

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2025-06-10_001.xad

Created: 6/10/2025 11:21:28 AM
Modified: 6/10/2025 12:09:10 PM

Electrophoresis File Run Summary

Instrument Information:

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

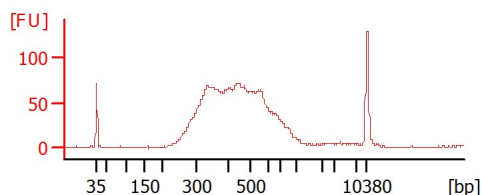
Assay Information:

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

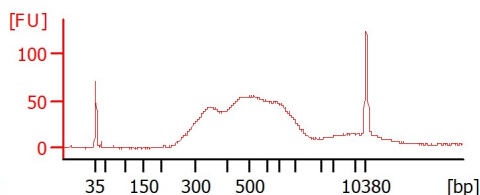
Chip Information:

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

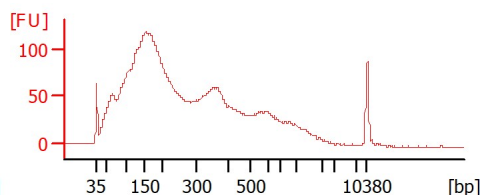
Custom0106-3_test



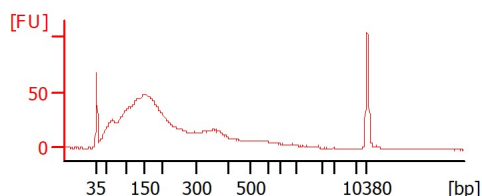
Custom0106-95_test



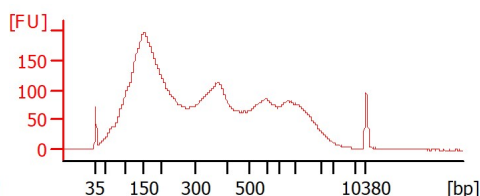
QC2220-5



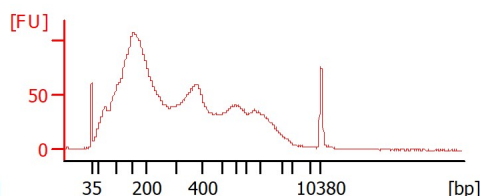
QC2220-6



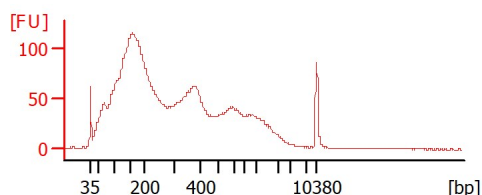
QC2220-7



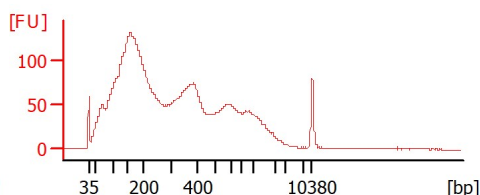
QC2220-8



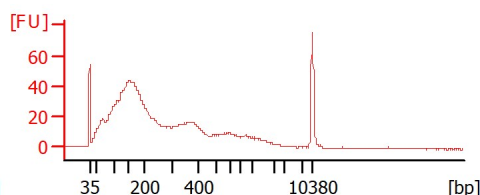
QC2220-9



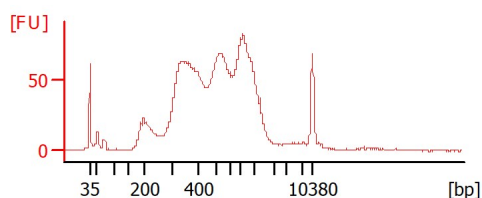
QC2220-10



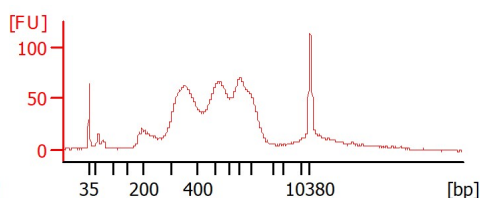
QC2220-11



RSA3



RDA3



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Custom0106-3_test		☐	✓			
Custom0106-95_test		☐	✓			
QC2220-5		☐	✓			
QC2220-6		☐	✓			
QC2220-7		☐	✓			
QC2220-8		☐	✓			
QC2220-9		☐	✓			
QC2220-10		☐	✓			
QC2220-11		☐	✓			
RSA3		☐	✓			
RDA3		☐	✓			
Ladder		☐	✓			

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

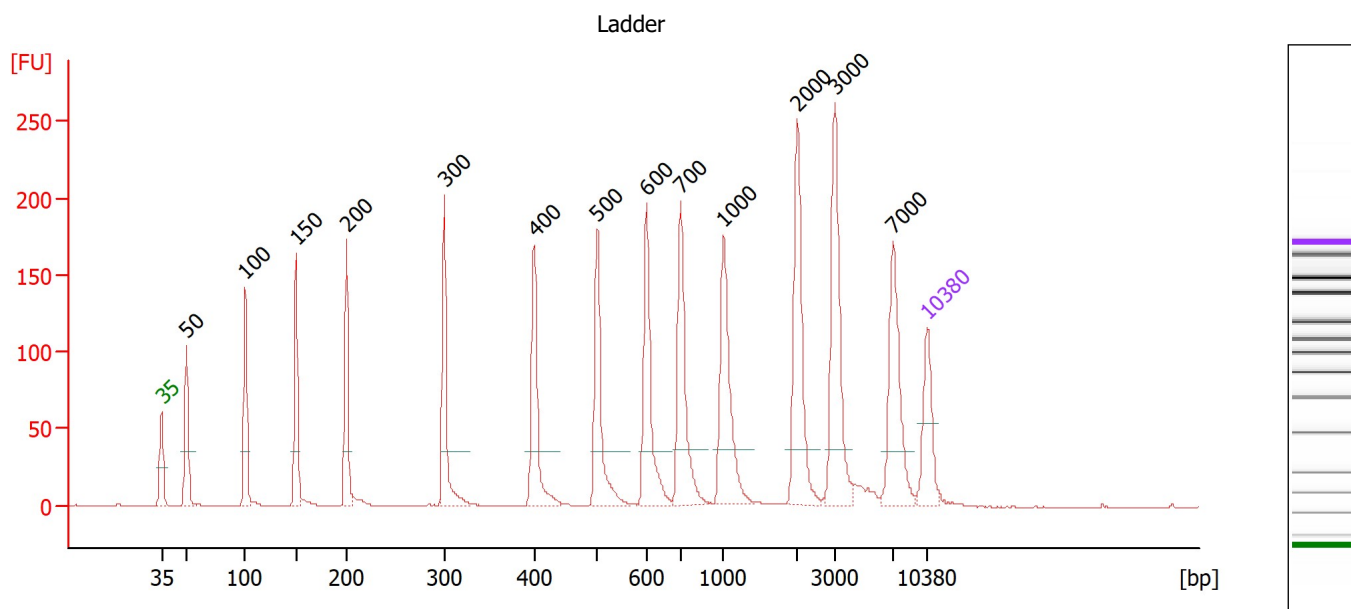
Ladder

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 Ladder

Noise: 0.2

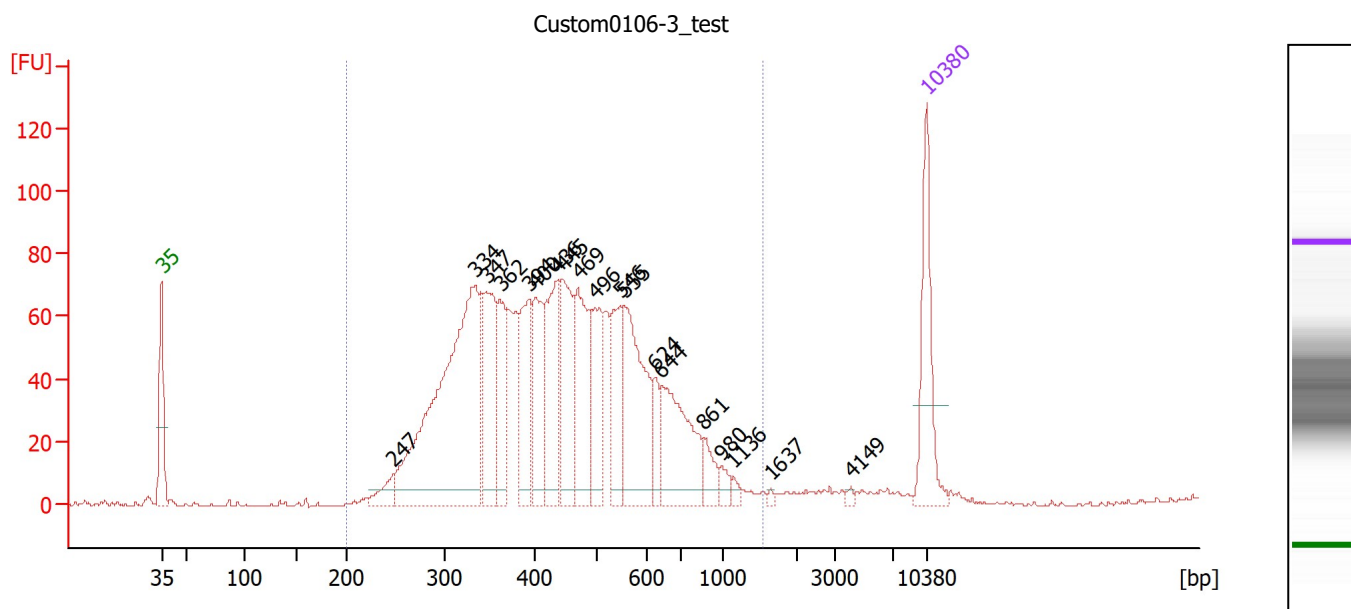
Peak table for Ladder

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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : Custom0106-3 test

Number of peaks found: 19 Corr. Area 1: 1,876.0
Noise: 0.4

Peak table for sample 1 : Custom0106-3 test

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	247	26.07	159.8	
3	334	438.83	1,991.9	
4	347	116.93	510.8	
5	362	76.81	321.8	
6	394	91.83	353.2	
7	400	88.17	333.8	
8	436	110.64	384.1	
9	445	112.41	382.5	
10	469	118.71	383.4	
11	496	74.67	228.2	
12	546	79.77	221.2	
13	555	148.11	404.0	
14	624	28.42	69.0	
15	644	119.65	281.7	
16	861	22.07	38.9	
17	980	11.18	17.3	
18	1,136	5.52	7.4	
19	1,637	2.18	2.0	
20	4,149	2.88	1.1	
21	10,380	75.00	10.9	Upper Marker

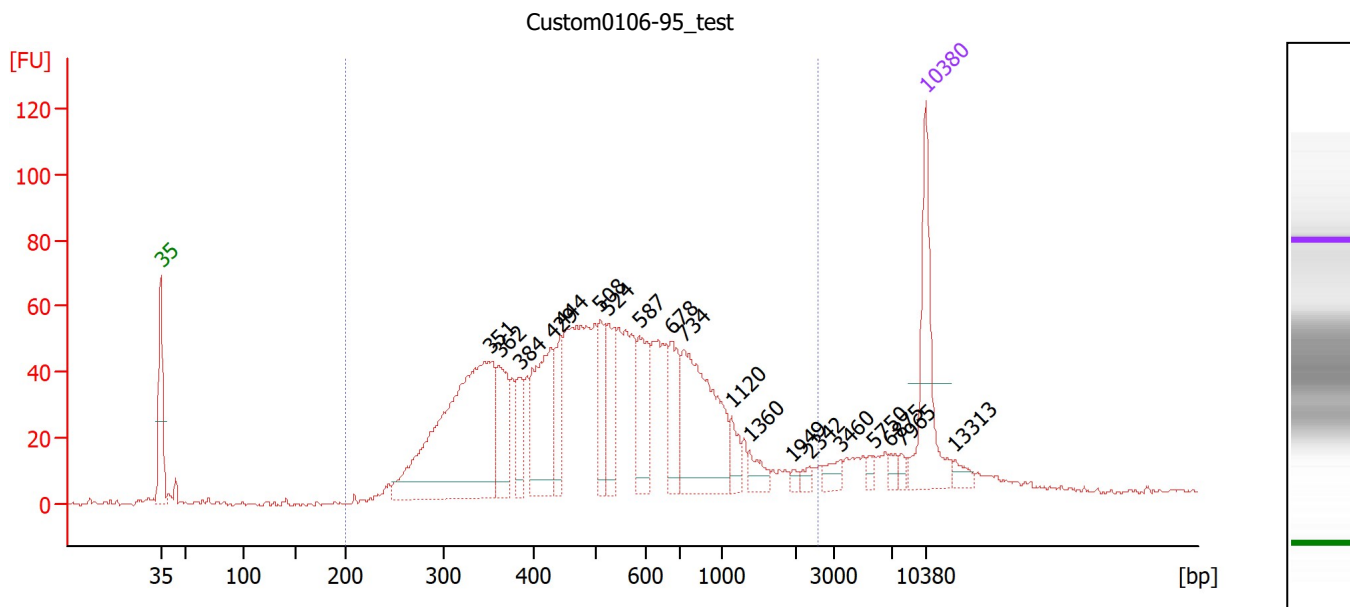
Region table for sample 1 : Custom0106-3 test

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,529	1,876.0	98	461	34.0	1,836.61	6,859.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : Custom0106-95 test

Number of peaks found: 19 Corr. Area 1: 1,532.9
Noise: 0.7

Peak table for sample 2 : Custom0106-95 test

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	351	325.69	1,407.7	
3	362	66.08	276.6	
4	384	30.62	120.8	
5	429	111.68	394.7	
6	444	43.11	147.1	
7	508	39.30	117.2	
8	524	54.84	158.5	
9	587	57.74	149.1	
10	678	47.55	106.3	
11	734	148.04	305.6	
12	1,120	16.70	22.6	
13	1,360	13.36	14.9	
14	1,949	3.57	2.8	
15	2,342	5.27	3.4	
16	3,460	10.15	4.4	
17	5,750	5.22	1.4	
18	6,875	6.14	1.4	
19	7,965	4.80	0.9	
20	10,380	75.00	10.9	Upper Marker
21	13,313	0.00	0.0	

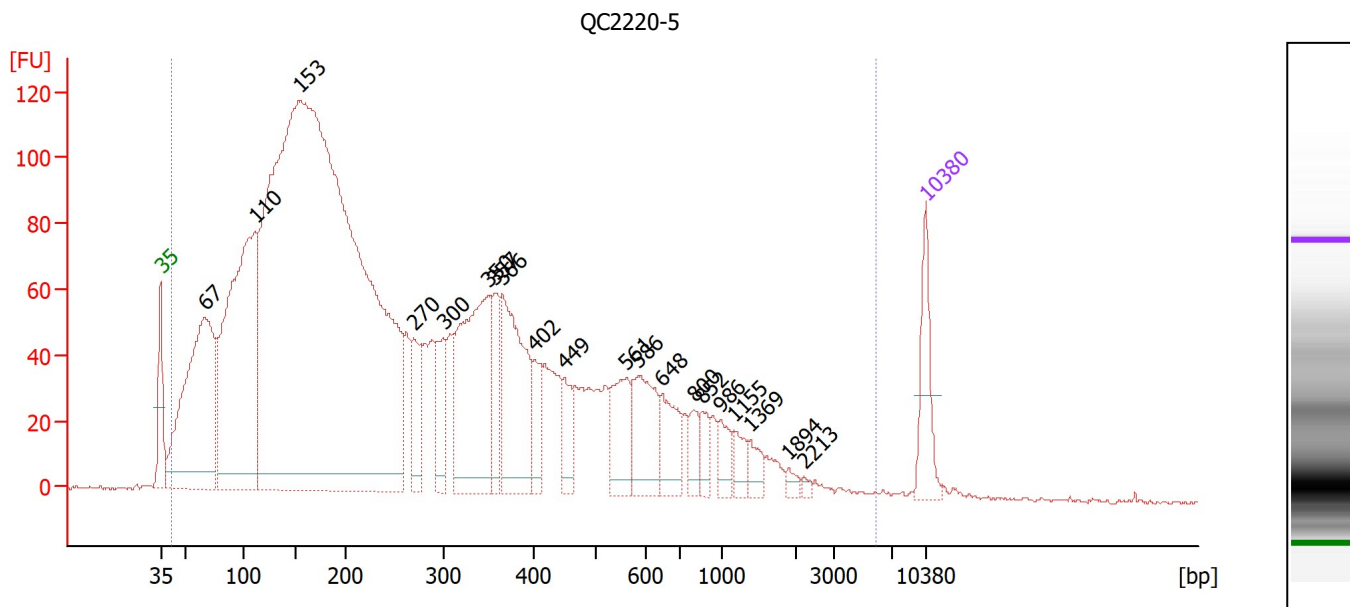
Region table for sample 2 : Custom0106-95 test

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,592	1,532.9	93	584	57.1	1,415.12	4,715.2	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : QC2220-5

Number of peaks found: 20 Corr. Area 1: 4,433.3
Noise: 0.6

Peak table for sample 3 : QC2220-5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	67	686.98	15,620.9	
3	110	881.34	12,149.2	
4	153	3,901.41	38,519.6	
5	270	94.25	529.4	
6	300	89.10	450.5	
7	350	378.08	1,638.5	
8	357	82.24	349.3	
9	366	278.14	1,151.9	
10	402	60.85	229.2	
11	449	58.89	198.5	
12	561	102.23	276.2	
13	586	125.05	323.5	
14	648	81.36	190.3	
15	800	35.22	66.7	
16	852	32.02	56.9	
17	986	32.73	50.3	
18	1,155	29.20	38.3	
19	1,369	26.40	29.2	
20	1,894	10.68	8.5	
21	2,213	5.84	4.0	
22	10,380	75.00	10.9	Upper Marker

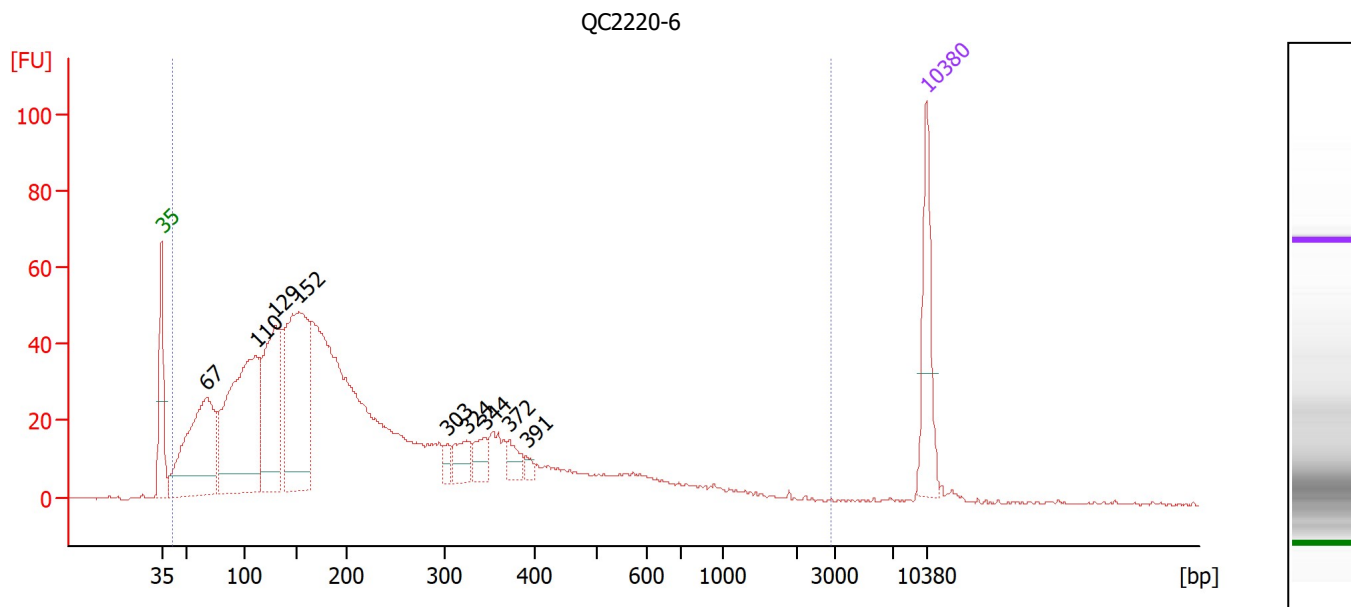
Region table for sample 3 : QC2220-5

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
41	5,943	4,433.3	99	341	100.0	7,583.02	74,161.8	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 4 : QC2220-6

Number of peaks found: 9 Corr. Area 1: 1,567.6
Noise: 0.2

Peak table for sample 4 : QC2220-6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	67	308.98	6,992.9	
3	110	421.17	5,792.2	
4	129	264.39	3,108.1	
5	152	350.23	3,483.9	
6	303	15.11	75.5	
7	324	36.79	172.2	
8	344	28.90	127.2	
9	372	23.08	94.0	
10	391	9.32	36.1	
11	10,380	75.00	10.9	Upper Marker

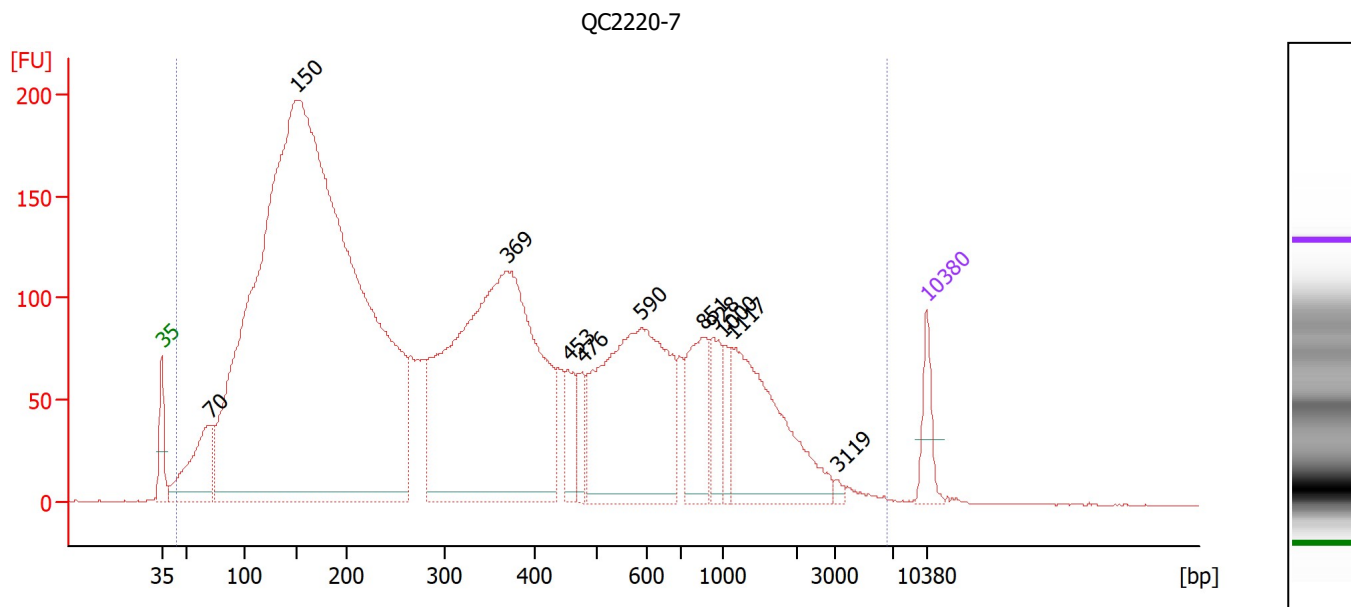
Region table for sample 4 : QC2220-6

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
41	2,877	1,567.6	99	251	95.1	2,706.11	30,212.3	Blue

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Electropherogram Summary Continued ...

Overall Results for sample 5 : QC2220-7

Number of peaks found: 11 Corr. Area 1: 7,146.9
 Noise: 0.2

Peak table for sample 5 : QC2220-7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	70	367.40	7,991.5	
3	150	6,950.44	70,316.9	
4	369	1,939.63	7,965.9	
5	453	118.75	397.0	
6	476	80.88	257.6	
7	590	874.32	2,246.5	
8	851	229.66	408.9	
9	928	109.65	179.1	
10	1,000	71.04	107.6	
11	1,117	465.61	631.6	
12	3,119	9.40	4.6	
13	10,380	75.00	10.9	Upper Marker

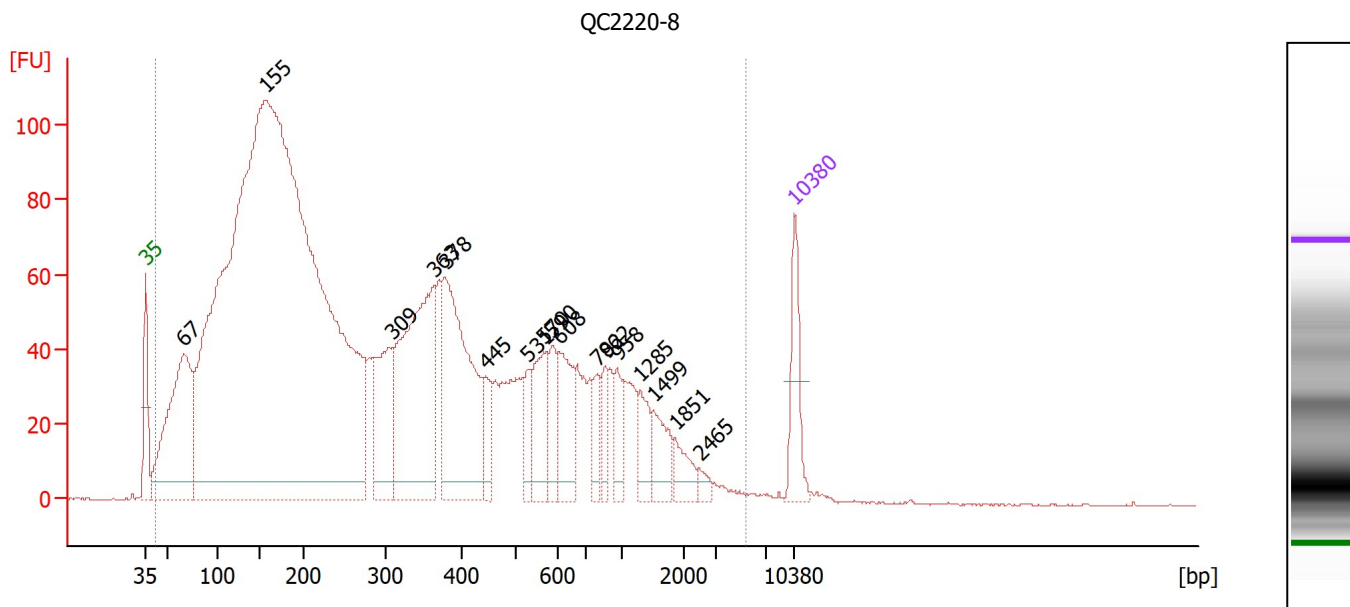
Region table for sample 5 : QC2220-7

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
44	6,562	7,146.9	100	466	100.0	11,398.72	91,143.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 6 : QC2220-8

Number of peaks found: 17 Corr. Area 1: 3,923.7
Noise: 0.2

Peak table for sample 6 : QC2220-8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	67	529.01	11,886.0	
3	155	4,524.02	44,097.8	
4	309	197.48	969.1	
5	363	464.79	1,941.8	
6	378	403.78	1,618.2	
7	445	58.93	200.8	
8	531	53.68	153.1	
9	570	98.06	260.9	
10	590	65.38	167.9	
11	608	107.17	267.2	
12	792	36.67	70.2	
13	862	37.12	65.3	
14	958	44.36	70.2	
15	1,285	46.29	54.6	
16	1,499	57.37	58.0	
17	1,851	36.47	29.9	
18	2,465	12.67	7.8	
19	10,380	75.00	10.9	Upper Marker

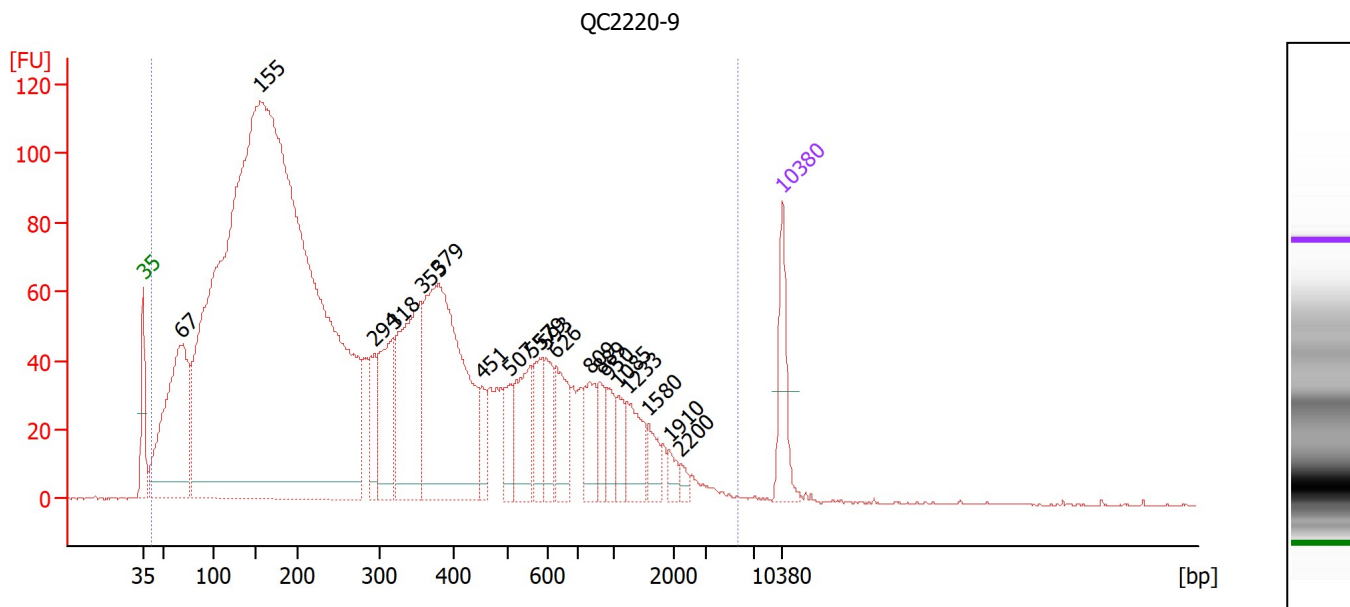
Region table for sample 6 : QC2220-8

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
42	5,408	3,923.7	99	410	100.0	7,172.77	64,272.3	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 7 : QC2220-9

Number of peaks found: 20 Corr. Area 1: 4,206.3
Noise: 0.2

Peak table for sample 7 : QC2220-9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	67	564.62	12,787.6	
3	155	4,561.93	44,627.7	
4	294	87.56	451.2	
5	318	159.71	761.9	
6	355	308.85	1,317.3	
7	379	576.00	2,304.7	
8	451	45.17	151.9	
9	507	56.83	169.9	
10	557	112.14	305.0	
11	579	65.69	171.9	
12	593	64.30	164.2	
13	626	90.41	218.8	
14	809	71.55	134.0	
15	889	40.68	69.4	
16	950	41.76	66.6	
17	1,085	35.32	49.3	
18	1,233	69.61	85.6	
19	1,580	32.80	31.4	
20	1,910	15.30	12.1	
21	2,200	10.66	7.3	
22	10,380	75.00	10.9	Upper Marker

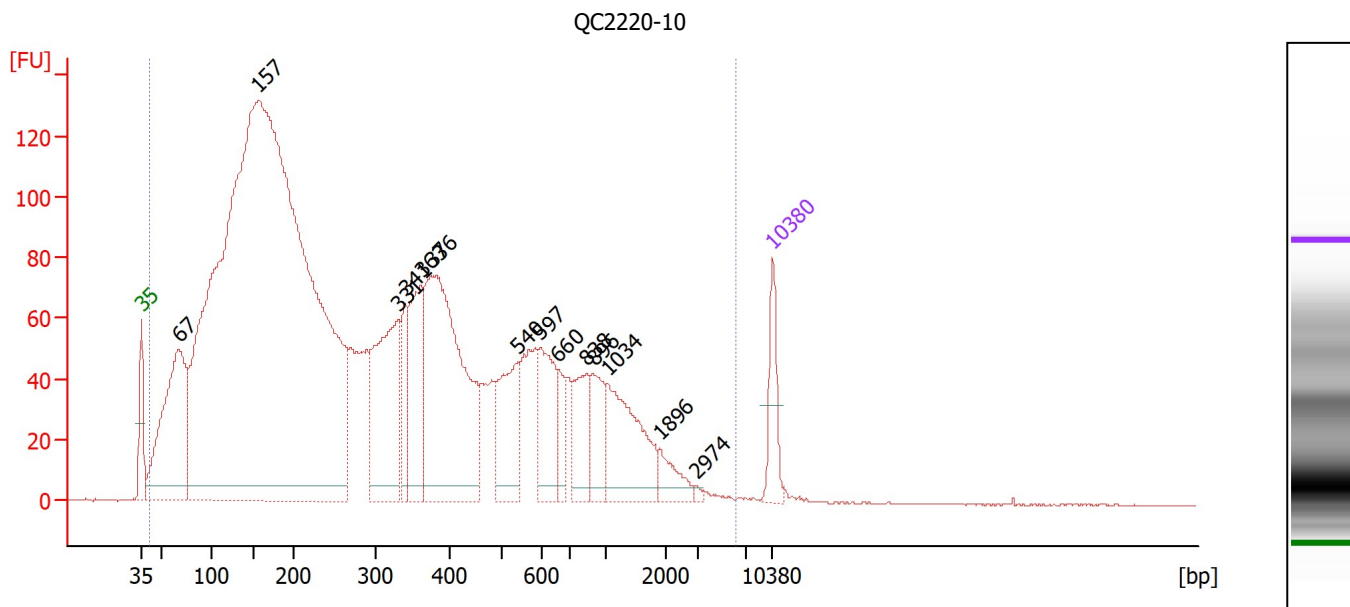
Region table for sample 7 : QC2220-9

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
41	5,679	4,206.3	99	393	100.0	7,194.54	66,347.2	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 8 : QC2220-10

Number of peaks found: 14 Corr. Area 1: 4,893.5
Noise: 0.2

Peak table for sample 8 : QC2220-10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	67	662.45	14,897.0	
3	157	5,484.78	53,054.1	
4	331	418.66	1,915.4	
5	341	106.32	473.1	
6	363	251.00	1,048.2	
7	376	722.53	2,913.5	
8	540	185.50	520.2	
9	597	153.46	389.7	
10	660	54.55	125.3	
11	838	115.50	208.8	
12	896	97.57	165.0	
13	1,034	219.75	322.2	
14	1,896	46.07	36.8	
15	2,974	5.48	2.8	
16	10,380	75.00	10.9	Upper Marker

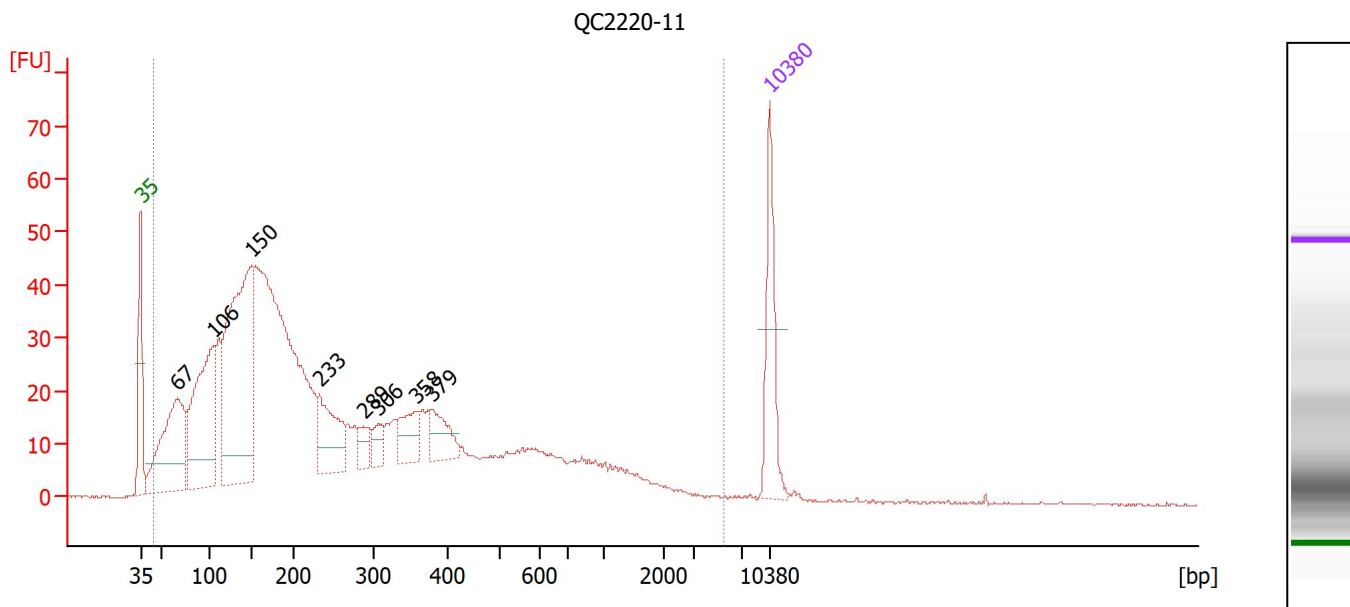
Region table for sample 8 : QC2220-10

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
41	6,266	4,893.5	100	400	100.0	9,073.87	81,885.4	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 9 : QC2220-11

Number of peaks found: 8 Corr. Area 1: 1,402.1
Noise: 0.2

Peak table for sample 9 : QC2220-11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	67	245.78	5,561.7	
3	106	293.13	4,209.2	
4	150	467.74	4,723.3	
5	233	104.87	680.7	
6	289	24.01	126.1	
7	306	25.60	126.6	
8	358	46.80	197.9	
9	379	45.36	181.6	
10	10,380	75.00	10.9	Upper Marker

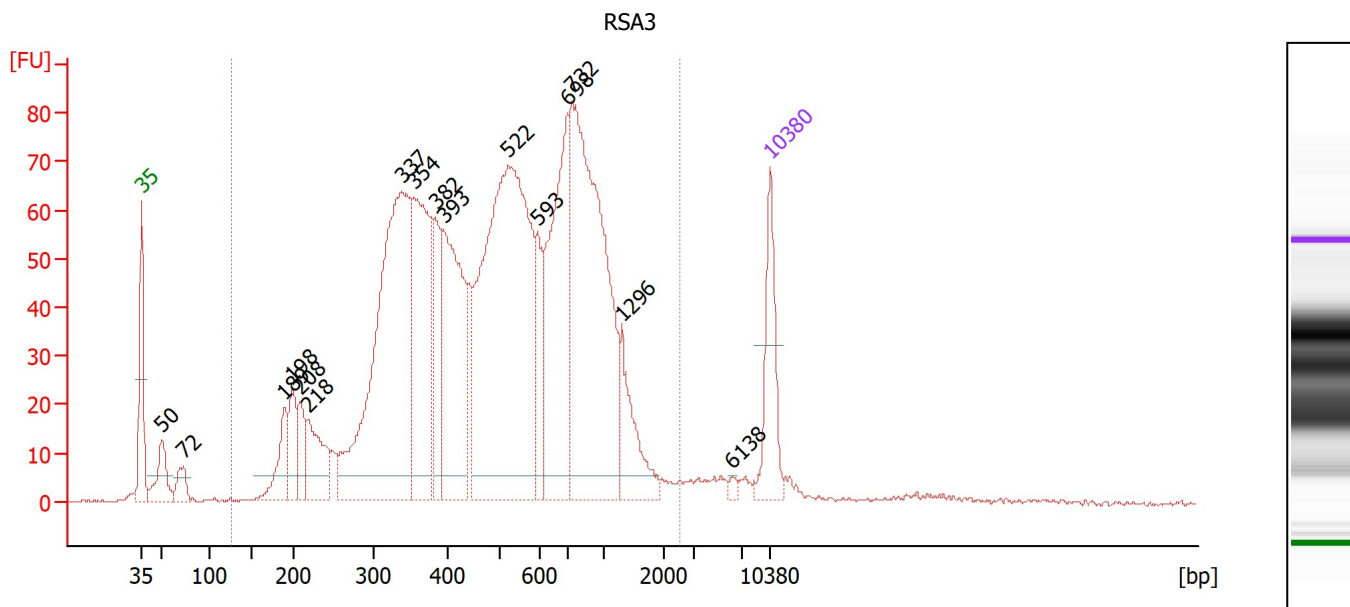
Region table for sample 9 : QC2220-11

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
45	5,558	1,402.1	99	334	100.0	2,854.46	28,612.4	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2025-06-10_001.xad

Created: 6/10/2025 11:21:28 AM
Modified: 6/10/2025 12:09:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : RSA3

Number of peaks found: 16 Corr. Area 1: 2,203.6
Noise: 0.3

Peak table for sample 10 : RSA3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	66.99	2,030.0	
3	72	34.07	712.4	
4	189	69.42	557.2	
5	198	62.76	479.3	
6	208	50.04	365.1	
7	218	95.51	662.9	
8	337	584.01	2,625.9	
9	354	269.84	1,154.0	
10	382	81.58	323.2	
11	393	254.39	980.0	
12	522	659.42	1,914.7	
13	593	73.11	186.9	
14	698	258.94	561.7	
15	732	494.52	1,023.0	
16	1,296	76.12	89.0	
17	6,138	4.51	1.1	
18	10,380	75.00	10.9	Upper Marker

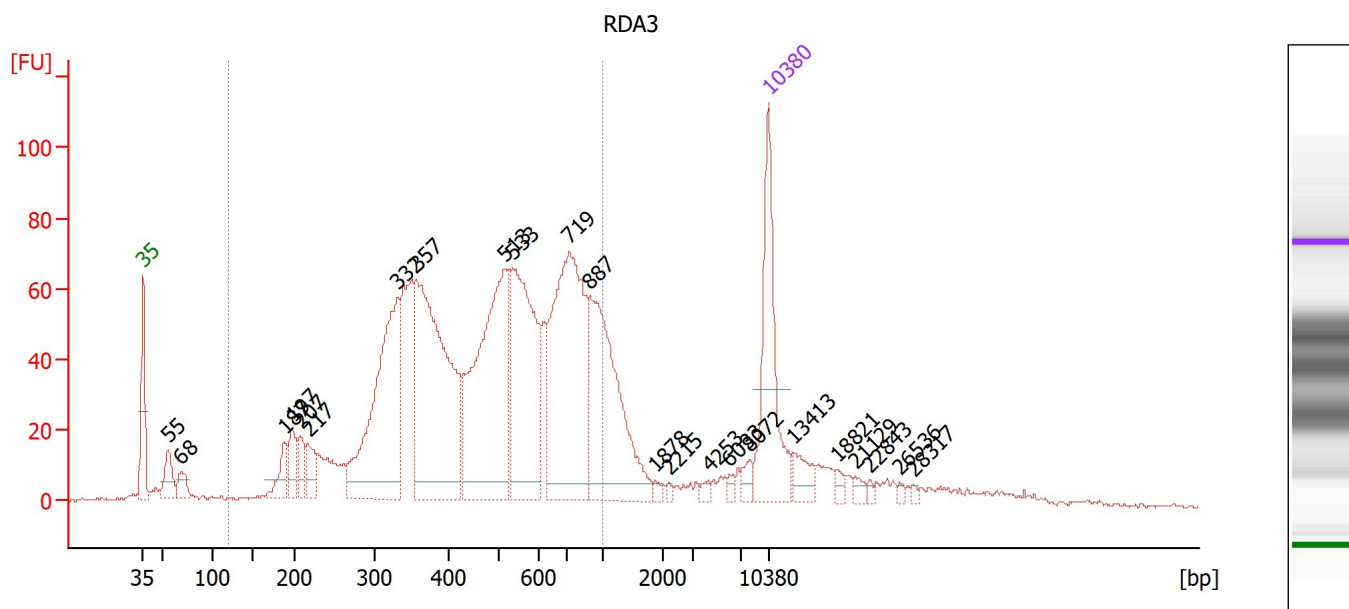
Region table for sample 10 : RSA3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
125	2,533	2,203.6	95	576	53.9	3,157.98	11,406.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2025-06-10_001.xad

Created: 6/10/2025 11:21:28 AM
 Modified: 6/10/2025 12:09:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : RDA3

Number of peaks found: 23 Corr. Area 1: 1,866.9
 Noise: 0.4

Peak table for sample 11 : RDA3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	28.37	780.6	
3	68	16.97	376.4	
4	187	23.79	192.7	
5	197	26.62	204.3	
6	207	18.94	138.4	
7	217	23.69	165.1	
8	332	188.44	861.3	
9	357	243.82	1,035.1	
10	513	207.76	613.4	
11	533	151.68	431.1	
12	719	205.67	433.2	
13	887	142.16	243.0	
14	1,878	2.70	2.2	
15	2,215	1.86	1.3	
16	4,253	3.24	1.2	
17	6,033	3.19	0.8	
18	8,072	6.47	1.2	
19	10,380	75.00	10.9	Upper Marker
20	13,413	0.00	0.0	
21	18,821	0.00	0.0	
22	21,129	0.00	0.0	
23	22,843	0.00	0.0	
24	26,536	0.00	0.0	
25	28,317	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2025-06-10_001.xad

Created: 6/10/2025 11:21:28 AM
 Modified: 6/10/2025 12:09:10 PM

Electropherogram Summary Continued ...

... Region table for sample 11 :

RDA3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
119	1,000	1,866.9	82	502	38.4	1,347.62	5,119.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2025-06-10_001.xad

Created: 6/10/2025 11:21:28 AM
Modified: 6/10/2025 12:09:10 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2025-06-10_001.xad

Created: 6/10/2025 11:21:28 AM
 Modified: 6/10/2025 12:09:10 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		6/10/2025 12:02:50 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2025-06-10\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2025-06-10_001.xad)		Instrument	Run		6/10/2025 11:21:34 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/10/2025 11:21:34 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/10/2025 11:21:34 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/10/2025 11:21:34 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/10/2025 11:21:34 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/10/2025 11:21:34 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/10/2025 11:21:34 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB