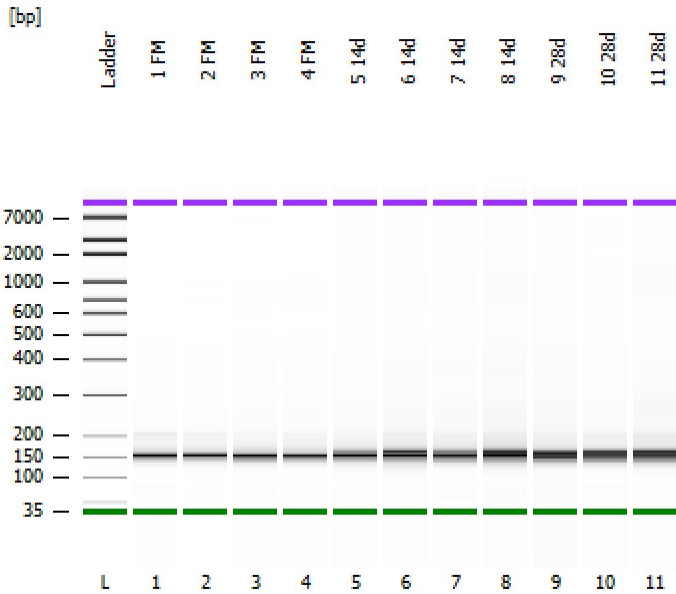


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
Modified: 8/14/2020 10:19:42 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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

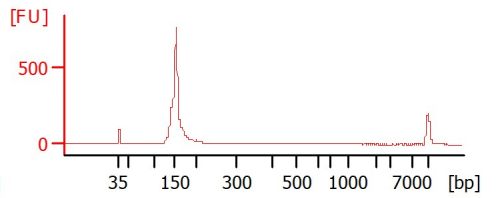
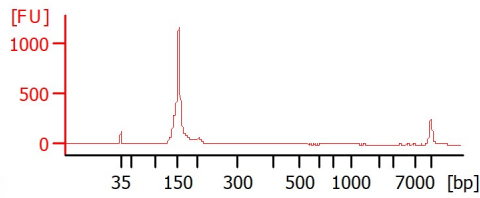
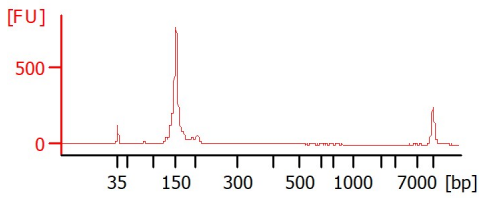
Chip Information:

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

1 FM

2 FM

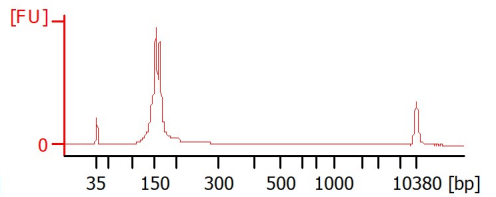
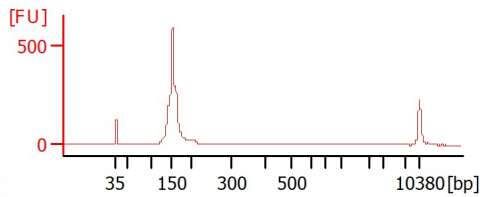
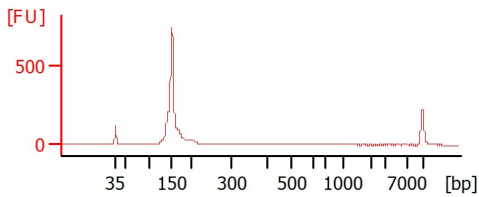
3 FM



4 FM

5 14d

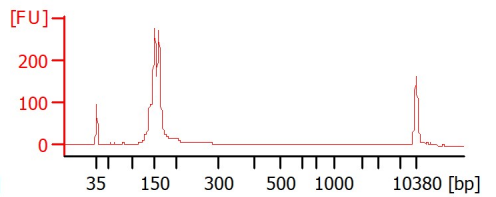
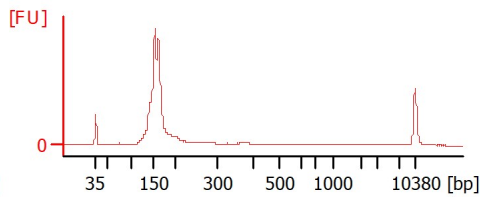
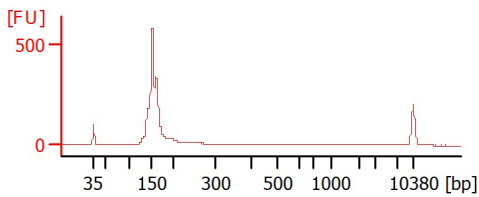
6 14d



7 14d

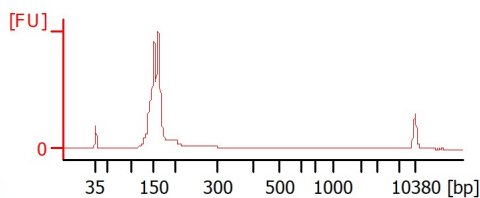
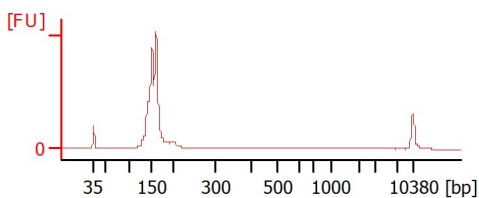
8 14d

9 28d



10 28d

11 28d



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1 FM		<input type="checkbox"/>	✓			
2 FM		<input type="checkbox"/>	✓			
3 FM		<input type="checkbox"/>	✓			
4 FM		<input type="checkbox"/>	✓			
5 14d		<input type="checkbox"/>	✓			
6 14d		<input type="checkbox"/>	✓			
7 14d		<input type="checkbox"/>	✓			
8 14d		<input type="checkbox"/>	✓			
9 28d		<input type="checkbox"/>	✓			
10 28d		<input type="checkbox"/>	✓			
11 28d		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 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

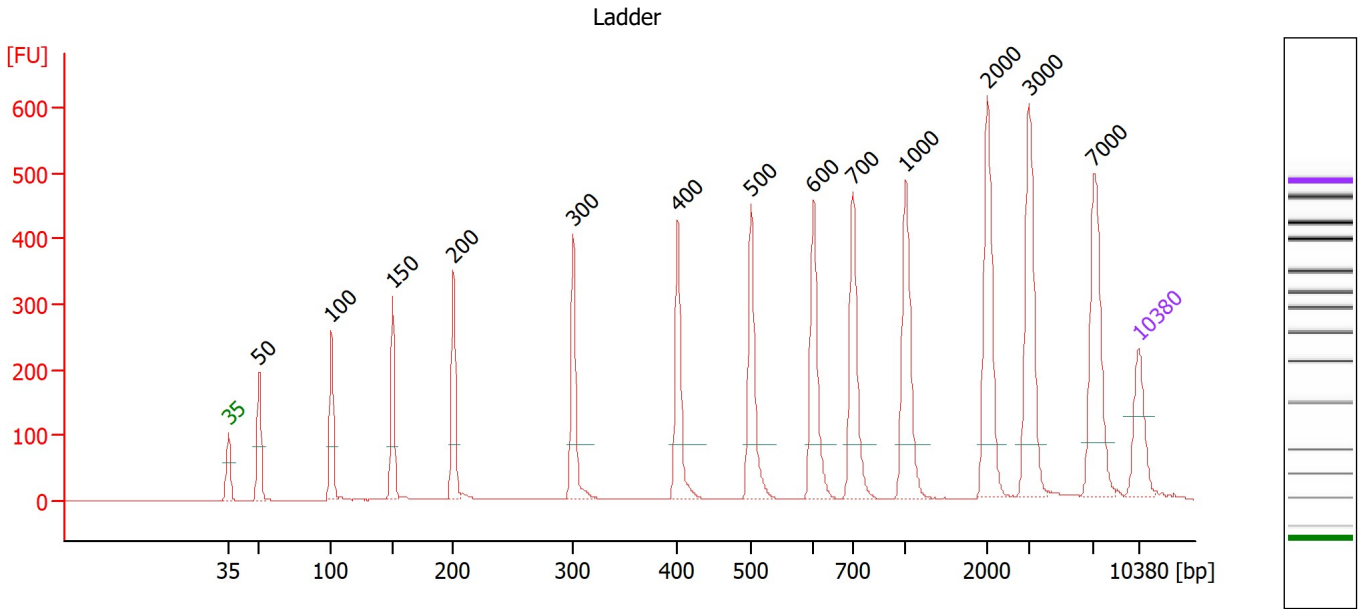
Ladder

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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

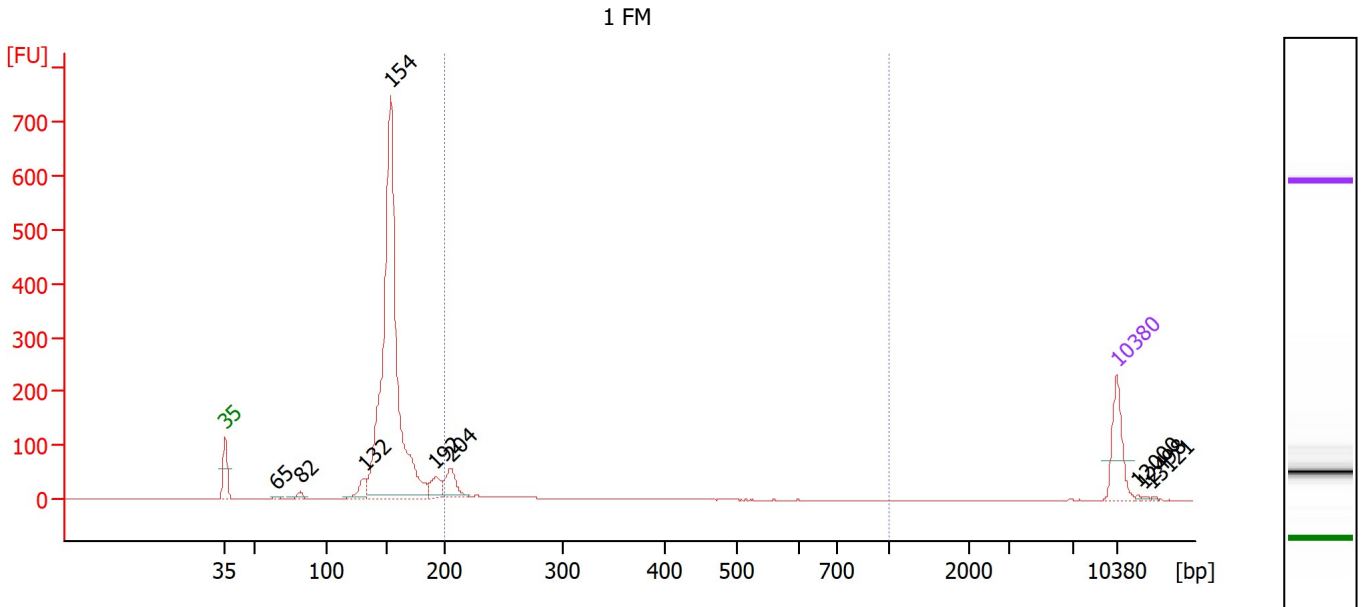
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1 FM

Number of peaks found: 9 Corr. Area 1: 214.8
 Noise: 0.4

Peak table for sample 1 : 1 FM

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	65	6.45	149.3	
3	82	15.33	283.5	
4	132	41.86	481.2	
5	154	1,301.53	12,804.8	
6	192	45.70	361.5	
7	204	67.74	502.7	
8	10,380	75.00	10.9	Upper Marker
9	12,000	0.00	0.0	
10	12,498	0.00	0.0	
11	13,121	0.00	0.0	

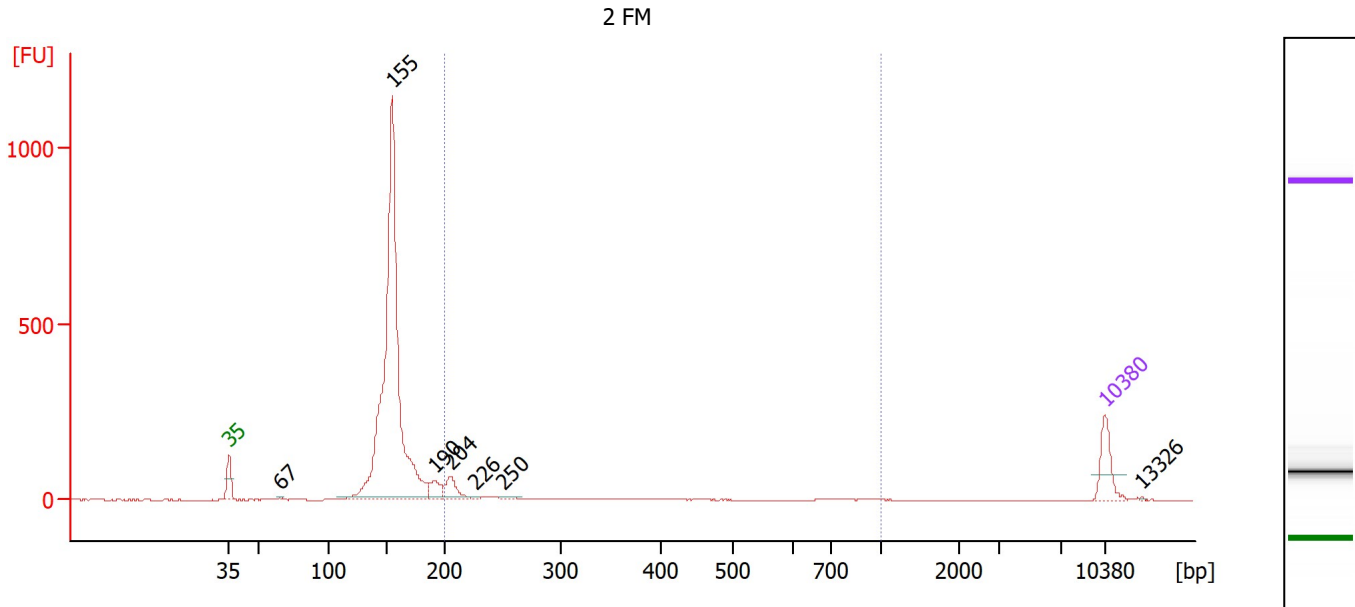
Region table for sample 1 : 1 FM

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	214.8	10	292	45.0	137.36	833.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2 FM

Number of peaks found: 7 Corr. Area 1: 284.1
 Noise: 0.5

Peak table for sample 2 : 2 FM

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	67	3.38	76.8	
3	155	1,821.48	17,862.9	
4	190	55.40	441.1	
5	204	75.30	558.1	
6	226	5.50	36.9	
7	250	8.89	53.9	
8	10,380	75.00	10.9	Upper Marker
9	13,326	0.00	0.0	

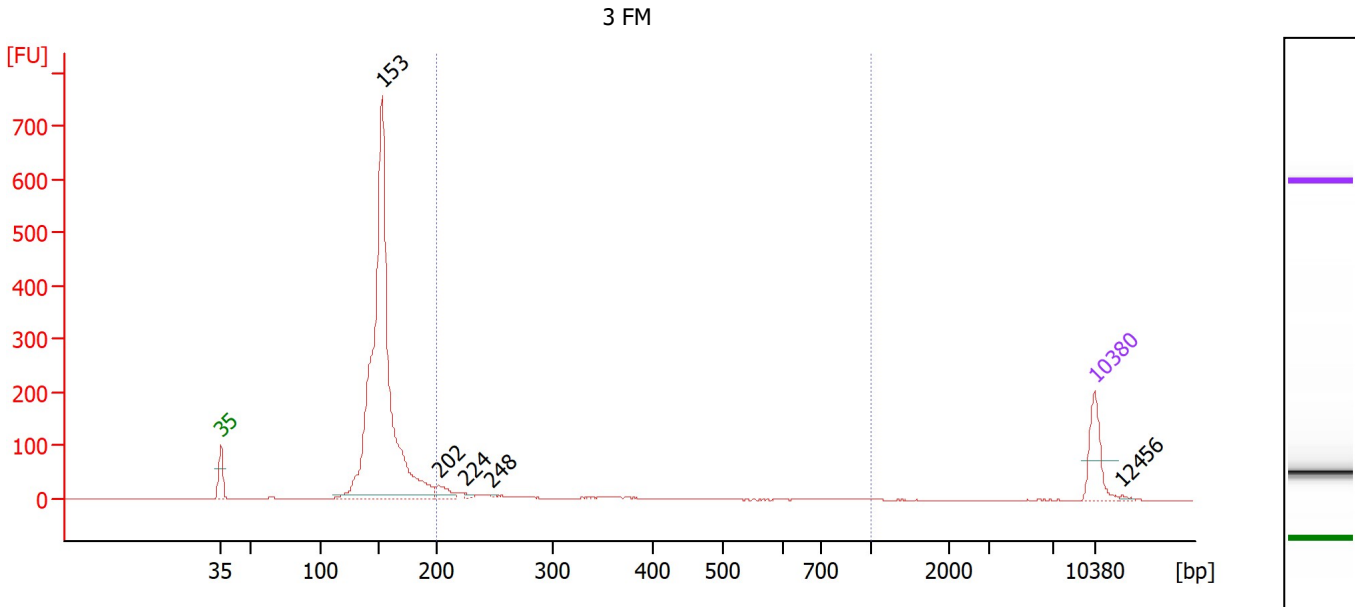
Region table for sample 2 : 2 FM

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	284.1	9	311	51.6	167.59	992.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3 FM

Number of peaks found: 5 Corr. Area 1: 190.5
 Noise: 0.4

Peak table for sample 3 : 3 FM

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	153	1,564.84	15,480.8	
3	202	36.59	275.1	
4	224	7.47	50.5	
5	248	2.64	16.2	
6	10,380	75.00	10.9	Upper Marker
7	12,456	0.00	0.0	

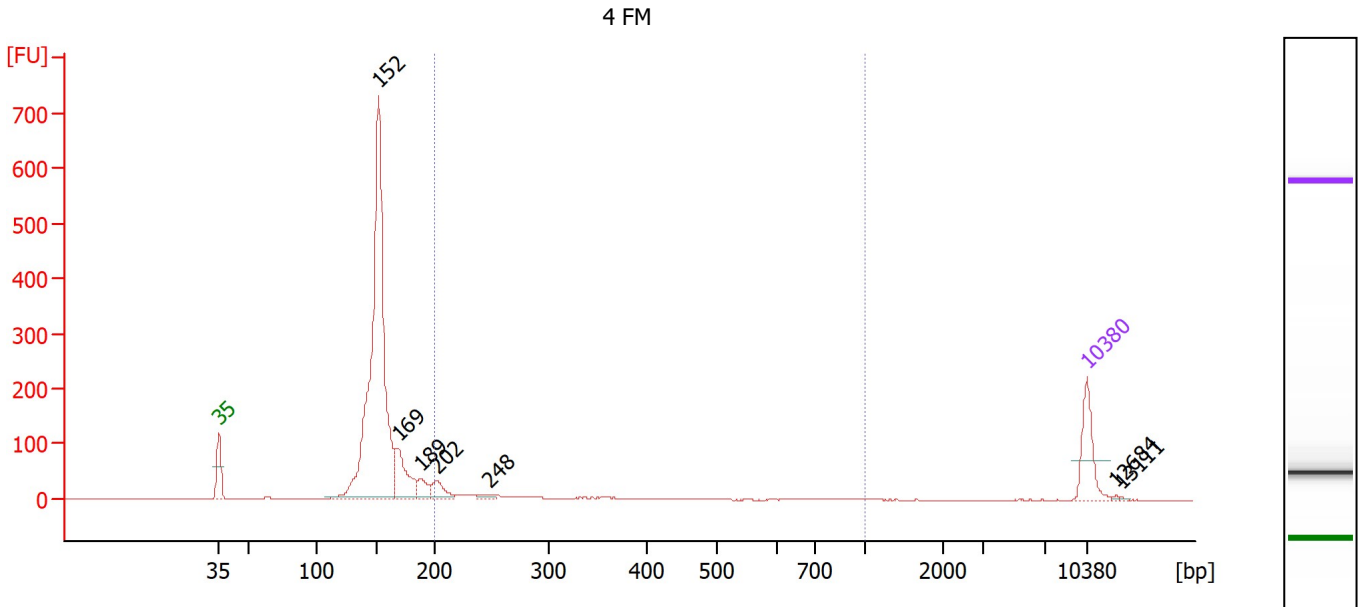
Region table for sample 3 : 3 FM

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	190.5	8	317	48.2	122.90	705.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 4 FM

Number of peaks found: 7 Corr. Area 1: 189.5
 Noise: 0.4

Peak table for sample 4 : 4 FM

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	152	1,177.93	11,715.9	
3	169	134.41	1,202.6	
4	189	39.40	315.7	
5	202	46.23	346.0	
6	248	10.21	62.3	
7	10,380	75.00	10.9	Upper Marker
8	12,684	0.00	0.0	
9	13,111	0.00	0.0	

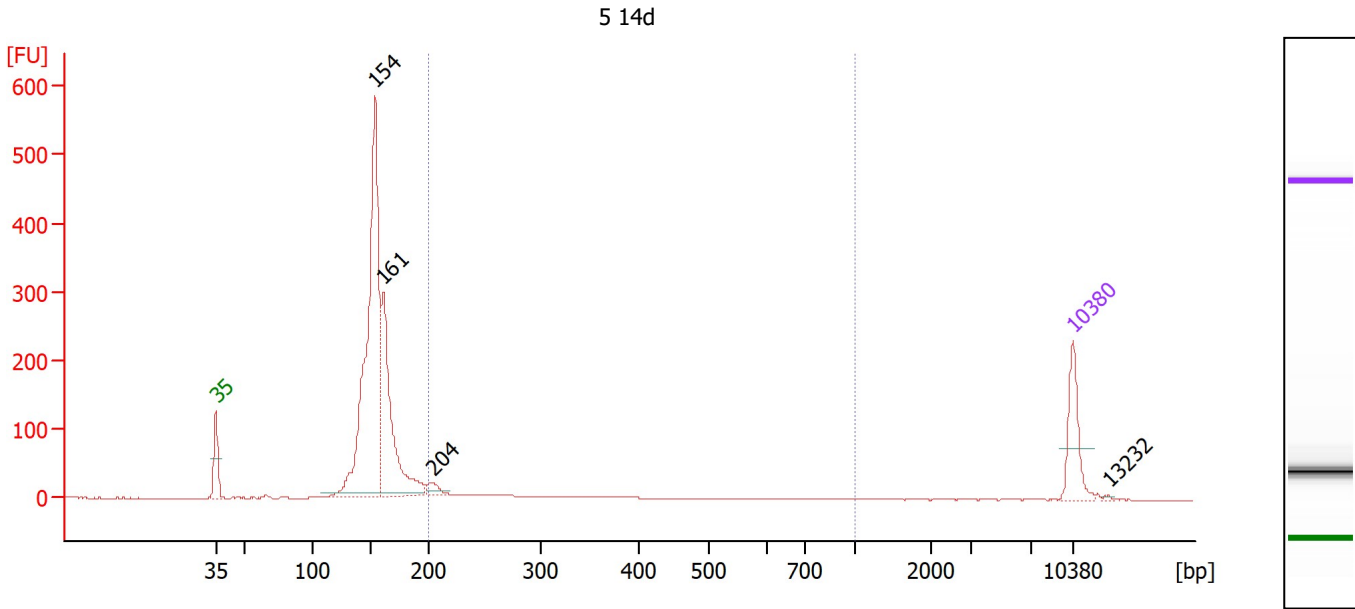
Region table for sample 4 : 4 FM

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	189.5	9	323	51.5	118.14	677.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 5 14d

Number of peaks found: 4 Corr. Area 1: 178.7
 Noise: 0.3

Peak table for sample 5 : 5 14d

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	154	888.13	8,735.4	
3	161	389.29	3,663.0	
4	204	23.86	177.3	
5	10,380	75.00	10.9	Upper Marker
6	13,232	0.00	0.0	

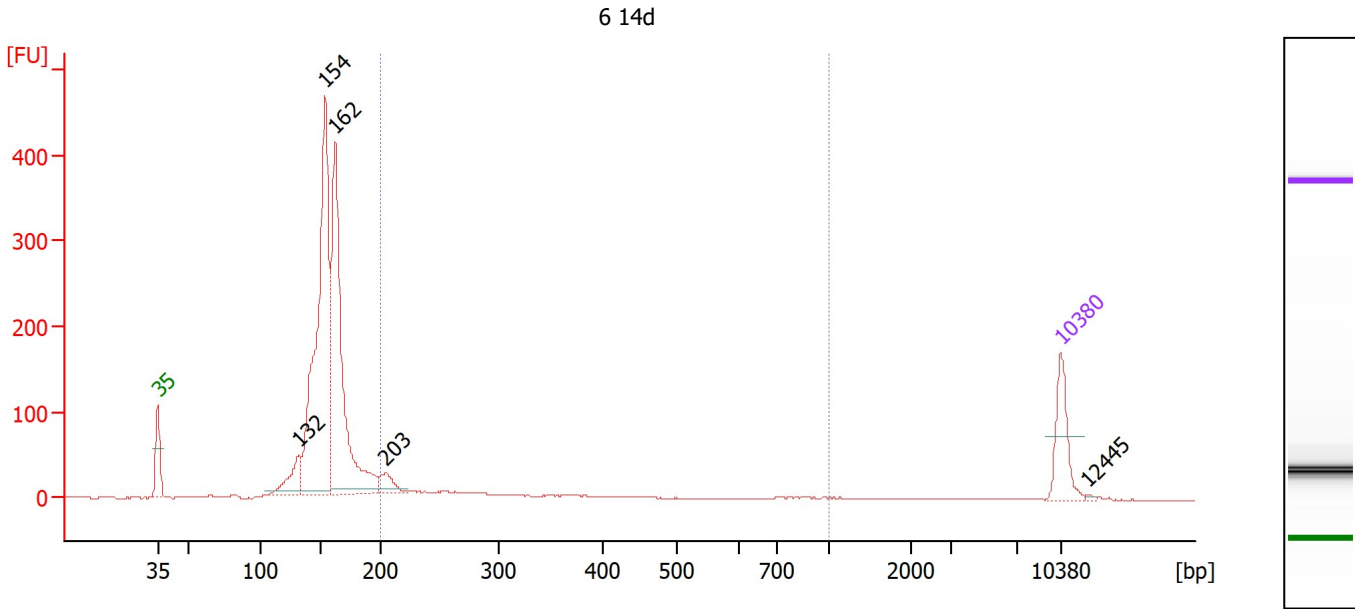
Region table for sample 5 : 5 14d

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	178.7	9	337	51.4	109.89	611.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 6 14d

Number of peaks found: 5 Corr. Area 1: 246.1
 Noise: 0.3

Peak table for sample 6 : 6 14d

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	132	92.36	1,060.4	
3	154	845.79	8,318.4	
4	162	658.16	6,151.8	
5	203	38.52	287.1	
6	10,380	75.00	10.9	Upper Marker
7	12,445	0.00	0.0	

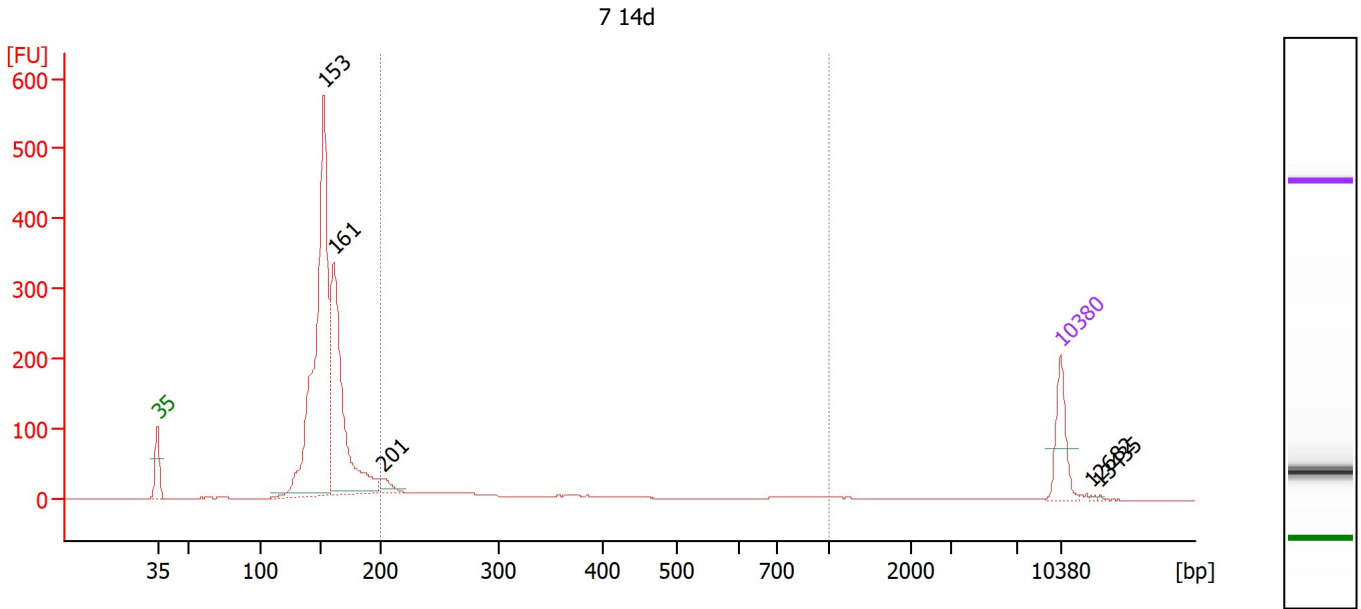
Region table for sample 6 : 6 14d

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	246.1	12	345	50.8	188.91	1,032.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 7 14d

Number of peaks found: 5 Corr. Area 1: 264.4
 Noise: 0.4

Peak table for sample 7 : 7 14d

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	153	1,029.26	10,210.4	
3	161	594.79	5,603.0	
4	201	26.52	199.5	
5	10,380	75.00	10.9	Upper Marker
6	12,682	0.00	0.0	
7	13,435	0.00	0.0	

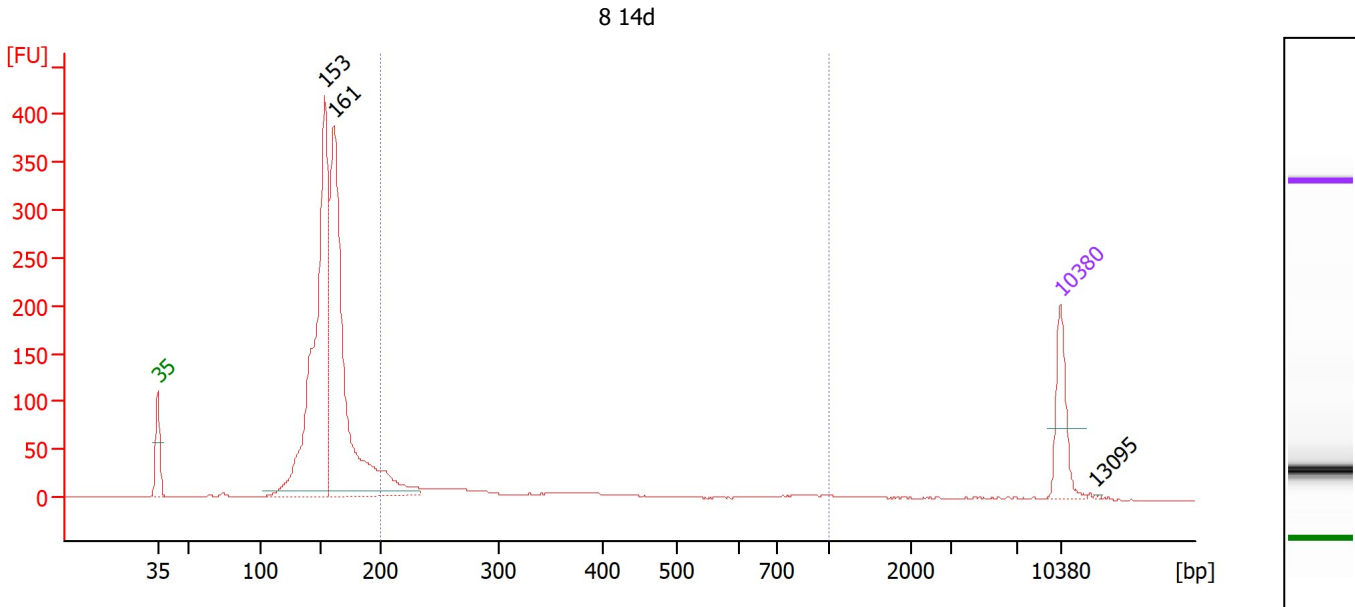
Region table for sample 7 : 7 14d

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	264.4	12	360	52.7	193.84	1,040.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 8 14d

Number of peaks found: 3 Corr. Area 1: 300.1
 Noise: 0.3

Peak table for sample 8 : 8 14d

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	153	810.35	8,001.8	
3	161	801.31	7,535.9	
4	10,380	75.00	10.9	Upper Marker
5	13,095	0.00	0.0	

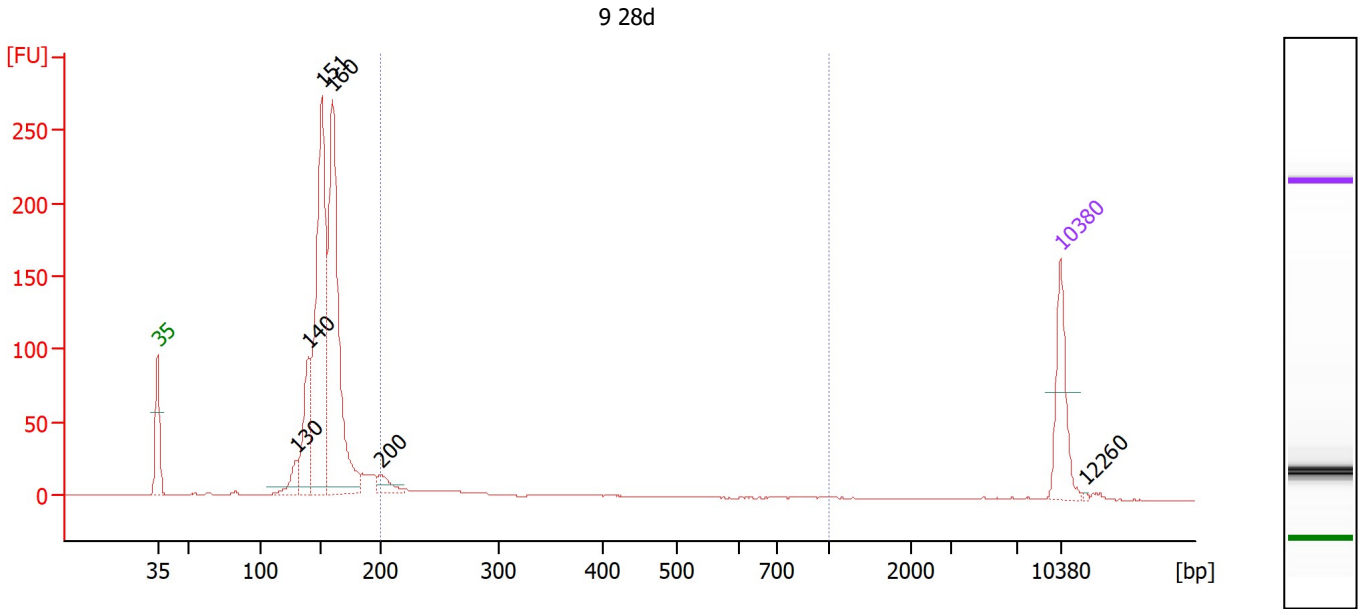
Region table for sample 8 : 8 14d

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	300.1	14	361	51.5	212.63	1,131.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 9 28d

Number of peaks found: 6 Corr. Area 1: 103.3
 Noise: 0.3

Peak table for sample 9 : 9 28d

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	130	35.66	416.2	
3	140	138.32	1,498.4	
4	151	477.69	4,797.3	
5	160	490.68	4,645.8	
6	200	25.72	195.3	
7	10,380	75.00	10.9	Upper Marker
8	12,260	0.00	0.0	

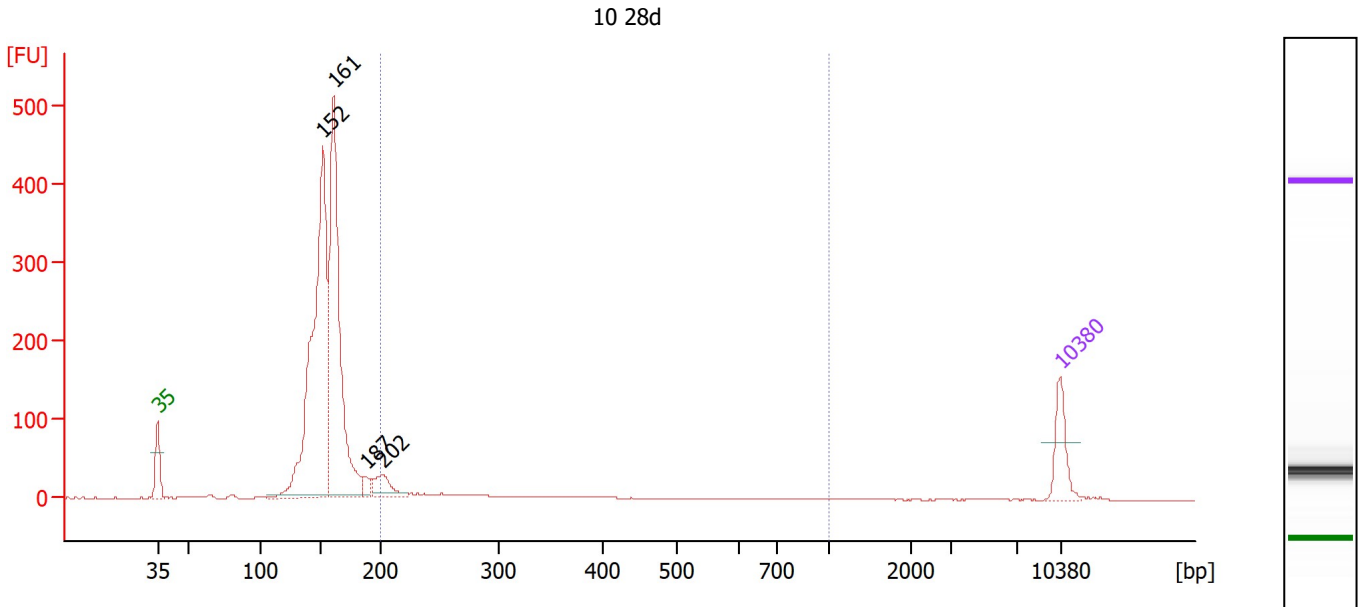
Region table for sample 9 : 9 28d

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	103.3	8	333	50.0	96.04	535.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 10 28d

Number of peaks found: 4 Corr. Area 1: 174.6
 Noise: 0.3

Peak table for sample 10 : 10 28d

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	152	1,116.24	11,142.5	
3	161	924.76	8,707.6	
4	187	33.01	267.0	
5	202	80.97	608.1	
6	10,380	75.00	10.9	Upper Marker

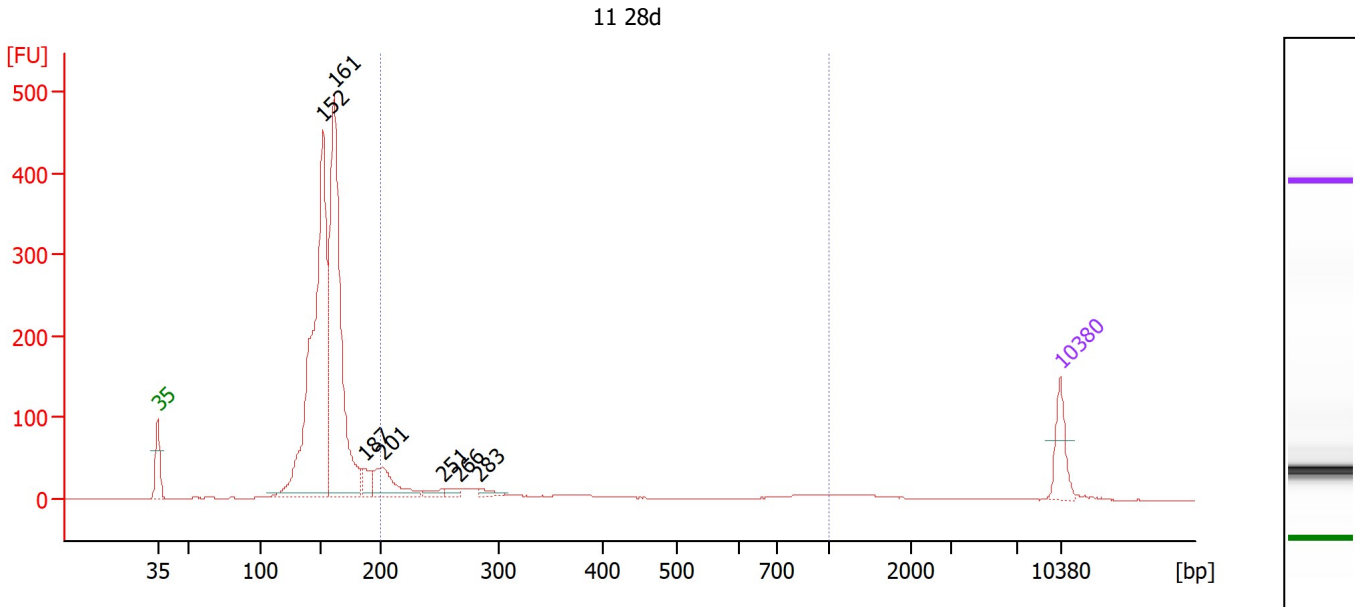
Region table for sample 10 : 10 28d

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	174.6	8	326	49.2	159.56	900.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 11 28d

Number of peaks found: 7 Corr. Area 1: 324.9
 Noise: 0.3

Peak table for sample 11 : 11 28d

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	152	1,299.09	12,937.6	
3	161	1,083.70	10,180.4	
4	187	51.55	418.1	
5	201	138.24	1,040.6	
6	251	21.99	132.6	
7	266	19.72	112.3	
8	283	19.00	101.7	
9	10,380	75.00	10.9	Upper Marker

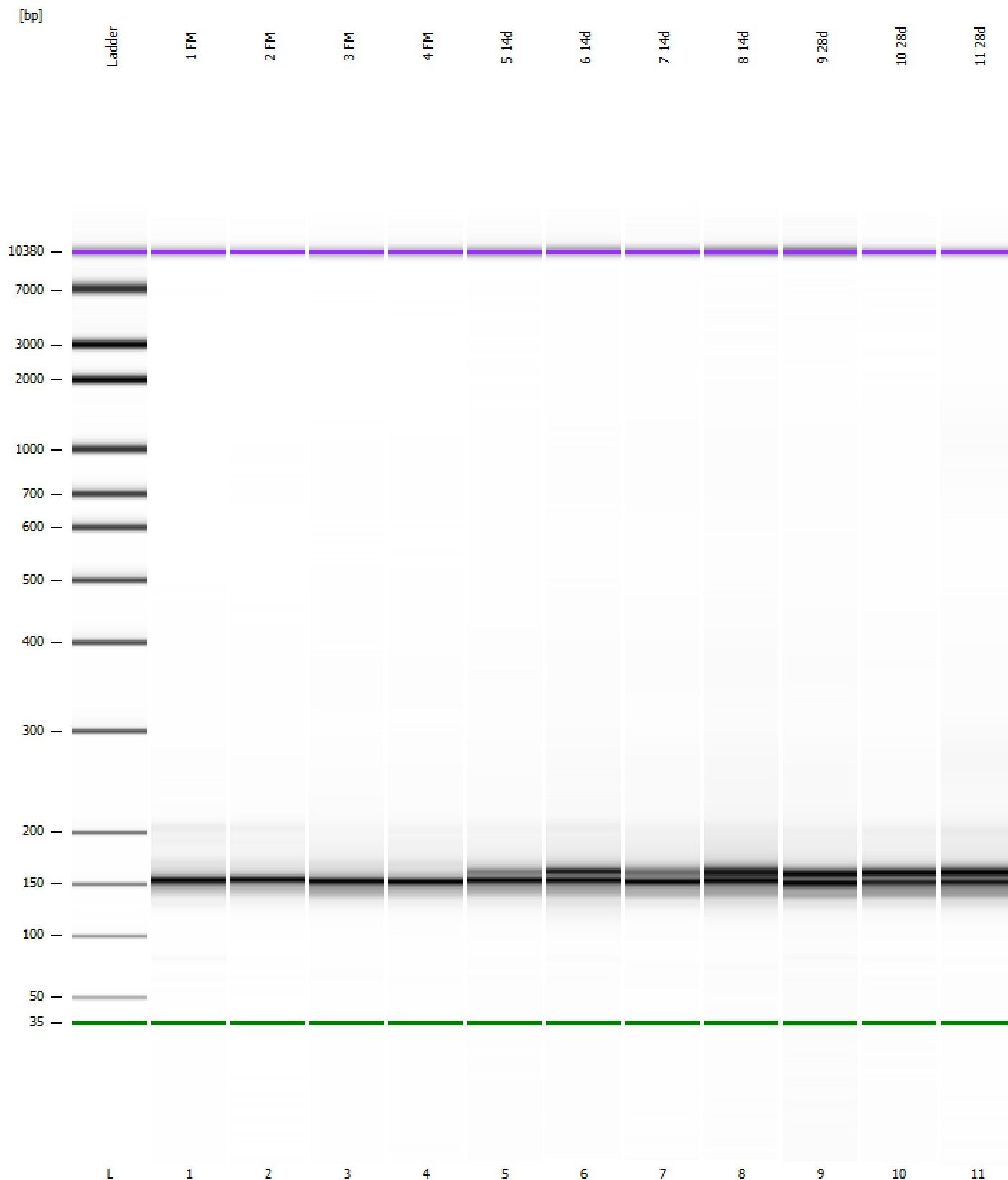
Region table for sample 11 : 11 28d

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	324.9	13	359	55.8	334.82	1,814.2	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
Modified: 8/14/2020 10:19:42 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-08-14_003.xad

Created: 8/14/2020 9:39:19 AM
 Modified: 8/14/2020 10:19:42 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		8/14/2020 10:19:40 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-08-14\Bioanalyze r1_High Sensitivity DNA Assay_2020-08-14_003.xad)		Instrument	Run		8/14/2020 9:39:19 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		8/14/2020 9:39:19 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/14/2020 9:39:19 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/14/2020 9:39:19 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/14/2020 9:39:19 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/14/2020 9:39:19 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/14/2020 9:39:19 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB