

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-26_002.xad

Created: 11/26/2019 3:04:07 PM
Modified: 11/26/2019 3:45:29 PM

Electrophoresis File Run Summary

Instrument Information:

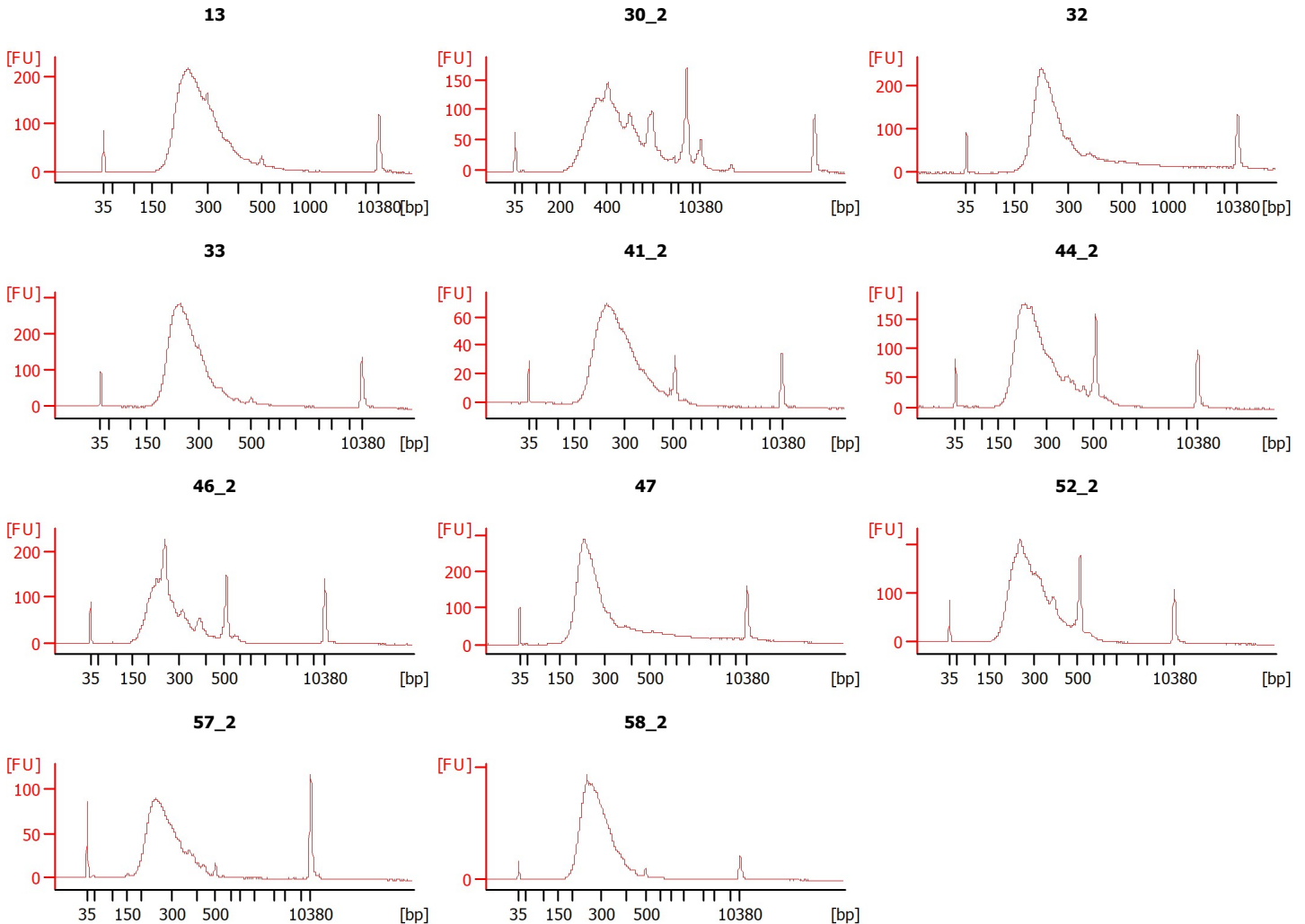
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-26_002.xad

Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
13		<input type="checkbox"/>	✓			
30_2		<input type="checkbox"/>	✓			
32		<input type="checkbox"/>	✓			
33		<input type="checkbox"/>	✓			
41_2		<input type="checkbox"/>	✓			
44_2		<input type="checkbox"/>	✓			
46_2		<input type="checkbox"/>	✓			
47		<input type="checkbox"/>	✓			
52_2		<input type="checkbox"/>	✓			
57_2		<input type="checkbox"/>	✓			
58_2		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
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 Modified: 11/26/2019 3:45:29 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

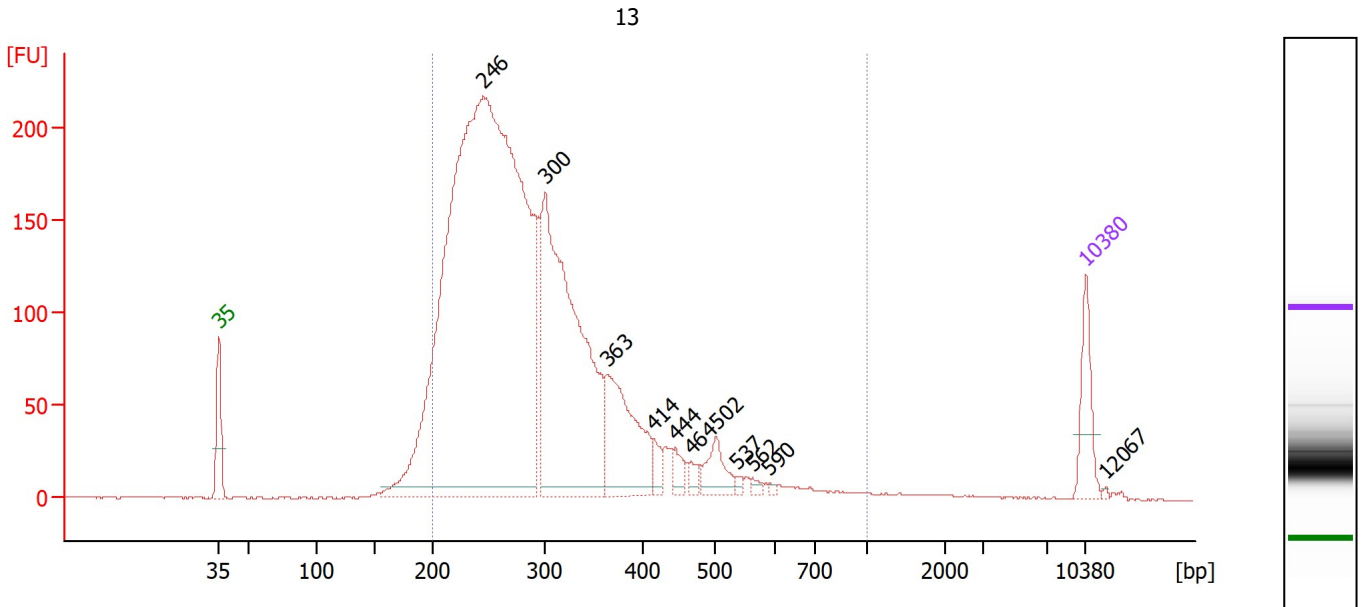
Ladder

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

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Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electropherogram Summary



Overall Results for sample 1 : 13

Number of peaks found: 11 Corr. Area 1: 3,853.3
 Noise: 0.3

Peak table for sample 1 : 13

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	246	3,255.87	20,091.1	
3	300	1,006.26	5,074.2	
4	363	289.17	1,206.1	
5	414	32.45	118.8	
6	444	29.95	102.3	
7	464	19.27	62.9	
8	502	67.15	202.7	
9	537	7.40	20.9	
10	562	9.14	24.6	
11	590	4.07	10.4	
12	10,380	75.00	10.9	Upper Marker
13	12,067	0.00	0.0	

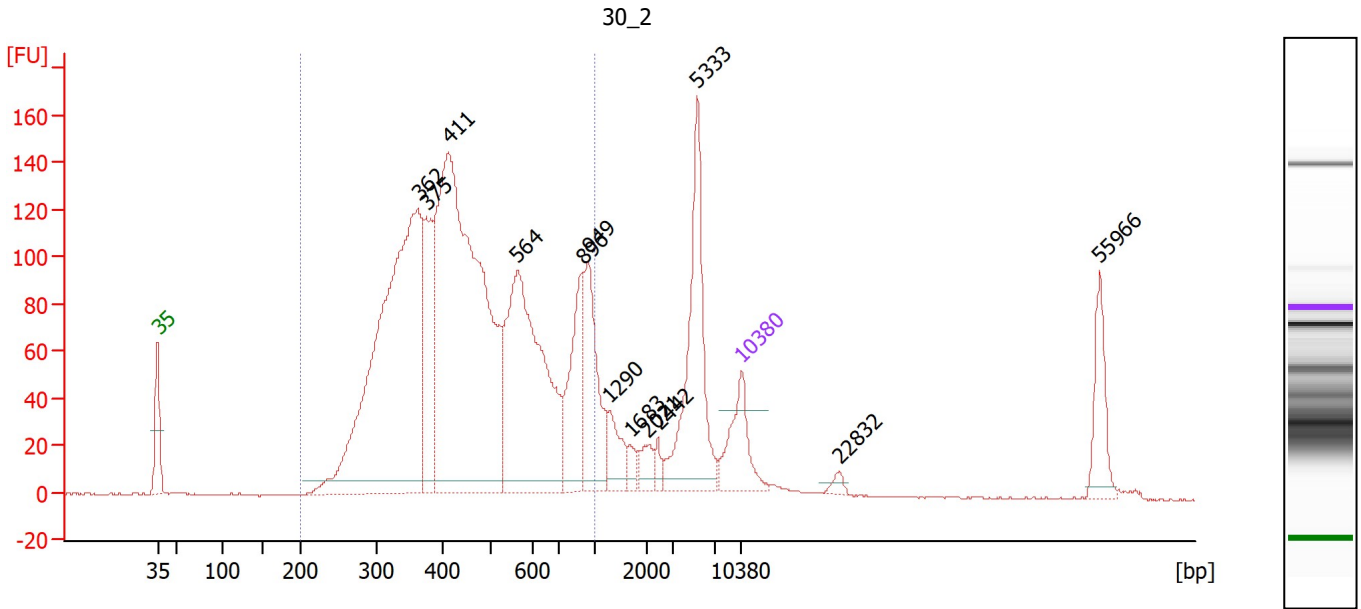
Region table for sample 1 : 13

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	3,853.3	95	301	30.3	4,711.74	25,699.5	Blue

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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-26_002.xad

Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 30_2

Number of peaks found: 13 Corr. Area 1: 2,514.3
 Noise: 0.2

Peak table for sample 2 : 30_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	362	932.31	3,905.1	
3	375	176.39	713.5	
4	411	1,011.33	3,727.2	
5	564	481.64	1,292.8	
6	896	141.11	238.5	
7	949	154.09	245.9	
8	1,290	48.01	56.4	
9	1,683	15.78	14.2	
10	2,021	25.37	19.0	
11	2,442	11.70	7.3	
12	5,333	223.85	63.6	
13	10,380	75.00	10.9	Upper Marker
14	22,832	0.00	0.0	
15	55,966	0.00	0.0	

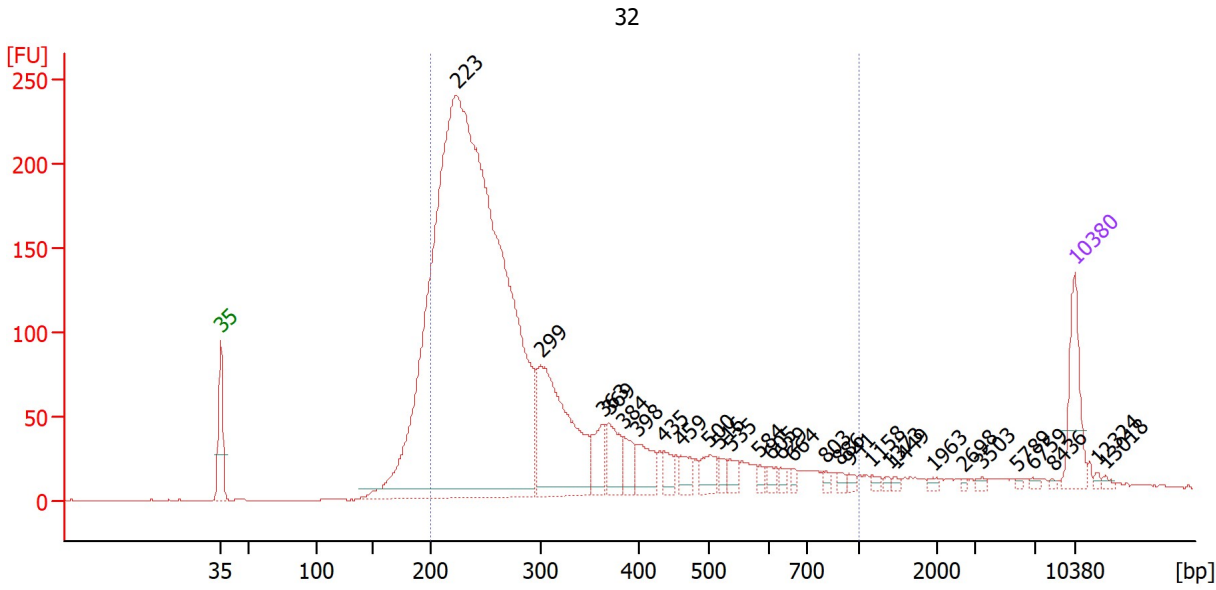
Region table for sample 2 : 30_2

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	2,514.3	81	484	36.3	2,943.59	10,648.5	Blue

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Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 32

Number of peaks found: 29 Corr. Area 1: 3,229.6
 Noise: 0.3

Peak table for sample 3 : 32

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	223	3,119.06	21,180.8	
3	299	387.09	1,958.5	
4	363	62.00	259.1	
5	369	68.32	280.5	
6	384	45.76	180.4	
7	398	59.17	225.3	
8	435	27.11	94.4	
9	459	30.63	101.1	
10	500	35.12	106.4	
11	516	17.35	50.9	
12	535	20.48	58.0	
13	584	11.37	29.5	
14	605	13.21	33.1	
15	629	10.17	24.5	
16	664	7.85	17.9	
17	803	7.84	14.8	
18	886	7.69	13.2	
19	941	7.28	11.7	
20	1,158	6.60	8.6	
21	1,373	4.21	4.6	
22	1,449	4.74	5.0	
23	1,963	4.88	3.8	
24	2,698	2.80	1.6	
25	3,503	4.12	1.8	
26	5,789	3.14	0.8	

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Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : 32

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	6,759	3.68	0.8	
28	8,436	1.96	0.4	
29	10,380	75.00	10.9	Upper Marker
30	12,324	0.00	0.0	
31	13,018	0.00	0.0	

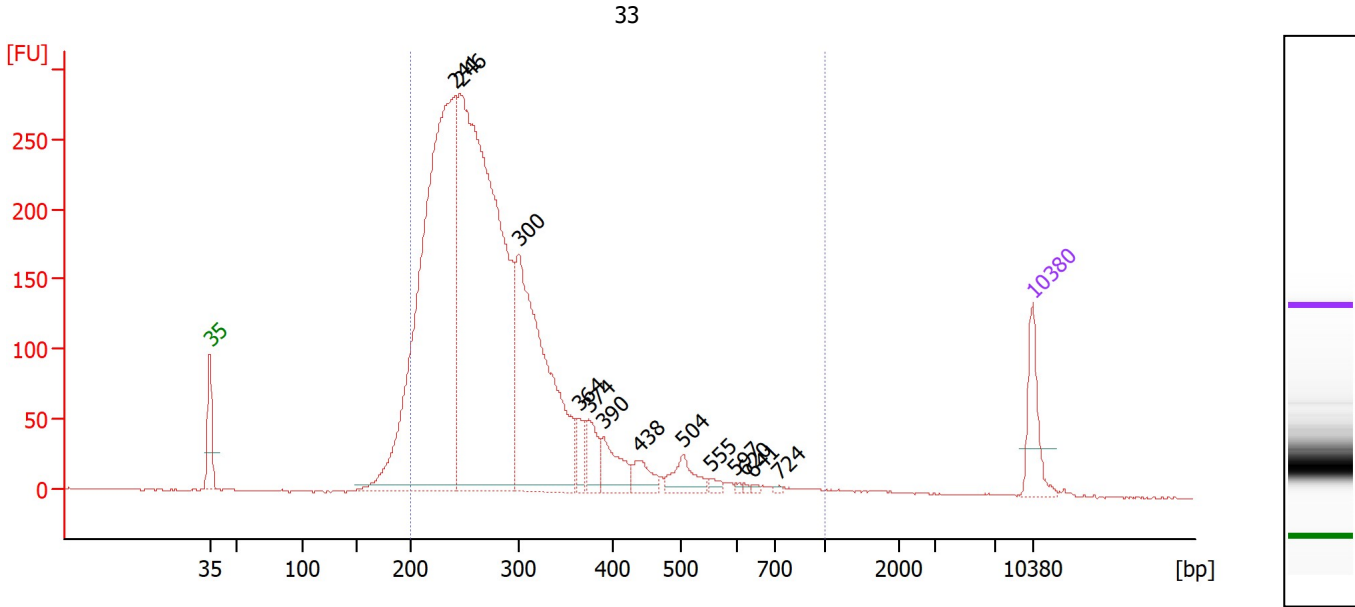
Region table for sample 3 : 32

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	3,229.6	88	303	40.8	3,488.94	19,857.3	

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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-26_002.xad

Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 33

Number of peaks found: 13 Corr. Area 1: 4,390.6
 Noise: 0.4

Peak table for sample 4 : 33

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	241	1,674.37	10,533.8	
3	246	1,855.45	11,413.0	
4	300	758.88	3,829.9	
5	364	41.25	171.9	
6	374	66.54	269.3	
7	390	84.43	328.3	
8	438	47.20	163.2	
9	504	58.86	176.9	
10	555	11.43	31.2	
11	597	4.31	10.9	
12	620	3.92	9.6	
13	641	4.06	9.6	
14	724	3.86	8.1	
15	10,380	75.00	10.9	Upper Marker

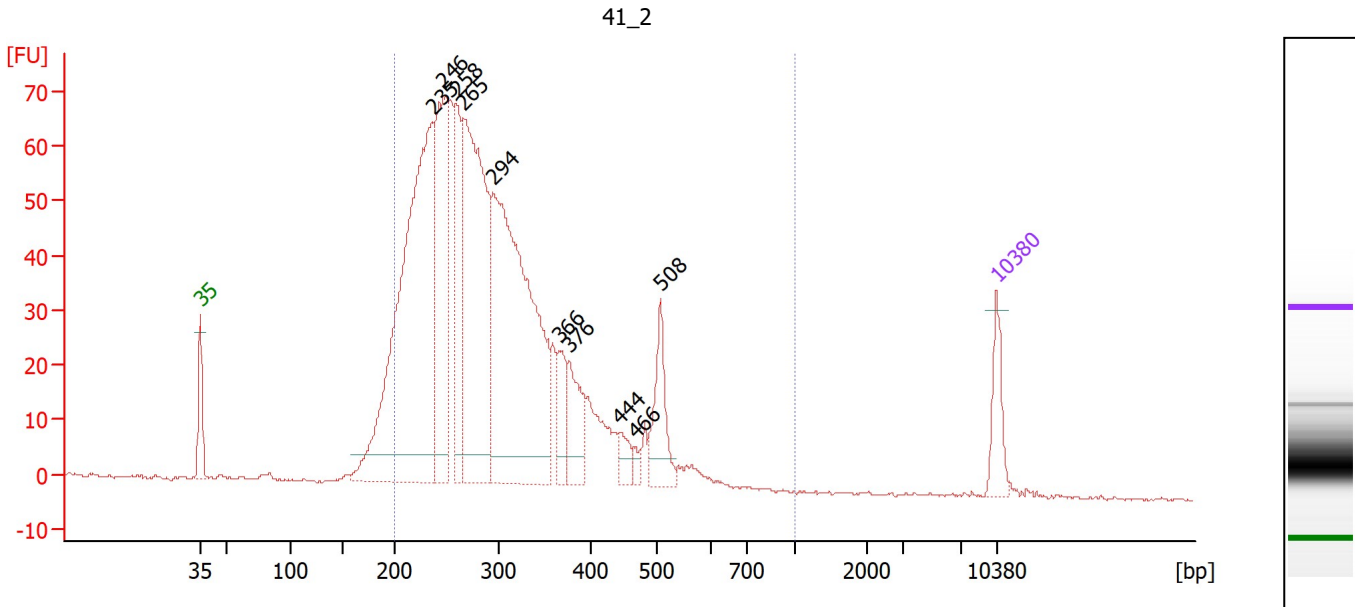
Region table for sample 4 : 33

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	4,390.6	94	288	30.1	4,433.96	24,970.1	Blue

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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-26_002.xad

Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 41_2

Number of peaks found: 10 Corr. Area 1: 1,311.4
 Noise: 0.3

Peak table for sample 5 : 41_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	235	1,502.25	9,686.9	
3	246	554.64	3,411.9	
4	258	286.07	1,679.0	
5	265	959.45	5,478.1	
6	294	1,219.43	6,279.7	
7	366	104.38	432.2	
8	376	137.84	554.8	
9	444	45.98	156.8	
10	466	18.92	61.5	
11	508	153.02	456.2	
12	10,380	75.00	10.9	Upper Marker

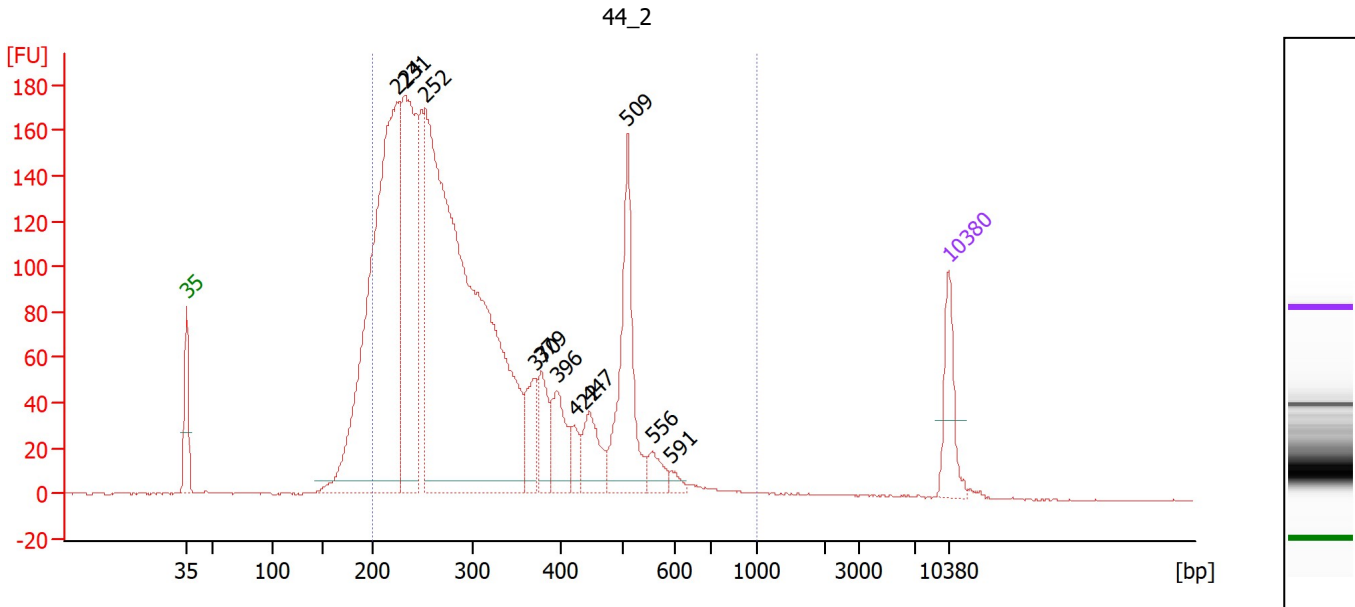
Region table for sample 5 : 41_2

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	1,311.4	94	303	27.0	5,219.84	28,182.9	Blue

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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-26_002.xad

Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 44_2

Number of peaks found: 11 Corr. Area 1: 3,229.3
 Noise: 0.2

Peak table for sample 6 : 44_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	224	1,189.65	8,052.5	
3	231	600.97	3,935.5	
4	252	1,831.97	11,022.8	
5	370	87.49	357.9	
6	379	81.96	327.7	
7	396	104.00	397.9	
8	422	33.02	118.4	
9	447	88.24	299.1	
10	509	262.25	781.3	
11	556	35.14	95.7	
12	591	13.00	33.3	
13	10,380	75.00	10.9	Upper Marker

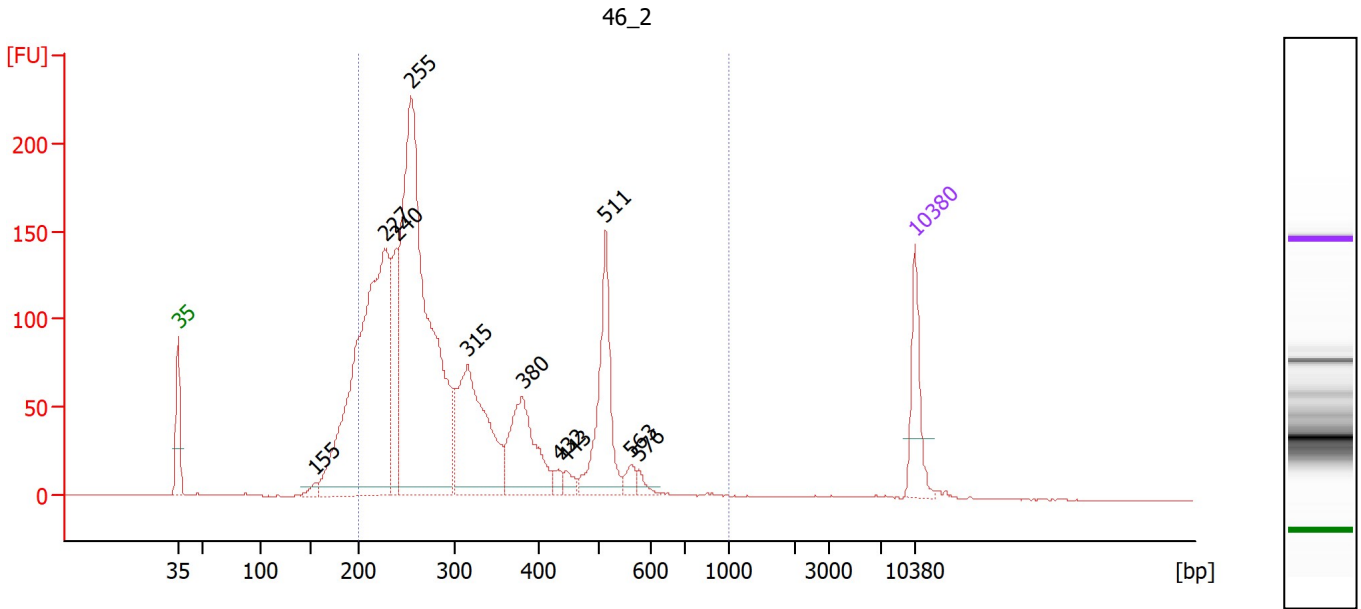
Region table for sample 6 : 44_2

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	3,229.3	90	315	33.9	4,121.08	22,277.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-26_002.xad

Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 46_2

Number of peaks found: 11 Corr. Area 1: 2,655.7
 Noise: 0.2

Peak table for sample 7 : 46_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	155	14.89	145.2	
3	227	918.74	6,138.5	
4	240	167.52	1,059.5	
5	255	1,091.56	6,496.0	
6	315	344.94	1,656.9	
7	380	195.42	779.6	
8	432	15.51	54.3	
9	443	17.74	60.7	
10	511	203.38	602.5	
11	563	18.85	50.7	
12	576	13.62	35.8	
13	10,380	75.00	10.9	Upper Marker

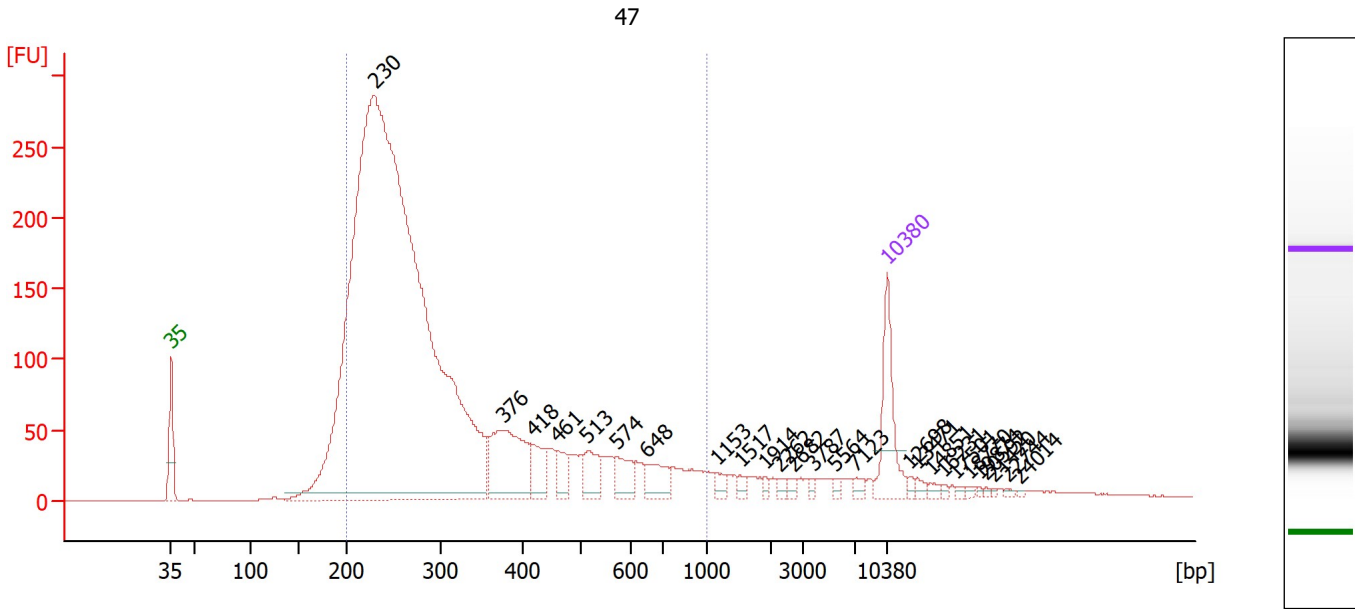
Region table for sample 7 : 46_2

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	2,655.7	90	311	33.6	2,744.02	14,943.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-26_002.xad

Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 47

Number of peaks found: 26 Corr. Area 1: 4,095.6
 Noise: 0.3

Peak table for sample 8 : 47

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	230	2,957.88	19,520.2	
3	376	161.05	648.9	
4	418	43.57	157.9	
5	461	33.39	109.8	
6	513	41.23	121.7	
7	574	34.66	91.5	
8	648	38.22	89.3	
9	1,153	11.20	14.7	
10	1,517	6.74	6.7	
11	1,914	5.16	4.1	
12	2,262	6.21	4.2	
13	2,682	7.24	4.1	
14	3,787	4.65	1.9	
15	5,564	5.29	1.4	
16	7,123	8.13	1.7	
17	10,380	75.00	10.9	Upper Marker
18	12,698	0.00	0.0	
19	13,471	0.00	0.0	
20	14,851	0.00	0.0	
21	16,231	0.00	0.0	
22	17,501	0.00	0.0	
23	18,770	0.00	0.0	
24	19,874	0.00	0.0	
25	20,592	0.00	0.0	
26	21,420	0.00	0.0	

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Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : 47

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	22,744	0.00	0.0	
28	24,014	0.00	0.0	

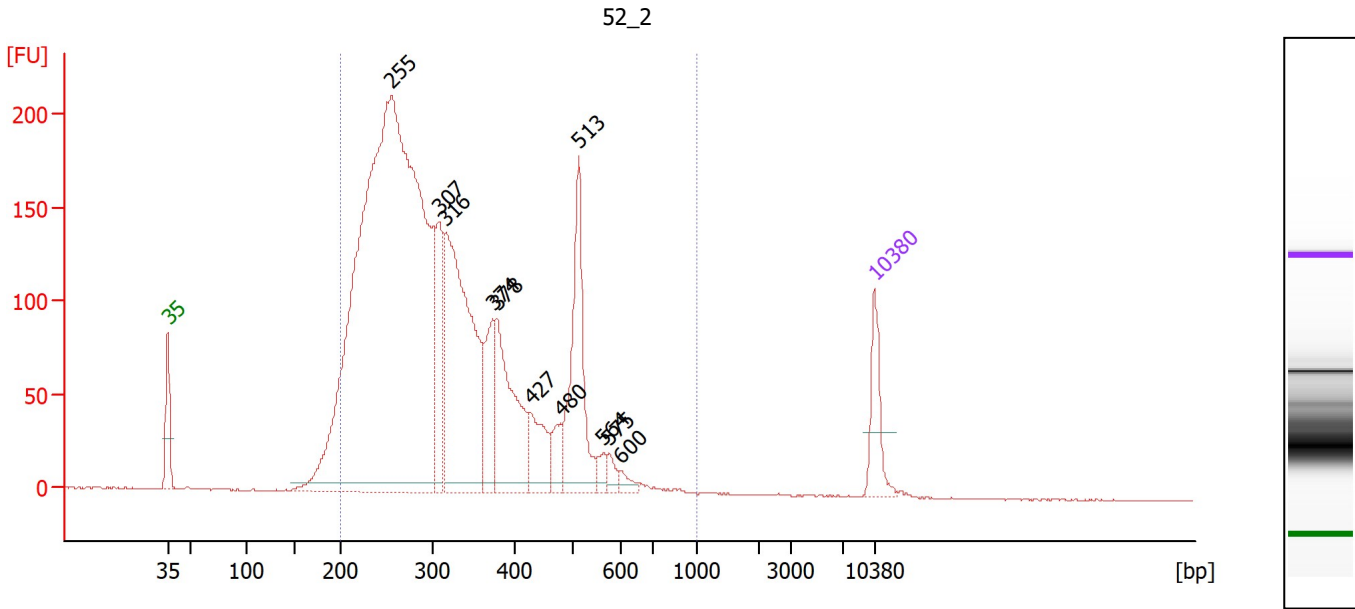
Region table for sample 8 : 47

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	4,095.6	87	320	44.2	3,076.23	17,011.8	

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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-26_002.xad

Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 52_2

Number of peaks found: 11 Corr. Area 1: 3,910.1
 Noise: 0.4

Peak table for sample 9 : 52_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	255	2,966.67	17,654.0	
3	307	200.80	990.6	
4	316	694.91	3,335.2	
5	374	138.29	560.8	
6	378	284.41	1,139.3	
7	427	109.11	386.8	
8	480	49.76	157.2	
9	513	286.66	847.2	
10	564	23.17	62.2	
11	575	21.04	55.4	
12	600	17.53	44.2	
13	10,380	75.00	10.9	Upper Marker

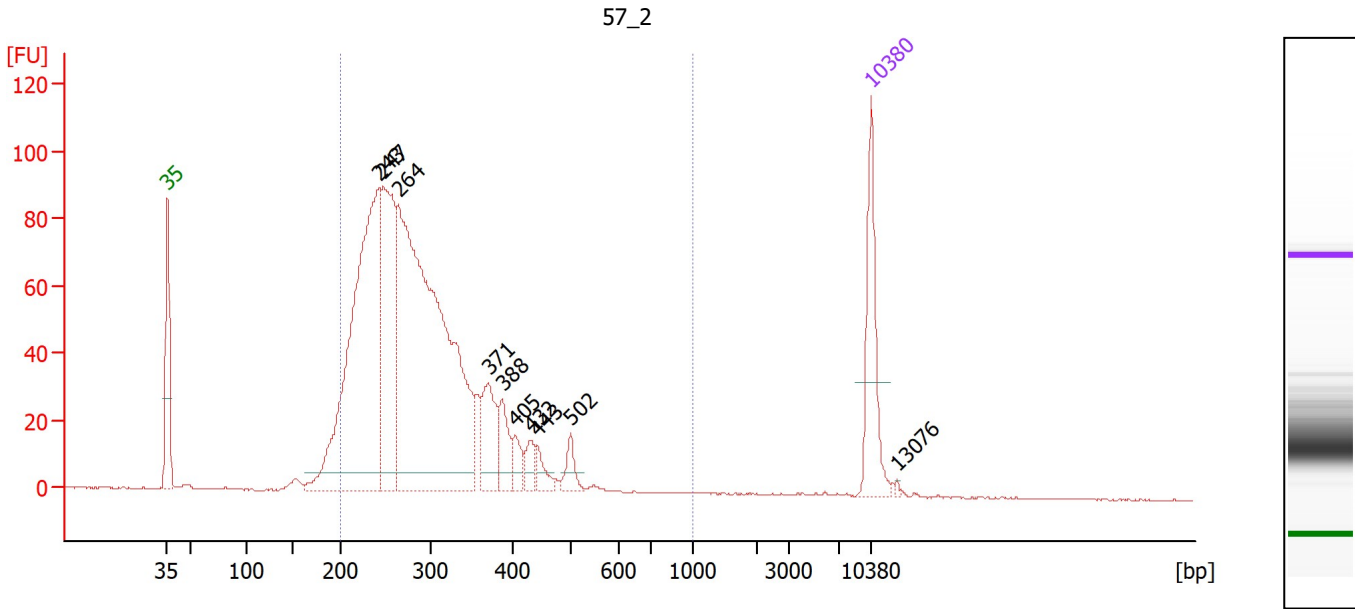
Region table for sample 9 : 52_2

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	3,910.1	96	324	30.8	4,653.33	24,088.4	Blue

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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-26_002.xad

Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 57_2

Number of peaks found: 10 Corr. Area 1: 1,476.9
 Noise: 0.2

Peak table for sample 10 : 57_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	243	553.46	3,455.0	
3	247	244.54	1,497.8	
4	264	789.05	4,533.8	
5	371	69.70	285.0	
6	388	37.34	145.9	
7	405	20.58	77.0	
8	432	19.19	67.4	
9	443	15.85	54.3	
10	502	18.91	57.1	
11	10,380	75.00	10.9	Upper Marker
12	13,076	0.00	0.0	

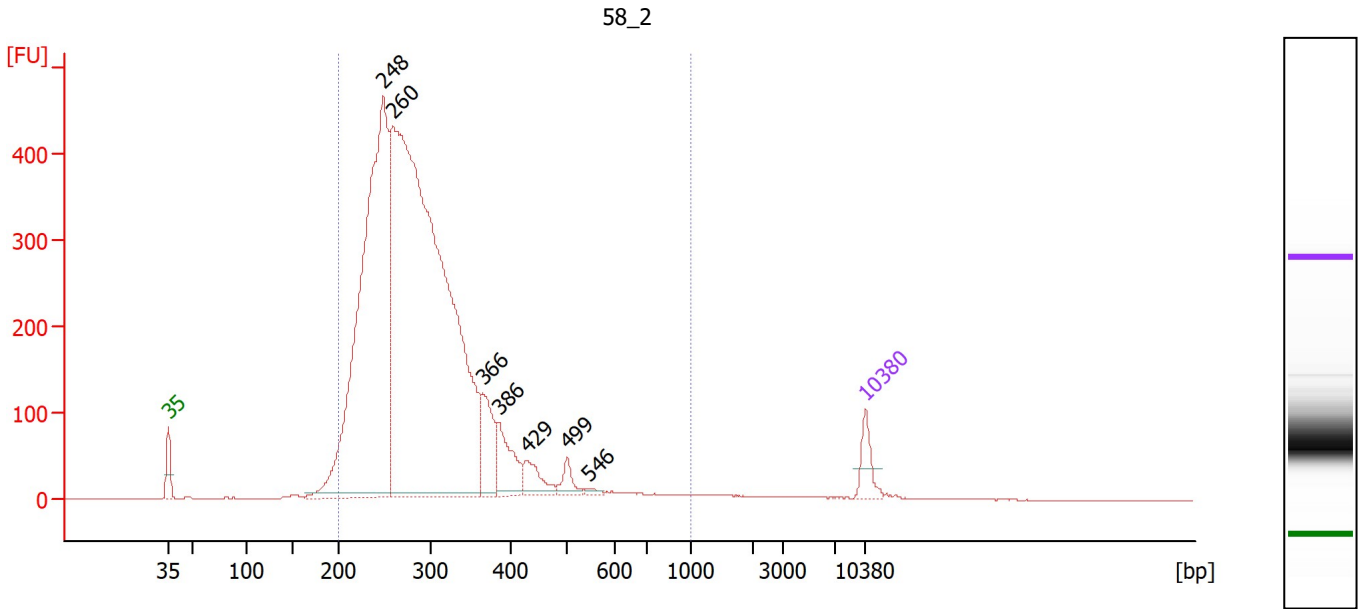
Region table for sample 10 : 57_2

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	1,476.9	94	295	25.1	1,739.62	9,495.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-26_002.xad

Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 58_2

Number of peaks found: 7 Corr. Area 1: 6,719.4
 Noise: 0.2

Peak table for sample 11 : 58_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	248	2,886.22	17,607.3	
3	260	4,964.65	28,982.8	
4	366	256.92	1,065.0	
5	386	209.25	821.0	
6	429	114.44	404.2	
7	499	62.05	188.3	
8	546	13.28	36.9	
9	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : 58_2

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	6,719.4	97	297	26.7	8,297.84	44,828.7	Blue

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Created: 11/26/2019 3:04:07 PM
Modified: 11/26/2019 3:45:29 PM

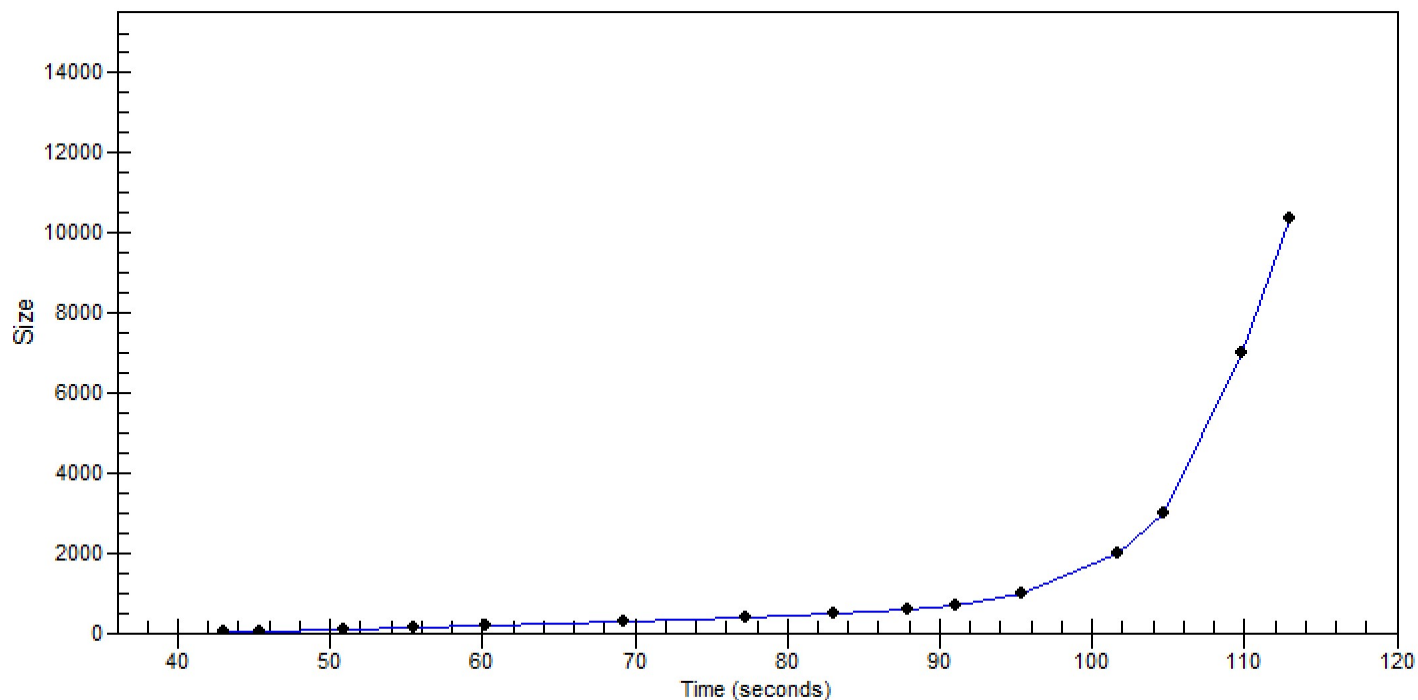
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-26_002.xad

Created: 11/26/2019 3:04:07 PM
Modified: 11/26/2019 3:45:29 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-11-26_002.xad

Created: 11/26/2019 3:04:07 PM
 Modified: 11/26/2019 3:45:29 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		11/26/2019 3:45:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-11-26\Bioanalyze r1_High Sensitivity DNA Assay_2019-11-26_002.xad)		Instrument	Run		11/26/2019 3:04:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/26/2019 3:04:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/26/2019 3:04:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/26/2019 3:04:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/26/2019 3:04:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/26/2019 3:04:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/26/2019 3:04:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB