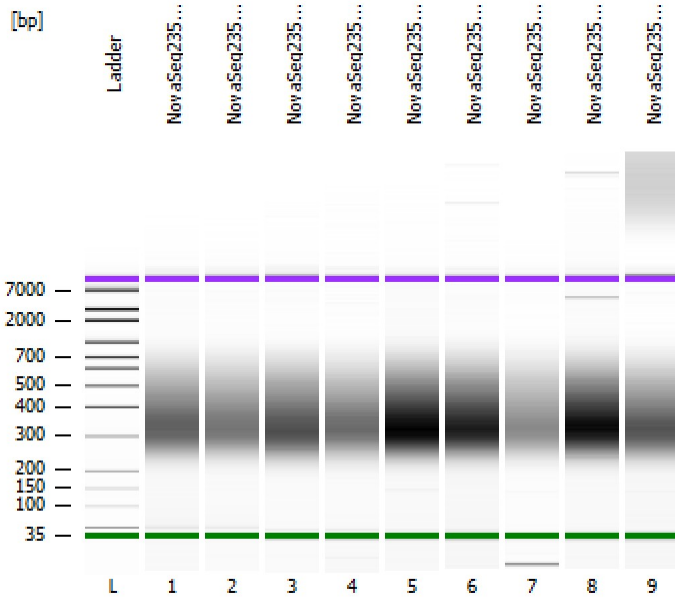


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
Modified: 8/14/2020 3:25:40 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

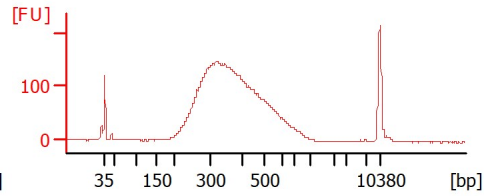
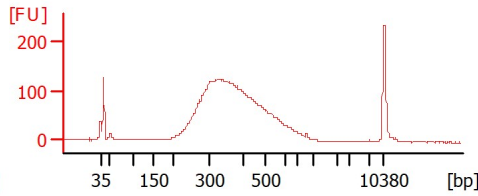
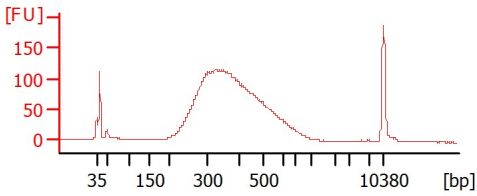
Chip Information:

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

NovaSeq235 Lib 34

NovaSeq235 Lib 35

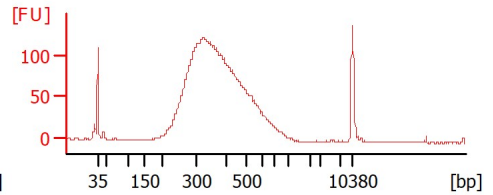
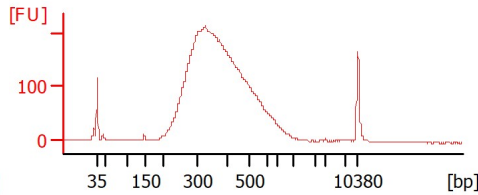
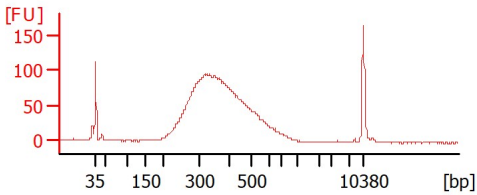
NovaSeq235 Lib 36



NovaSeq235 Lib 37

NovaSeq235 Lib 38

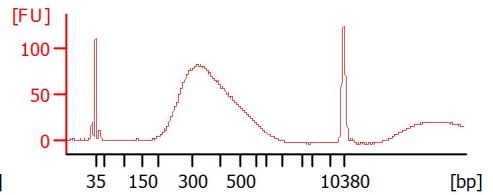
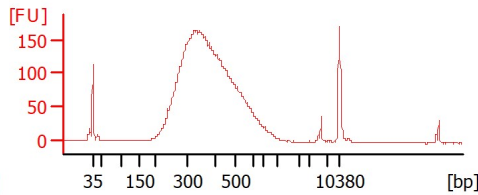
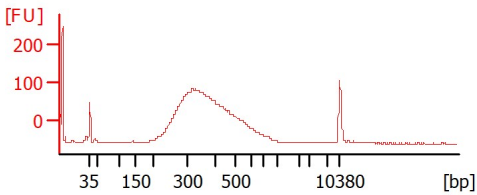
NovaSeq235 Lib 39



NovaSeq235 Lib 40

NovaSeq235 Lib 41

NovaSeq235 Lib 42



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
 Modified: 8/14/2020 3:25:40 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
NovaSeq235 Lib 34		<input type="checkbox"/>	✓			
NovaSeq235 Lib 35		<input type="checkbox"/>	✓			
NovaSeq235 Lib 36		<input type="checkbox"/>	✓			
NovaSeq235 Lib 37		<input type="checkbox"/>	✓			
NovaSeq235 Lib 38		<input type="checkbox"/>	✓			
NovaSeq235 Lib 39		<input type="checkbox"/>	✓			
NovaSeq235 Lib 40		<input type="checkbox"/>	✓			
NovaSeq235 Lib 41		<input type="checkbox"/>	✓			
NovaSeq235 Lib 42		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
Modified: 8/14/2020 3:25:40 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

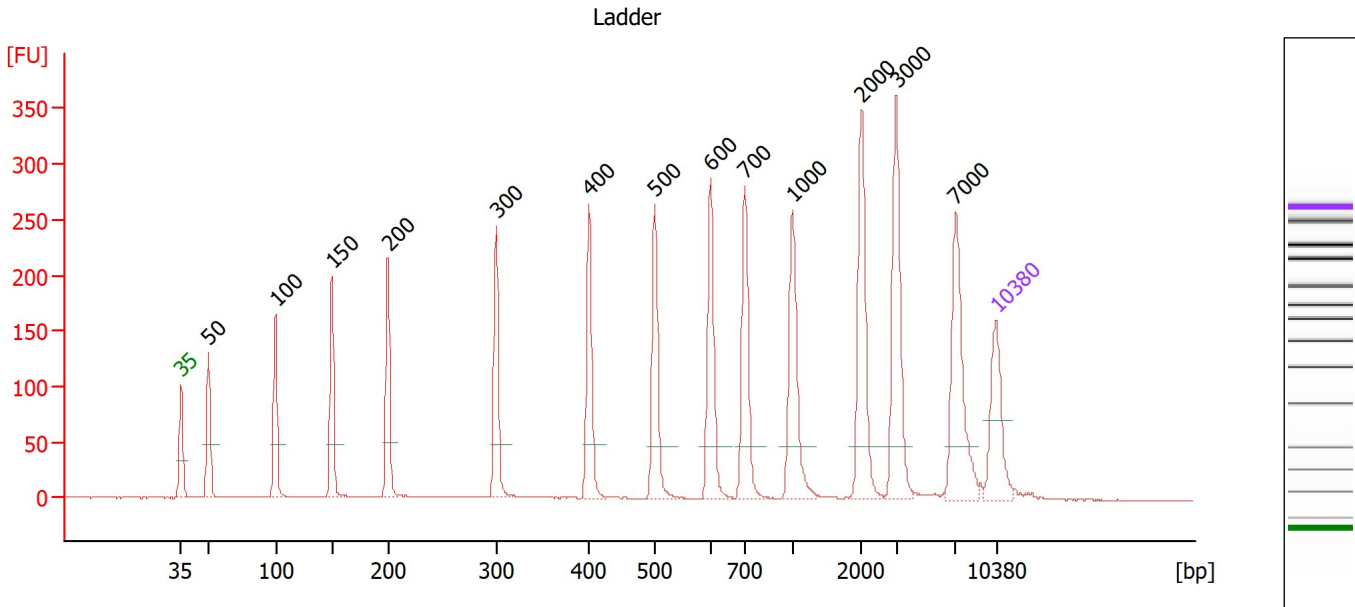
Ladder

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:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
 Modified: 8/14/2020 3:25:40 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

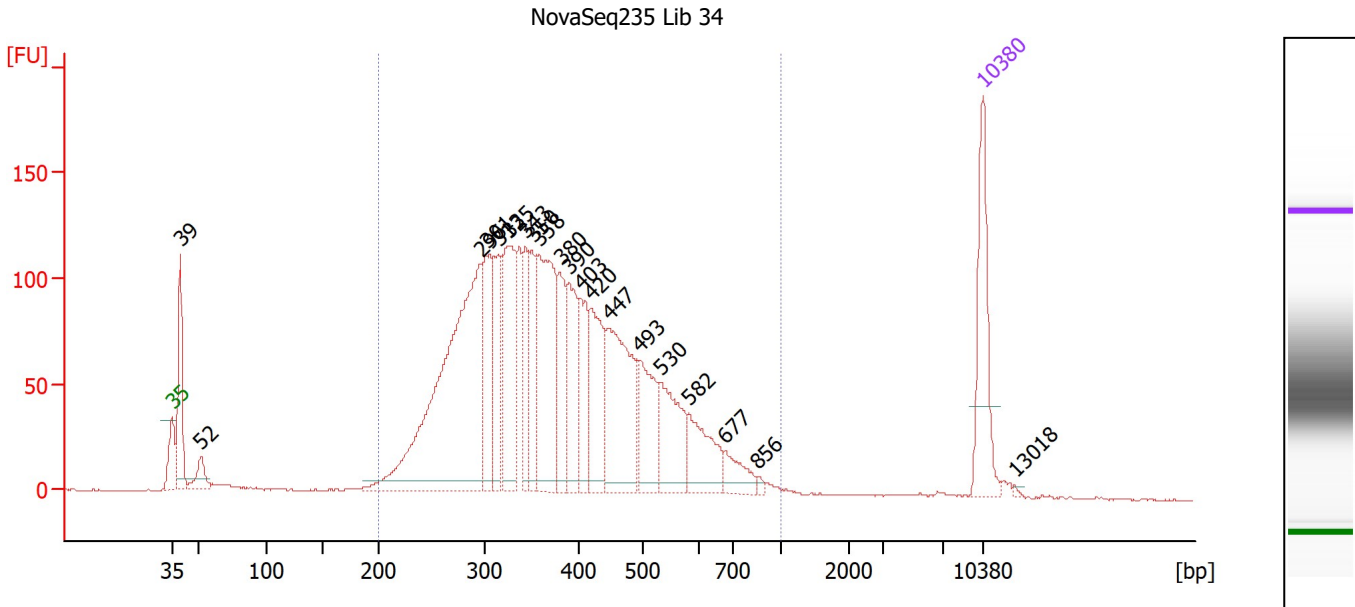
Peak table for Ladder

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:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
 Modified: 8/14/2020 3:25:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : NovaSeq235 Lib 34

Number of peaks found: 20 Corr. Area 1: 2,979.4
 Noise: 0.3

Peak table for sample 1 : NovaSeq235 Lib 34

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	114.81	4,411.0	
3	52	30.33	888.9	
4	296	460.20	2,358.9	
5	301	108.59	546.2	
6	313	84.98	410.9	
7	325	138.52	646.0	
8	343	65.98	291.2	
9	350	64.10	277.2	
10	358	185.88	785.8	
11	380	70.09	279.2	
12	390	84.23	327.1	
13	403	69.60	261.5	
14	420	98.07	354.1	
15	447	152.20	515.4	
16	493	76.85	236.1	
17	530	80.41	229.7	
18	582	60.68	158.0	
19	677	27.00	60.4	
20	856	3.19	5.6	
21	10,380	75.00	10.9	Upper Marker
22	13,018	0.00	0.0	

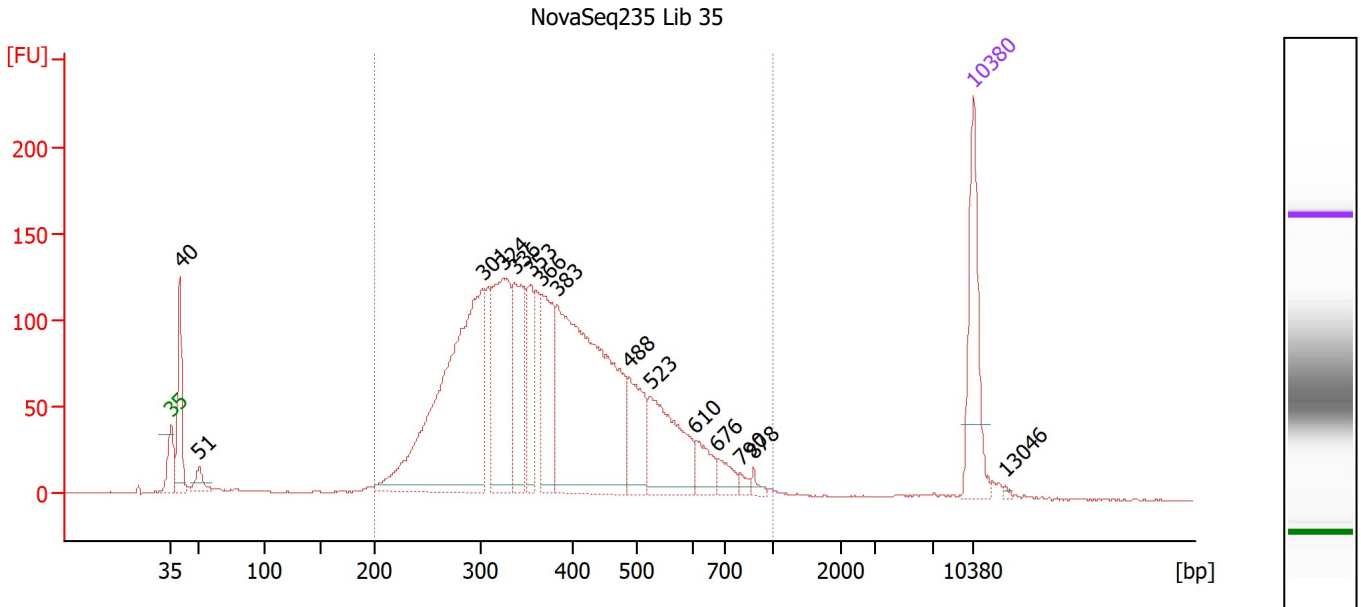
Region table for sample 1 : NovaSeq235 Lib 34

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	2,979.4	92	391	29.9	1,974.51	8,509.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
 Modified: 8/14/2020 3:25:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : NovaSeq235 Lib 35

Number of peaks found: 15 Corr. Area 1: 3,126.2
 Noise: 0.4

Peak table for sample 2 : NovaSeq235 Lib 35

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	105.71	4,026.1	
3	51	21.55	638.5	
4	301	444.92	2,241.5	
5	324	179.99	841.4	
6	336	113.82	513.6	
7	353	64.75	277.7	
8	366	106.45	440.5	
9	383	401.79	1,589.2	
10	488	71.61	222.1	
11	523	112.70	326.4	
12	610	27.67	68.7	
13	676	18.26	41.0	
14	790	5.67	10.9	
15	878	5.72	9.9	
16	10,380	75.00	10.9	Upper Marker
17	13,046	0.00	0.0	

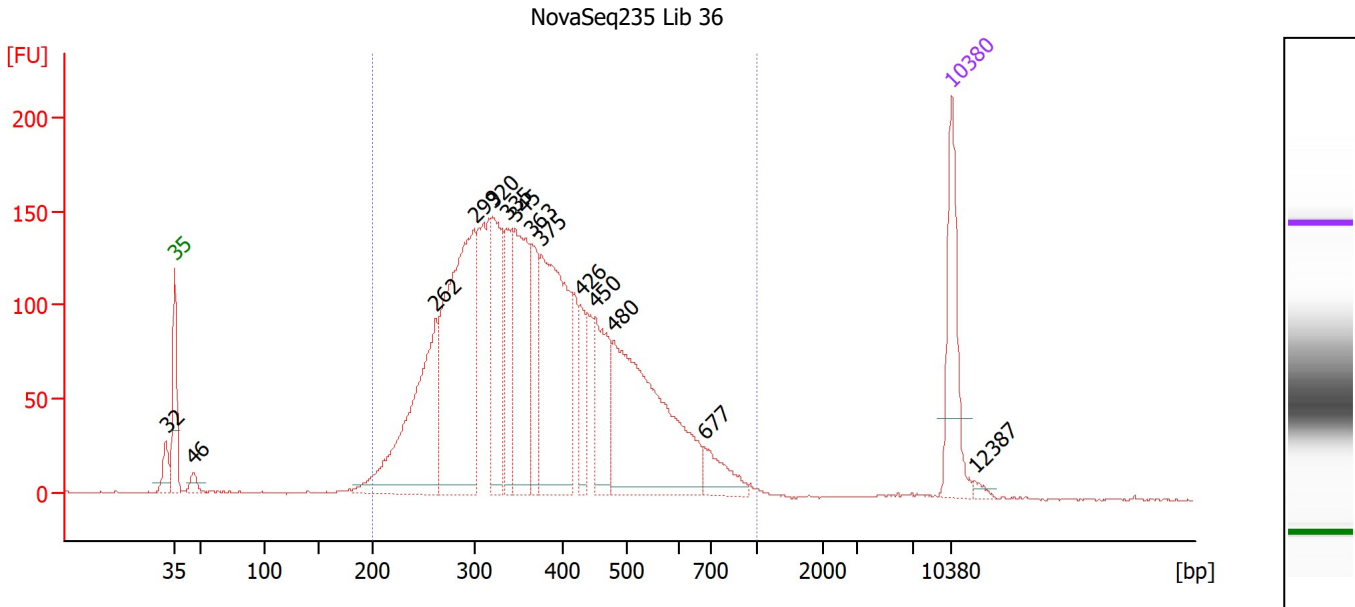
Region table for sample 2 : NovaSeq235 Lib 35

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	3,126.2	92	392	30.0	1,722.15	7,412.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
 Modified: 8/14/2020 3:25:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : NovaSeq235 Lib 36

Number of peaks found: 14 Corr. Area 1: 3,697.6
 Noise: 0.5

Peak table for sample 3 : NovaSeq235 Lib 36

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	46	14.90	492.9	
4	262	254.46	1,473.5	
5	299	367.14	1,861.2	
6	320	127.13	602.3	
7	335	92.55	418.0	
8	345	165.46	726.4	
9	363	85.52	357.3	
10	375	254.40	1,028.7	
11	426	48.53	172.4	
12	450	92.85	312.4	
13	480	288.57	910.5	
14	677	37.20	83.3	
15	10,380	75.00	10.9	Upper Marker
16	12,387	0.00	0.0	

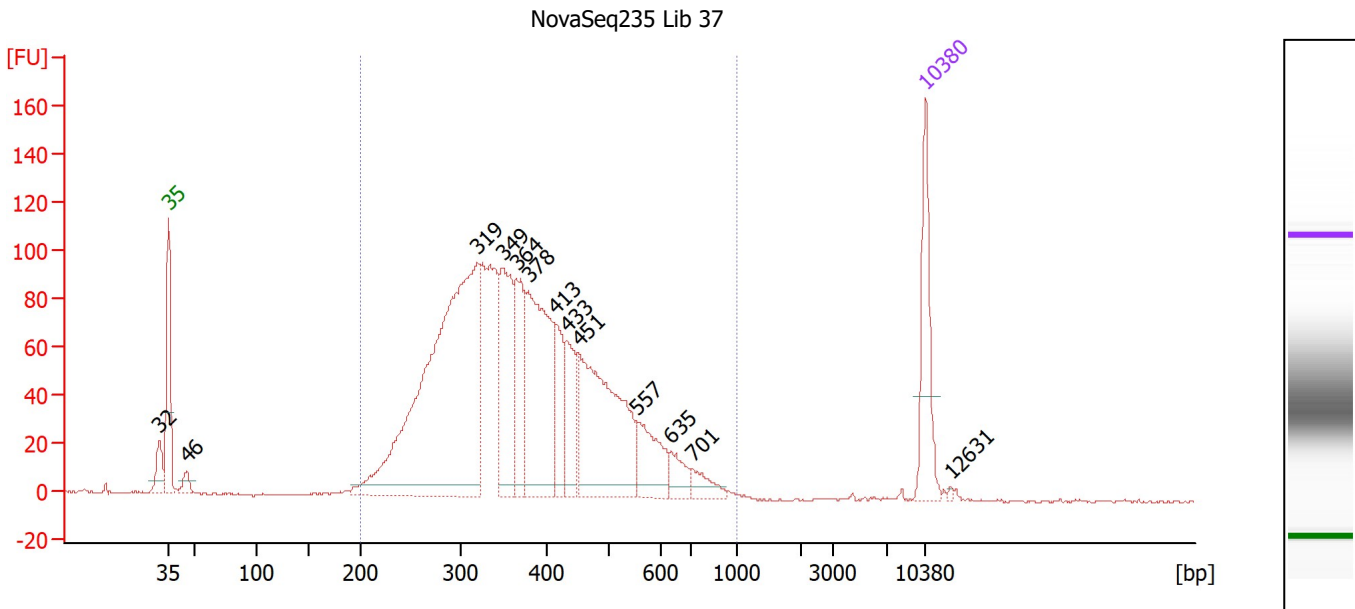
Region table for sample 3 : NovaSeq235 Lib 36

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	3,697.6	96	387	30.5	2,061.73	9,031.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
 Modified: 8/14/2020 3:25:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : NovaSeq235 Lib 37

Number of peaks found: 13 Corr. Area 1: 2,239.3
 Noise: 0.5

Peak table for sample 4 : NovaSeq235 Lib 37

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	46	17.99	595.6	
4	319	699.64	3,320.3	
5	349	153.88	668.1	
6	364	107.08	445.2	
7	378	237.79	953.0	
8	413	69.13	253.8	
9	433	68.06	238.2	
10	451	259.89	872.6	
11	557	67.47	183.6	
12	635	27.54	65.7	
13	701	22.16	47.9	
14	10,380	75.00	10.9	Upper Marker
15	12,631	0.00	0.0	

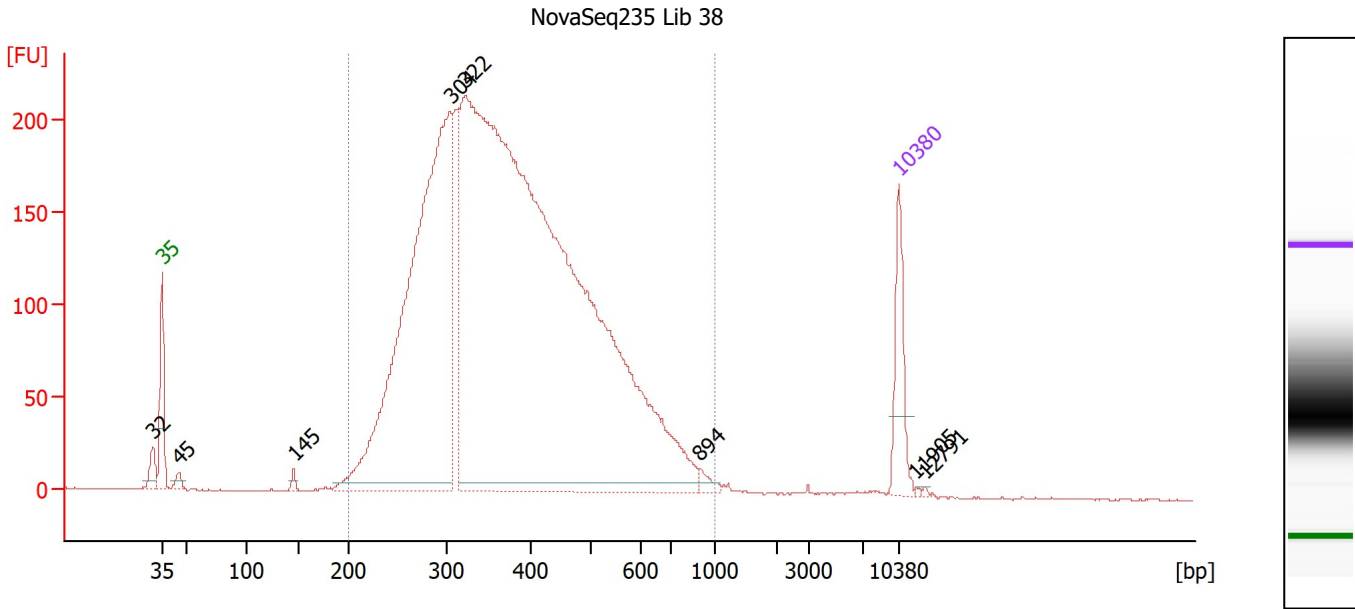
Region table for sample 4 : NovaSeq235 Lib 37

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	2,239.3	97	386	28.9	1,965.02	8,532.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
 Modified: 8/14/2020 3:25:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : NovaSeq235 Lib 38

Number of peaks found: 8 Corr. Area 1: 5,088.6
 Noise: 0.6

Peak table for sample 5 : NovaSeq235 Lib 38

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	45	17.02	571.8	
4	145	8.99	93.7	
5	304	1,220.59	6,089.5	
6	322	3,145.73	14,824.9	
7	894	12.30	20.9	
8	10,380	75.00	10.9	Upper Marker
9	11,905	0.00	0.0	
10	12,791	0.00	0.0	

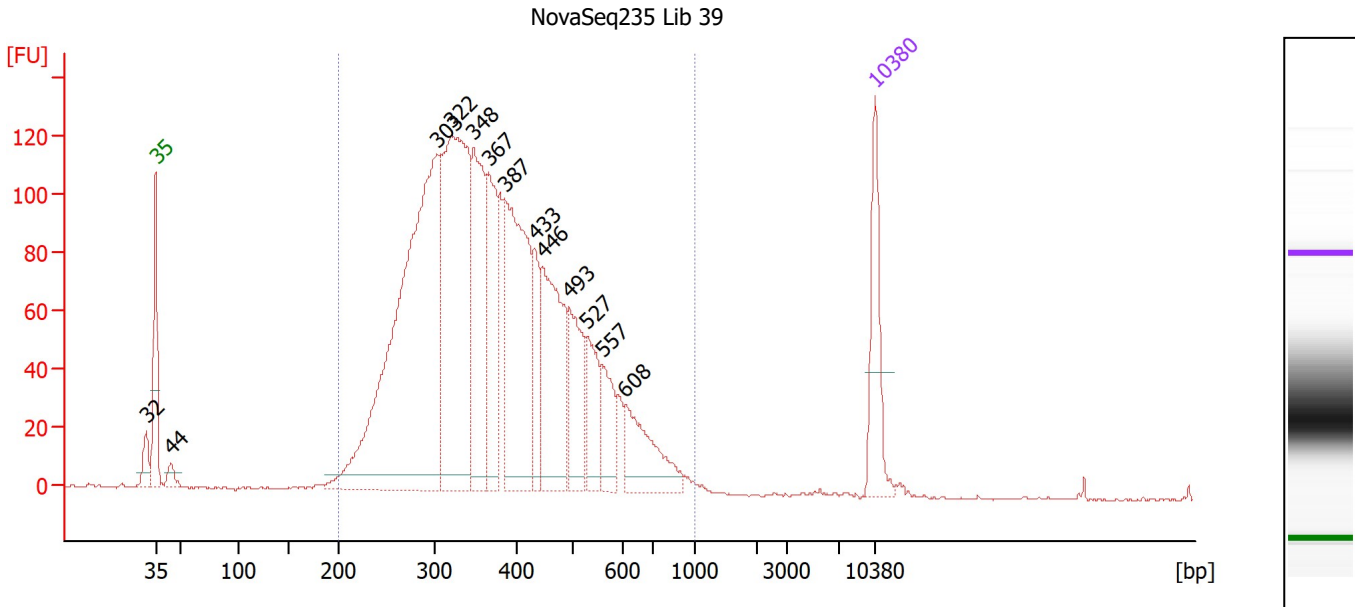
Region table for sample 5 : NovaSeq235 Lib 38

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	5,088.6	98	389	30.2	4,135.12	17,917.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
 Modified: 8/14/2020 3:25:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : NovaSeq235 Lib 39

Number of peaks found: 13 Corr. Area 1: 2,779.9
 Noise: 0.5

Peak table for sample 6 : NovaSeq235 Lib 39

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	44	20.63	705.3	
4	303	790.54	3,956.7	
5	322	485.68	2,288.2	
6	348	213.17	927.4	
7	367	157.32	650.4	
8	387	289.18	1,131.2	
9	433	75.17	263.2	
10	446	197.14	670.3	
11	493	103.94	319.7	
12	527	68.07	195.7	
13	557	60.15	163.6	
14	608	91.21	227.5	
15	10,380	75.00	10.9	Upper Marker

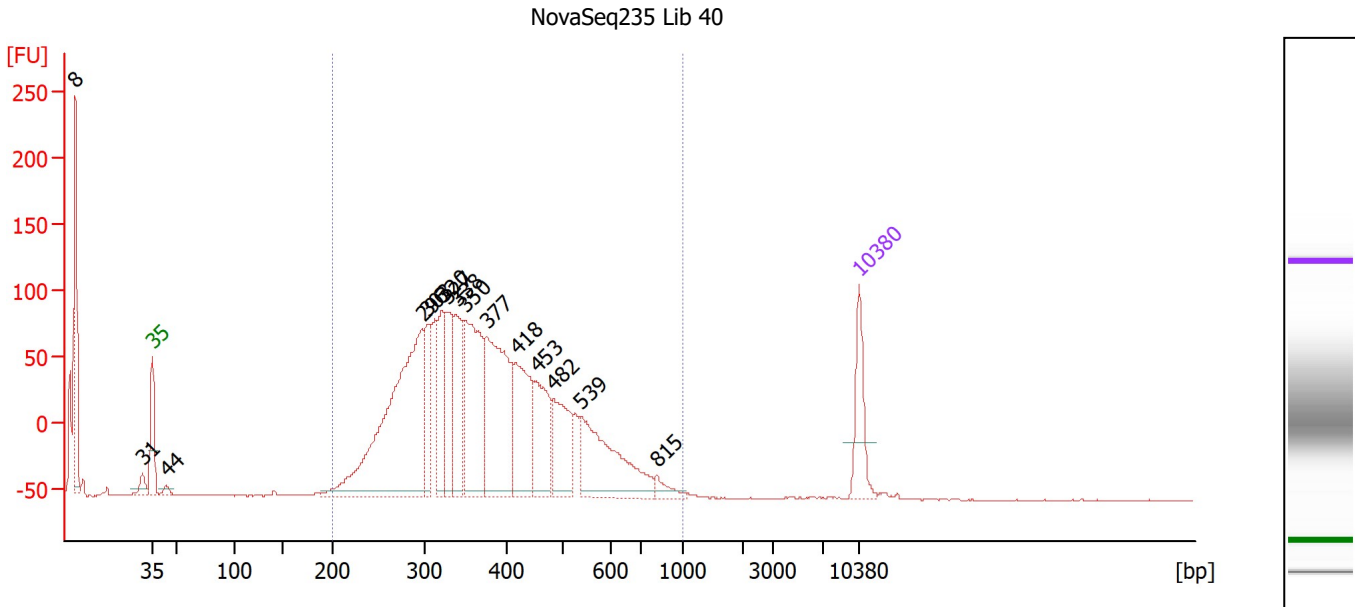
Region table for sample 6 : NovaSeq235 Lib 39

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	2,779.9	98	387	29.0	2,642.03	11,432.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
 Modified: 8/14/2020 3:25:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : NovaSeq235 Lib 40

Number of peaks found: 15 Corr. Area 1: 0.0
 Noise: 0.4

Peak table for sample 7 : NovaSeq235 Lib 40

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	8	0.00	0.0	
2	31	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	44	13.86	479.3	
5	296	670.91	3,434.9	
6	303	114.22	572.0	
7	320	135.18	639.1	
8	327	133.47	618.3	
9	338	152.67	683.6	
10	350	295.05	1,278.6	
11	377	339.50	1,365.1	
12	418	194.46	705.1	
13	453	142.04	475.5	
14	482	141.36	444.6	
15	539	230.04	646.7	
16	815	21.20	39.4	
17	10,380	75.00	10.9	Upper Marker

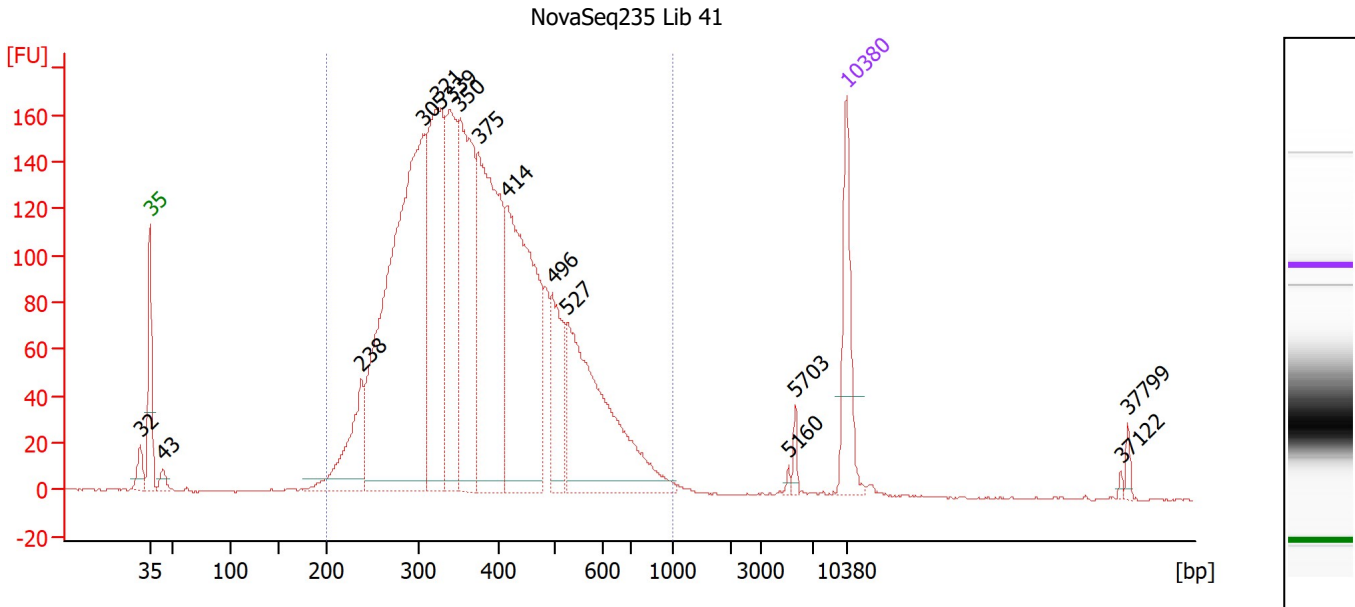
Region table for sample 7 : NovaSeq235 Lib 40

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	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
 Modified: 8/14/2020 3:25:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : NovaSeq235 Lib 41

Number of peaks found: 15 Corr. Area 1: 3,819.6
 Noise: 0.3

Peak table for sample 8 : NovaSeq235 Lib 41

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	43	17.29	605.7	
4	238	127.77	814.6	
5	305	793.11	3,945.4	
6	321	363.30	1,712.7	
7	339	223.89	1,001.1	
8	350	313.74	1,359.6	
9	375	393.09	1,590.4	
10	414	386.38	1,412.9	
11	496	103.03	314.6	
12	527	305.35	878.5	
13	5,160	2.68	0.8	
14	5,703	8.26	2.2	
15	10,380	75.00	10.9	Upper Marker
16	37,122	0.00	0.0	
17	37,799	0.00	0.0	

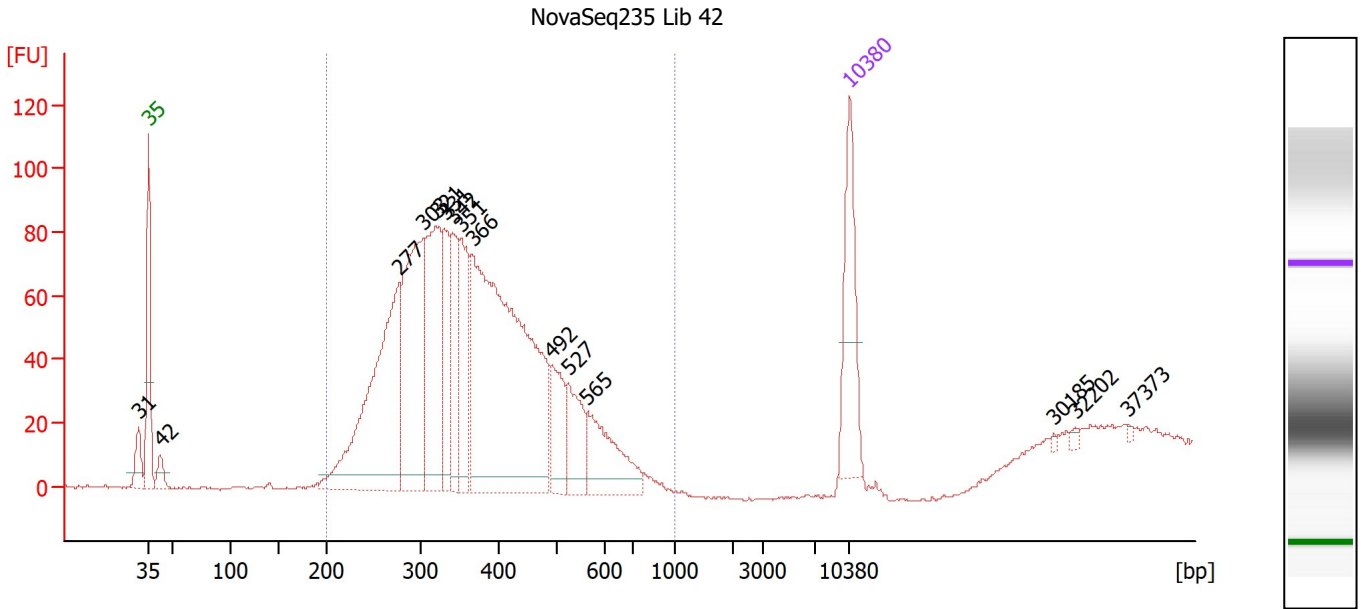
Region table for sample 8 : NovaSeq235 Lib 41

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	3,819.6	97	389	29.6	3,104.40	13,400.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
 Modified: 8/14/2020 3:25:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : NovaSeq235 Lib 42

Number of peaks found: 15 Corr. Area 1: 1,645.6
 Noise: 0.5

Peak table for sample 9 : NovaSeq235 Lib 42

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	42	20.58	739.1	
4	277	304.76	1,664.0	
5	303	231.32	1,156.1	
6	321	173.16	818.5	
7	331	74.07	338.8	
8	342	86.46	383.1	
9	351	90.49	390.3	
10	366	510.87	2,115.1	
11	492	56.47	174.0	
12	527	55.80	160.5	
13	565	79.55	213.5	
14	10,380	75.00	10.9	Upper Marker
15	30,185	0.00	0.0	
16	32,202	0.00	0.0	
17	37,373	0.00	0.0	

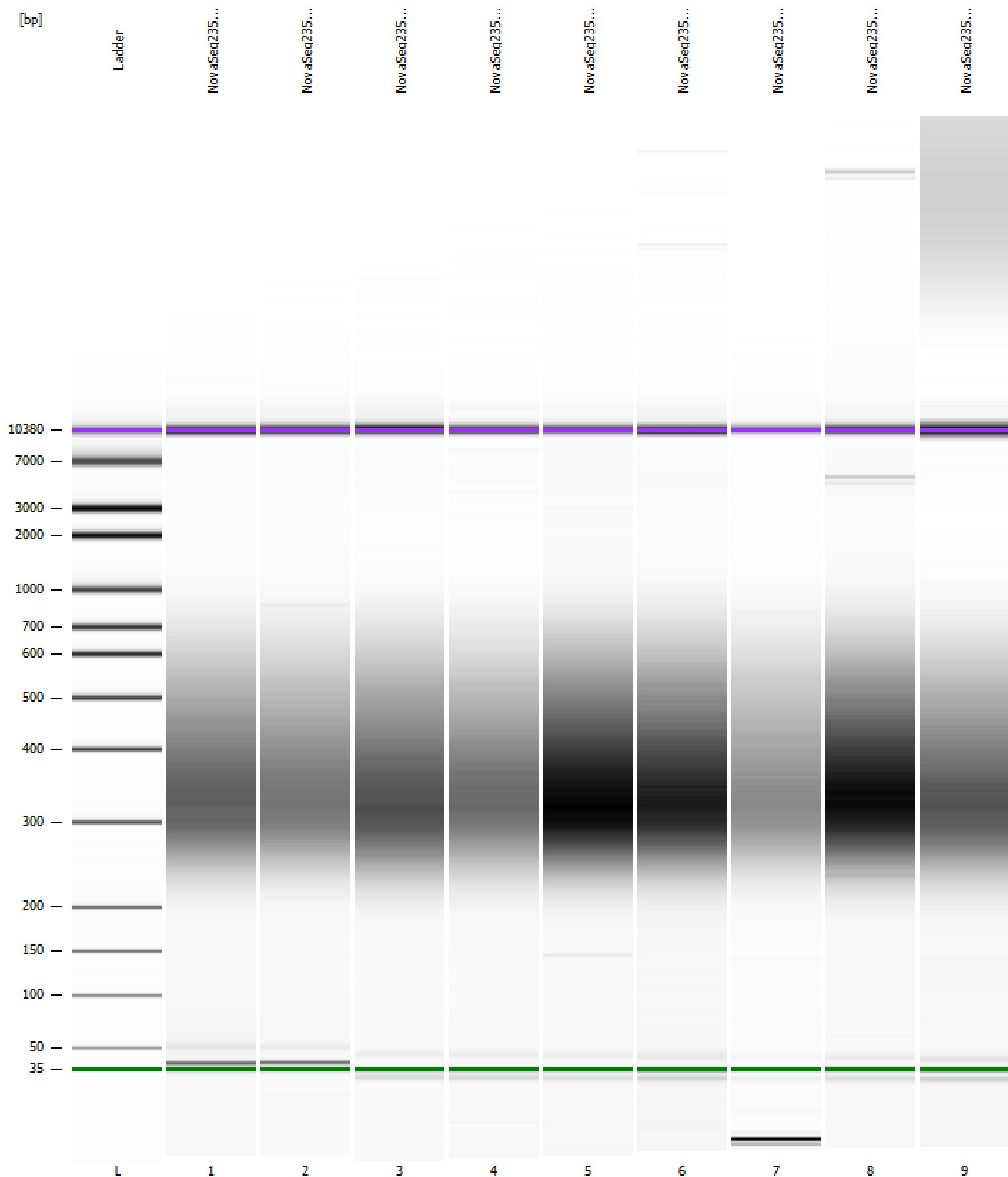
Region table for sample 9 : NovaSeq235 Lib 42

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	1,645.6	95	366	24.0	1,422.79	6,357.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
Modified: 8/14/2020 3:25:40 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\XADs\2020-08-14\NovaSeq235LibQC5_.xad

Created: 8/14/2020 12:50:20 PM
 Modified: 8/14/2020 3:25:40 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		8/14/2020 1:30:41 PM	(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_007.xad)		Instrument	Run		8/14/2020 12:50:20 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		8/14/2020 12:50:20 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/14/2020 12:50:20 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/14/2020 12:50:20 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/14/2020 12:50:20 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/14/2020 12:50:20 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/14/2020 12:50:20 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB