

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-10_002.xad

Created: 1/10/2020 3:33:51 PM
Modified: 1/10/2020 5:08:31 PM

Electrophoresis File Run Summary

Instrument Information:

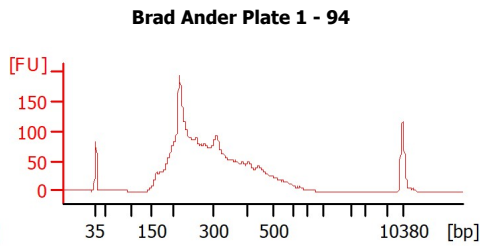
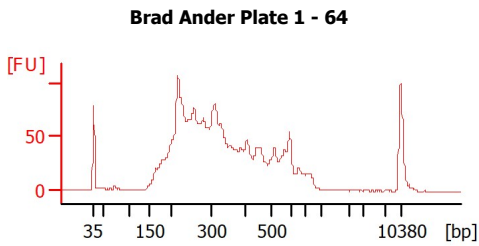
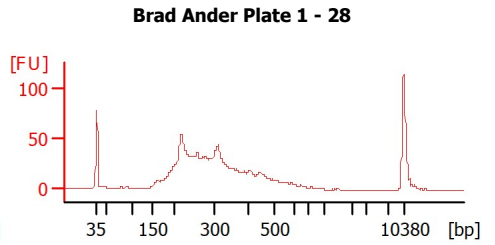
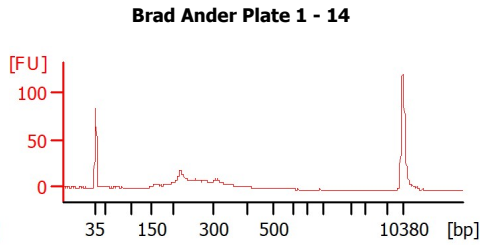
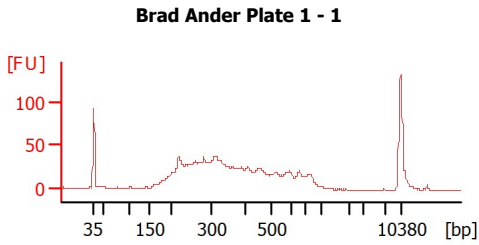
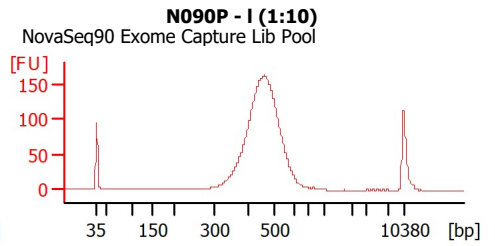
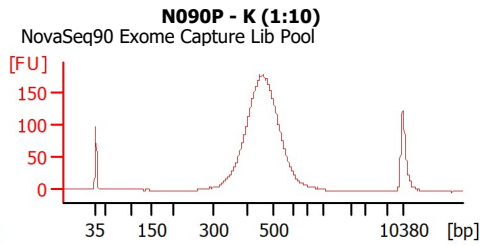
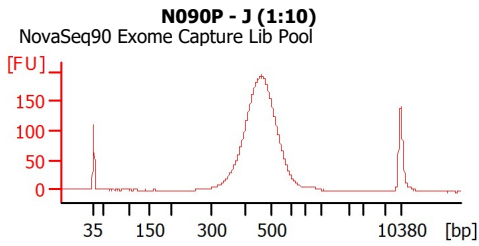
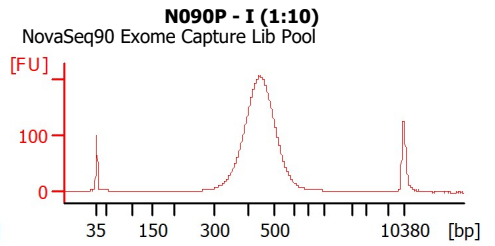
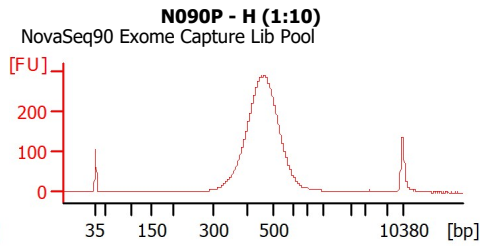
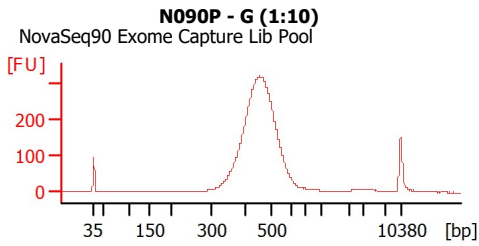
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-10_002.xad

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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
N090P - G (1:10)	NovaSeq90 Exome Capture Lib Pool	<input type="checkbox"/>	✓			
N090P - H (1:10)	NovaSeq90 Exome Capture Lib Pool	<input type="checkbox"/>	✓			
N090P - I (1:10)	NovaSeq90 Exome Capture Lib Pool	<input type="checkbox"/>	✓			
N090P - J (1:10)	NovaSeq90 Exome Capture Lib Pool	<input type="checkbox"/>	✓			
N090P - K (1:10)	NovaSeq90 Exome Capture Lib Pool	<input type="checkbox"/>	✓			
N090P - L (1:10)	NovaSeq90 Exome Capture Lib Pool	<input type="checkbox"/>	✓			
Brad Ander Plate 1 - 1		<input type="checkbox"/>	✓			
Brad Ander Plate 1 - 14		<input type="checkbox"/>	✓			
Brad Ander Plate 1 - 28		<input type="checkbox"/>	✓			
Brad Ander Plate 1 - 64		<input type="checkbox"/>	✓			
Brad Ander Plate 1 - 94		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

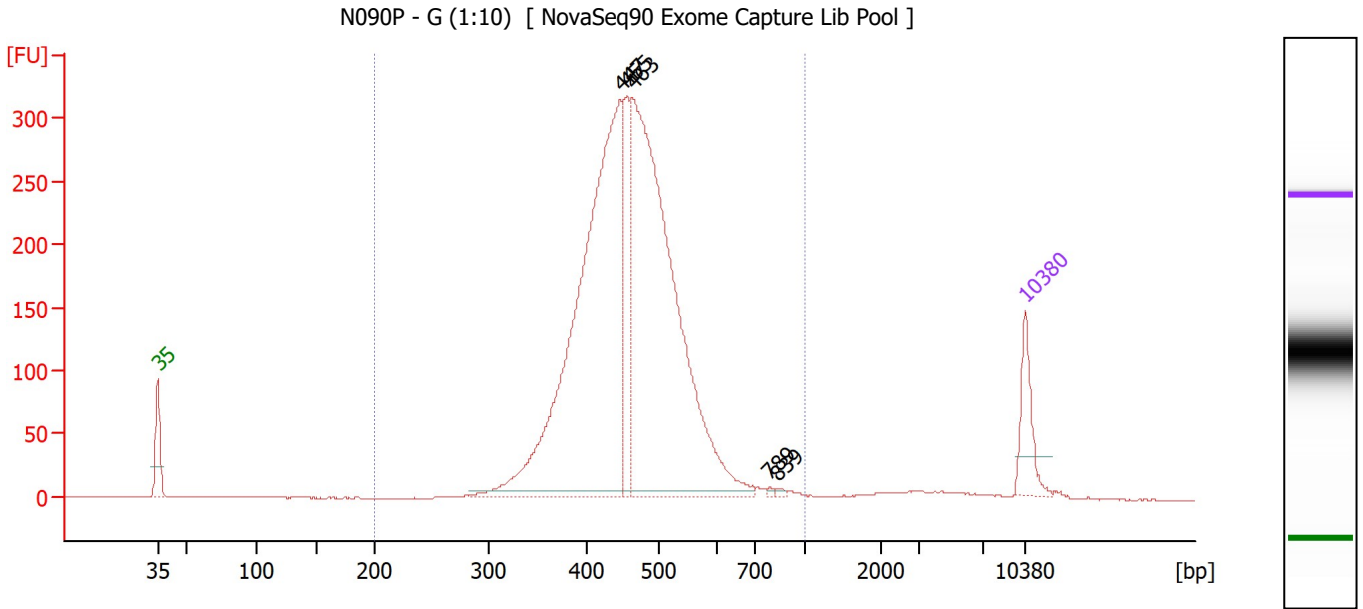
Ladder

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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Electropherogram Summary



Overall Results for sample 1 : N090P - G (1:10)

Number of peaks found: 5 Corr. Area 1: 3,575.0
 Noise: 0.2

Peak table for sample 1 : N090P - G (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	447	1,353.76	4,588.0	
3	455	205.68	684.2	
4	463	1,315.80	4,305.4	
5	789	4.14	8.0	
6	839	4.74	8.6	
7	10,380	75.00	10.9	Upper Marker

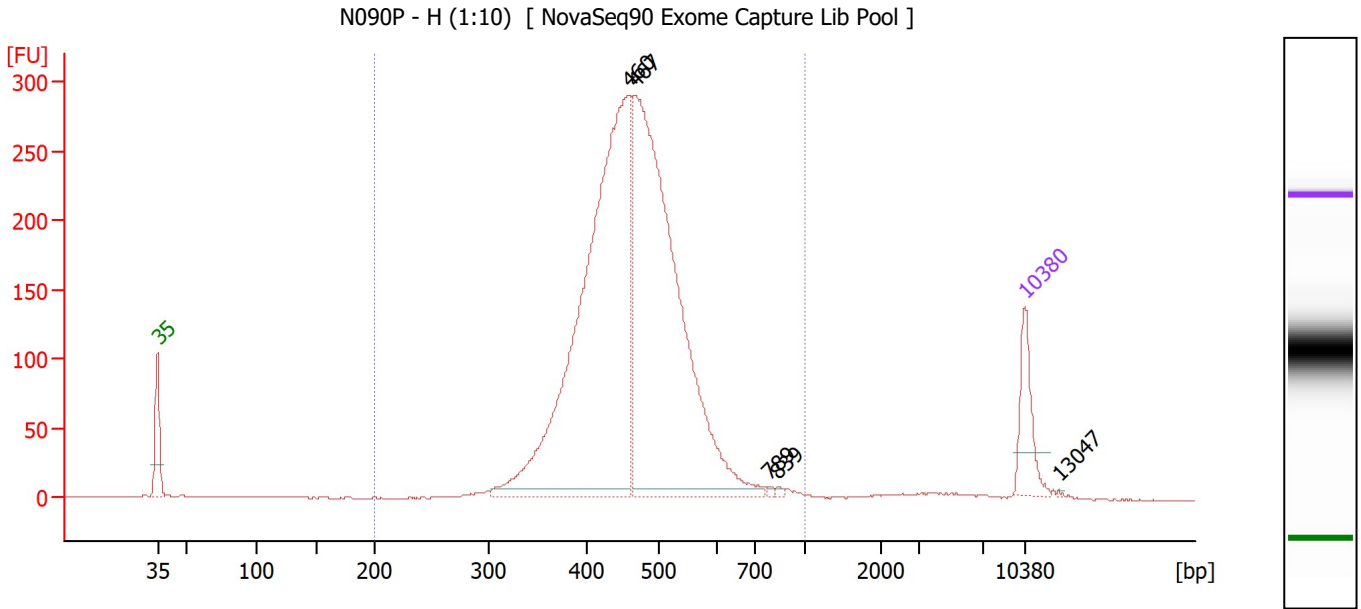
Region table for sample 1 : N090P - G (1:10)

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	3,575.0	98	462	16.1	2,942.02	9,932.8	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : N090P - H (1:10)

Number of peaks found: 5 Corr. Area 1: 3,268.2
 Noise: 0.2

Peak table for sample 2 : N090P - H (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	460	1,276.24	4,208.0	
3	467	1,193.27	3,870.4	
4	789	3.14	6.0	
5	839	3.64	6.6	
6	10,380	75.00	10.9	Upper Marker
7	13,047	0.00	0.0	

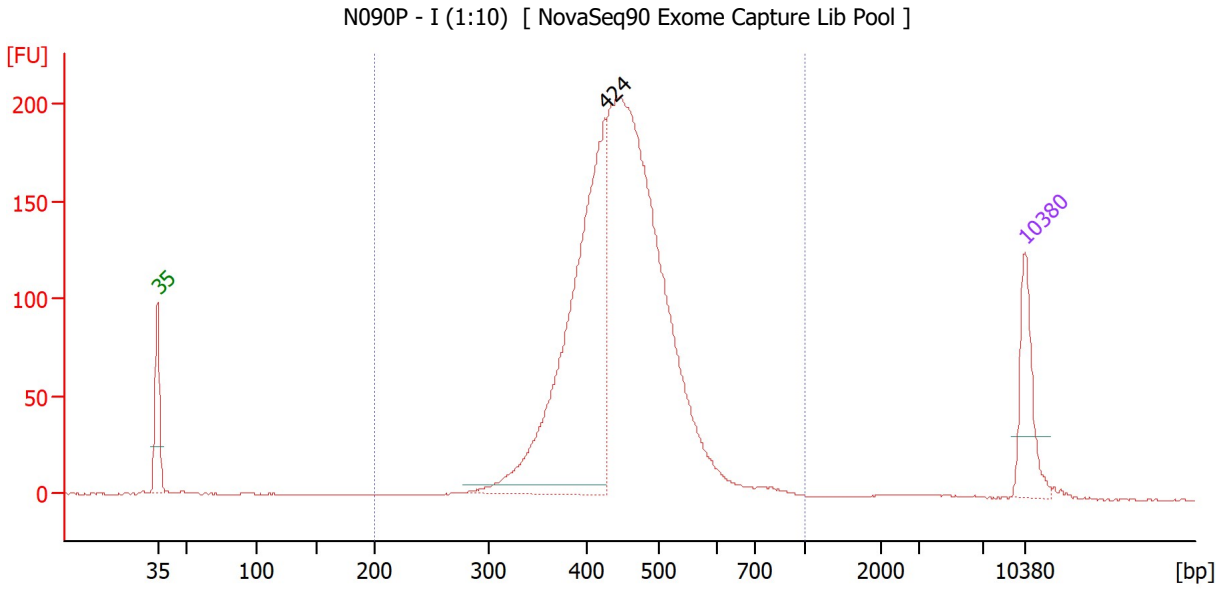
Region table for sample 2 : N090P - H (1:10)

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	3,268.2	98	466	16.3	2,588.40	8,669.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-10_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : N090P - I (1:10)

Number of peaks found: 1 Corr. Area 1: 2,223.2
 Noise: 0.2

Peak table for sample 3 : N090P - I (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	424	685.03	2,446.2	
3	10,380	75.00	10.9	Upper Marker

Region table for sample 3 : N090P - I (1:10)

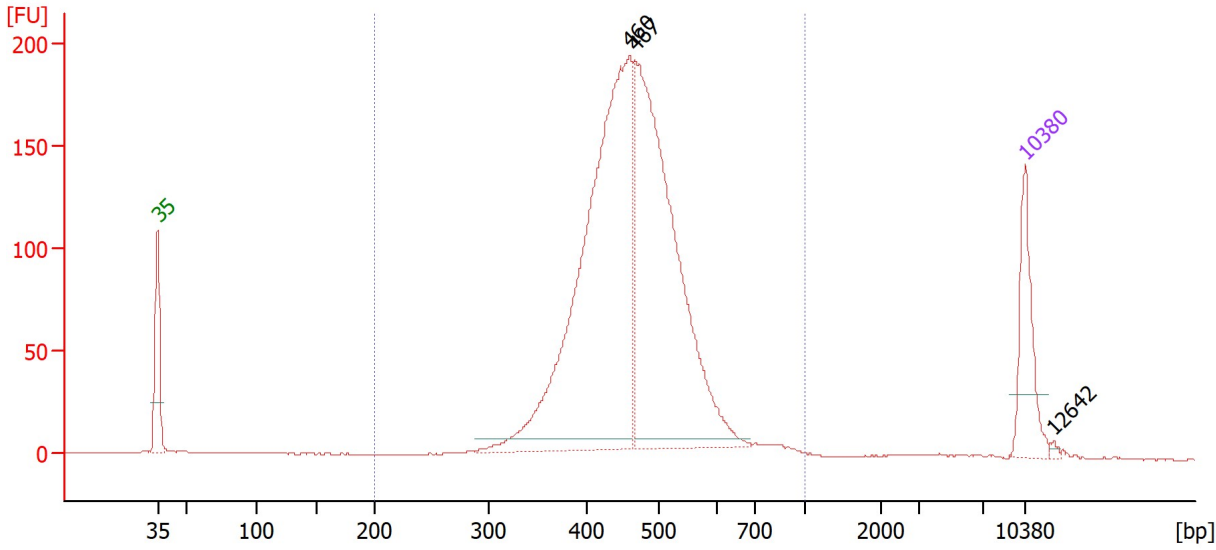
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,223.2	98	450	15.9	1,815.05	6,289.3	Blue

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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-10_002.xad

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Electropherogram Summary Continued ...

N090P - J (1:10) [NovaSeq90 Exome Capture Lib Pool]



Overall Results for sample 4 : N090P - J (1:10)

Number of peaks found: 3 Corr. Area 1: 2,137.4
 Noise: 0.3

Peak table for sample 4 : N090P - J (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	460	794.51	2,619.5	
3	467	657.00	2,133.7	
4	10,380	75.00	10.9	Upper Marker
5	12,642	0.00	0.0	

Region table for sample 4 : N090P - J (1:10)

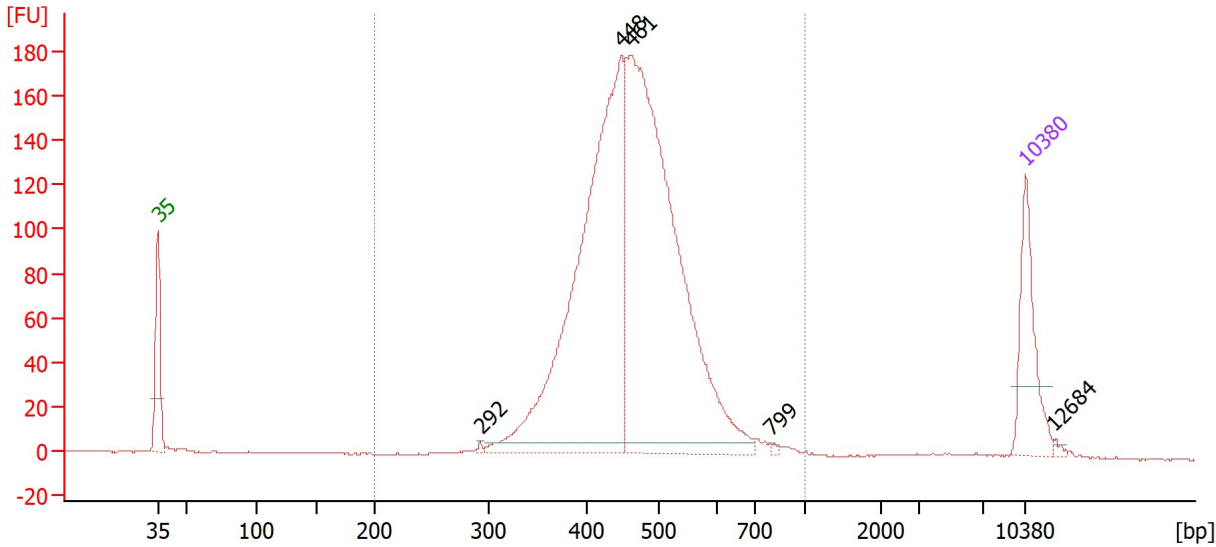
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,137.4	98	466	16.4	1,557.59	5,227.7	Blue

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Electropherogram Summary Continued ...

N090P - K (1:10) [NovaSeq90 Exome Capture Lib Pool]



Overall Results for sample 5 : N090P - K (1:10)

Number of peaks found: 5 Corr. Area 1: 2,044.5
 Noise: 0.2

Peak table for sample 5 : N090P - K (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	292	2.28	11.8	
3	448	668.68	2,260.9	
4	461	760.64	2,497.4	
5	799	2.39	4.5	
6	10,380	75.00	10.9	Upper Marker
7	12,684	0.00	0.0	

Region table for sample 5 : N090P - K (1:10)

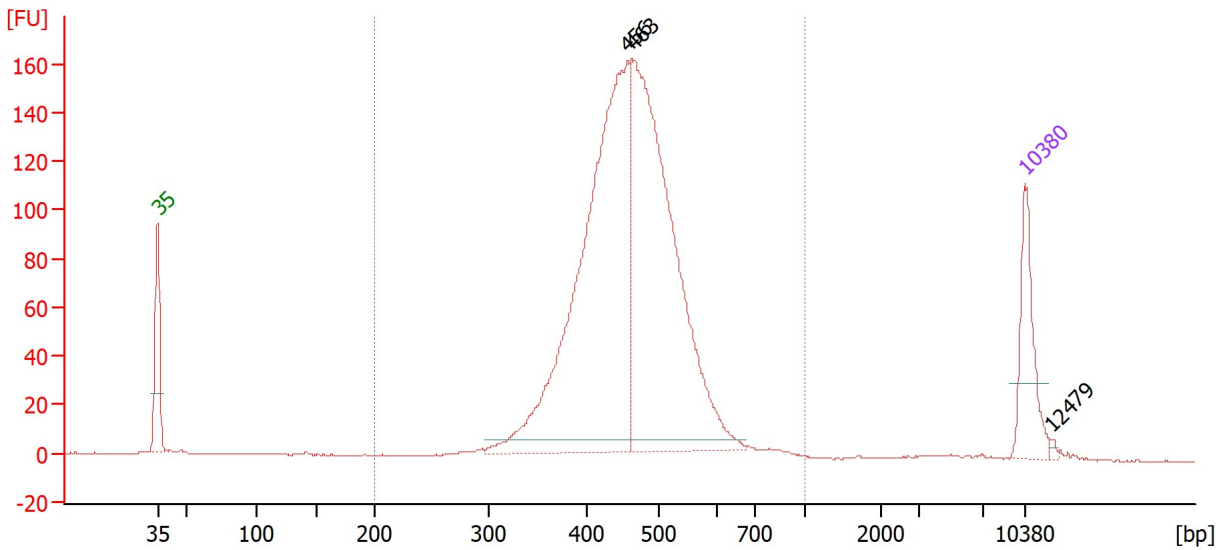
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,044.5	98	466	16.7	1,464.63	4,914.8	Blue

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...

N090P - I (1:10) [NovaSeq90 Exome Capture Lib Pool]



Overall Results for sample 6 : N090P - I (1:10)

Number of peaks found: 3 Corr. Area 1: 1,780.4
 Noise: 0.2

Peak table for sample 6 : N090P - I (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	456	764.93	2,539.7	
3	463	694.69	2,274.8	
4	10,380	75.00	10.9	Upper Marker
5	12,479	0.00	0.0	

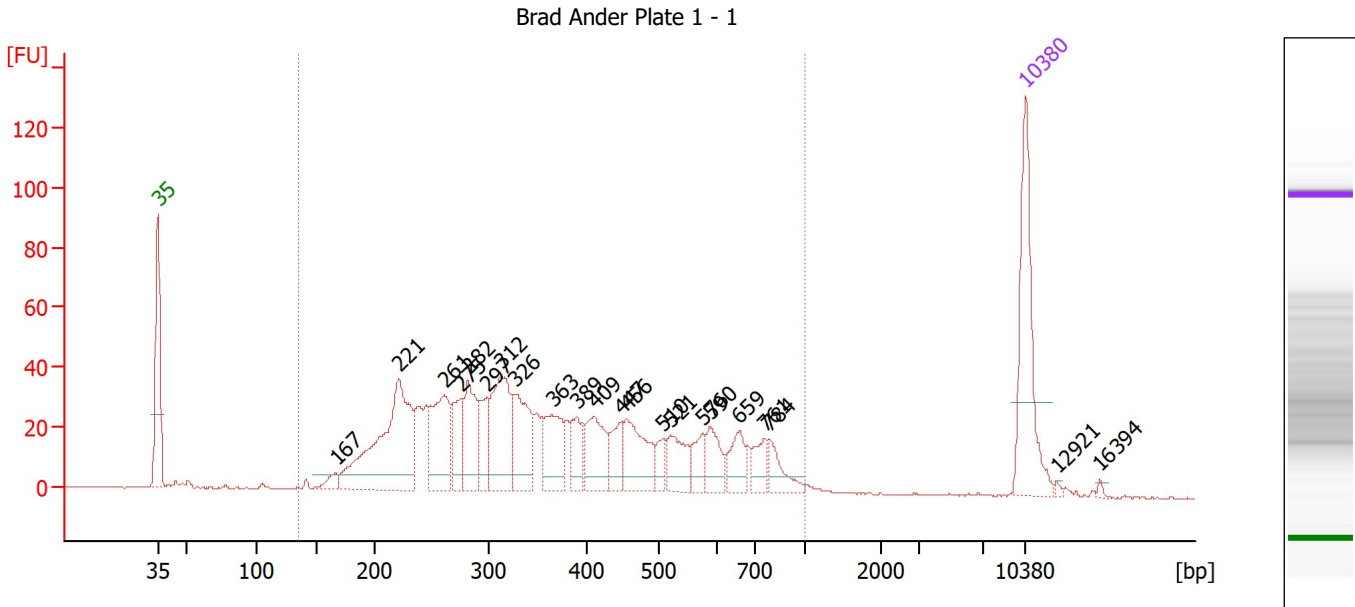
Region table for sample 6 : N090P - I (1:10)

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	1,780.4	97	462	15.8	1,553.23	5,245.3	Blue

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 7 : Brad Ander Plate 1 - 1

Number of peaks found: 22 Corr. Area 1: 1,131.3
 Noise: 0.2

Peak table for sample 7 : Brad Ander Plate 1 - 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	167	11.49	104.6	
3	221	178.42	1,221.0	
4	261	77.25	448.7	
5	275	37.72	207.9	
6	282	59.39	319.4	
7	297	32.10	163.5	
8	312	83.10	404.2	
9	326	61.55	286.1	
10	363	48.85	203.6	
11	389	26.91	104.8	
12	409	43.67	161.9	
13	447	26.38	89.3	
14	456	51.15	170.1	
15	510	12.08	35.9	
16	521	31.50	91.6	
17	576	18.81	49.5	
18	590	24.03	61.7	
19	659	23.02	52.9	
20	761	16.77	33.4	
21	784	19.53	37.7	
22	10,380	75.00	10.9	Upper Marker
23	12,921	0.00	0.0	
24	16,394	0.00	0.0	

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Electropherogram Summary Continued ...

... Region table for sample 7 :

Brad Ander Plate 1 - 1

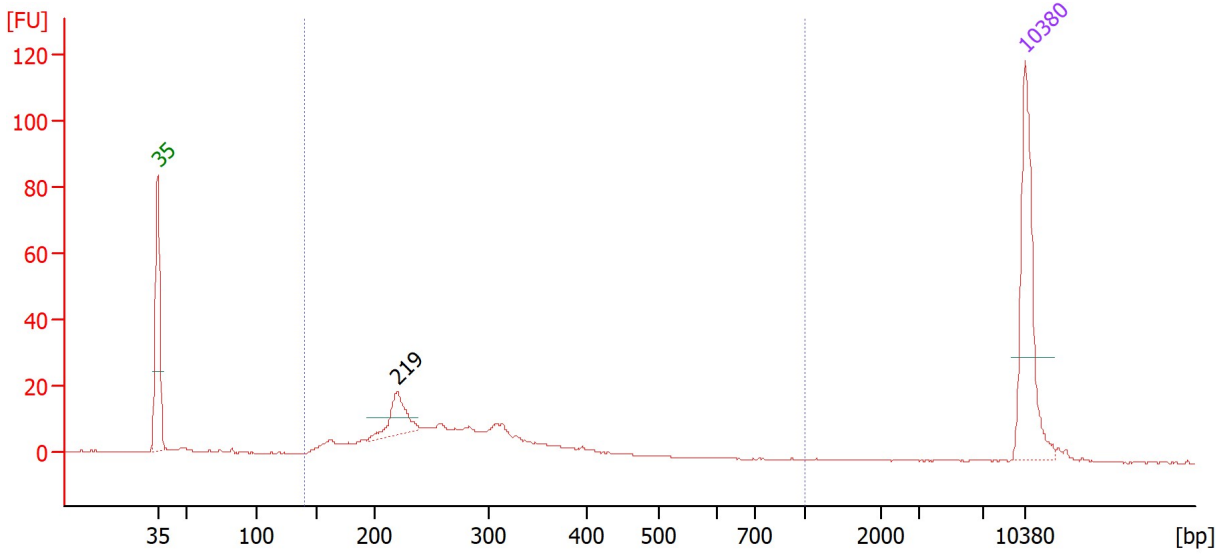
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
135	1,000	1,131.3	97	388	41.7	1,011.90	4,912.8	■

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-10_002.xad

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Electropherogram Summary Continued ...

Brad Ander Plate 1 - 14



Overall Results for sample 8 : Brad Ander Plate 1 - 14

Number of peaks found: 1 Corr. Area 1: 223.4
 Noise: 0.2

Peak table for sample 8 : Brad Ander Plate 1 - 14

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	219	34.76	240.0	
3	10,380	75.00	10.9	Upper Marker

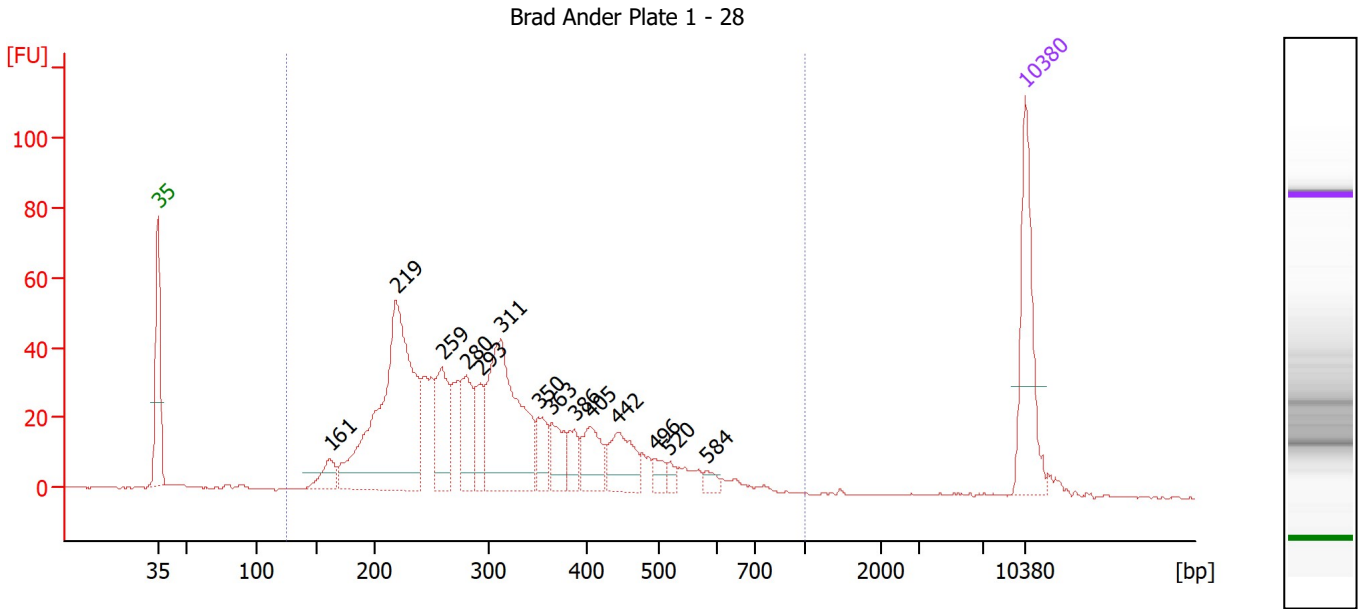
Region table for sample 8 : Brad Ander Plate 1 - 14

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
140	1,000	223.4	93	269	25.5	237.91	1,451.2	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 9 : Brad Ander Plate 1 - 28

Number of peaks found: 14 Corr. Area 1: 988.9
 Noise: 0.2

Peak table for sample 9 : Brad Ander Plate 1 - 28

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	161	27.42	257.3	
3	219	337.96	2,343.3	
4	259	71.41	418.2	
5	280	53.64	290.3	
6	293	39.30	203.5	
7	311	193.69	942.2	
8	350	28.12	121.8	
9	363	32.02	133.6	
10	386	22.52	88.5	
11	405	38.94	145.8	
12	442	49.49	169.6	
13	496	12.20	37.2	
14	520	7.39	21.5	
15	584	7.74	20.1	
16	10,380	75.00	10.9	Upper Marker

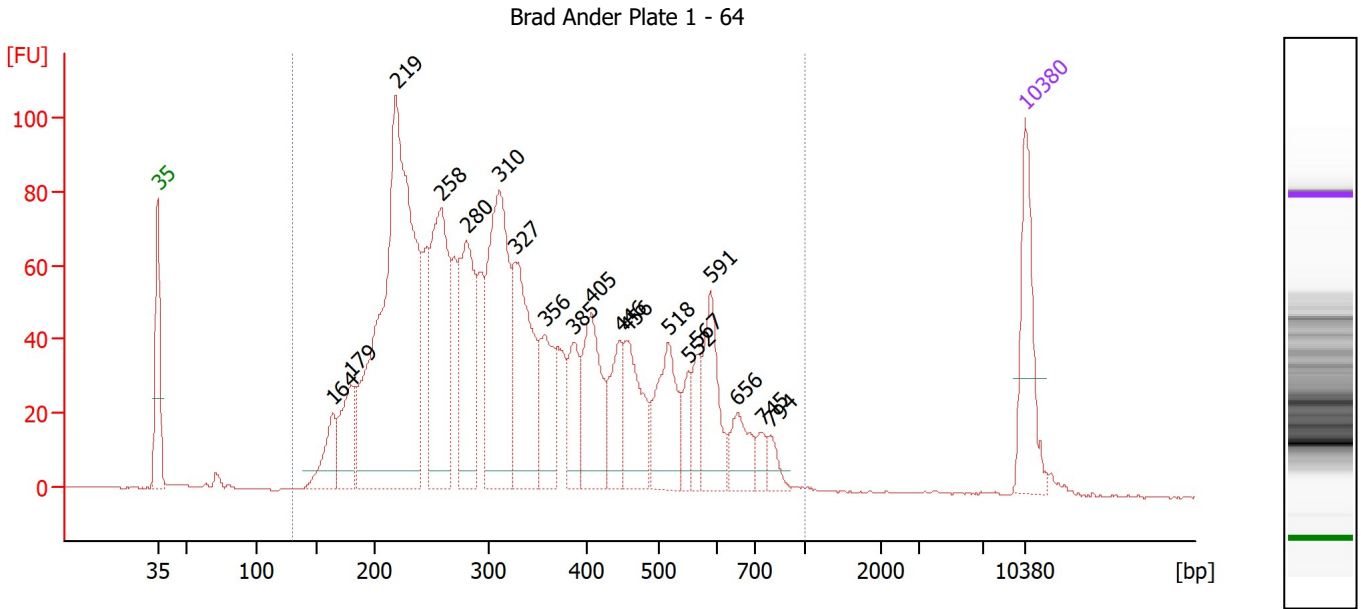
Region table for sample 9 : Brad Ander Plate 1 - 28

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
125	1,000	988.9	97	317	34.9	1,118.35	6,165.6	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 10 : Brad Ander Plate 1 - 64

Number of peaks found: 19 Corr. Area 1: 2,236.5
 Noise: 0.2

Peak table for sample 10 : Brad Ander Plate 1 - 64

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	164	60.82	562.3	
3	179	80.09	676.6	
4	219	676.45	4,690.1	
5	258	236.28	1,385.0	
6	280	165.67	894.9	
7	310	260.16	1,270.2	
8	327	178.74	829.3	
9	356	88.01	375.0	
10	385	57.75	227.1	
11	405	108.88	407.3	
12	446	63.42	215.6	
13	456	88.18	293.0	
14	518	93.06	272.3	
15	552	26.50	72.7	
16	567	30.65	81.9	
17	591	79.17	202.9	
18	656	41.89	96.8	
19	745	14.84	30.2	
20	794	15.07	28.8	
21	10,380	75.00	10.9	Upper Marker

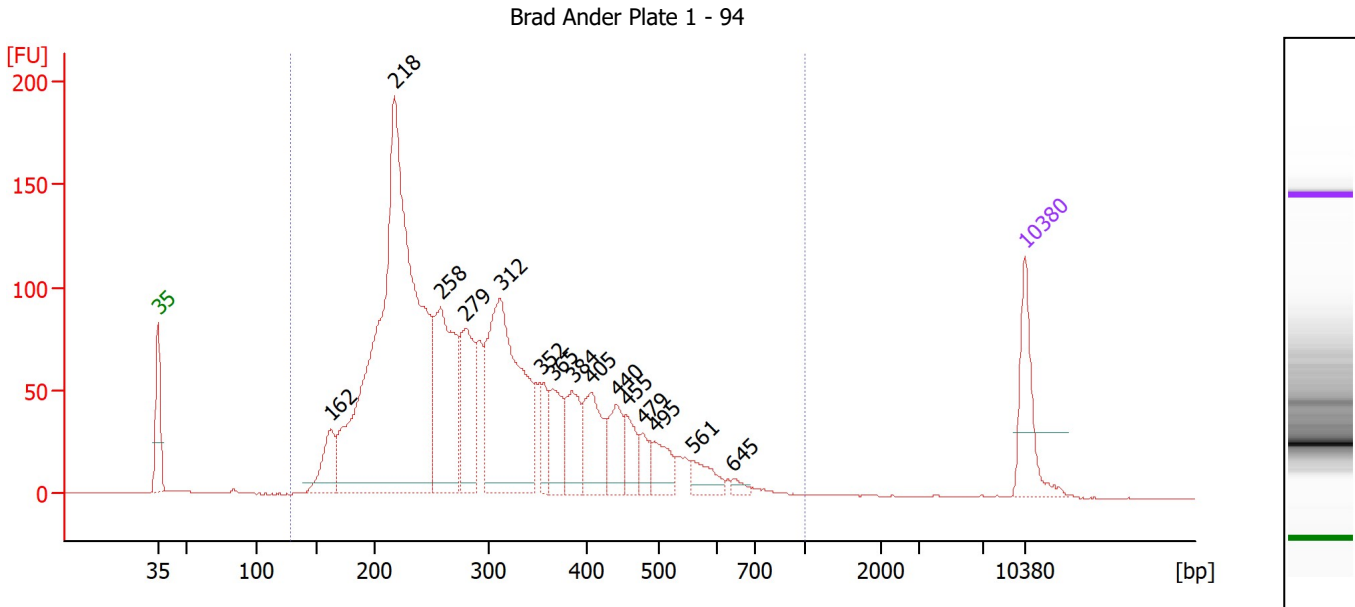
Region table for sample 10 : Brad Ander Plate 1 - 64

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
130	1,000	2,236.5	99	350	40.3	2,695.15	14,215.6	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 11 : Brad Ander Plate 1 - 94

Number of peaks found: 15 Corr. Area 1: 2,733.3
 Noise: 0.2

Peak table for sample 11 : Brad Ander Plate 1 - 94

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	162	81.77	762.9	
3	218	1,217.95	8,483.2	
4	258	276.23	1,623.1	
5	279	154.94	841.7	
6	312	429.20	2,087.5	
7	352	48.07	206.7	
8	365	73.88	306.9	
9	384	80.63	318.3	
10	405	100.75	376.9	
11	440	66.04	227.3	
12	455	45.04	150.1	
13	479	29.55	93.6	
14	495	46.88	143.6	
15	561	33.46	90.4	
16	645	8.61	20.2	
17	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : Brad Ander Plate 1 - 94

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
128	1,000	2,733.3	99	307	35.2	2,870.07	16,377.1	Blue

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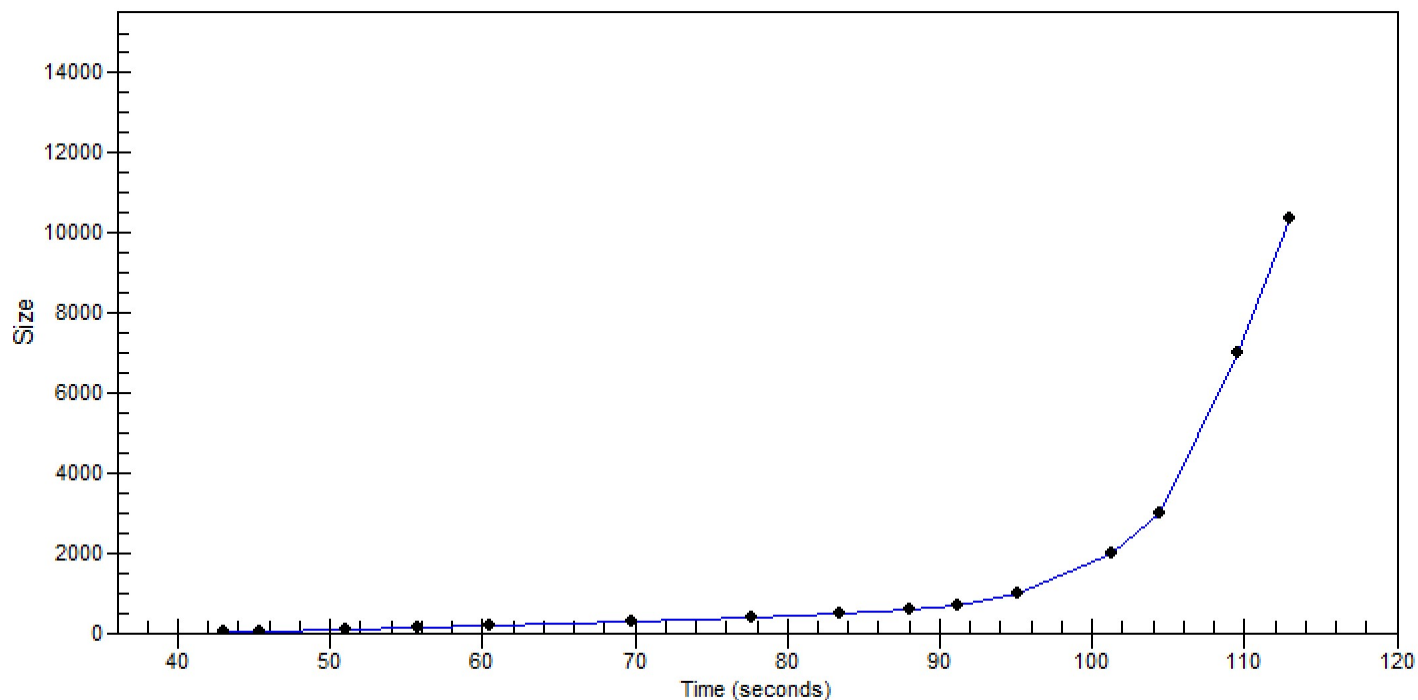
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-10_002.xad

Created: 1/10/2020 3:33:51 PM
Modified: 1/10/2020 5:08:31 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-01-10_002.xad

Created: 1/10/2020 3:33:51 PM
 Modified: 1/10/2020 5:08:31 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		1/10/2020 4:15:09 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-01-10\Bioanalyze r1_High Sensitivity DNA Assay_2020-01-10_002.xad)		Instrument	Run		1/10/2020 3:33:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/10/2020 3:33:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/10/2020 3:33:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/10/2020 3:33:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/10/2020 3:33:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/10/2020 3:33:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/10/2020 3:33:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB