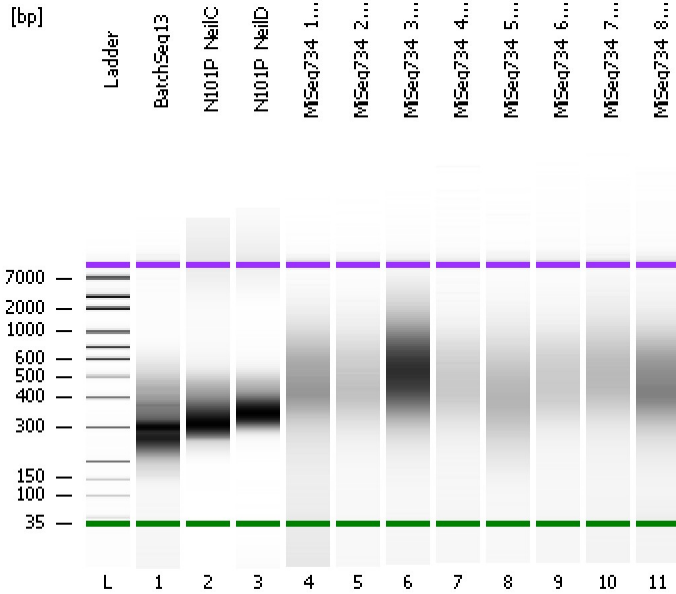


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

Created: 11/28/2018 1:53:55 PM
Modified: 11/28/2018 2:35:15 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\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

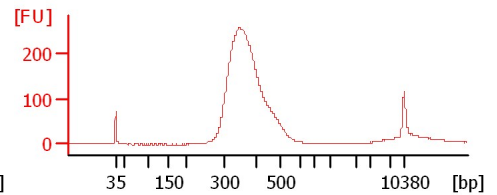
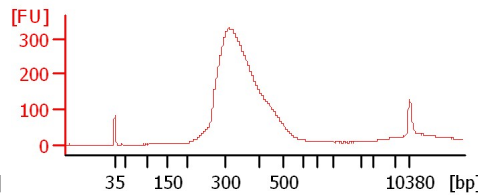
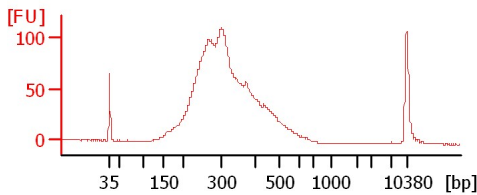
Chip Information:

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

BatchSeq13

N101P_NeiIC

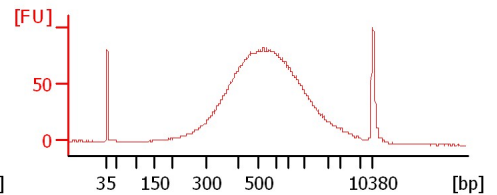
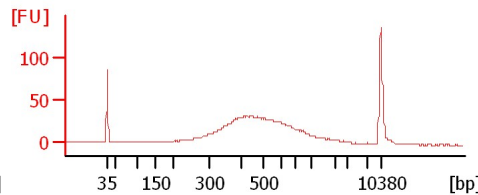
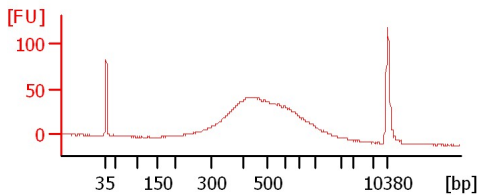
N101P_NeiID



MiSeq734_1_soni

MiSeq734_2_soni

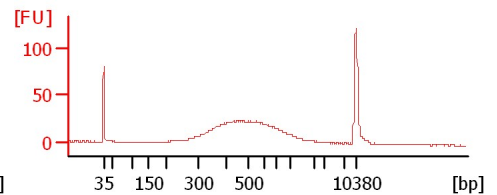
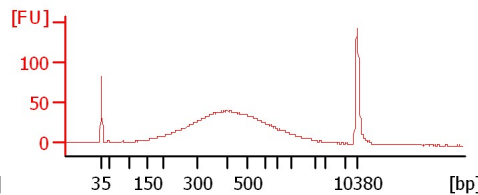
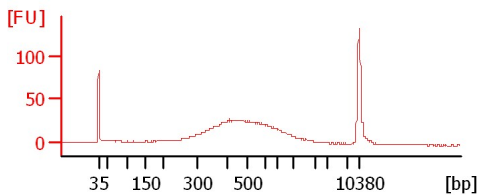
MiSeq734_3_soni



MiSeq734_4_soni

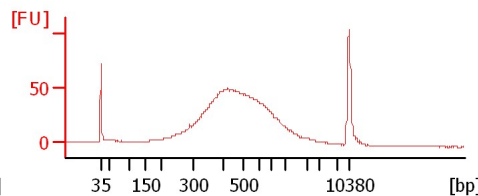
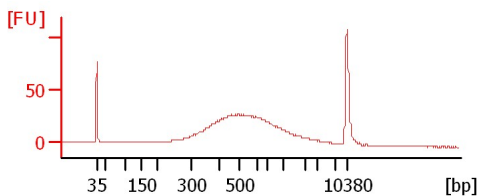
MiSeq734_5_soni

MiSeq734_6_soni



MiSeq734_7_soni

MiSeq734_8_soni



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

Created: 11/28/2018 1:53:55 PM
 Modified: 11/28/2018 2:35:15 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
BatchSeq13		<input type="checkbox"/>	✓			
N101P_NeilC		<input type="checkbox"/>	✓			
N101P_NeilD		<input type="checkbox"/>	✓			
MiSeq734_1_soni		<input type="checkbox"/>	✓			
MiSeq734_2_soni		<input type="checkbox"/>	✓			
MiSeq734_3_soni		<input type="checkbox"/>	✓			
MiSeq734_4_soni		<input type="checkbox"/>	✓			
MiSeq734_5_soni		<input type="checkbox"/>	✓			
MiSeq734_6_soni		<input type="checkbox"/>	✓			
MiSeq734_7_soni		<input type="checkbox"/>	✓			
MiSeq734_8_soni		<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\2018-11-28\2018-11-28_001.xad

Created: 11/28/2018 1:53:55 PM
 Modified: 11/28/2018 2:35:15 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

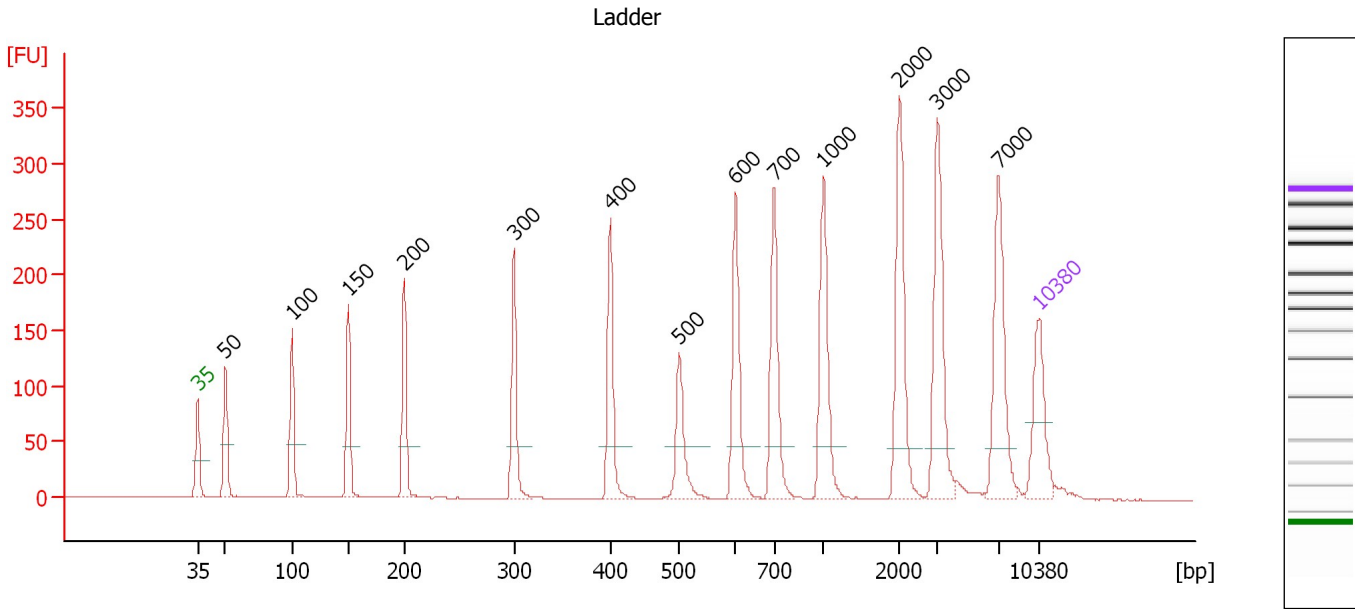
Ladder

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: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

Created: 11/28/2018 1:53:55 PM
 Modified: 11/28/2018 2:35:15 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

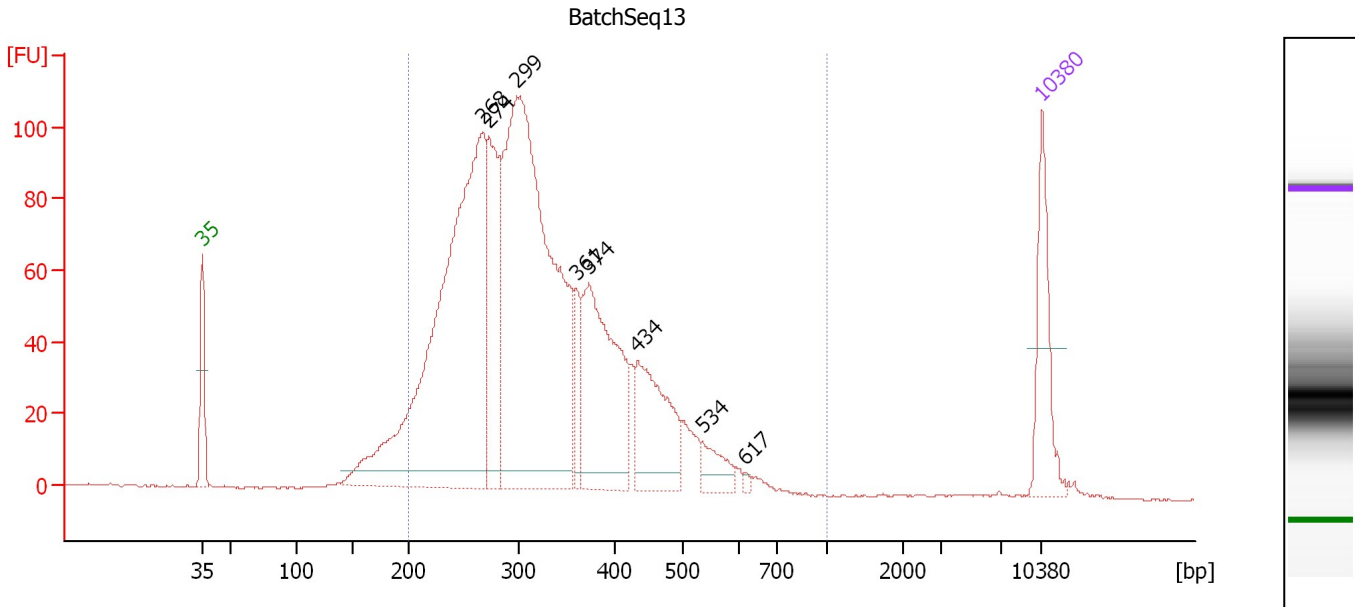
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.31
3	100	150.00	2,272.7	Ladder Peak	50.85
4	150	150.00	1,515.2	Ladder Peak	55.55
5	200	150.00	1,136.4	Ladder Peak	60.17
6	300	150.00	757.6	Ladder Peak	69.31
7	400	150.00	568.2	Ladder Peak	77.33
8	500	150.00	454.5	Ladder Peak	83.06
9	600	150.00	378.8	Ladder Peak	87.76
10	700	150.00	324.7	Ladder Peak	90.95
11	1,000	150.00	227.3	Ladder Peak	95.08
12	2,000	150.00	113.6	Ladder Peak	101.38
13	3,000	150.00	75.8	Ladder Peak	104.53
14	7,000	150.00	32.5	Ladder Peak	109.63
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

Created: 11/28/2018 1:53:55 PM
 Modified: 11/28/2018 2:35:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : BatchSeq13

Number of peaks found: 8 Corr. Area 1: 2,155.7
 Noise: 0.3

Peak table for sample 1 : BatchSeq13

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	268	830.49	4,693.0		66.39
3	274	206.54	1,142.2		66.93
4	299	846.95	4,288.0		69.24
5	361	50.25	211.1		74.18
6	374	262.88	1,065.1		75.24
7	434	143.73	501.6		79.29
8	534	34.37	97.5		84.67
9	617	3.77	9.3		88.32
10	10,380	75.00	10.9	Upper Marker	113.00

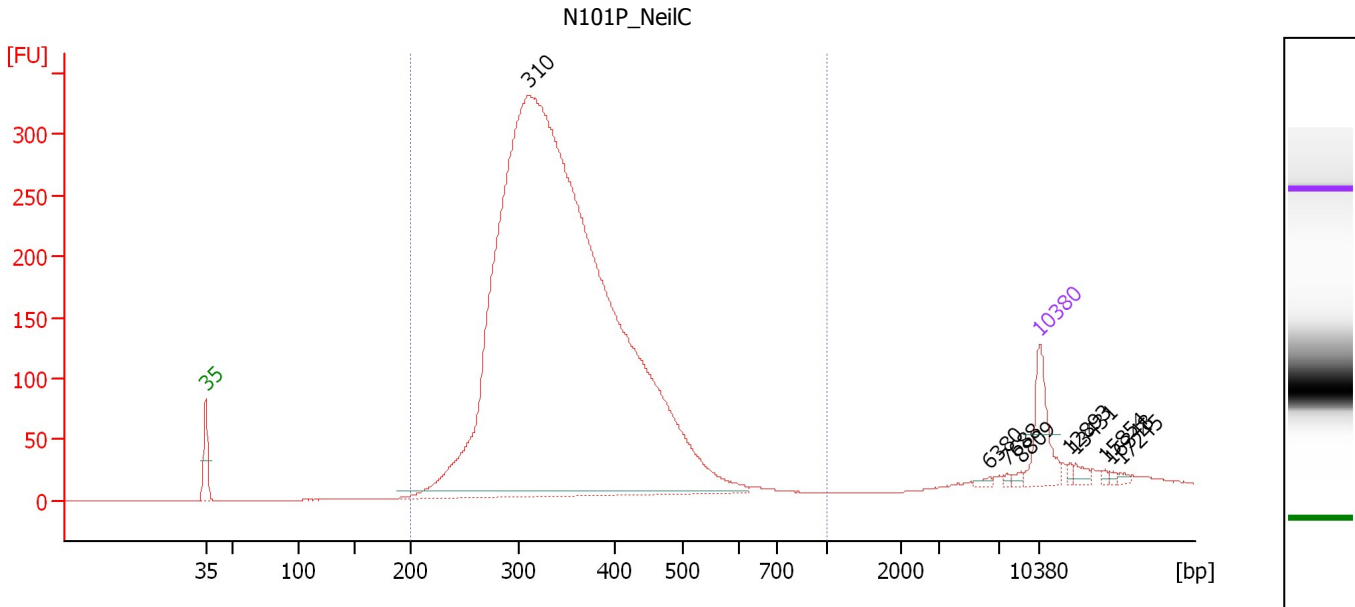
Region table for sample 1 : BatchSeq13

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	329	2,388.65	2,155.7	11,928.2	95	26.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

Created: 11/28/2018 1:53:55 PM
 Modified: 11/28/2018 2:35:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : N101P_NeilC

Number of peaks found: 9 Corr. Area 1: 4,998.3
 Noise: 0.3

Peak table for sample 2 : N101P_NeilC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	310	4,594.94	22,485.6		70.08
3	6,380	5.37	1.3		108.84
4	7,688	3.26	0.6		110.31
5	8,809	5.61	1.0		111.43
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,893	0.00	0.0		115.51
8	13,431	0.00	0.0		116.04
9	15,854	0.00	0.0		118.46
10	16,348	0.00	0.0		118.95
11	17,245	0.00	0.0		119.85

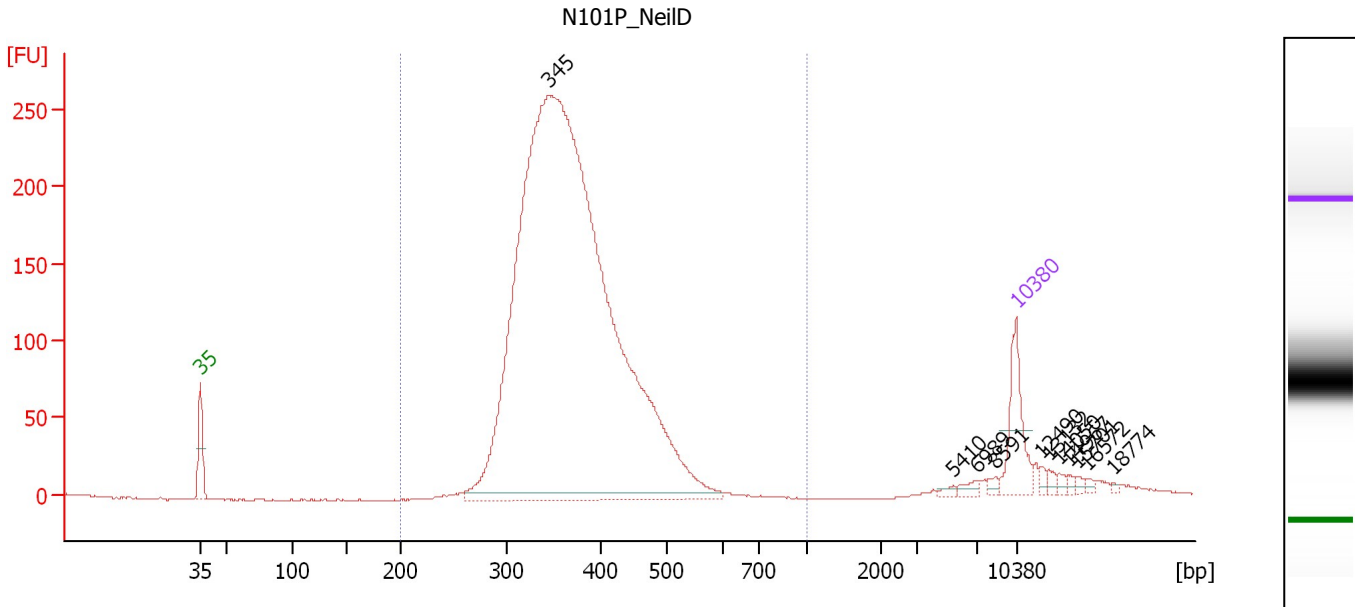
Region table for sample 2 : N101P_NeilC

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	349	4,212.36	4,998.3	19,073.6	98	18.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

Created: 11/28/2018 1:53:55 PM
 Modified: 11/28/2018 2:35:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : N101P_NeilD

Number of peaks found: 11 Corr. Area 1: 3,216.4
 Noise: 0.5

Peak table for sample 3 : N101P_NeilD

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	345	3,068.10	13,472.8		72.92
3	5,410	5.33	1.5		107.60
4	6,989	8.85	1.9		109.61
5	8,591	7.08	1.2		111.22
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,490	0.00	0.0		115.10
8	13,132	0.00	0.0		115.75
9	14,050	0.00	0.0		116.66
10	14,967	0.00	0.0		117.58
11	15,701	0.00	0.0		118.31
12	16,572	0.00	0.0		119.18
13	18,774	0.00	0.0		121.37

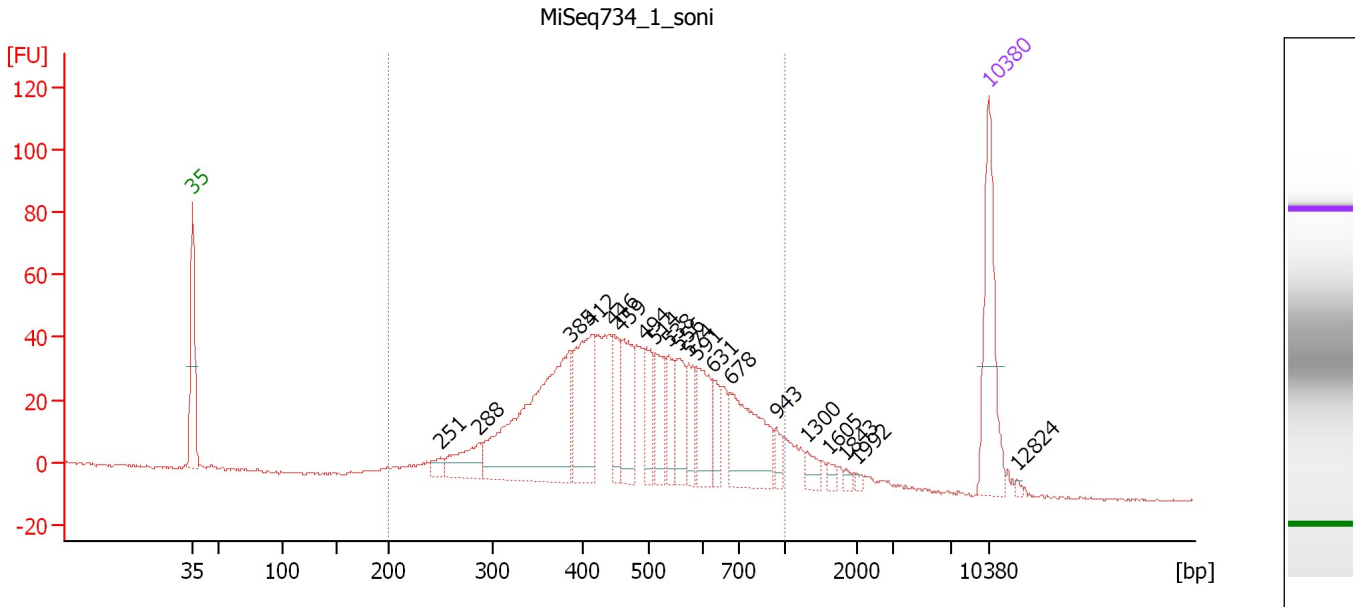
Region table for sample 3 : N101P_NeilD

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	371	2,857.59	3,216.4	11,927.0	96	14.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

Created: 11/28/2018 1:53:55 PM
 Modified: 11/28/2018 2:35:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MiSeq734_1_soni

Number of peaks found: 20 Corr. Area 1: 1,146.1
 Noise: 0.3

Peak table for sample 4 : MiSeq734_1_soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	251	11.97	72.3		64.80
3	288	42.37	223.1		68.18
4	385	236.42	929.9		76.15
5	412	99.87	367.2		78.02
6	446	39.25	133.2		79.99
7	459	58.58	193.5		80.70
8	494	39.11	120.0		82.71
9	514	40.77	120.3		83.70
10	538	34.72	97.9		84.82
11	556	36.92	100.5		85.71
12	574	29.29	77.2		86.56
13	591	46.21	118.4		87.35
14	631	20.25	48.6		88.76
15	678	90.95	203.1		90.26
16	943	10.94	17.6		94.29
17	1,300	10.42	12.1		96.97
18	1,605	5.60	5.3		98.89
19	1,843	3.48	2.9		100.39
20	1,992	2.92	2.2		101.33
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,824	0.00	0.0		115.44

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

Created: 11/28/2018 1:53:55 PM
Modified: 11/28/2018 2:35:15 PM

Electropherogram Summary Continued ...

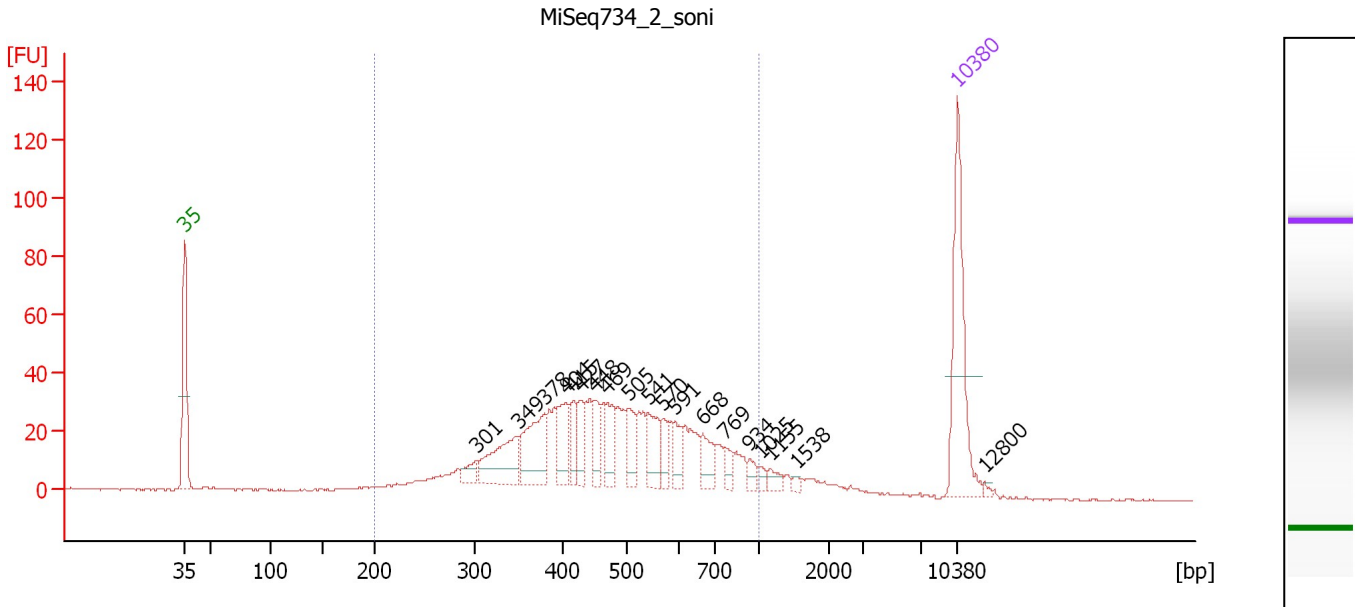
... Region table for sample 4 : MiSeq734_1_soni

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	496	1,008.42	1,146.0	3,502.8	 93	31.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

Created: 11/28/2018 1:53:55 PM
 Modified: 11/28/2018 2:35:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : MiSeq734_2_soni

Number of peaks found: 19 Corr. Area 1: 808.9
 Noise: 0.2

Peak table for sample 5 : MiSeq734_2_soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	301	11.67	58.7		69.41
3	349	53.05	230.5		73.22
4	378	56.48	226.2		75.59
5	404	31.42	117.8		77.57
6	415	19.21	70.1		78.19
7	427	20.66	73.4		78.87
8	448	21.90	74.1		80.08
9	469	26.30	85.0		81.28
10	505	22.65	67.9		83.31
11	541	28.75	80.5		85.00
12	570	14.18	37.7		86.35
13	591	15.74	40.4		87.32
14	668	19.88	45.1		89.92
15	769	10.01	19.7		91.90
16	934	6.76	11.0		94.17
17	1,025	4.39	6.5		95.23
18	1,155	6.86	9.0		96.06
19	1,538	2.52	2.5		98.47
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,800	0.00	0.0		115.41

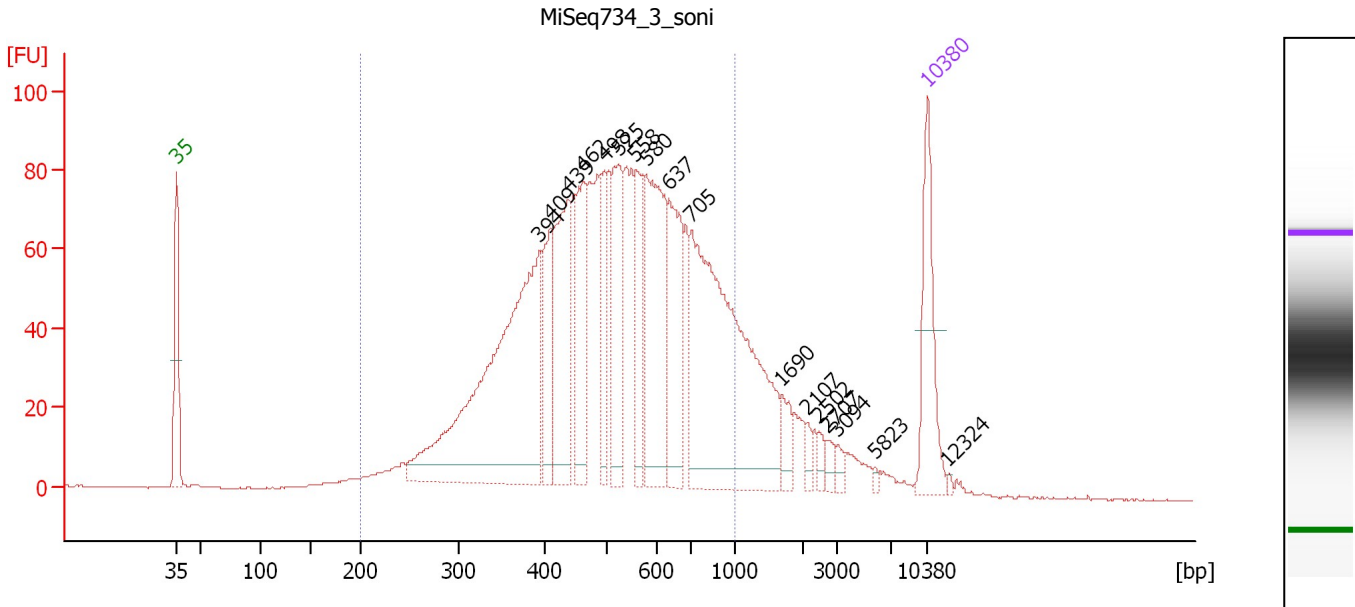
Region table for sample 5 : MiSeq734_2_soni

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	489	669.34	808.9	2,372.6	90	31.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

Created: 11/28/2018 1:53:55 PM
 Modified: 11/28/2018 2:35:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : MiSeq734_3_soni

Number of peaks found: 17 Corr. Area 1: 2,046.9
 Noise: 0.2

Peak table for sample 6 : MiSeq734_3_soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	394	452.34	1,739.3		76.86
3	409	83.13	308.0		77.85
4	439	152.32	526.2		79.54
5	462	102.06	334.7		80.88
6	498	64.42	196.1		82.92
7	525	111.35	321.6		84.21
8	558	68.21	185.1		85.81
9	580	176.69	461.9		86.80
10	637	113.32	269.6		88.94
11	705	405.13	870.3		91.03
12	1,690	19.57	17.5		99.43
13	2,107	8.75	6.3		101.71
14	2,502	8.46	5.1		102.96
15	2,707	8.44	4.7		103.60
16	3,094	7.29	3.6		104.65
17	5,823	2.82	0.7		108.13
18	10,380	75.00	10.9	Upper Marker	113.00
19	12,324	0.00	0.0		114.94

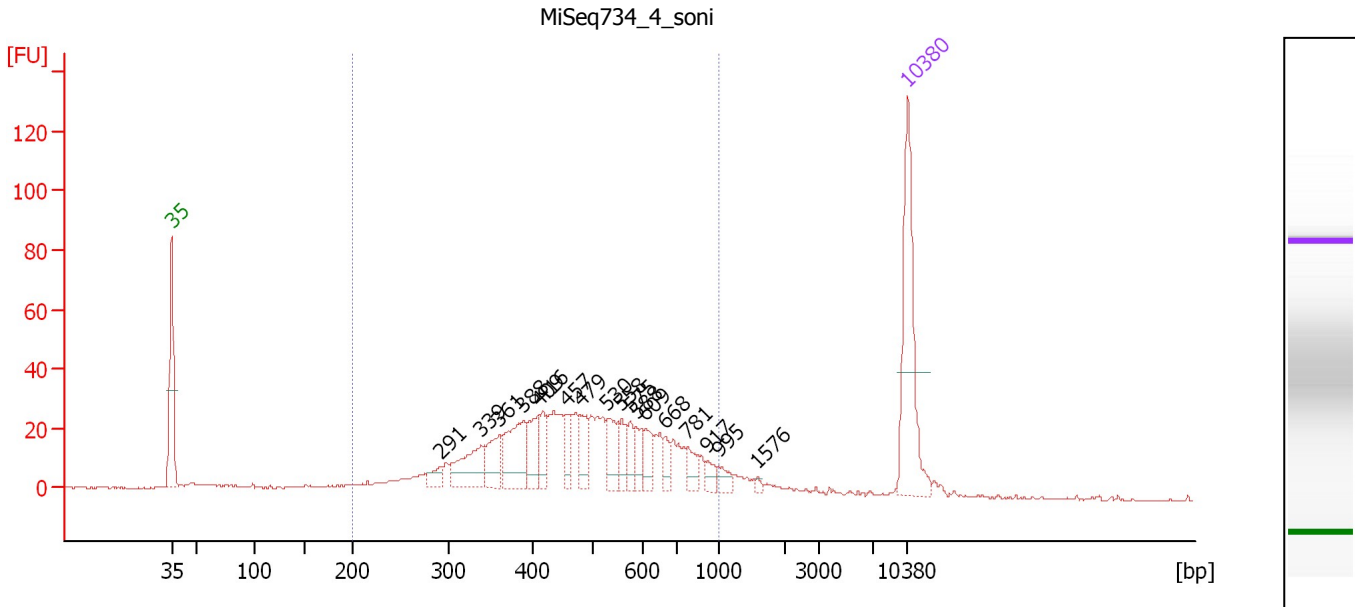
Region table for sample 6 : MiSeq734_3_soni

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	528	2,103.89	2,046.9	6,942.7	86	31.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

Created: 11/28/2018 1:53:55 PM
 Modified: 11/28/2018 2:35:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : MiSeq734_4_soni

Number of peaks found: 18 Corr. Area 1: 664.8
 Noise: 0.2

Peak table for sample 7 : MiSeq734_4_soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	291	11.85	61.7		68.50
3	339	40.85	182.5		72.45
4	361	29.06	122.1		74.17
5	388	48.91	190.8		76.40
6	409	26.36	97.6		77.87
7	416	16.73	60.9		78.28
8	457	17.58	58.3		80.61
9	479	20.53	65.0		81.83
10	530	24.82	71.0		84.46
11	558	14.01	38.1		85.78
12	575	12.41	32.7		86.59
13	588	13.23	34.1		87.20
14	609	15.75	39.1		88.06
15	668	9.47	21.5		89.94
16	781	11.79	22.9		92.07
17	917	6.73	11.1		93.94
18	995	7.90	12.0		95.01
19	1,576	2.26	2.2		98.71
20	10,380	75.00	10.9	Upper Marker	113.00

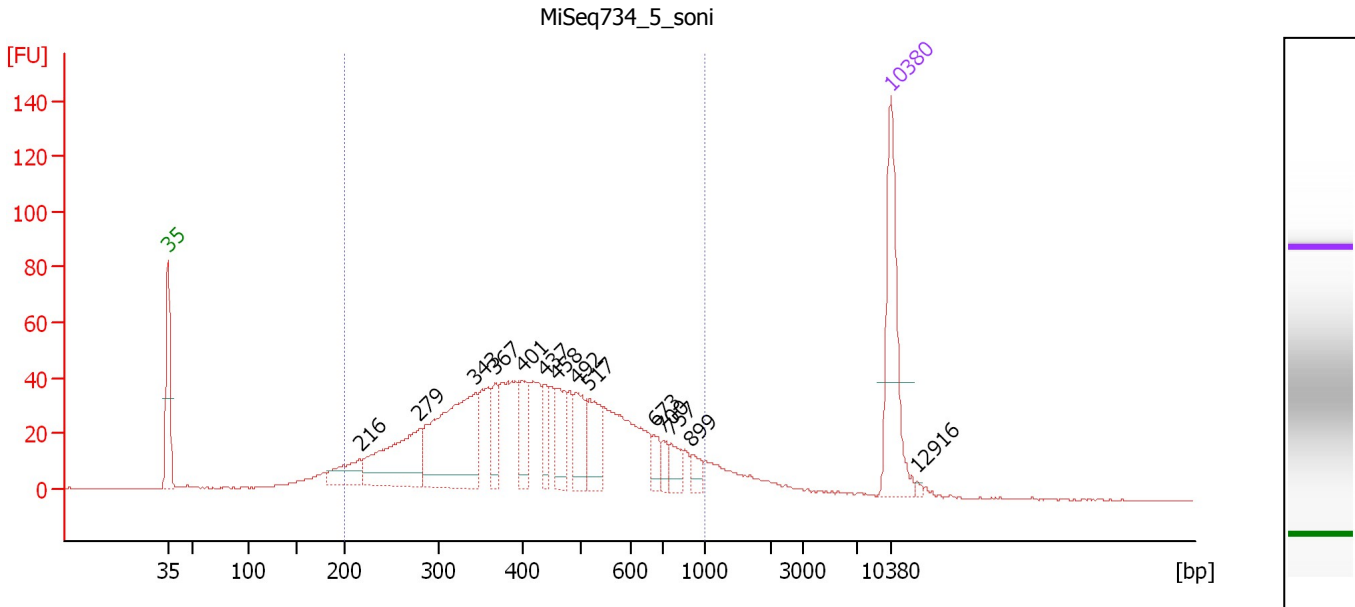
Region table for sample 7 : MiSeq734_4_soni

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	493	526.19	664.8	1,852.9	90	31.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

Created: 11/28/2018 1:53:55 PM
 Modified: 11/28/2018 2:35:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MiSeq734_5_soni

Number of peaks found: 14 Corr. Area 1: 1,231.8
 Noise: 0.2

Peak table for sample 8 : MiSeq734_5_soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	216	34.05	239.4		61.58
3	279	102.01	554.4		67.37
4	343	154.77	683.0		72.79
5	367	24.03	99.2		74.70
6	401	35.87	135.6		77.38
7	437	21.94	76.1		79.45
8	458	36.66	121.4		80.63
9	492	36.79	113.3		82.59
10	517	37.03	108.6		83.83
11	673	13.13	29.6		90.08
12	700	10.05	21.7		90.96
13	757	15.16	30.4		91.73
14	899	9.68	16.3		93.69
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,916	0.00	0.0		115.53

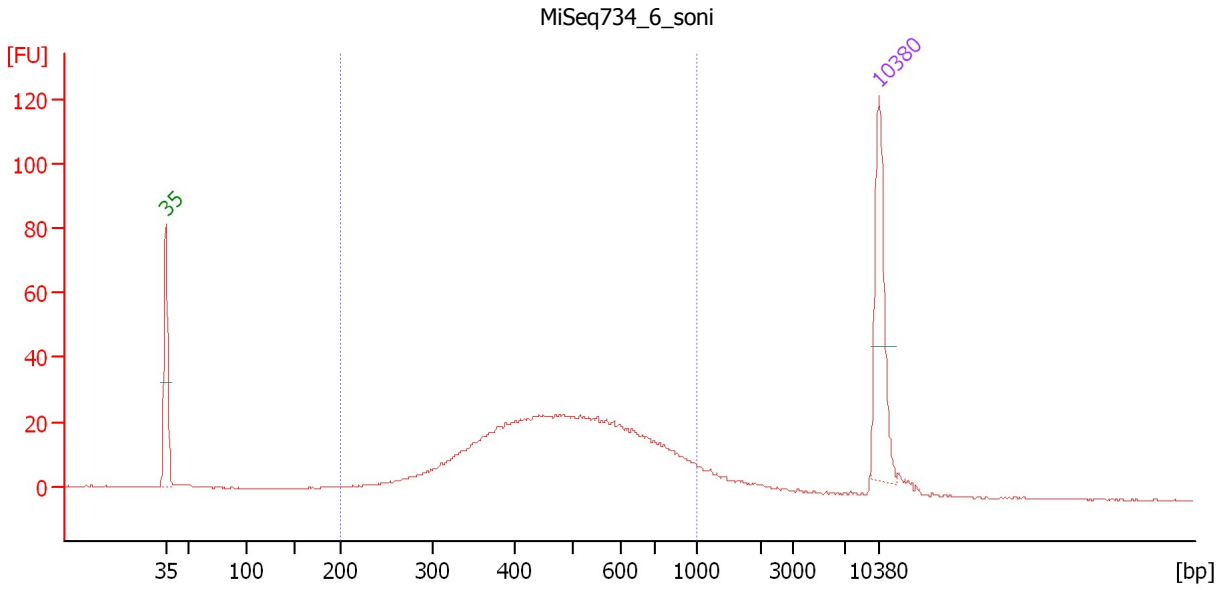
Region table for sample 8 : MiSeq734_5_soni

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	445	884.68	1,231.8	3,553.9	88	35.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

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Modified: 11/28/2018 2:35:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MiSeq734_6_soni

Number of peaks found: 0 Corr. Area 1: 613.4
Noise: 0.1

Peak table for sample 9 : MiSeq734_6_soni

Pea k	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

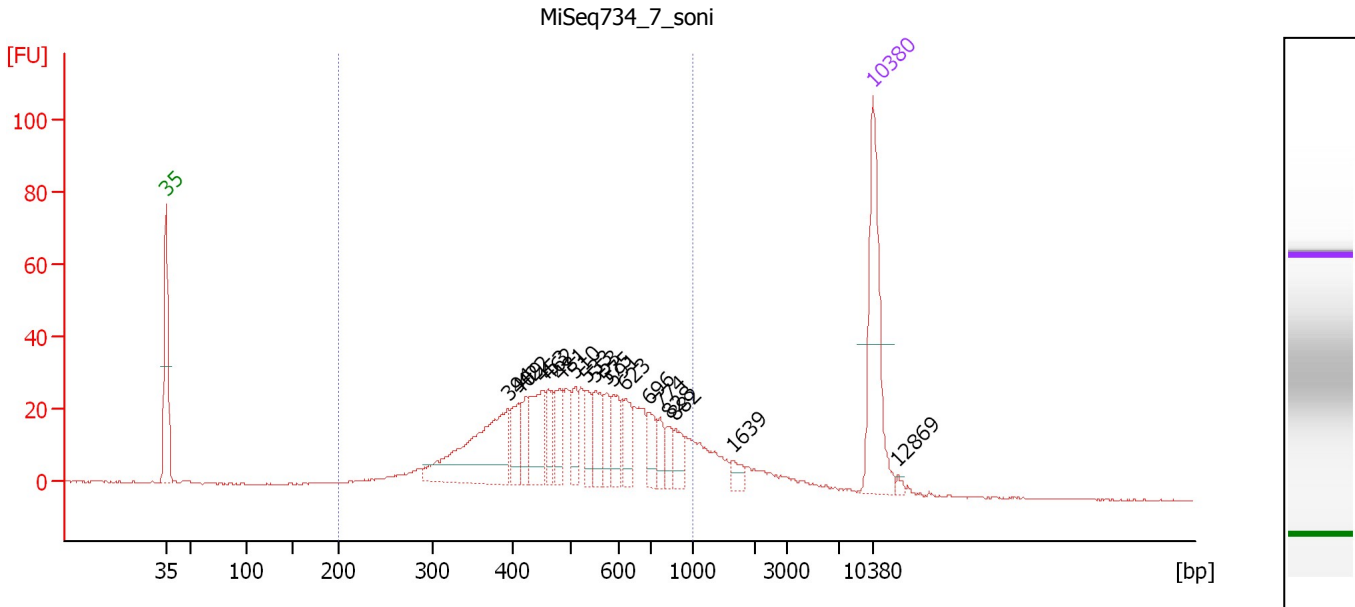
Region table for sample 9 : MiSeq734_6_soni

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	504	570.36	613.4	1,959.2	88	31.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : MiSeq734 7_soni

Number of peaks found: 18 Corr. Area 1: 680.7
 Noise: 0.2

Peak table for sample 10 : MiSeq734 7_soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	394	114.56	440.4		76.86
3	409	23.77	88.0		77.87
4	422	18.42	66.1		78.61
5	453	44.16	147.8		80.35
6	462	19.84	65.1		80.88
7	481	24.37	76.7		81.99
8	510	20.86	62.0		83.52
9	533	19.71	56.0		84.63
10	553	25.85	70.9		85.53
11	575	16.84	44.4		86.58
12	591	23.50	60.3		87.32
13	623	22.00	53.5		88.49
14	696	17.90	39.0		90.81
15	774	13.06	25.6		91.97
16	828	10.87	19.9		92.71
17	882	13.99	24.0		93.45
18	1,639	7.05	6.5		99.11
19	10,380	75.00	10.9	Upper Marker	113.00
20	12,869	0.00	0.0		115.48

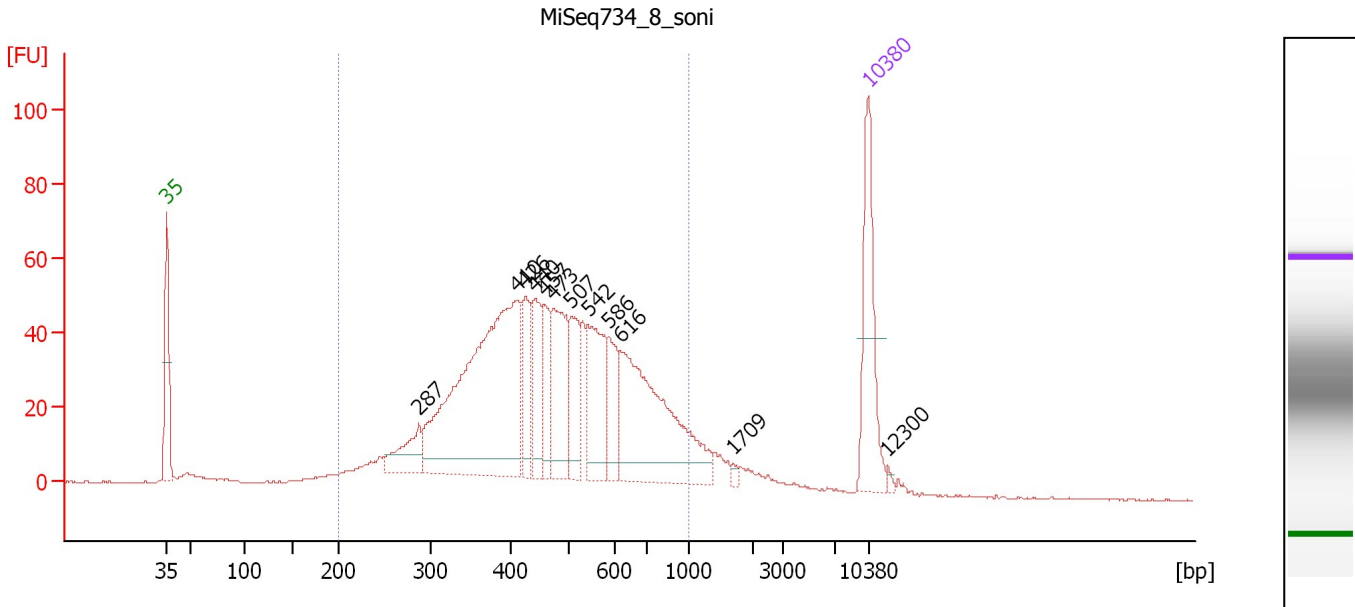
Region table for sample 10 : MiSeq734 7_soni

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	523	612.92	680.7	2,032.2	86	31.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : MiSeq734 8 soni

Number of peaks found: 12 Corr. Area 1: 1,286.1
 Noise: 0.2

Peak table for sample 11 : MiSeq734 8 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	287	45.07	237.6		68.16
3	410	358.78	1,326.6		77.89
4	426	47.85	170.4		78.80
5	440	55.72	191.7		79.65
6	457	42.33	140.3		80.61
7	473	91.72	293.8		81.51
8	507	53.13	158.9		83.37
9	542	84.98	237.7		85.02
10	586	38.72	100.1		87.10
11	616	192.64	473.9		88.27
12	1,709	2.84	2.5		99.54
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,300	0.00	0.0		114.91

Region table for sample 11 : MiSeq734 8 soni

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	485	1,220.04	1,286.1	4,380.2	90	32.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-28\2018-11-28_001.xad

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Gel Image

