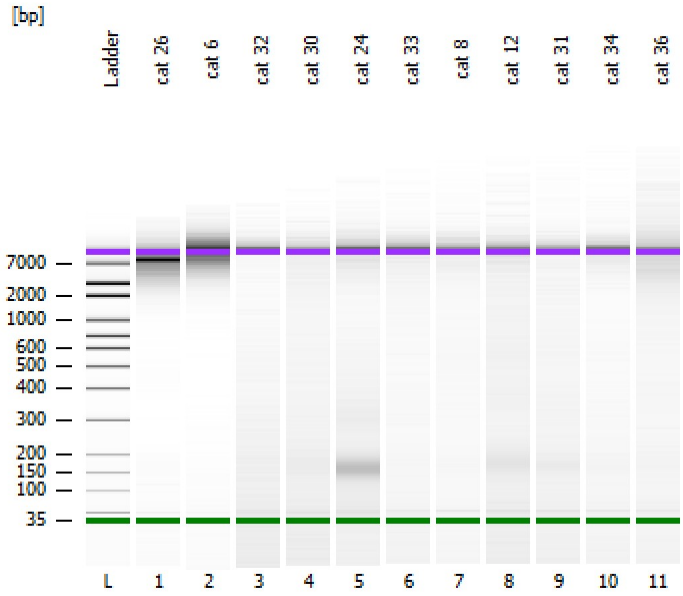
Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electrophoresis File Run Summary



Instrument Information:

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

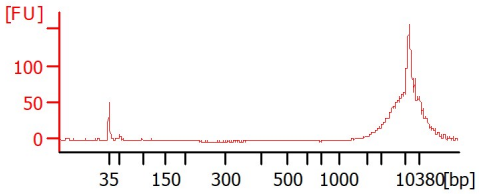
Assay Information:

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

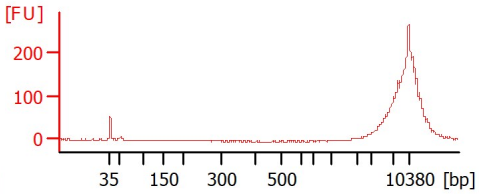
Chip Information:

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

cat 26



cat 6



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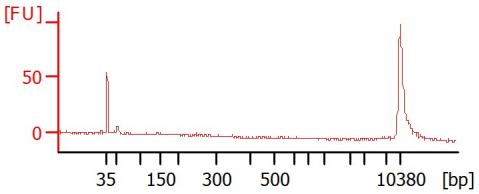

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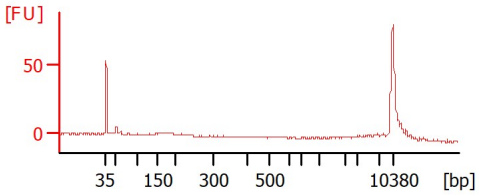
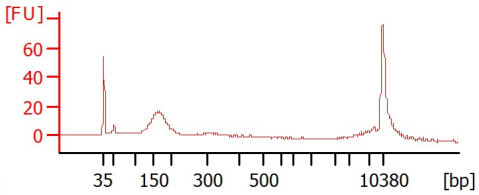
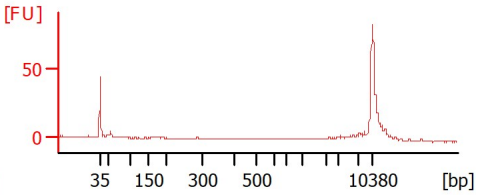


cat 24



cat 33



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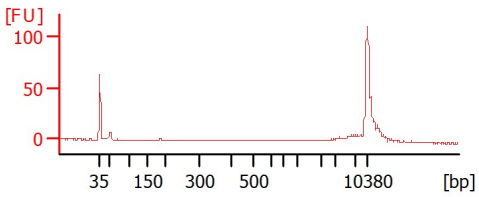
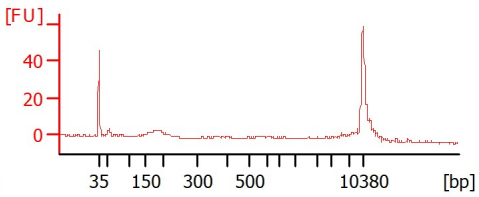
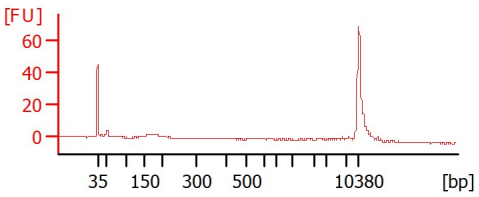


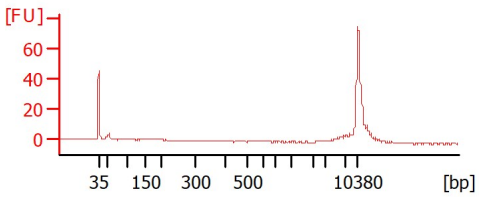
cat 12



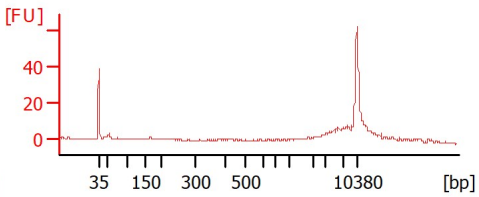
cat 31



cat 34



cat 36



Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
cat 26		☐	✔			
cat 6		☐	✔			
cat 32		☐	✔			
cat 30		☐	✔			
cat 24		☐	✔			
cat 33		☐	✔			
cat 8		☐	✔			
cat 12		☐	✔			
cat 31		☐	✔			
cat 34		☐	✔			
cat 36		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

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

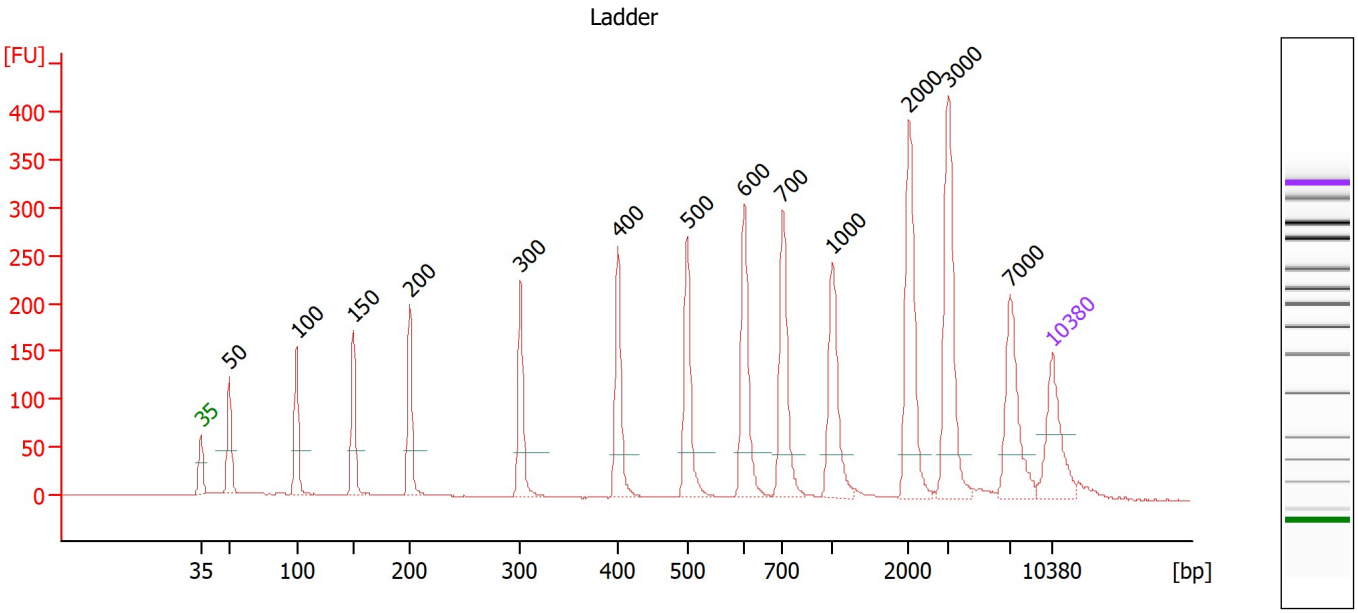
Ladder

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_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

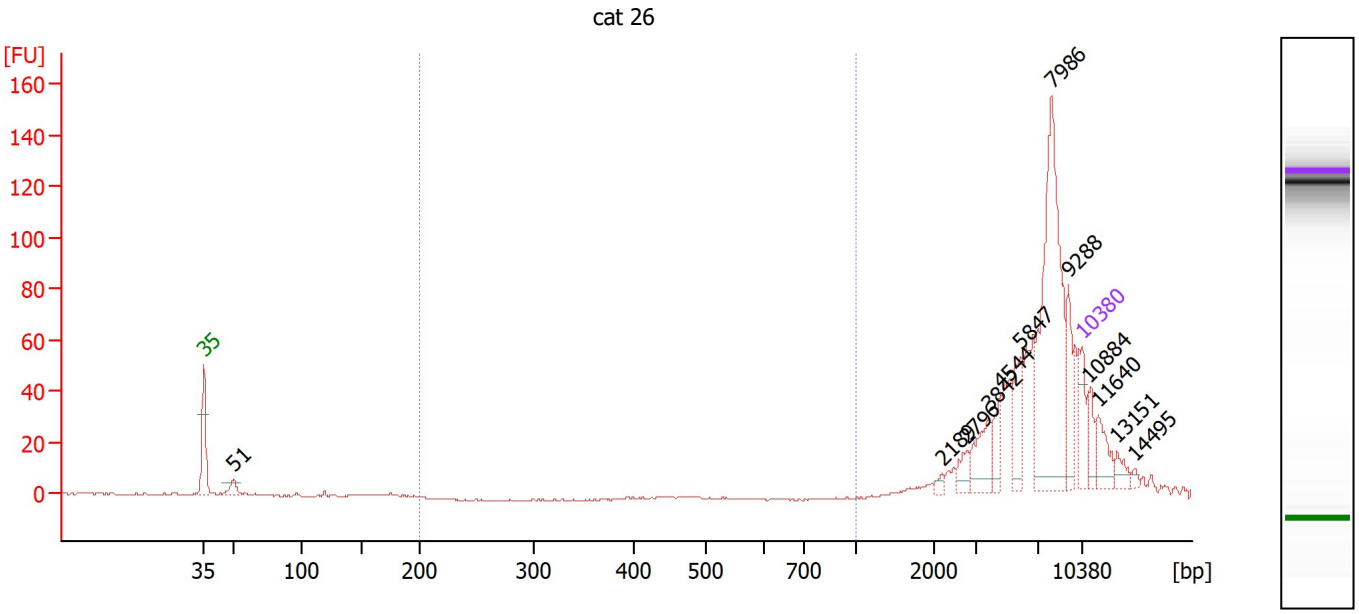
Peak table for Ladder

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_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : cat 26

Number of peaks found:	12	Corr. Area 1:	0.0
Noise:	0.2		

Peak table for sample 1 : cat 26

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	51	49.41	1,482.5	
3	2,189	13.51	9.3	
4	2,796	39.25	21.3	
5	3,842	92.85	36.6	
6	4,544	55.72	18.6	
7	5,847	83.27	21.6	
8	7,986	557.07	105.7	
9	9,288	88.03	14.4	
10	10,380	75.00	10.9	Upper Marker
11	10,884	0.00	0.0	
12	11,640	0.00	0.0	
13	13,151	0.00	0.0	
14	14,495	0.00	0.0	

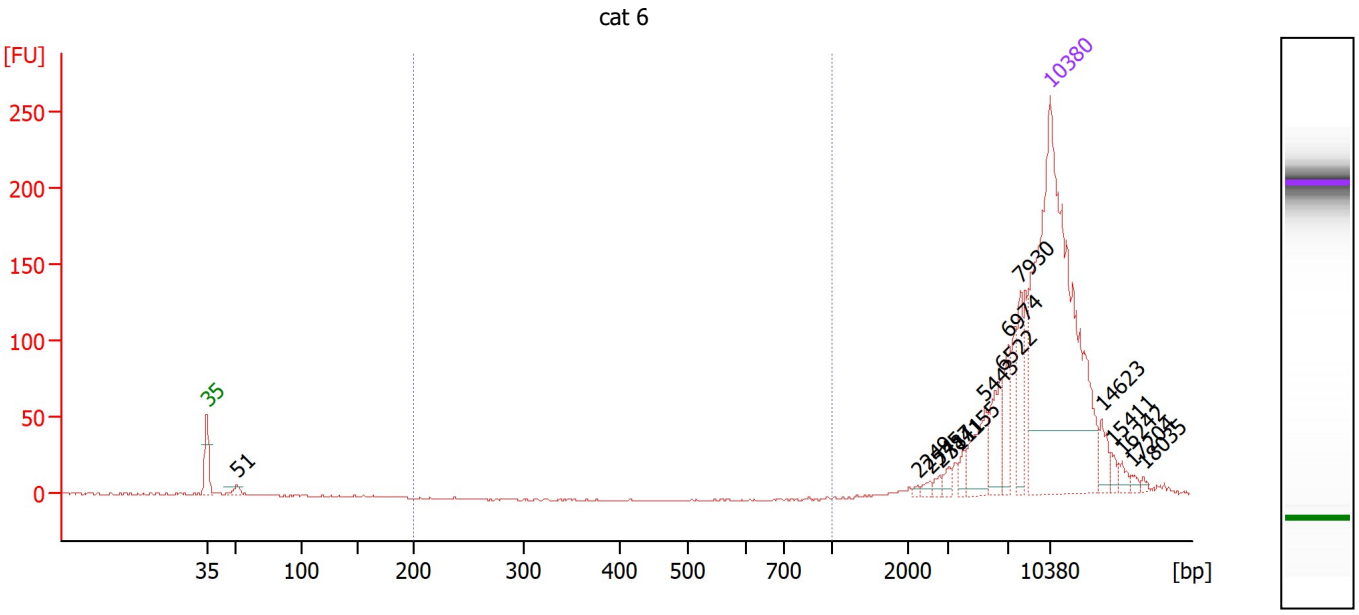
Region table for sample 1 : cat 26

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	0.0	0	0	0.0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : cat 6

Number of peaks found:	15	Corr. Area 1:	0.0
Noise:	0.5		

Peak table for sample 2 : cat 6

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		51	1.91	56.4	
3		2,249	0.44	0.3	
4		2,545	0.83	0.5	
5		2,787	0.94	0.5	
6		3,111	1.34	0.7	
7		4,155	1.63	0.6	
8		5,443	8.01	2.2	
9		6,522	7.48	1.7	
10		6,974	5.79	1.3	
11		7,930	6.66	1.3	
12	▶	10,380	75.00	10.9	Upper Marker
13		14,623	0.00	0.0	
14		15,411	0.00	0.0	
15		16,242	0.00	0.0	
16		17,204	0.00	0.0	
17		18,035	0.00	0.0	

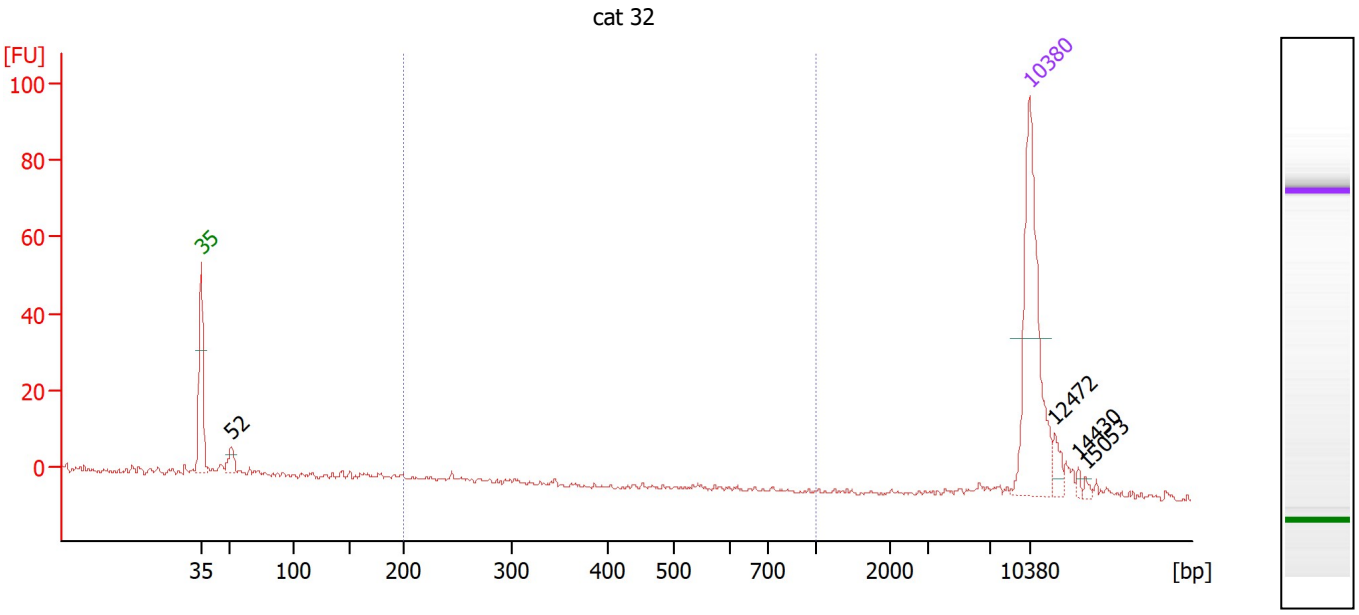
Region table for sample 2 : cat 6

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	0.0	0	0	0.0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : cat 32

Number of peaks found:	4	Corr. Area 1:	5.5
Noise:	0.6		

Peak table for sample 3 : cat 32

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		52	10.76	312.4	
3	▶	10,380	75.00	10.9	Upper Marker
4		12,472	0.00	0.0	
5		14,430	0.00	0.0	
6		15,053	0.00	0.0	

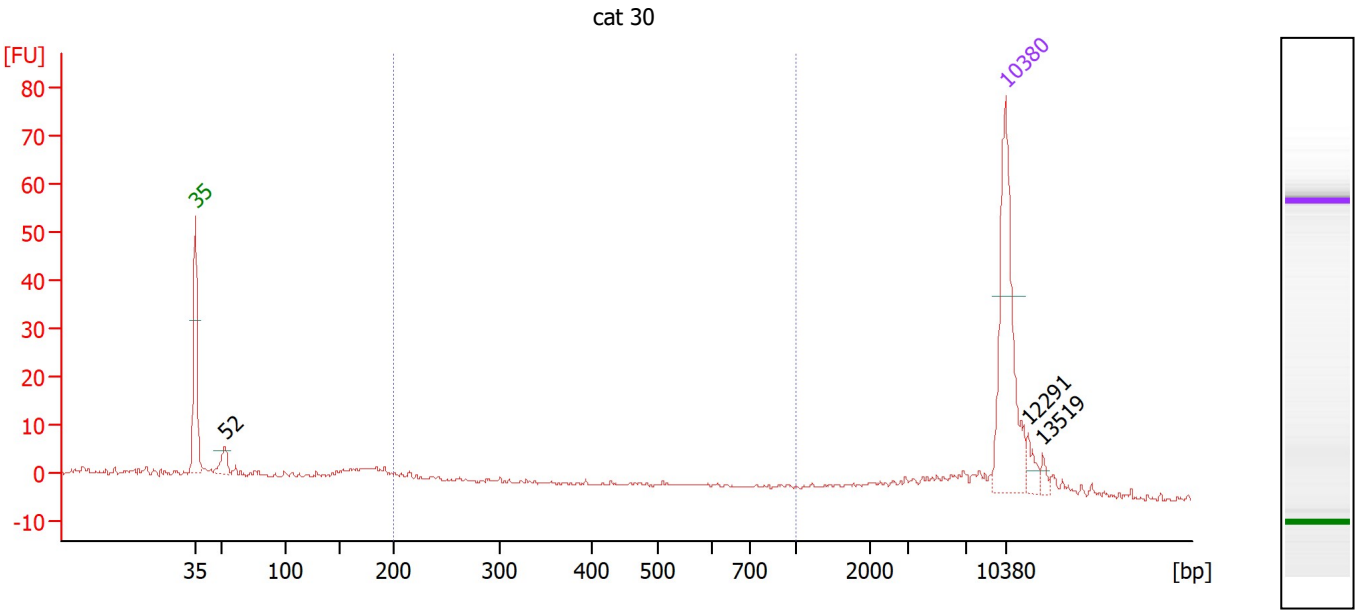
Region table for sample 3 : cat 32

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	5.5	7	332	42.4	5.05	27.2	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : cat 30

Number of peaks found:	3	Corr. Area 1:	11.2
Noise:	0.3		

Peak table for sample 4 : cat 30

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		52	13.98	408.3	
3	▶	10,380	75.00	10.9	Upper Marker
4		12,291	0.00	0.0	
5		13,519	0.00	0.0	

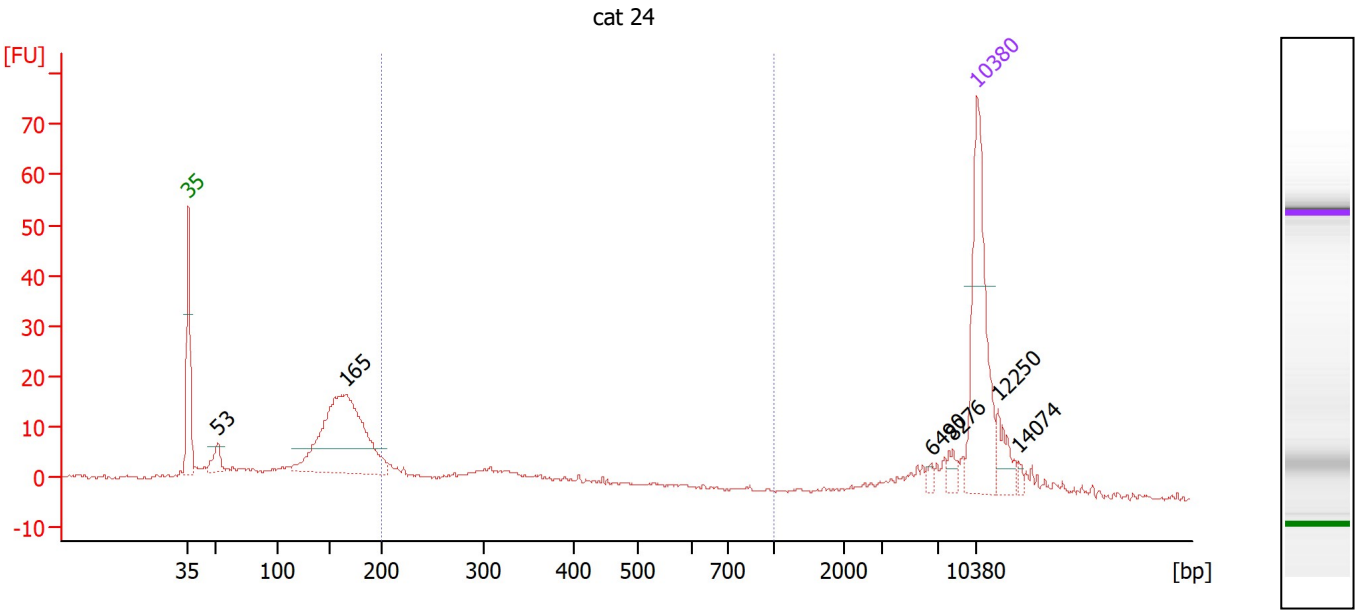
Region table for sample 4 : cat 30

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	11.2	11	516	47.8	13.26	58.7	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : cat 24

Number of peaks found:	6	Corr. Area 1:	69.2
Noise:	0.3		

Peak table for sample 5 : cat 24

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	15.46	446.0	
3	165	181.43	1,662.0	
4	6,490	2.94	0.7	
5	8,276	5.39	1.0	
6	10,380	75.00	10.9	Upper Marker
7	12,250	0.00	0.0	
8	14,074	0.00	0.0	

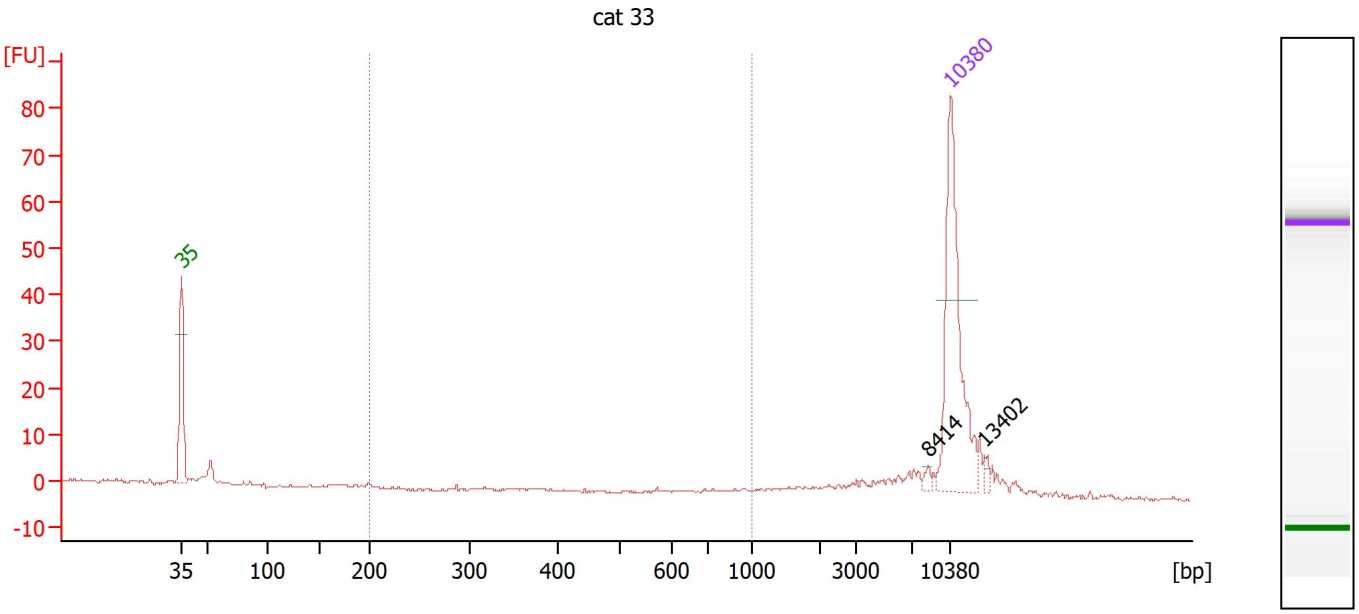
Region table for sample 5 : cat 24

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	69.2	20	345	36.1	83.04	419.6	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : cat 33

Number of peaks found:	2	Corr. Area 1:	2.4
Noise:	0.2		

Peak table for sample 6 : cat 33

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		8,414	2.22	0.4	
3	▶	10,380	75.00	10.9	Upper Marker
4		13,402	0.00	0.0	

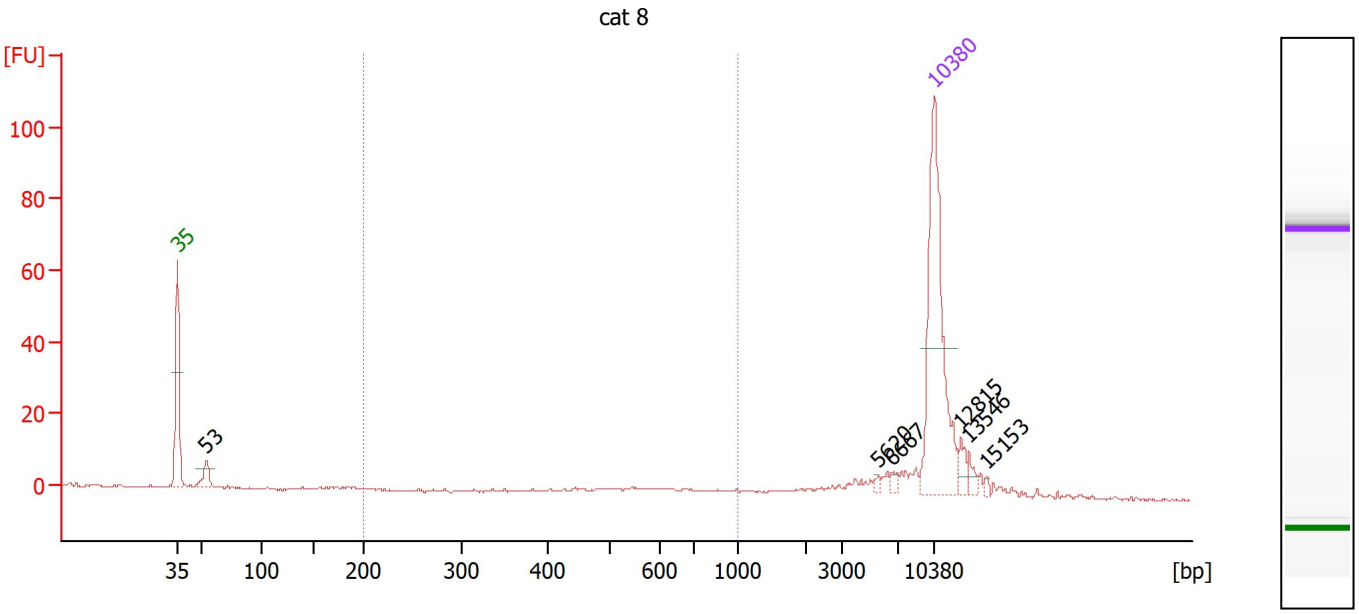
Region table for sample 6 : cat 33

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	2.4	3	791	22.5	2.11	4.7	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : cat 8

Number of peaks found:	6	Corr. Area 1:	14.6
Noise:	0.3		

Peak table for sample 7 : cat 8

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		53	10.32	292.2	
3		5,620	1.35	0.4	
4		6,667	1.83	0.4	
5	▶	10,380	75.00	10.9	Upper Marker
6		12,815	0.00	0.0	
7		13,546	0.00	0.0	
8		15,153	0.00	0.0	

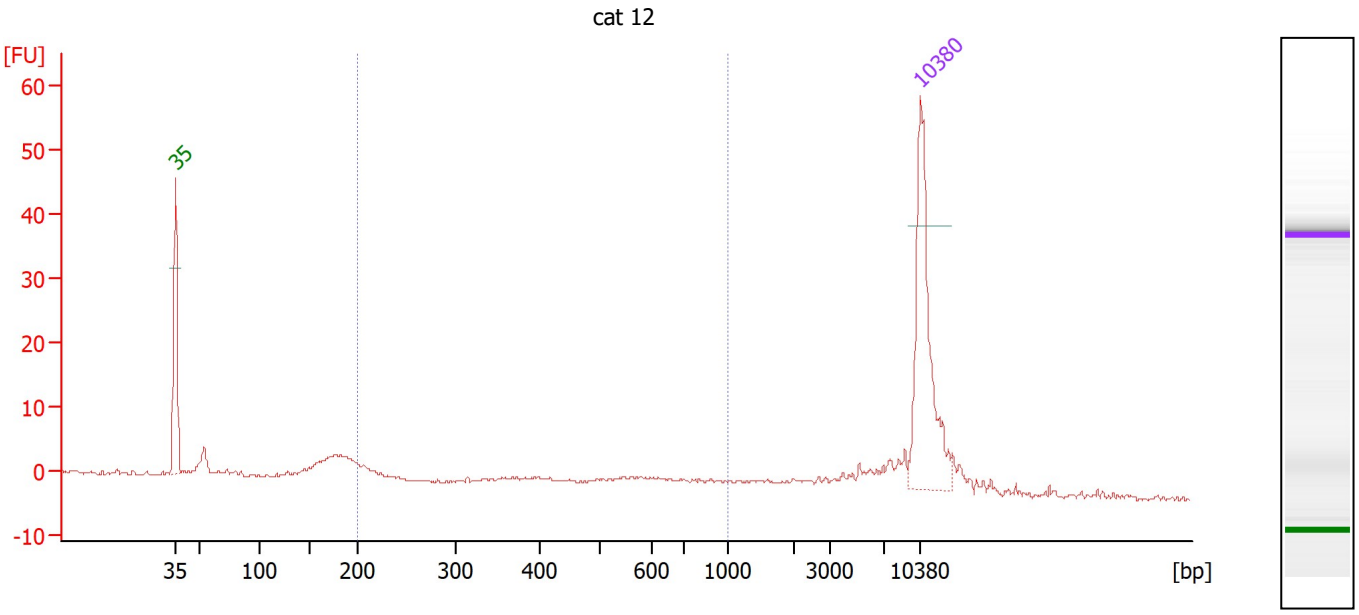
Region table for sample 7 : cat 8

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	14.6	15	612	23.9	9.87	26.1	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : cat 12

Number of peaks found:	0	Corr. Area 1:	27.1
Noise:	0.3		

Peak table for sample 8 : cat 12

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

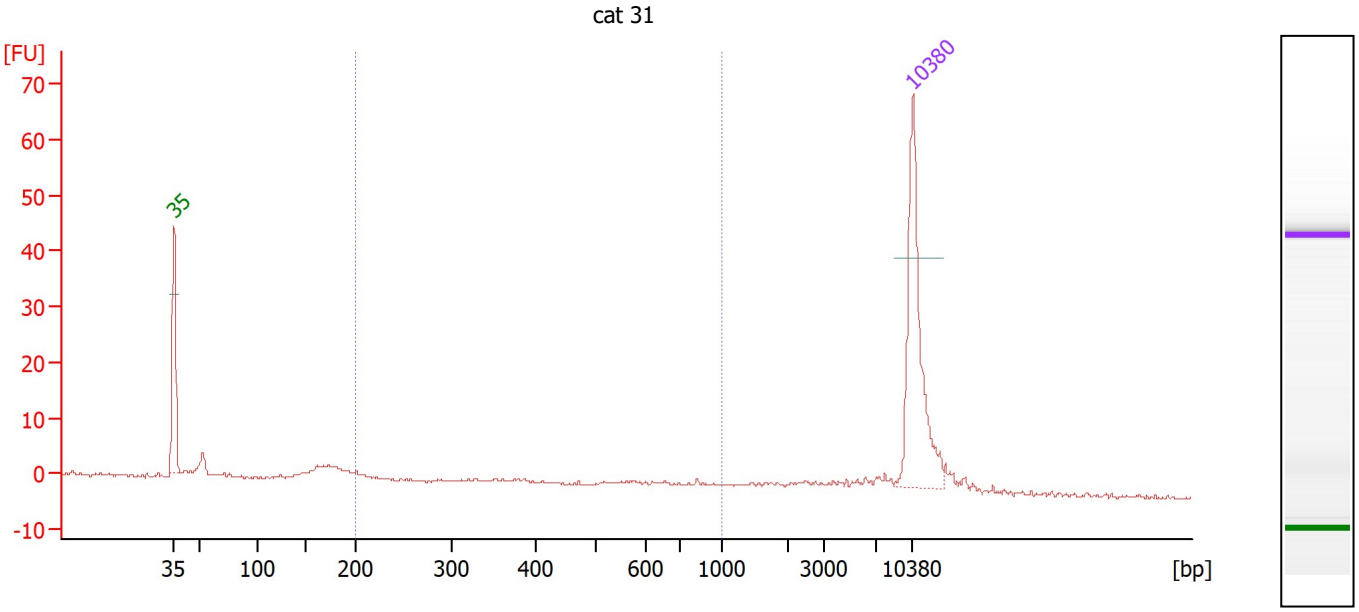
Region table for sample 8 : cat 12

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	27.1	26	516	41.3	36.95	152.5	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : cat 31

Number of peaks found:	0	Corr. Area 1:	18.6
Noise:	0.2		

Peak table for sample 9 : cat 31

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

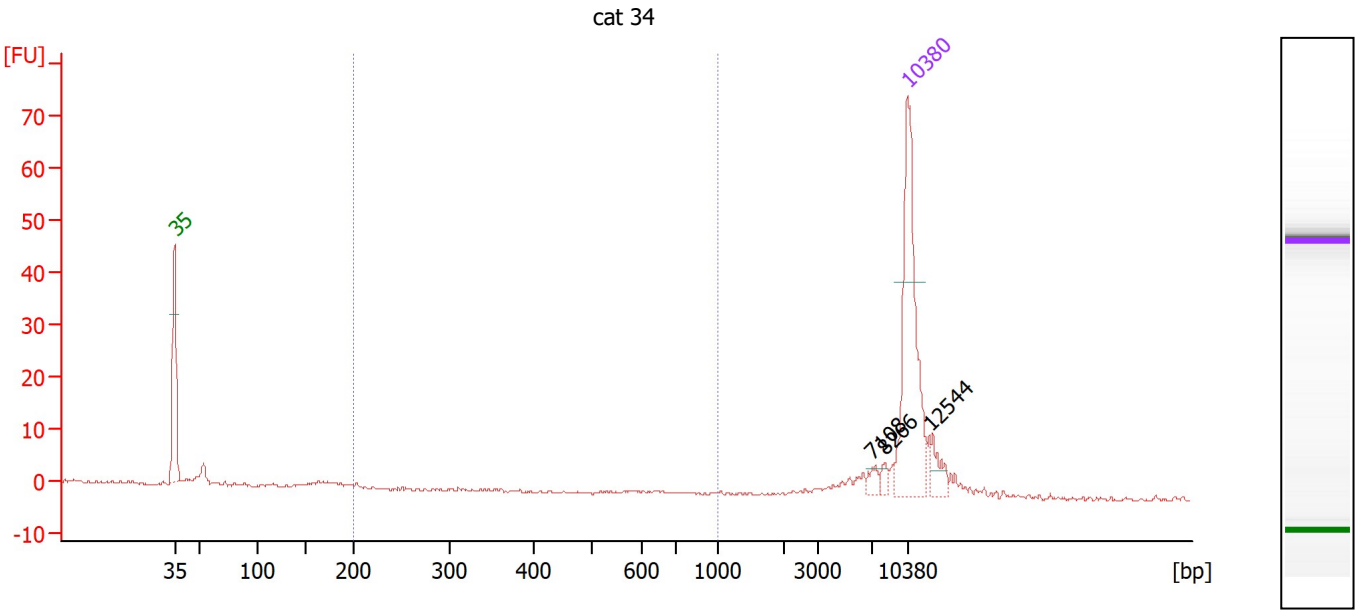
Region table for sample 9 : cat 31

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	18.6	25	502	43.3	24.37	100.5	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : cat 34

Number of peaks found:	3	Corr. Area 1:	0.2
Noise:	0.1		

Peak table for sample 10 : cat 34

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		7,108	4.56	1.0	
3		8,266	3.62	0.7	
4	▶	10,380	75.00	10.9	Upper Marker
5		12,544	0.00	0.0	

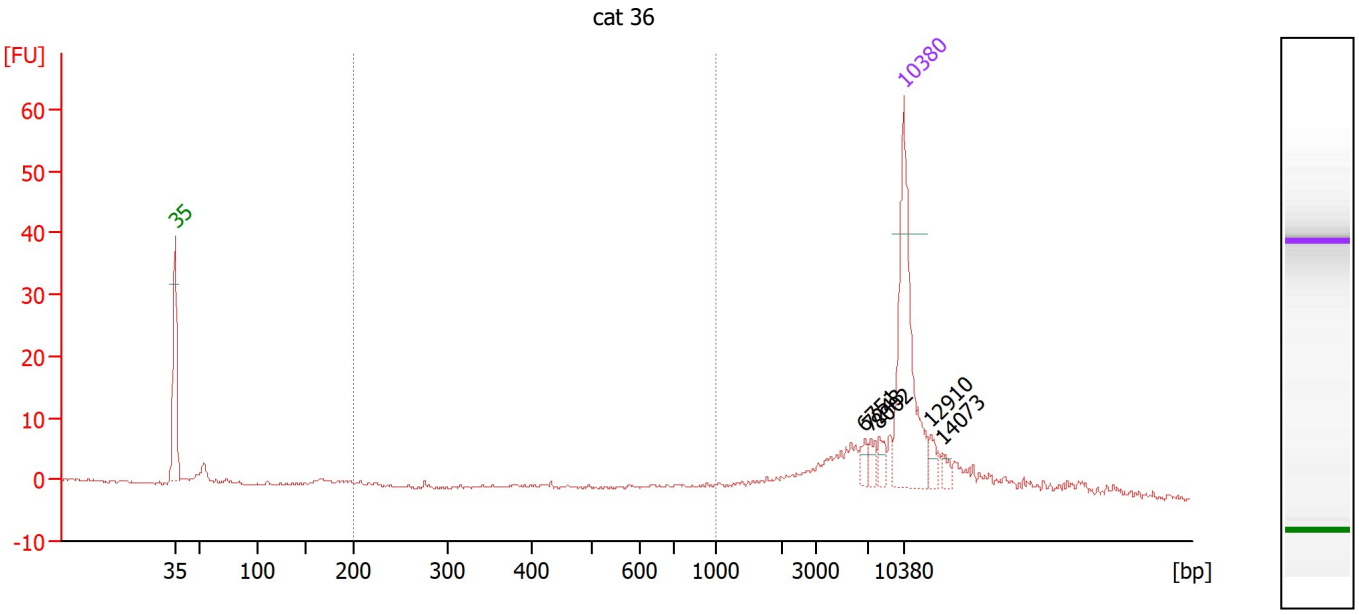
Region table for sample 10 : cat 34

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	0.2	0	203	0.4	0.30	2.3	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : cat 36

Number of peaks found:	5	Corr. Area 1:	11.9
Noise:	0.2		

Peak table for sample 11 : cat 36

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		6,751	5.71	1.3	
3		7,243	4.57	1.0	
4		8,002	5.95	1.1	
5	▶	10,380	75.00	10.9	Upper Marker
6		12,910	0.00	0.0	
7		14,073	0.00	0.0	

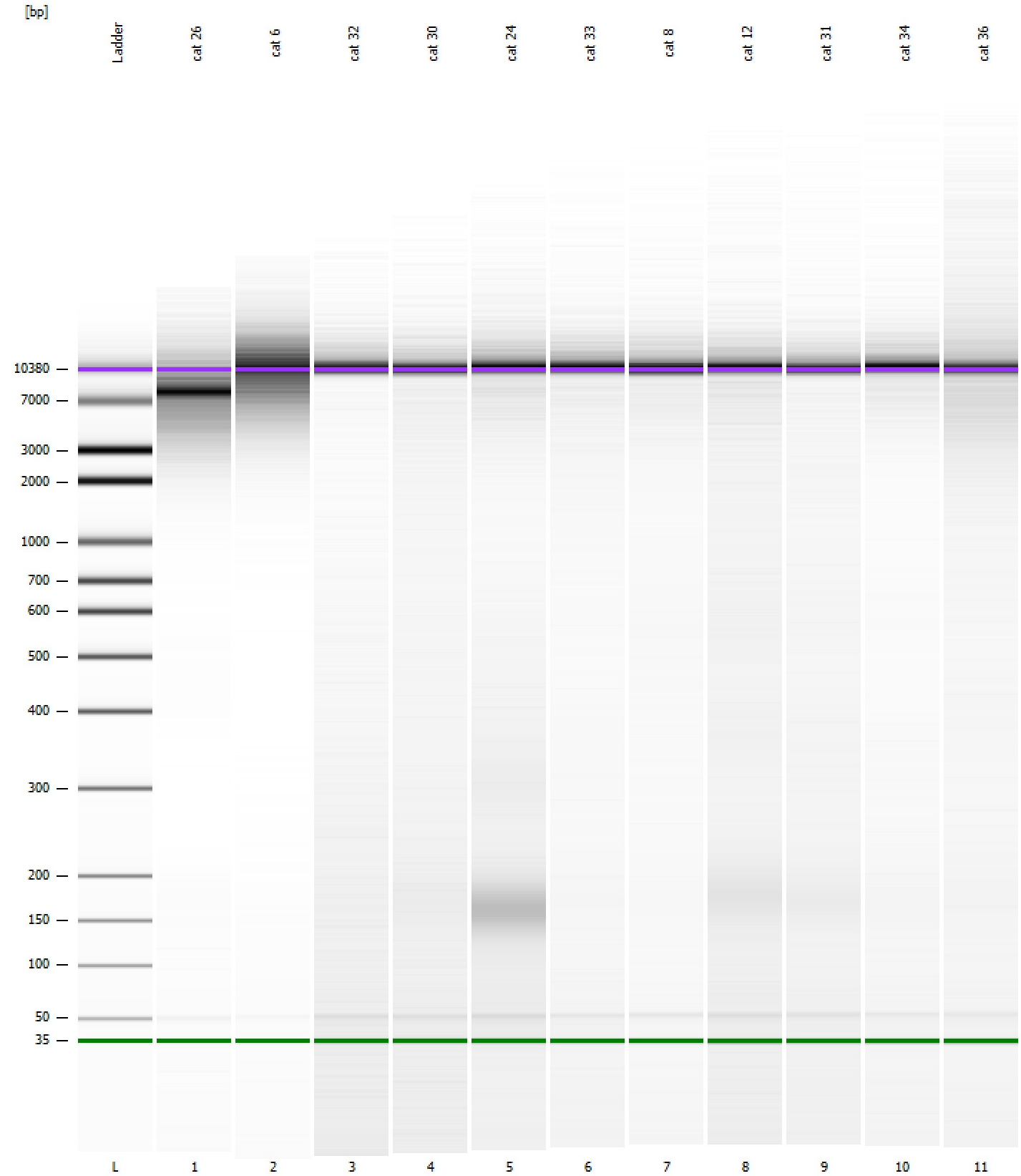
Region table for sample 11 : cat 36

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	11.9	9	620	32.1	16.22	48.2	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad

Created: 2/20/2020 2:20:58 PM
Modified: 2/20/2020 3:02:18 PM

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		2/20/2020 3:02:16 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Run started on port 1 (File: Z:\XADs\2020-02-20\Bioanalyzer1_High Sensitivity DNA Assay_2020-02-20_001.xad)		Instrument	Run		2/20/2020 2:21:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Product Number : G2938C		Instrument	Run		2/20/2020 2:21:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Name :		Instrument	Run		2/20/2020 2:21:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Vendor : Agilent Technologies		Instrument	Run		2/20/2020 2:21:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Serial# : DE34903152		Instrument	Run		2/20/2020 2:21:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Firmware : C.01.069		Instrument	Run		2/20/2020 2:21:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Cartridge : Electrode		Instrument	Run		2/20/2020 2:21:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB