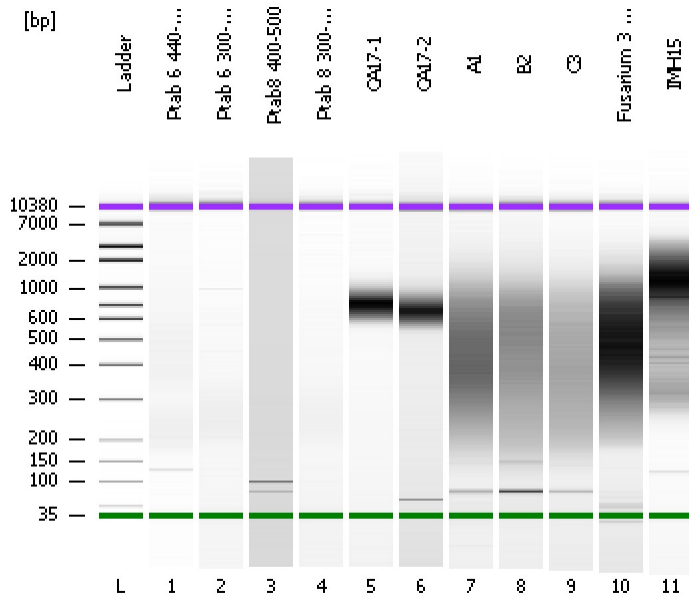


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
Modified: 5/30/2014 9:27:25 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

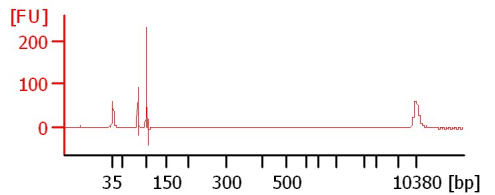
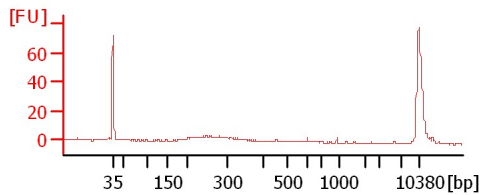
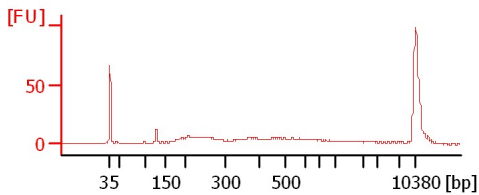
#### Chip Information:

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

Ptab 6 440-500

Ptab 6 300-400

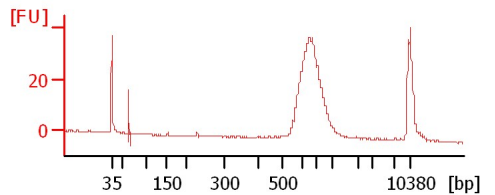
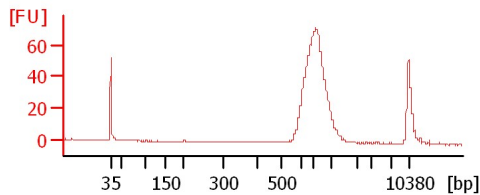
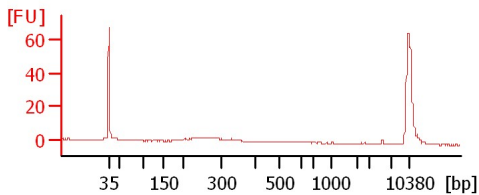
Ptab8 400-500



Ptab 8 300-400

CA17-1

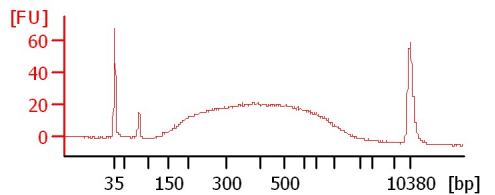
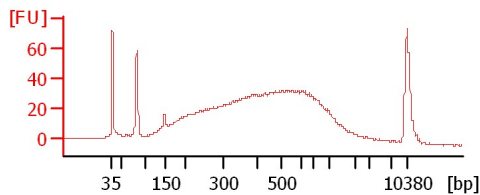
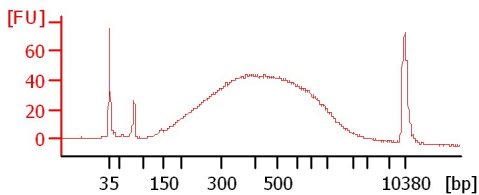
CA17-2



A1

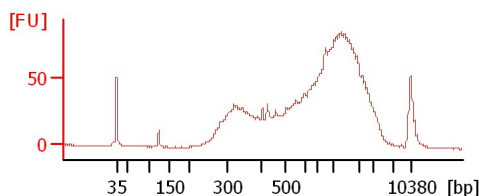
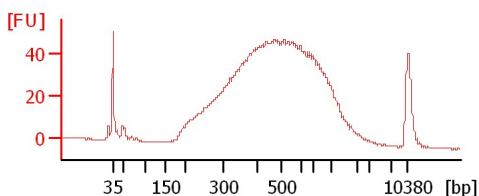
B2

C3



Fusarium 3 Mix

IMH15



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Ptab 6 440-500		<input type="checkbox"/>	✓			
Ptab 6 300-400		<input type="checkbox"/>	✓			
Ptab8 400-500		<input type="checkbox"/>	✓			
Ptab 8 300-400		<input type="checkbox"/>	✓			
CA17-1		<input type="checkbox"/>	✓			
CA17-2		<input type="checkbox"/>	✓			
A1		<input type="checkbox"/>	✓			
B2		<input type="checkbox"/>	✓			
C3		<input type="checkbox"/>	✓			
Fusarium 3 Mix		<input type="checkbox"/>	✓			
IMH15		<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\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
Modified: 5/30/2014 9:27:25 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

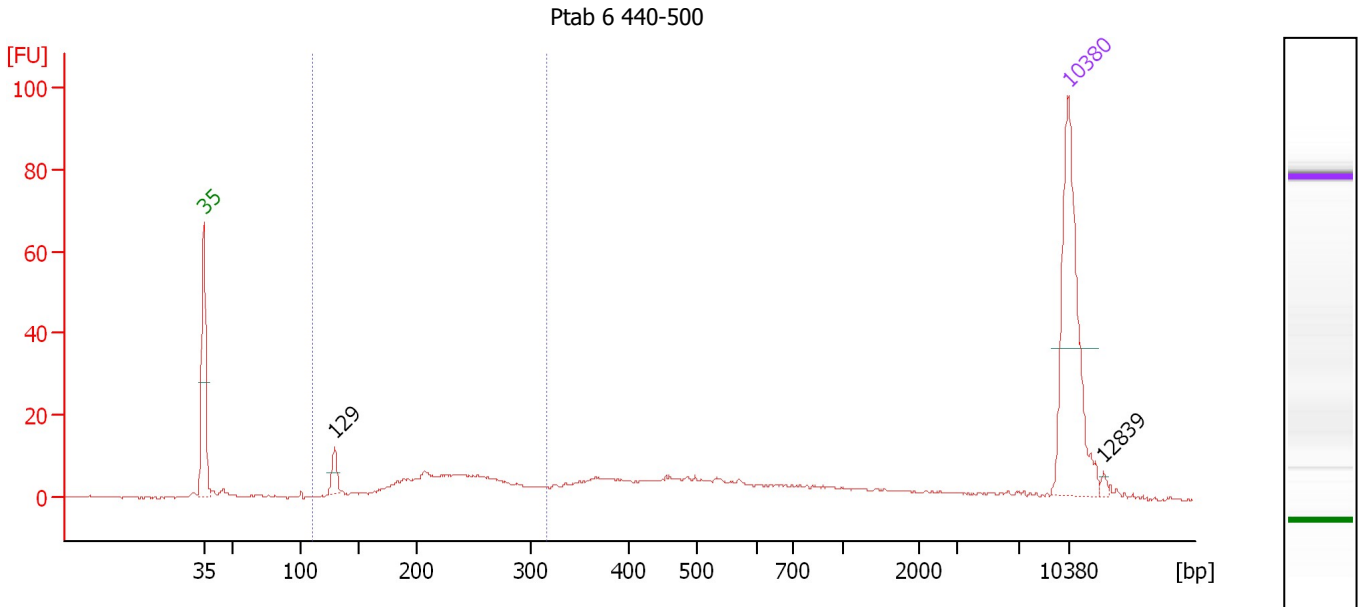
**Ladder**

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:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

**Electropherogram Summary**



**Overall Results for sample 1 : Ptab 6 440-500**

Number of peaks found: 2                      Corr. Area 1: 123.4  
 Noise: 0.3

**Peak table for sample 1 : Ptab 6 440-500**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	129	12.39	145.8	
3	10,380	75.00	10.9	Upper Marker
4	12,839	0.00	0.0	

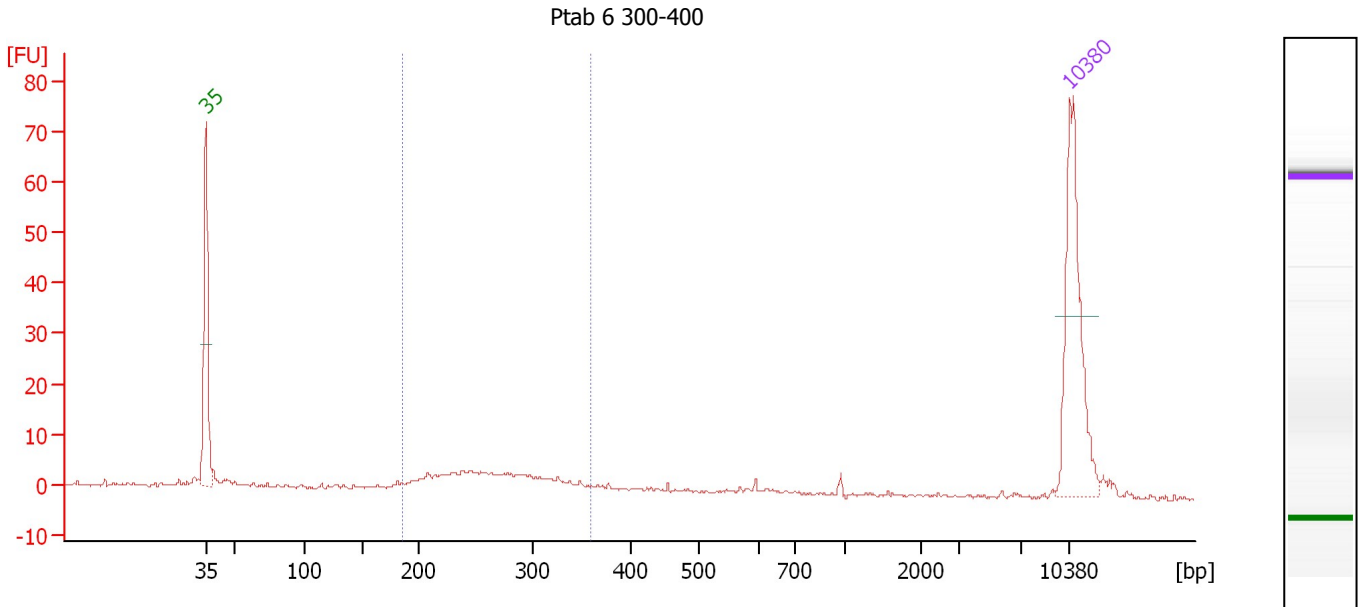
**Region table for sample 1 : Ptab 6 440-500**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
109	318	222	920.9	123.23	123.4	41	23.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Ptab 6 300-400**

Number of peaks found: 0                      Corr. Area 1: 59.0  
 Noise: 0.4

**Peak table for sample 2 : Ptab 6 300-400**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

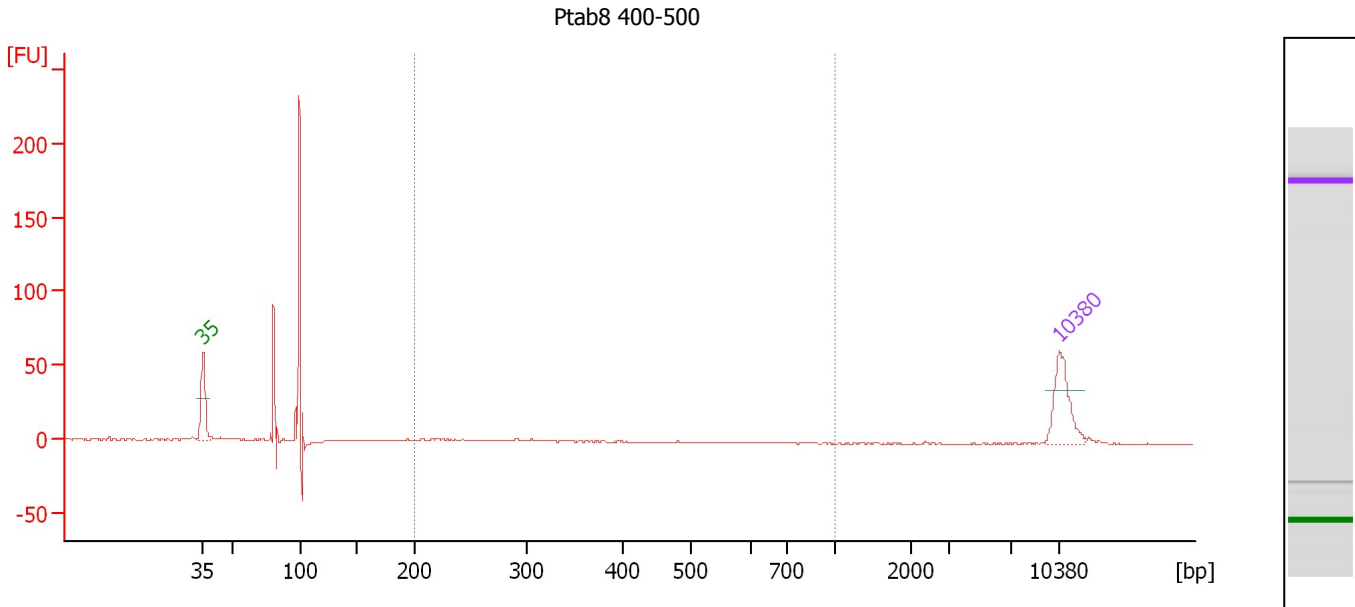
**Region table for sample 2 : Ptab 6 300-400**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
186	360	266	430.1	73.53	59.0	62	16.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Ptab8 400-500**

Number of peaks found: 0                      Corr. Area 1: 17.5  
 Noise: 0.2

**Peak table for sample 3 : Ptab8 400-500**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

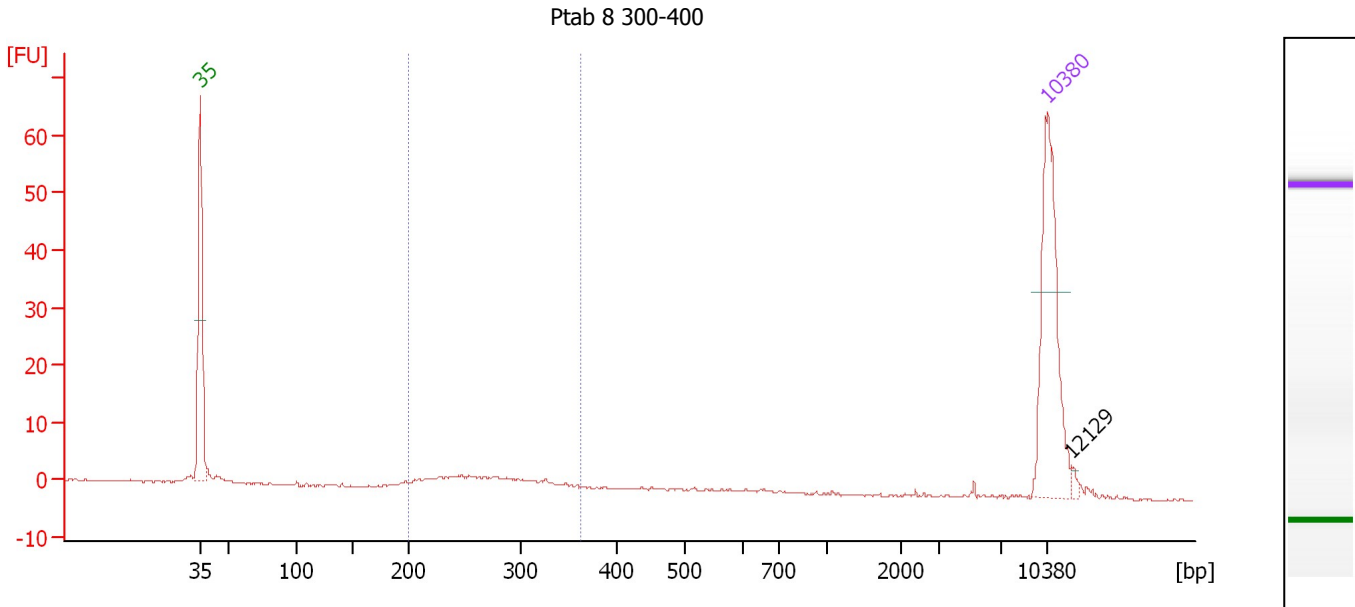
**Region table for sample 3 : Ptab8 400-500**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	276	151.9	26.39	17.5	10	23.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Ptab 8 300-400**

Number of peaks found: 1      Corr. Area 1: 30.1  
 Noise: 0.2

**Peak table for sample 4 : Ptab 8 300-400**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	12,129	0.00	0.0	

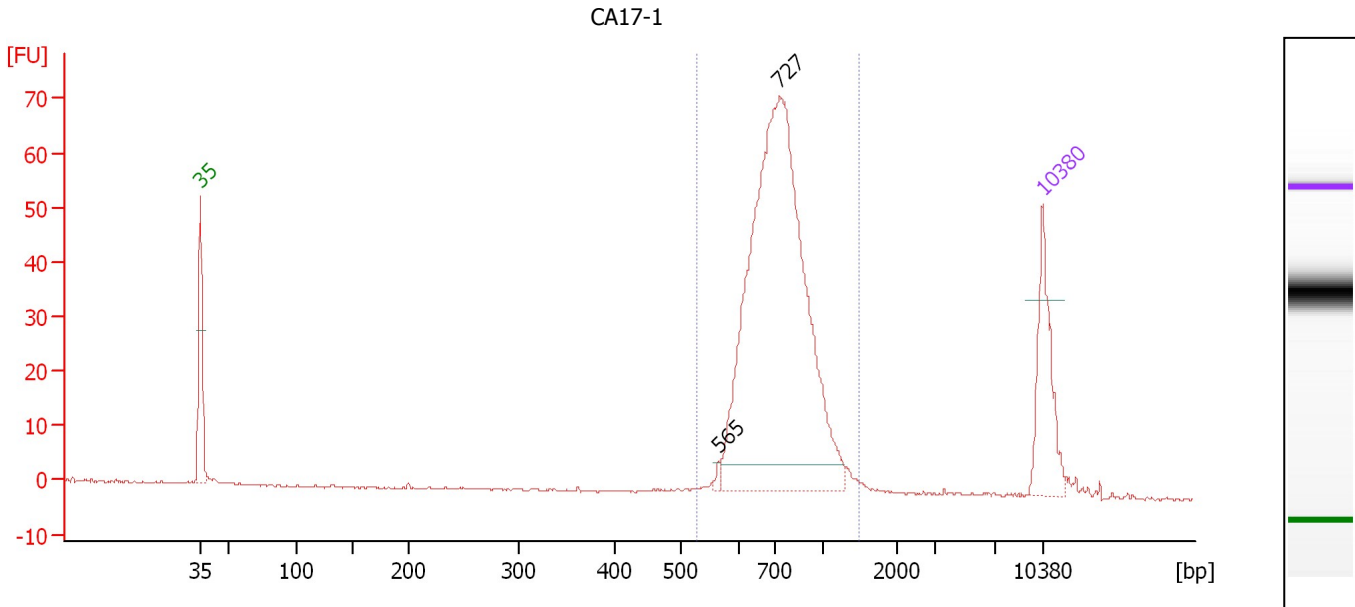
**Region table for sample 4 : Ptab 8 300-400**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	362	272	231.8	40.78	30.1	58	14.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : CA17-1**

Number of peaks found: 2                      Corr. Area 1: 453.5  
 Noise: 0.2

**Peak table for sample 5 : CA17-1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	565	4.52	12.1	
3	727	729.39	1,520.6	
4	10,380	75.00	10.9	Upper Marker

**Region table for sample 5 : CA17-1**

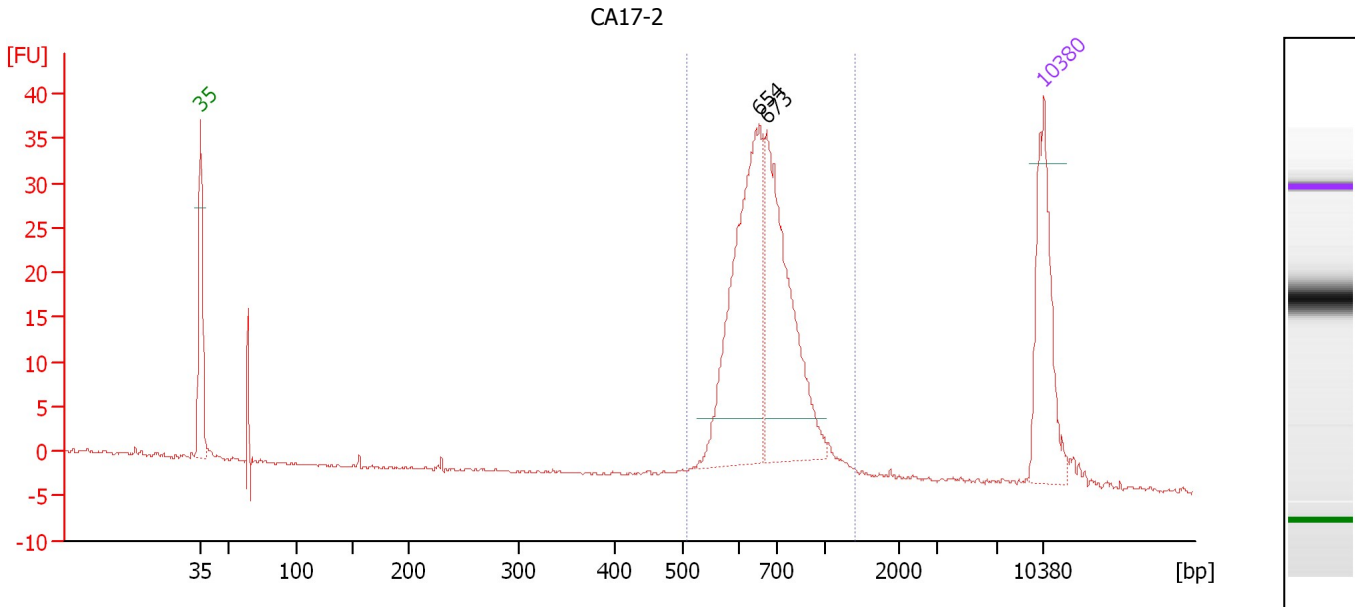
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
526	1,481	757	1,498.1	724.85	453.5	97	19.1



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : CA17-2**

Number of peaks found: 2                      Corr. Area 1: 251.1  
 Noise: 0.2

**Peak table for sample 6 : CA17-2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	654	219.56	509.0	
3	673	187.75	422.9	
4	10,380	75.00	10.9	Upper Marker

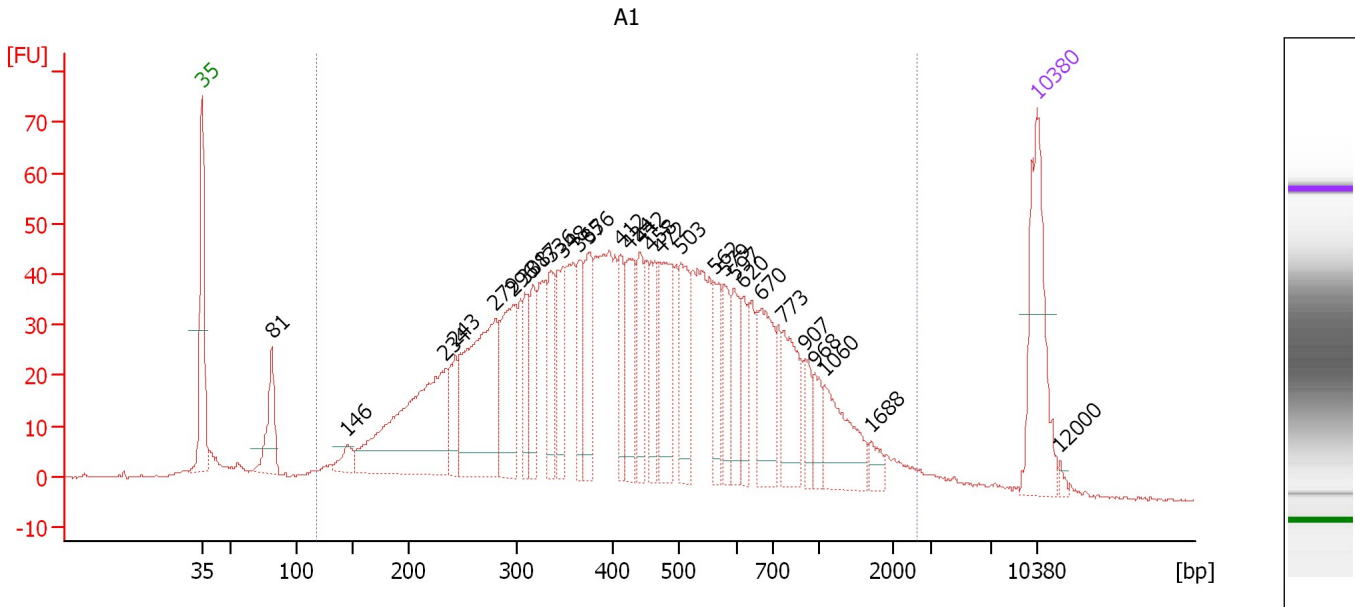
**Region table for sample 6 : CA17-2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
508	1,406	695	994.2	443.61	251.1	93	17.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : A1**

Number of peaks found: 29                      Corr. Area 1: 1,896.5  
 Noise: 0.3

**Peak table for sample 7 : A1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	55.63	1,035.4	
3	146	17.09	177.8	
4	234	205.88	1,333.0	
5	243	37.09	231.0	
6	279	176.97	959.9	
7	296	90.05	460.3	
8	308	36.74	180.6	
9	317	37.19	178.0	
10	336	47.30	213.5	
11	348	50.24	219.0	
12	365	38.41	159.5	
13	376	53.26	214.6	
14	412	35.88	131.8	
15	424	51.68	184.5	
16	442	40.76	139.8	
17	458	42.04	139.1	
18	472	72.69	233.2	
19	503	52.44	157.9	
20	562	33.86	91.3	
21	579	30.30	79.3	
22	597	34.54	87.7	
23	620	24.11	58.9	
24	670	63.17	142.8	
25	773	51.24	100.4	
26	907	17.64	29.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 7 :

A1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	968	17.93	28.1	
28	1,060	51.09	73.0	
29	1,688	9.40	8.4	
30	10,380	75.00	10.9	Upper Marker
31	12,000	0.00	0.0	

#### Region table for sample 7 :

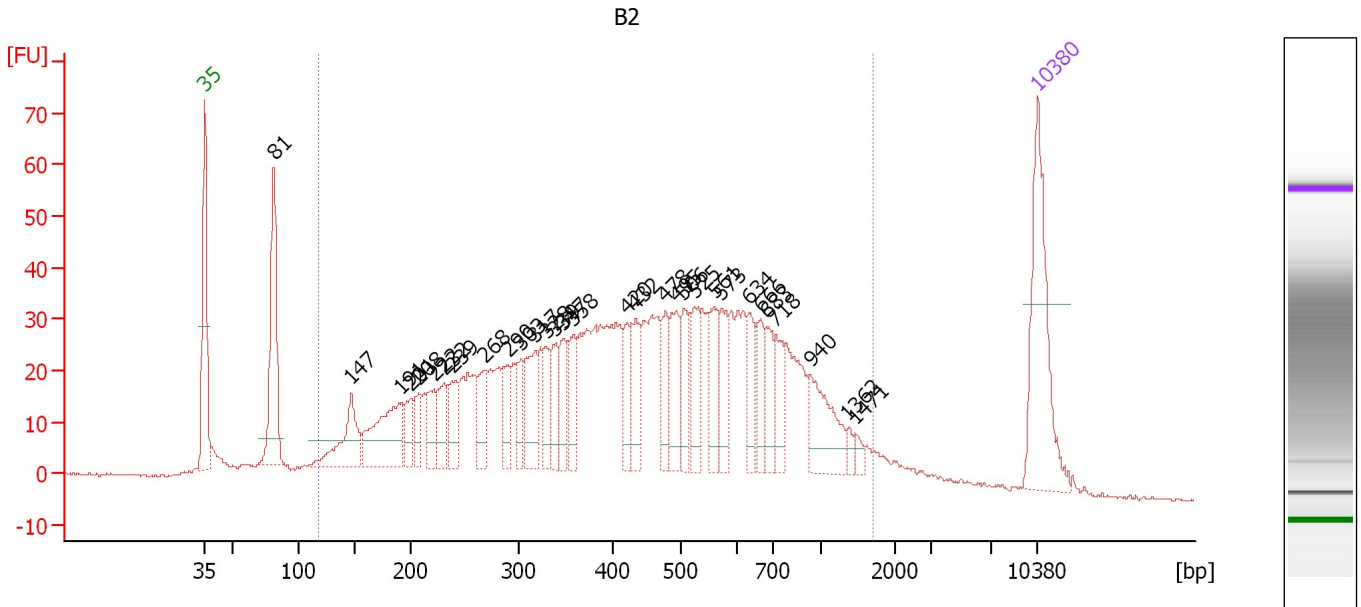
A1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
118	2,639	512	9,014.9	2,089.02	1,896.5	94	65.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : B2**

Number of peaks found: 31                      Corr. Area 1: 1,474.0  
 Noise: 0.2

**Peak table for sample 8 : B2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	118.97	2,220.8	
3	147	56.36	580.9	
4	191	79.68	631.0	
5	201	21.49	161.6	
6	208	19.80	144.0	
7	222	27.68	188.9	
8	232	28.66	187.3	
9	239	32.87	208.3	
10	268	29.27	165.5	
11	290	22.95	119.7	
12	303	21.75	108.9	
13	317	44.15	210.9	
14	328	23.02	106.2	
15	339	26.38	118.1	
16	347	30.50	133.2	
17	358	28.66	121.4	
18	420	26.51	95.6	
19	432	28.67	100.6	
20	478	27.18	86.2	
21	495	36.18	110.7	
22	506	28.94	86.7	
23	525	37.45	108.0	
24	561	35.38	95.5	
25	573	27.81	73.5	
26	634	24.53	58.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

### Electropherogram Summary Continued ...

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

B2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	666	25.10	57.1	
28	683	23.91	53.1	
29	718	23.52	49.6	
30	940	43.43	70.0	
31	1,362	4.74	5.3	
32	1,471	5.16	5.3	
33	▶ 10,380	75.00	10.9	Upper Marker

#### Region table for sample 8 :

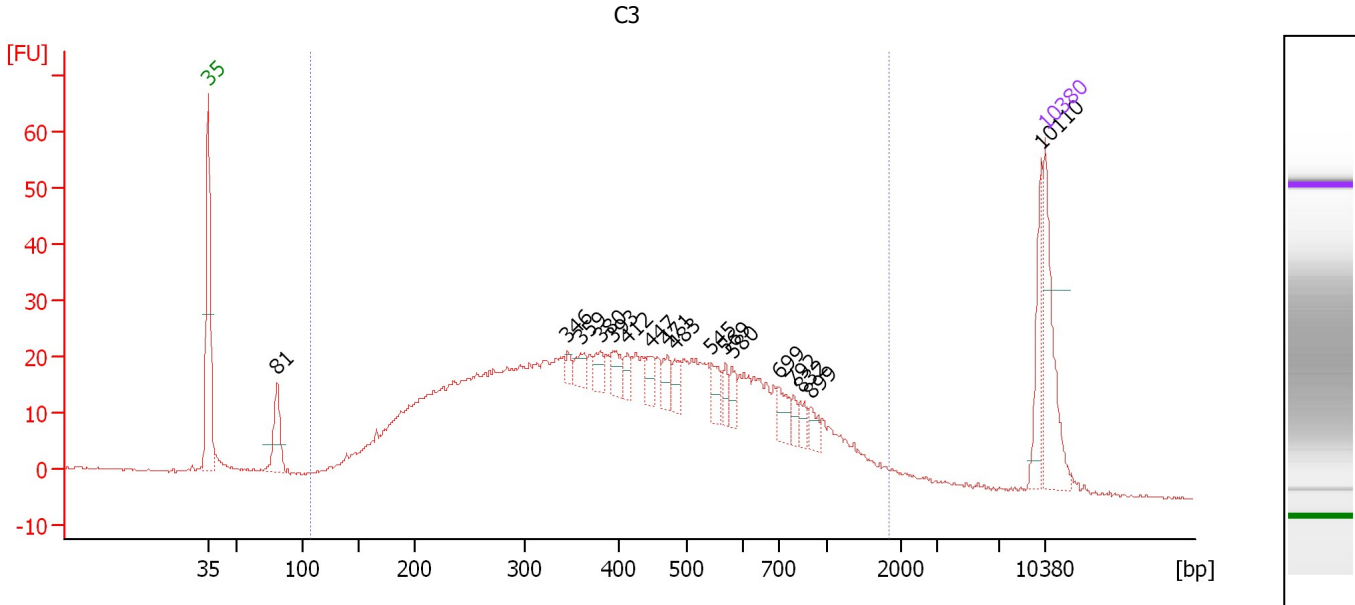
B2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
118	1,715	489	7,614.1	1,654.49	■ 1,474.0	89	55.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : C3**

Number of peaks found: 17                      Corr. Area 1: 1,042.2  
 Noise: 0.2

**Peak table for sample 9 : C3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	64.54	1,214.3	
3	346	9.81	43.0	
4	359	18.07	76.2	
5	380	17.98	71.7	
6	393	23.32	89.9	
7	412	13.21	48.6	
8	447	17.15	58.1	
9	471	18.92	60.8	
10	483	17.92	56.3	
11	545	22.05	61.3	
12	569	13.21	35.2	
13	580	15.89	41.5	
14	699	22.05	47.8	
15	792	9.75	18.6	
16	832	12.35	22.5	
17	899	14.05	23.7	
18	10,110	39.99	6.0	
19	10,380	75.00	10.9	Upper Marker

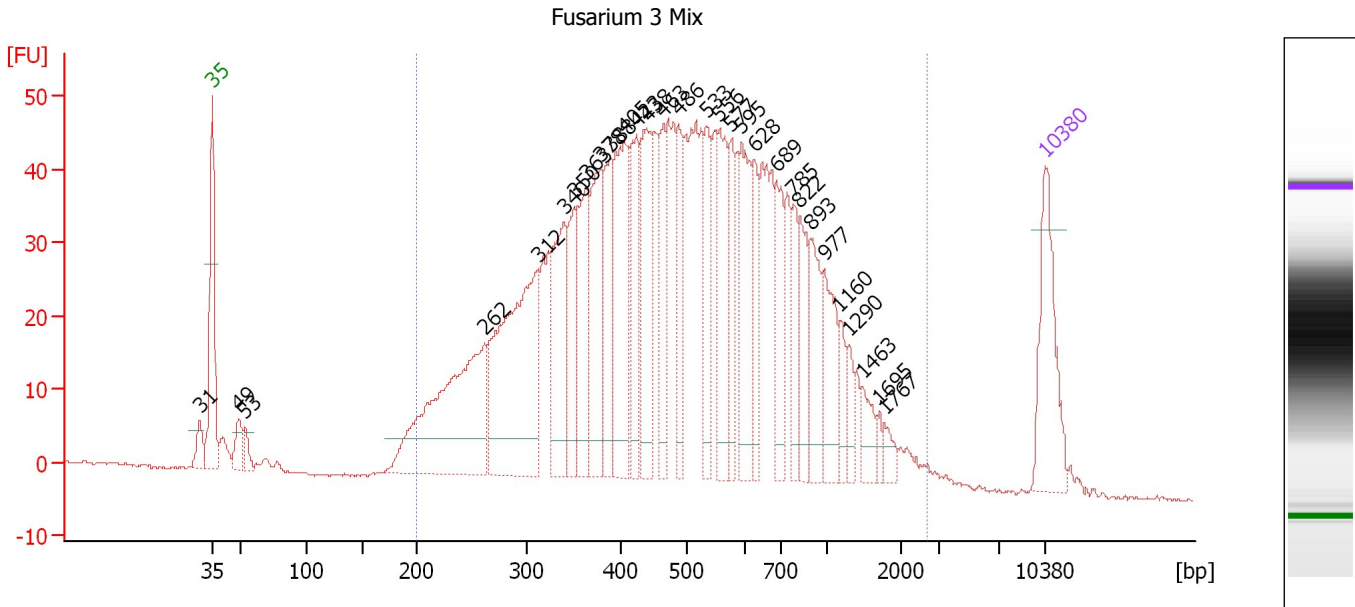
**Region table for sample 9 : C3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
106	1,844	469	10,454.3	2,257.77	1,042.2	92	57.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Fusarium 3 Mix**

Number of peaks found: 30                      Corr. Area 1: 1,648.5  
 Noise: 0.2

**Peak table for sample 10 : Fusarium 3 Mix**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	49	28.53	878.6	
4	53	16.70	474.6	
5	262	274.23	1,588.2	
6	312	287.60	1,396.1	
7	340	127.27	567.6	
8	350	80.27	347.1	
9	363	100.87	420.6	
10	378	108.80	436.1	
11	388	83.69	326.7	
12	405	136.80	512.1	
13	423	85.77	307.1	
14	438	111.50	386.1	
15	463	62.56	204.6	
16	486	61.28	191.2	
17	533	61.86	175.9	
18	556	84.21	229.3	
19	577	51.78	136.0	
20	595	90.34	230.1	
21	628	46.98	113.4	
22	689	60.83	133.9	
23	785	41.97	81.0	
24	822	49.04	90.4	
25	893	56.95	96.7	
26	977	58.31	90.5	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad


Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 10 : Fusarium 3 Mix

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,160	20.14	26.3	
28	1,290	17.76	20.9	
29	1,463	21.21	22.0	
30	1,695	7.15	6.4	
31	1,767	10.90	9.3	
32	10,380	75.00	10.9	Upper Marker

#### Region table for sample 10 : Fusarium 3 Mix

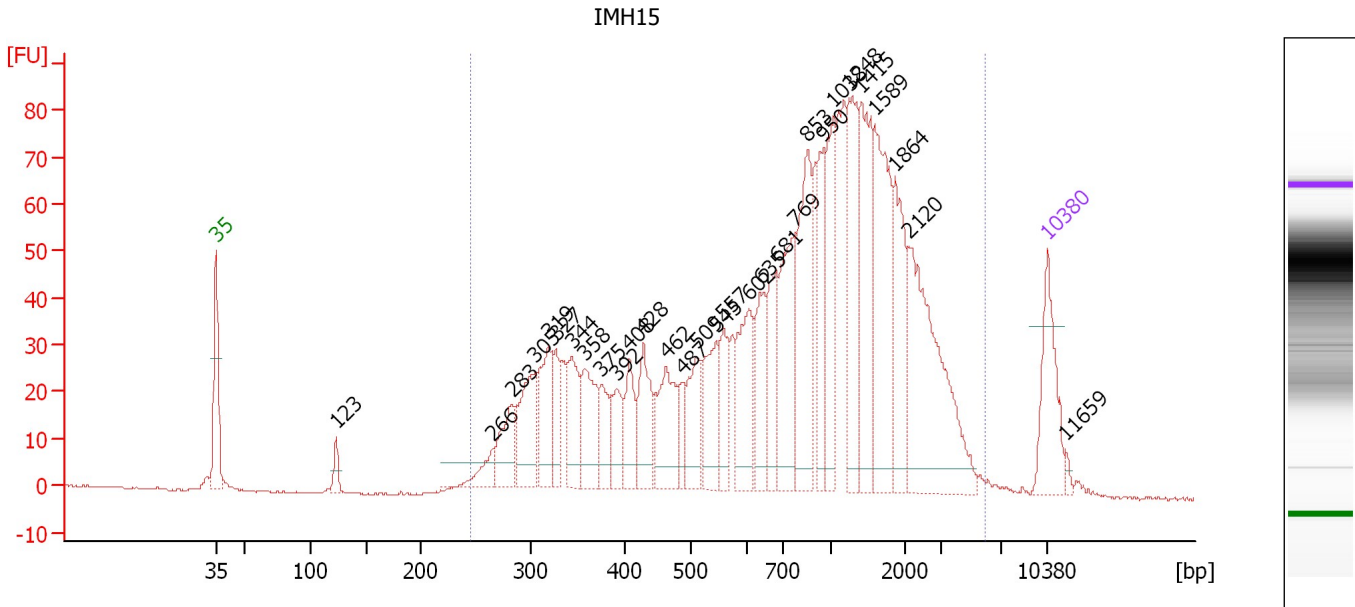
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	2,679	563	10,546.3	2,940.48	 1,648.5	96	57.7



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
 Modified: 5/30/2014 9:27:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : IMH15**

Number of peaks found: 30                      Corr. Area 1: 1,825.5  
 Noise: 0.2

**Peak table for sample 11 : IMH15**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	123	24.98	307.0	
3	266	31.68	180.4	
4	283	67.63	361.9	
5	305	105.49	523.3	
6	319	91.81	436.1	
7	327	44.88	207.7	
8	344	76.59	337.0	
9	358	85.23	360.8	
10	375	43.28	174.7	
11	392	49.15	190.1	
12	408	54.21	201.5	
13	428	78.42	277.4	
14	462	99.89	327.5	
15	487	28.24	87.8	
16	509	70.37	209.4	
17	545	79.05	219.8	
18	557	57.52	156.4	
19	602	103.29	259.9	
20	635	73.85	176.2	
21	681	78.44	174.5	
22	769	130.04	256.3	
23	853	162.00	287.8	
24	950	67.35	107.4	
25	1,038	106.22	155.0	
26	1,248	121.97	148.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad


Created: 5/30/2014 8:33:10 AM  
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### Electropherogram Summary Continued ...

#### ... Peak table for sample 11 : IMH15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,415	145.02	155.3	
28	1,589	158.31	151.0	
29	1,864	101.03	82.1	
30	2,120	213.89	152.8	
31	10,380	75.00	10.9	Upper Marker
32	11,659	0.00	0.0	

#### Region table for sample 11 : IMH15

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
245	5,909	1,105	7,261.5	2,892.65	 1,825.5	98	75.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-30\2014-05-30\_003.xad

Created: 5/30/2014 8:33:10 AM  
Modified: 5/30/2014 9:27:25 AM

**Gel Image**

