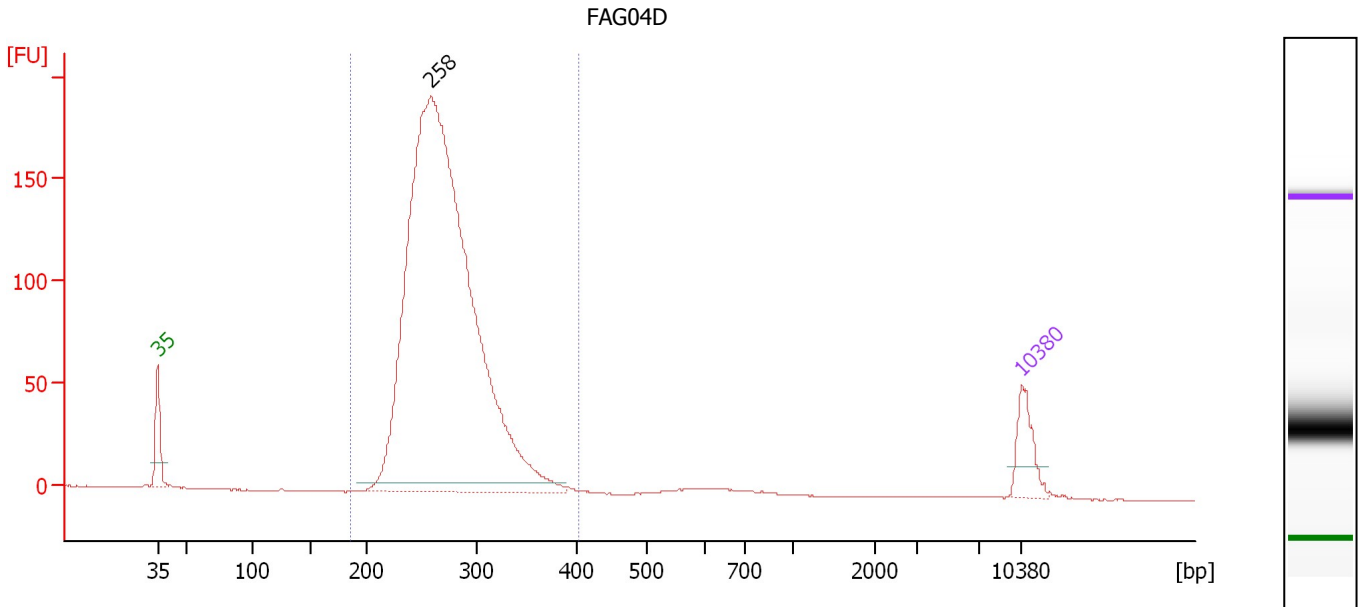
Region table for sample 5 : VFAG04C

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,468	426	28,144.8	6,062.53	6,442.4	93	58.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
 Modified: 12/11/2013 11:37:36 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : FAG04D

Number of peaks found: 1 Corr. Area 1: 1,790.0
 Noise: 0.2

Peak table for sample 6 : FAG04D

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	65.11	258	3,177.31	18,676.1	
3	113.00	10,380	75.00	10.9	Upper Marker

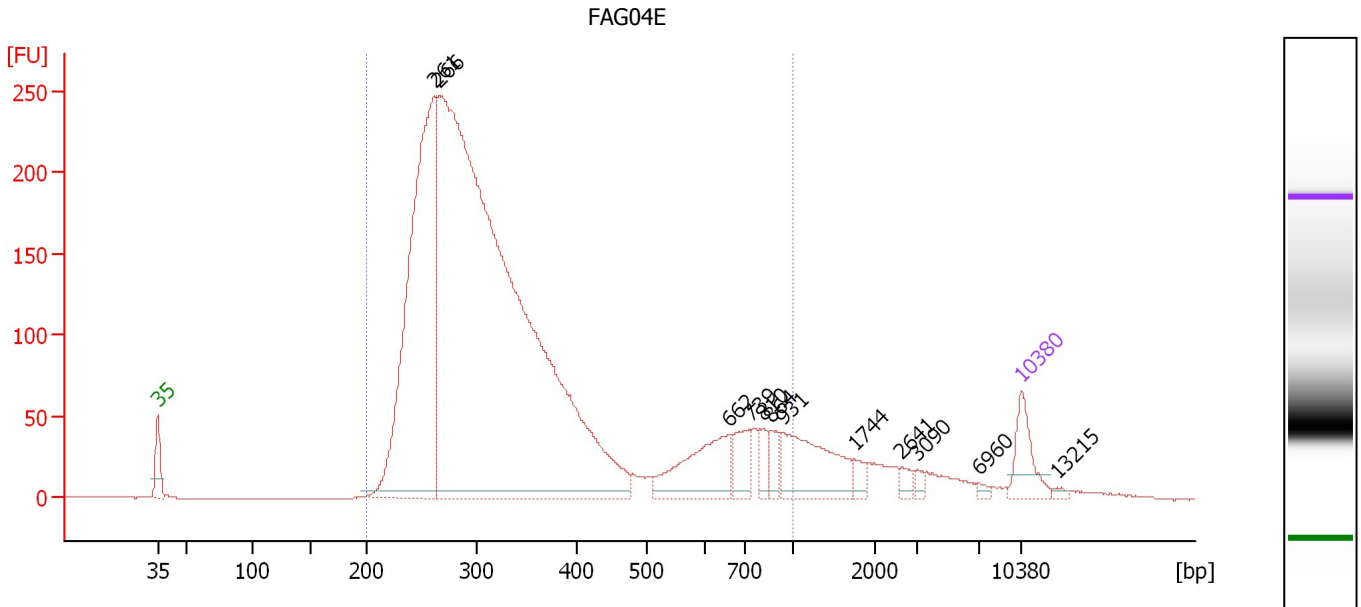
Region table for sample 6 : FAG04D

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
187	401	271	17,208.1	3,052.32	1,790.0	98	11.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
 Modified: 12/11/2013 11:37:36 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : FAG04E

Number of peaks found: 12 Corr. Area 1: 4,038.7
 Noise: 0.1

Peak table for sample 7 : FAG04E

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	65.41	261	1,358.63	7,882.4	
3	65.83	266	3,850.98	21,949.8	
4	89.32	662	211.56	483.9	
5	91.05	739	78.36	160.7	
6	91.99	810	34.97	65.4	
7	92.69	864	39.77	69.8	
8	93.58	931	208.49	339.1	
9	99.43	1,744	22.05	19.2	
10	103.27	2,641	17.22	9.9	
11	104.58	3,090	11.76	5.8	
12	109.49	6,960	8.74	1.9	
13	113.00	10,380	75.00	10.9	Upper Marker
14	115.90	13,215	0.00	0.0	

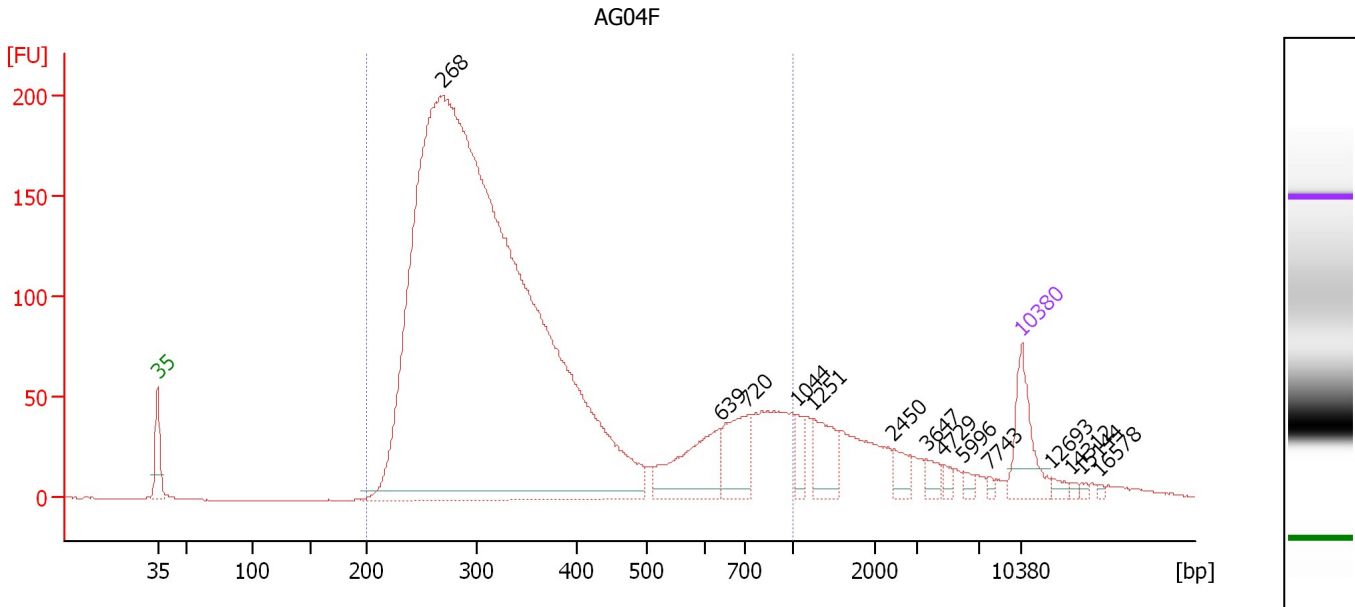
Region table for sample 7 : FAG04E

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	359	25,933.7	5,283.49	4,038.7	91	43.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
 Modified: 12/11/2013 11:37:36 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : AG04F

Number of peaks found: 14 Corr. Area 1: 3,504.3
 Noise: 0.2

Peak table for sample 8 : AG04F

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	66.05	268	3,976.23	22,462.2	
3	88.58	639	145.78	345.5	
4	90.80	720	101.36	213.4	
5	94.78	1,044	28.92	42.0	
6	96.15	1,251	67.66	82.0	
7	102.63	2,450	24.62	15.2	
8	105.29	3,647	16.64	6.9	
9	106.66	4,729	9.91	3.2	
10	108.27	5,996	8.89	2.2	
11	110.30	7,743	4.52	0.9	
12	113.00	10,380	75.00	10.9	Upper Marker
13	115.37	12,693	0.00	0.0	
14	117.02	14,312	0.00	0.0	
15	117.87	15,144	0.00	0.0	
16	119.34	16,578	0.00	0.0	

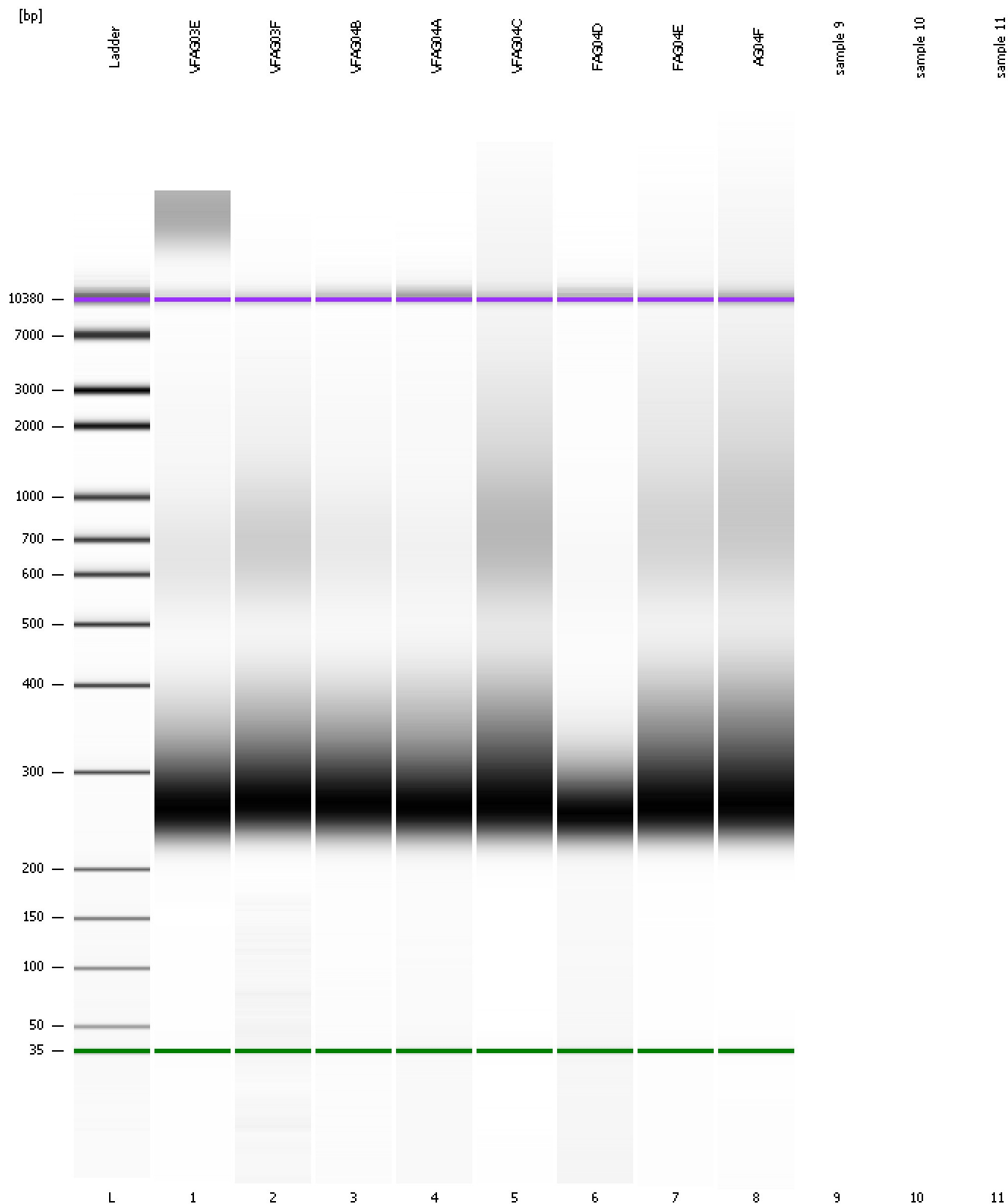
Region table for sample 8 : AG04F

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	371	19,215.2	4,002.29	3,504.3	88	44.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
Modified: 12/11/2013 11:37:36 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-11\2013-12-11_003.xad

Created: 12/11/2013 10:55:20 AM
Modified: 12/11/2013 11:37:36 AM

Invalid Samples

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.