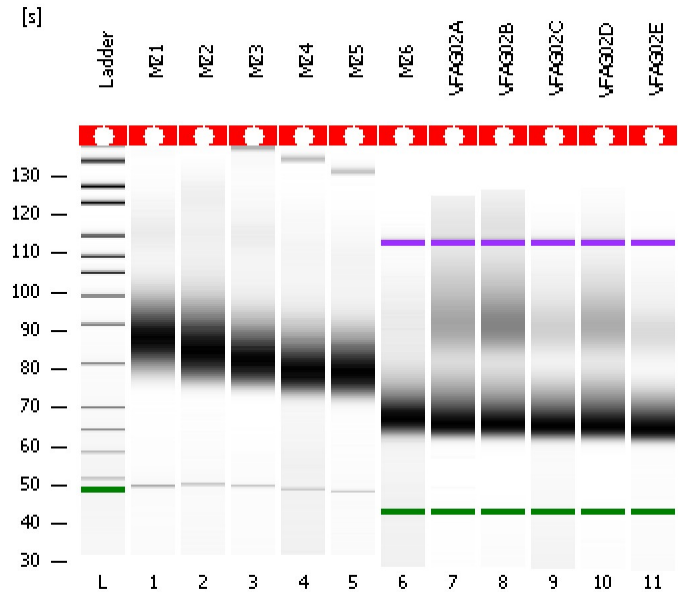


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
Modified: 12/11/2013 10:35:30 AM

### Electrophoresis File Run Summary



#### Instrument Information:

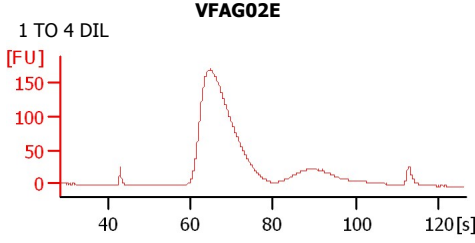
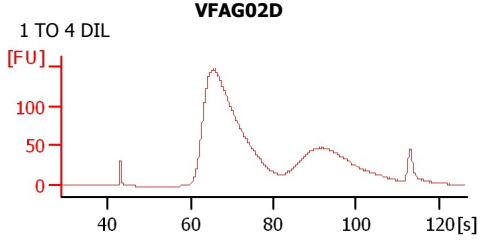
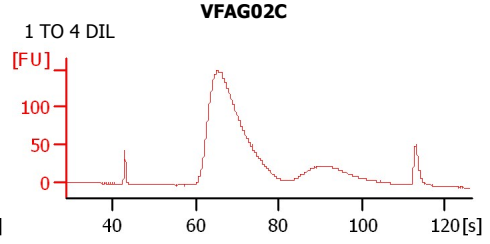
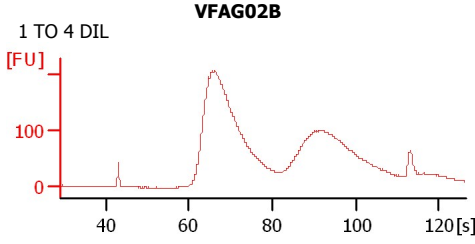
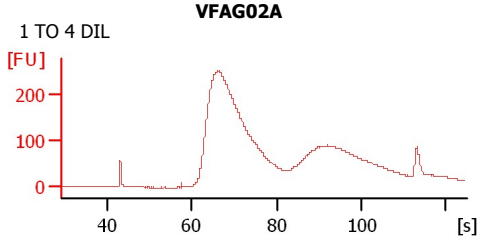
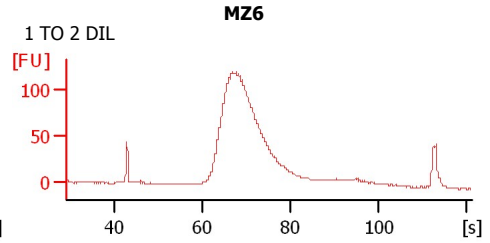
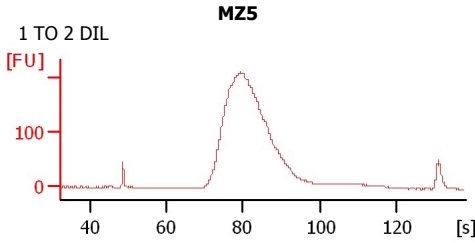
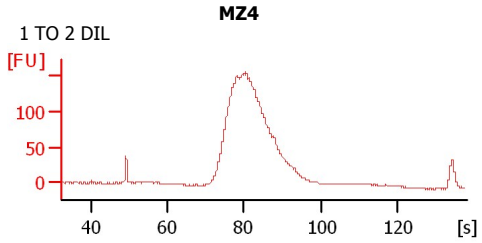
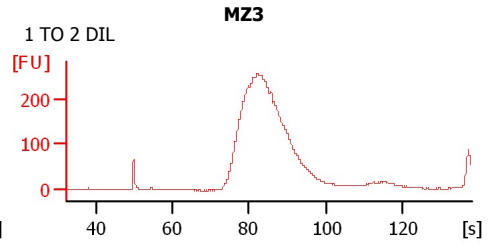
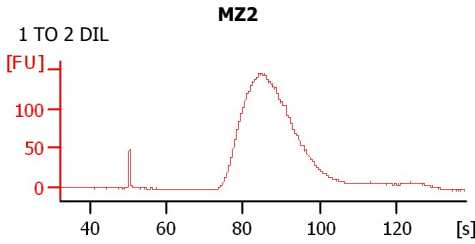
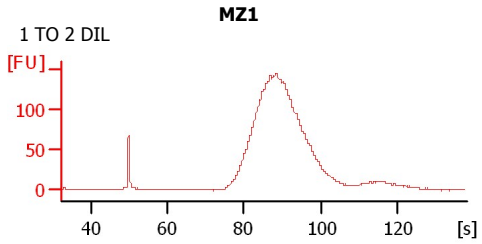
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
 Modified: 12/11/2013 10:35:30 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MZ1	1 TO 2 DIL	<input type="checkbox"/>	✓			
MZ2	1 TO 2 DIL	<input type="checkbox"/>	✓			
MZ3	1 TO 2 DIL	<input type="checkbox"/>	✓			
MZ4	1 TO 2 DIL	<input type="checkbox"/>	✓			
MZ5	1 TO 2 DIL	<input type="checkbox"/>	✓			
MZ6	1 TO 2 DIL	<input type="checkbox"/>	✓			
VFAG02A	1 TO 4 DIL	<input type="checkbox"/>	✓			
VFAG02B	1 TO 4 DIL	<input type="checkbox"/>	✓			
VFAG02C	1 TO 4 DIL	<input type="checkbox"/>	✓			
VFAG02D	1 TO 4 DIL	<input type="checkbox"/>	✓			
VFAG02E	1 TO 4 DIL	<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\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
 Modified: 12/11/2013 10:35:30 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

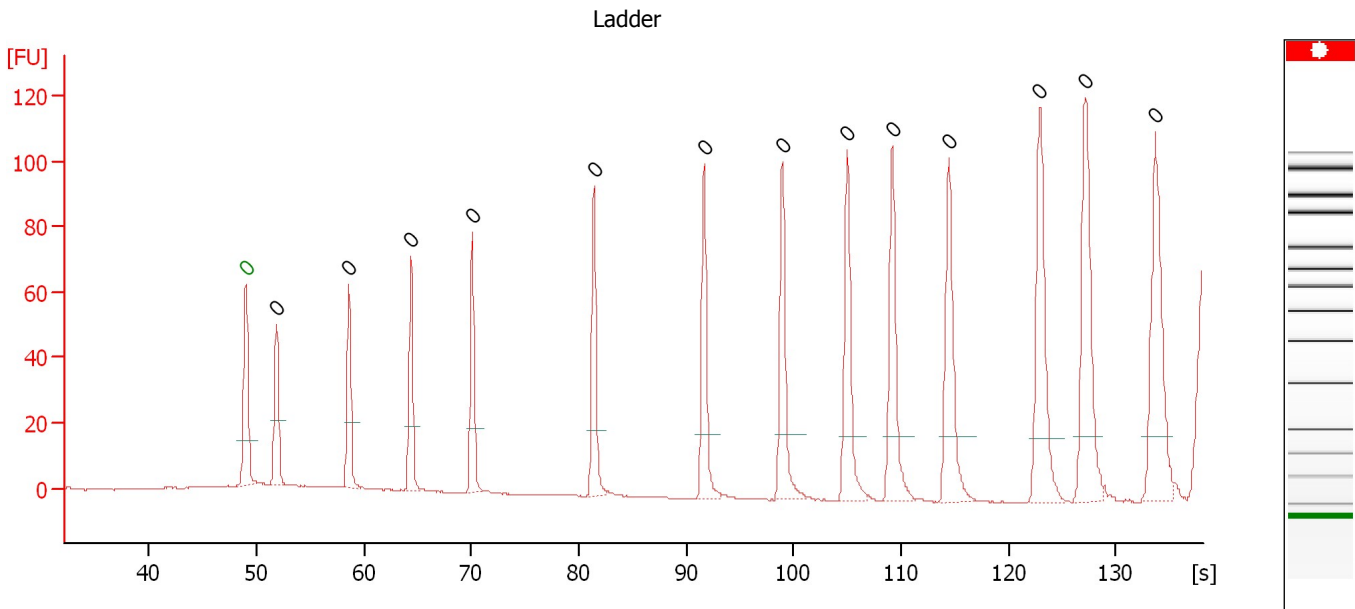
**Ladder**

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\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
 Modified: 12/11/2013 10:35:30 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

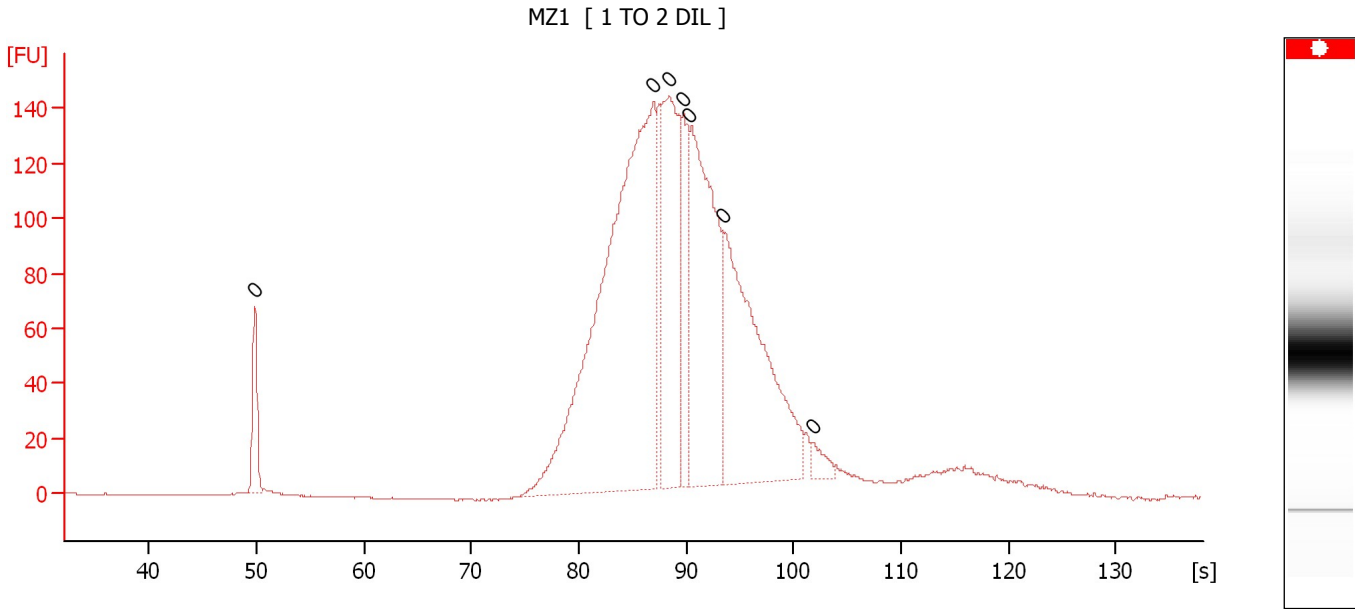
**Peak table for Ladder**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	49.00	0	0.00	0.0	Lower Marker
2	51.85	0	0.00	0.0	Ladder Peak
3	58.60	0	0.00	0.0	Ladder Peak
4	64.40	0	0.00	0.0	Ladder Peak
5	70.10	0	0.00	0.0	Ladder Peak
6	81.40	0	0.00	0.0	Ladder Peak
7	91.65	0	0.00	0.0	Ladder Peak
8	98.95	0	0.00	0.0	Ladder Peak
9	105.00	0	0.00	0.0	Ladder Peak
10	109.20	0	0.00	0.0	Ladder Peak
11	114.45	0	0.00	0.0	Ladder Peak
12	122.95	0	0.00	0.0	Ladder Peak
13	127.20	0	0.00	0.0	Ladder Peak
14	133.70	0	0.00	0.0	Ladder Peak

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
Modified: 12/11/2013 10:35:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : MZ1**

Number of peaks found: 0                      Noise: 0.2

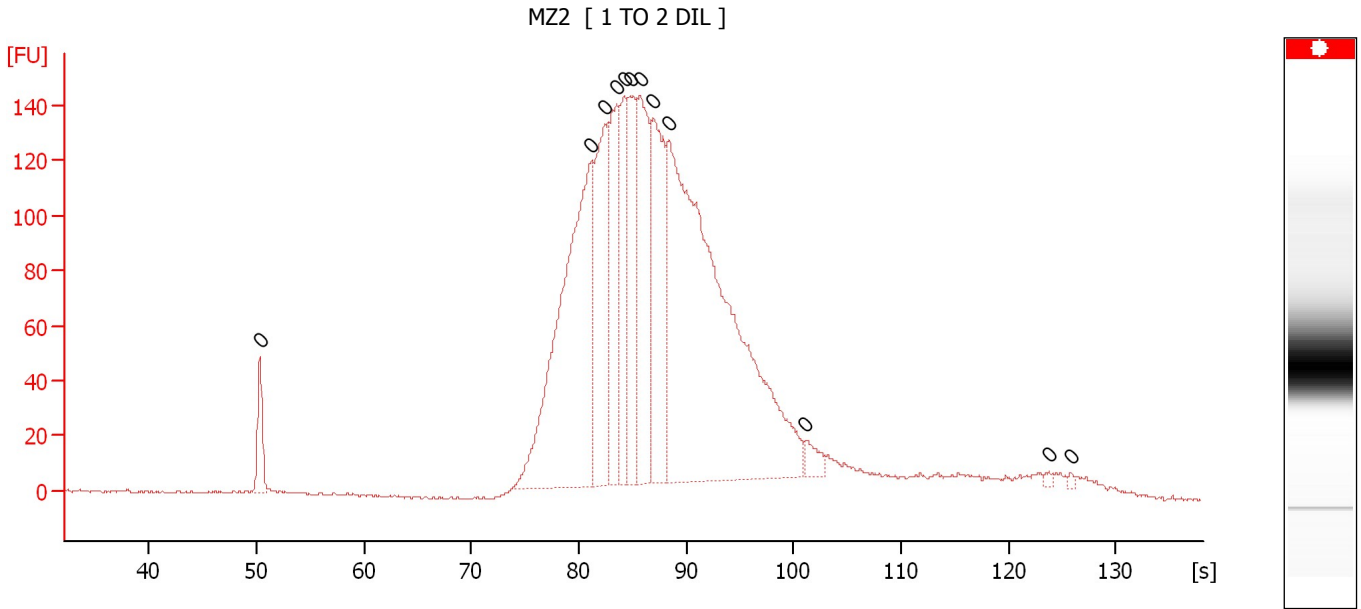
**Peak table for sample 1 : MZ1**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	49.85	0	0.00	0.0	
2	86.90	0	0.00	0.0	
3	88.40	0	0.00	0.0	
4	89.70	0	0.00	0.0	
5	90.30	0	0.00	0.0	
6	93.50	0	0.00	0.0	
7	101.80	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
Modified: 12/11/2013 10:35:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : MZ2**

Number of peaks found: 0      Noise: 0.5

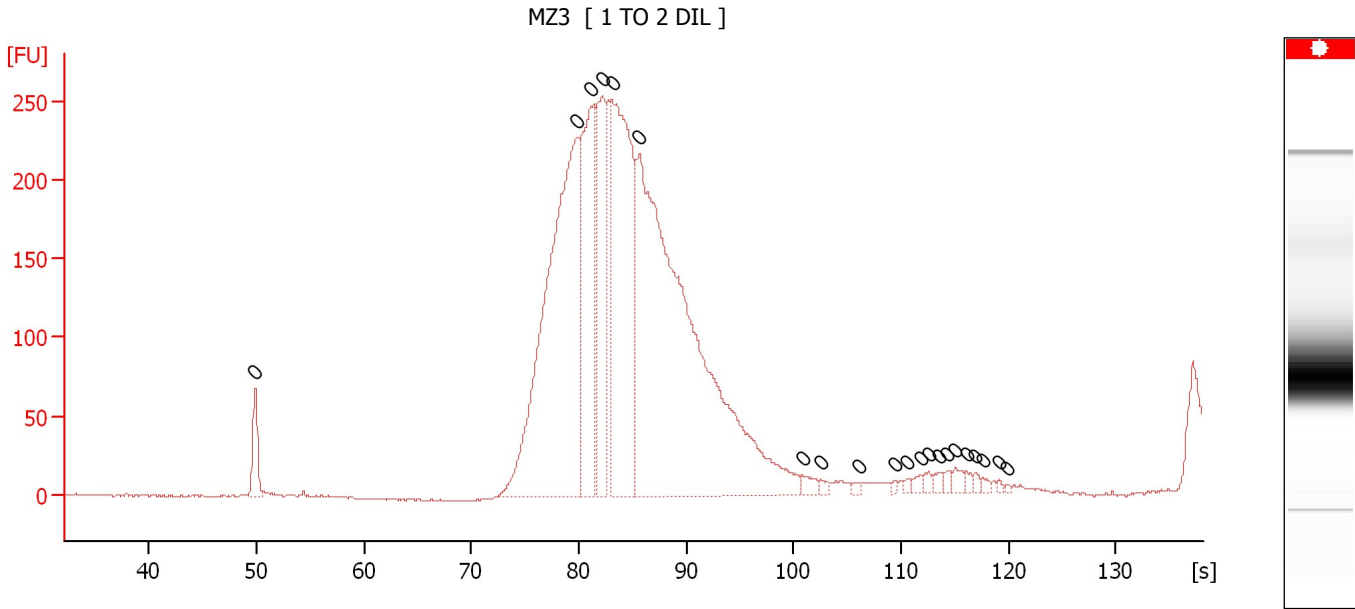
**Peak table for sample 2 : MZ2**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	50.30	0	0.00	0.0	
2	81.20	0	0.00	0.0	
3	82.50	0	0.00	0.0	
4	83.55	0	0.00	0.0	
5	84.25	0	0.00	0.0	
6	84.75	0	0.00	0.0	
7	85.75	0	0.00	0.0	
8	86.90	0	0.00	0.0	
9	88.40	0	0.00	0.0	
10	101.10	0	0.00	0.0	
11	123.75	0	0.00	0.0	
12	125.75	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
 Modified: 12/11/2013 10:35:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : MZ3**

Number of peaks found: 0      Noise: 0.5

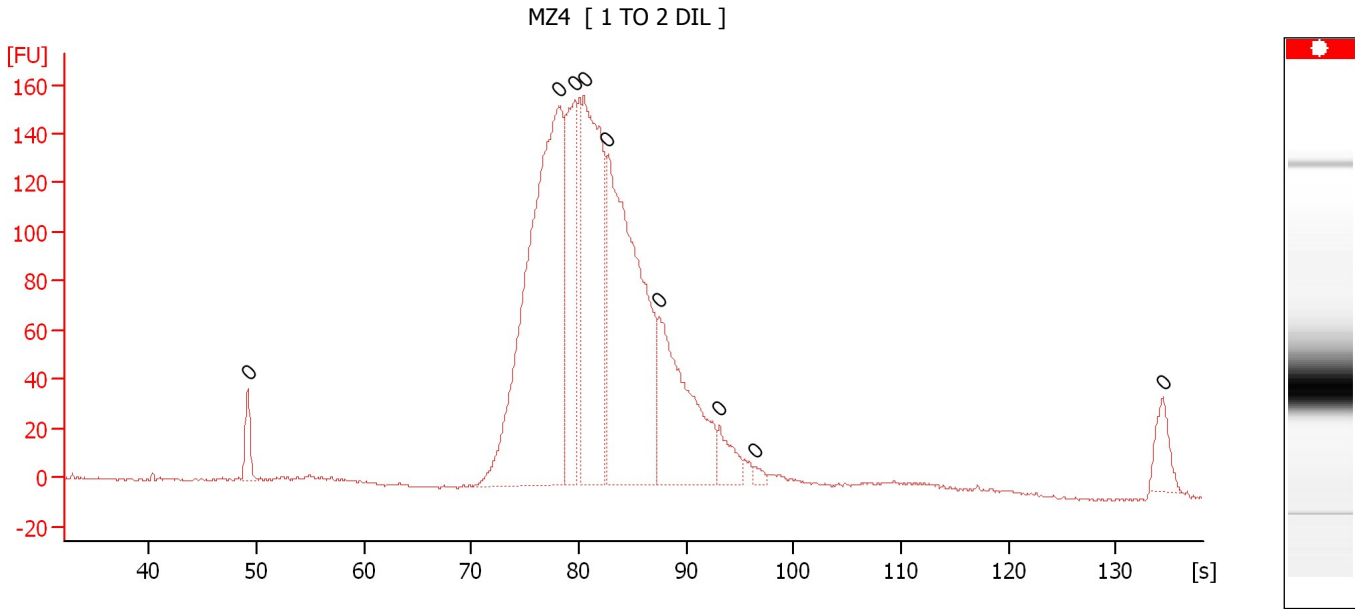
**Peak table for sample 3 : MZ3**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	49.85	0	0.00	0.0	
2	79.80	0	0.00	0.0	
3	81.10	0	0.00	0.0	
4	82.20	0	0.00	0.0	
5	83.10	0	0.00	0.0	
6	85.65	0	0.00	0.0	
7	100.80	0	0.00	0.0	
8	102.50	0	0.00	0.0	
9	106.05	0	0.00	0.0	
10	109.35	0	0.00	0.0	
11	110.65	0	0.00	0.0	
12	111.80	0	0.00	0.0	
13	112.60	0	0.00	0.0	
14	113.55	0	0.00	0.0	
15	114.30	0	0.00	0.0	
16	115.05	0	0.00	0.0	
17	116.10	0	0.00	0.0	
18	116.90	0	0.00	0.0	
19	117.55	0	0.00	0.0	
20	119.10	0	0.00	0.0	
21	119.80	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
Modified: 12/11/2013 10:35:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : MZ4**

Number of peaks found: 0                      Noise: 0.5

**Peak table for sample 4 : MZ4**

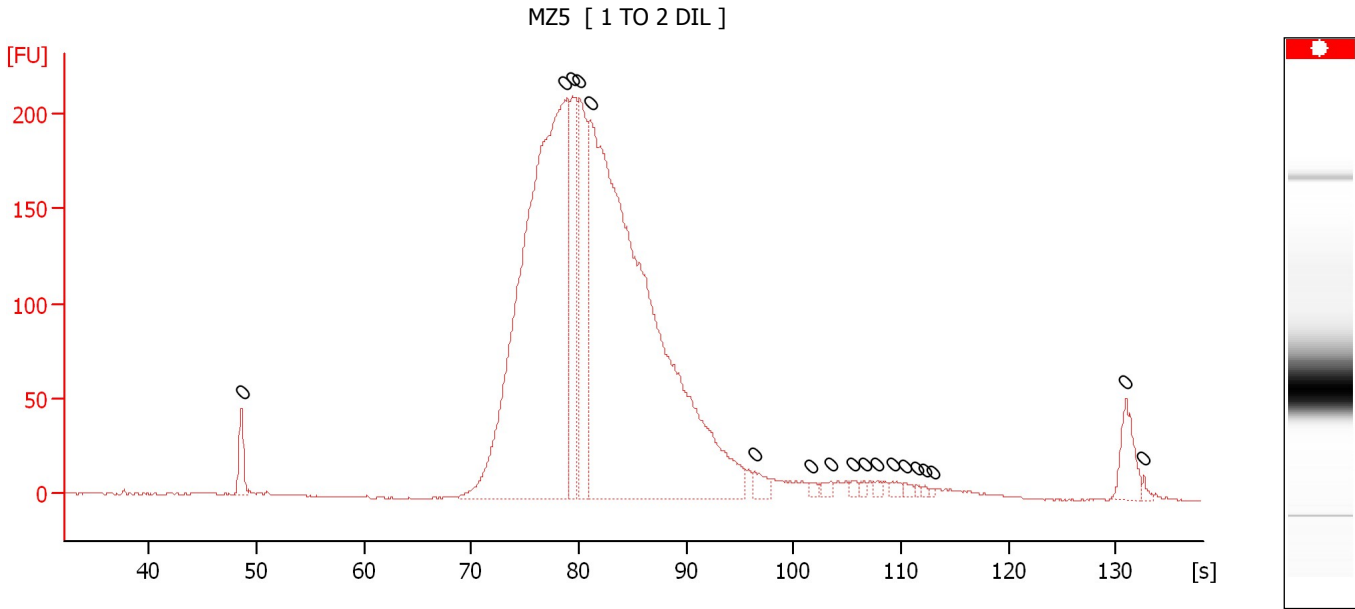
Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	49.15	0	0.00	0.0	
2	78.10	0	0.00	0.0	
3	79.65	0	0.00	0.0	
4	80.50	0	0.00	0.0	
5	82.65	0	0.00	0.0	
6	87.45	0	0.00	0.0	
7	93.10	0	0.00	0.0	
8	96.45	0	0.00	0.0	
9	134.35	0	0.00	0.0	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
 Modified: 12/11/2013 10:35:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : MZ5**

Number of peaks found: 0                      Noise: 0.4

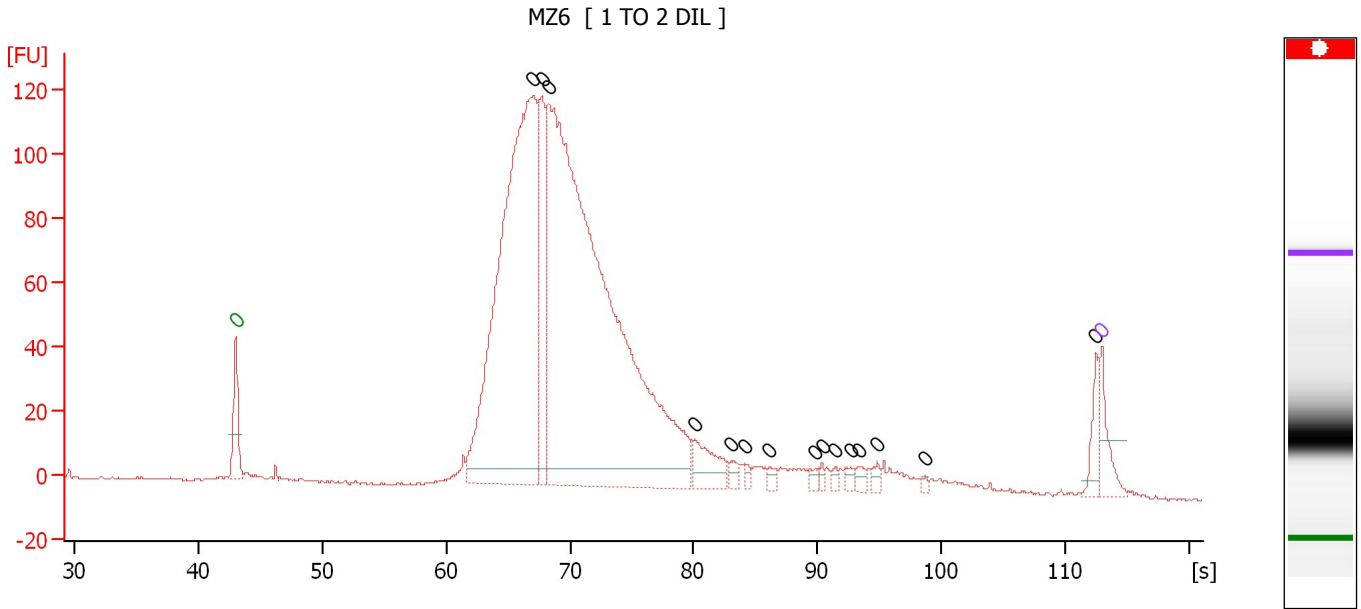
**Peak table for sample 5 : MZ5**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	48.60	0	0.00	0.0	
2	78.75	0	0.00	0.0	
3	79.45	0	0.00	0.0	
4	80.00	0	0.00	0.0	
5	81.10	0	0.00	0.0	
6	96.35	0	0.00	0.0	
7	101.65	0	0.00	0.0	
8	103.45	0	0.00	0.0	
9	105.45	0	0.00	0.0	
10	106.60	0	0.00	0.0	
11	107.75	0	0.00	0.0	
12	109.20	0	0.00	0.0	
13	110.40	0	0.00	0.0	
14	111.45	0	0.00	0.0	
15	112.20	0	0.00	0.0	
16	112.95	0	0.00	0.0	
17	130.95	0	0.00	0.0	
18	132.60	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
 Modified: 12/11/2013 10:35:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : MZ6**

Number of peaks found: 15                      Noise: 0.4

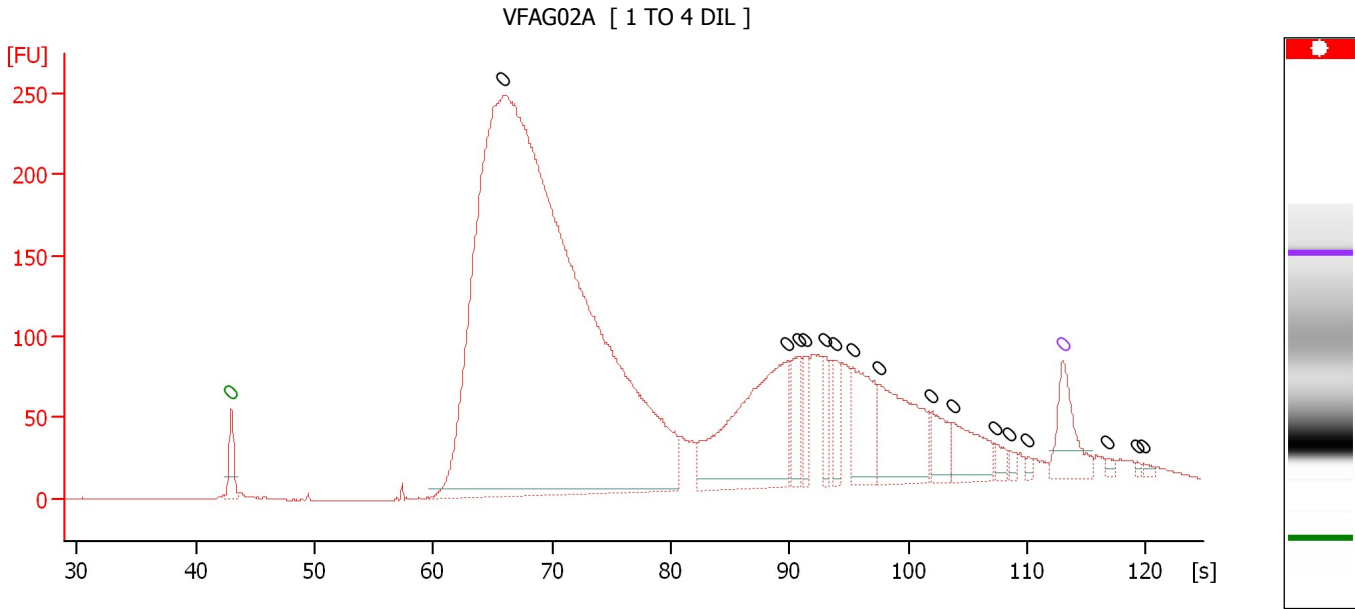
**Peak table for sample 6 : MZ6**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	0	0.00	0.0	Lower Marker
2	67.04	0	0.00	0.0	
3	67.74	0	0.00	0.0	
4	68.30	0	0.00	0.0	
5	80.06	0	0.00	0.0	
6	83.06	0	0.00	0.0	
7	84.18	0	0.00	0.0	
8	86.14	0	0.00	0.0	
9	89.78	0	0.00	0.0	
10	90.39	0	0.00	0.0	
11	91.43	0	0.00	0.0	
12	92.69	0	0.00	0.0	
13	93.38	0	0.00	0.0	
14	94.86	0	0.00	0.0	
15	98.72	0	0.00	0.0	
16	112.52	0	0.00	0.0	
17	113.00	0	0.00	0.0	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
 Modified: 12/11/2013 10:35:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : VFAG02A**

Number of peaks found: 16 Noise: 0.3

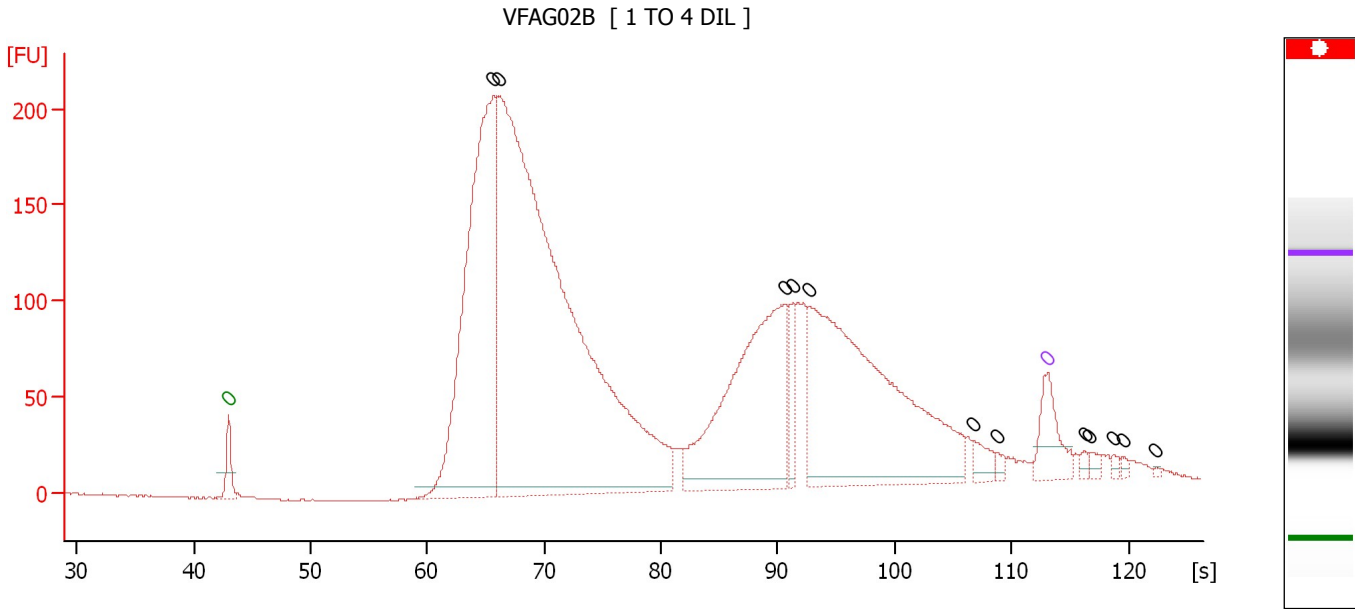
**Peak table for sample 7 : VFAG02A**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	0	0.00	0.0	Lower Marker
2	65.88	0	0.00	0.0	
3	89.80	0	0.00	0.0	
4	90.80	0	0.00	0.0	
5	91.29	0	0.00	0.0	
6	93.01	0	0.00	0.0	
7	93.78	0	0.00	0.0	
8	95.32	0	0.00	0.0	
9	97.53	0	0.00	0.0	
10	101.97	0	0.00	0.0	
11	103.78	0	0.00	0.0	
12	107.30	0	0.00	0.0	
13	108.48	0	0.00	0.0	
14	110.02	0	0.00	0.0	
15	113.00	0	0.00	0.0	Upper Marker
16	116.75	0	0.00	0.0	
17	119.24	0	0.00	0.0	
18	119.83	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
 Modified: 12/11/2013 10:35:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : VFAG02B**

Number of peaks found: 12                      Noise: 0.4

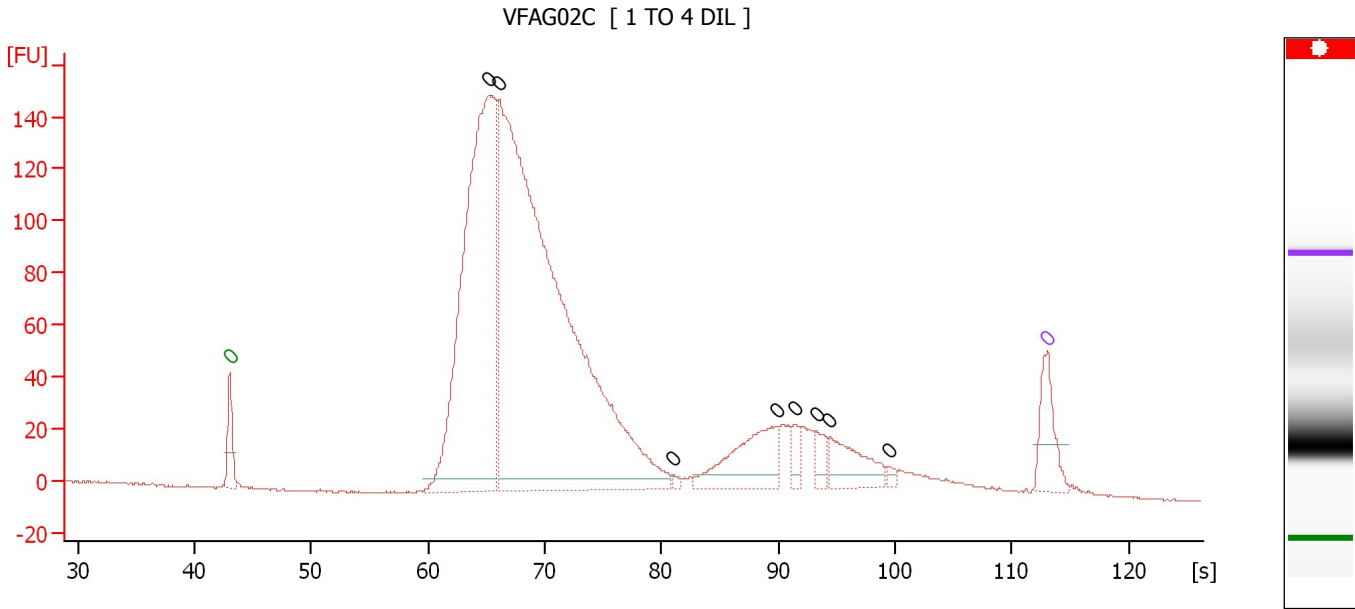
**Peak table for sample 8 : VFAG02B**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	0	0.00	0.0	Lower Marker
2	65.66	0	0.00	0.0	
3	66.03	0	0.00	0.0	
4	90.57	0	0.00	0.0	
5	91.35	0	0.00	0.0	
6	92.73	0	0.00	0.0	
7	106.80	0	0.00	0.0	
8	108.82	0	0.00	0.0	
9	113.00	0	0.00	0.0	Upper Marker
10	116.26	0	0.00	0.0	
11	116.72	0	0.00	0.0	
12	118.75	0	0.00	0.0	
13	119.48	0	0.00	0.0	
14	122.38	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
 Modified: 12/11/2013 10:35:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : VFAG02C**

Number of peaks found: 8                      Noise: 0.3

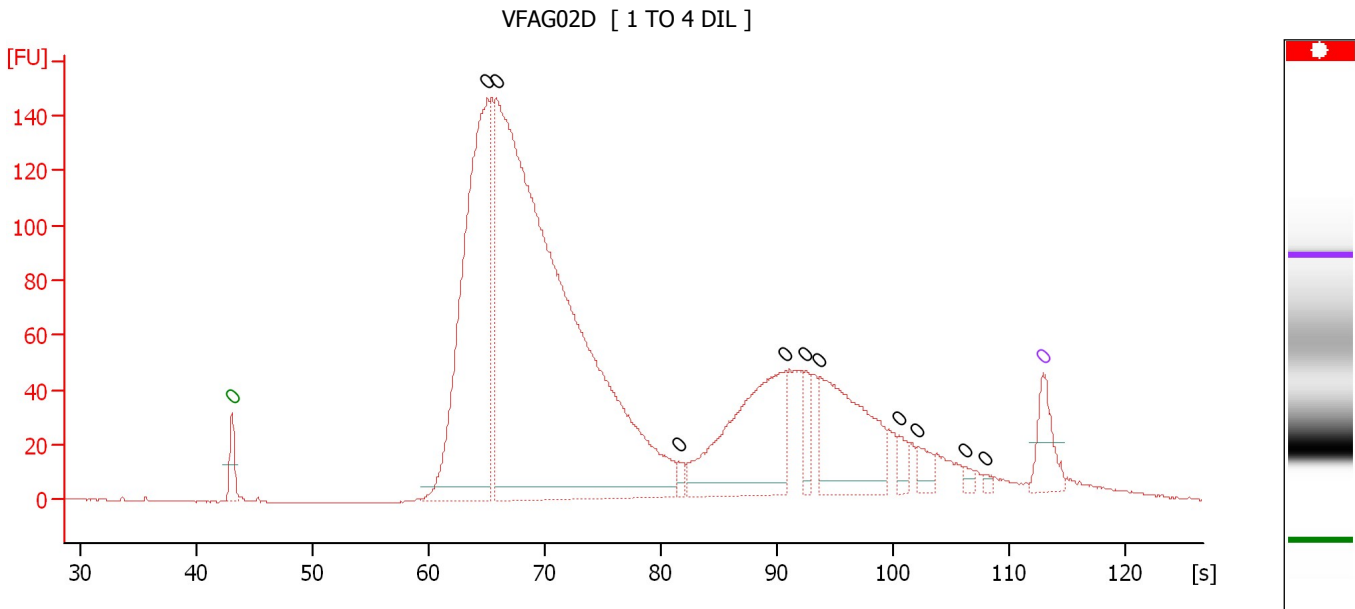
**Peak table for sample 9 : VFAG02C**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	0	0.00	0.0	Lower Marker
2	65.17	0	0.00	0.0	
3	66.09	0	0.00	0.0	
4	80.94	0	0.00	0.0	
5	89.82	0	0.00	0.0	
6	91.38	0	0.00	0.0	
7	93.27	0	0.00	0.0	
8	94.37	0	0.00	0.0	
9	99.39	0	0.00	0.0	
10	113.00	0	0.00	0.0	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
 Modified: 12/11/2013 10:35:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : VFAG02D**

Number of peaks found: 10      Noise: 0.2

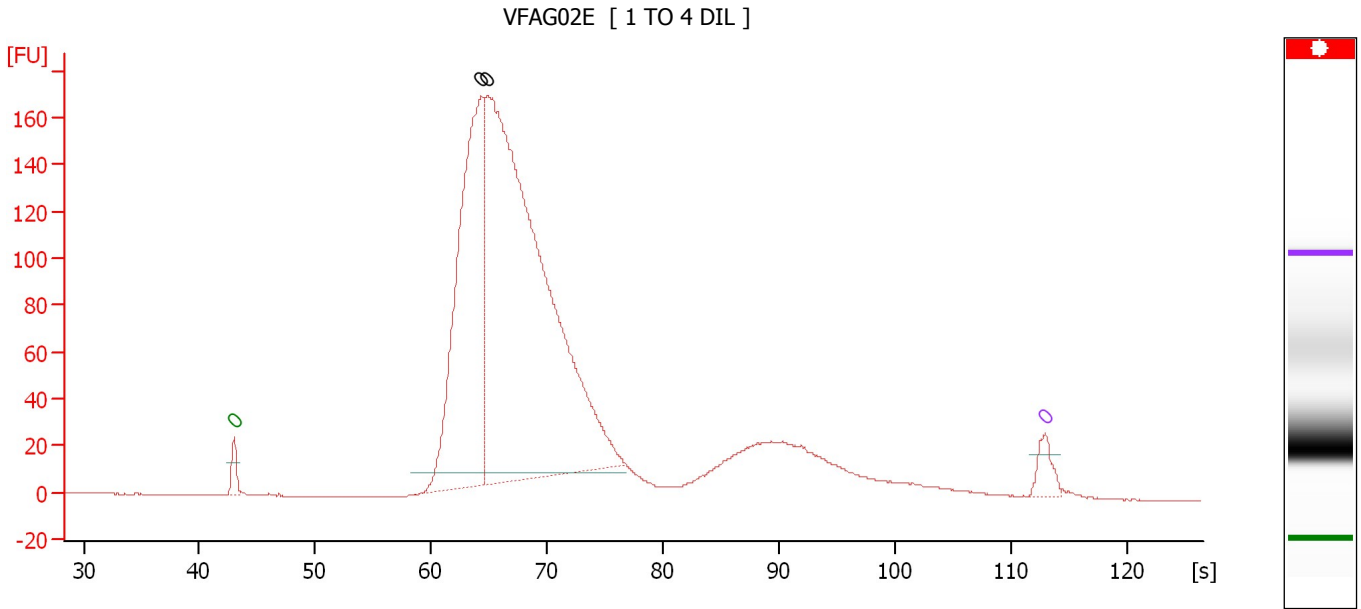
**Peak table for sample 10 : VFAG02D**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	0	0.00	0.0	Lower Marker
2	65.05	0	0.00	0.0	
3	65.84	0	0.00	0.0	
4	81.54	0	0.00	0.0	
5	90.67	0	0.00	0.0	
6	92.48	0	0.00	0.0	
7	93.73	0	0.00	0.0	
8	100.54	0	0.00	0.0	
9	102.16	0	0.00	0.0	
10	106.33	0	0.00	0.0	
11	107.90	0	0.00	0.0	
12	113.00	0	0.00	0.0	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
 Modified: 12/11/2013 10:35:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : VFAG02E**

Number of peaks found: 2                      Noise: 0.2

**Peak table for sample 11 : VFAG02E**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	0	0.00	0.0	Lower Marker
2	64.36	0	0.00	0.0	
3	64.82	0	0.00	0.0	
4	113.00	0	0.00	0.0	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_002.xad

Created: 12/10/2013 10:18:15 AM  
Modified: 12/11/2013 10:35:30 AM

**Gel Image**

