

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2025-06-09_002.xad

Created: 6/9/2025 4:15:00 PM
Modified: 6/9/2025 5:00:27 PM

Electrophoresis File Run Summary

Instrument Information:

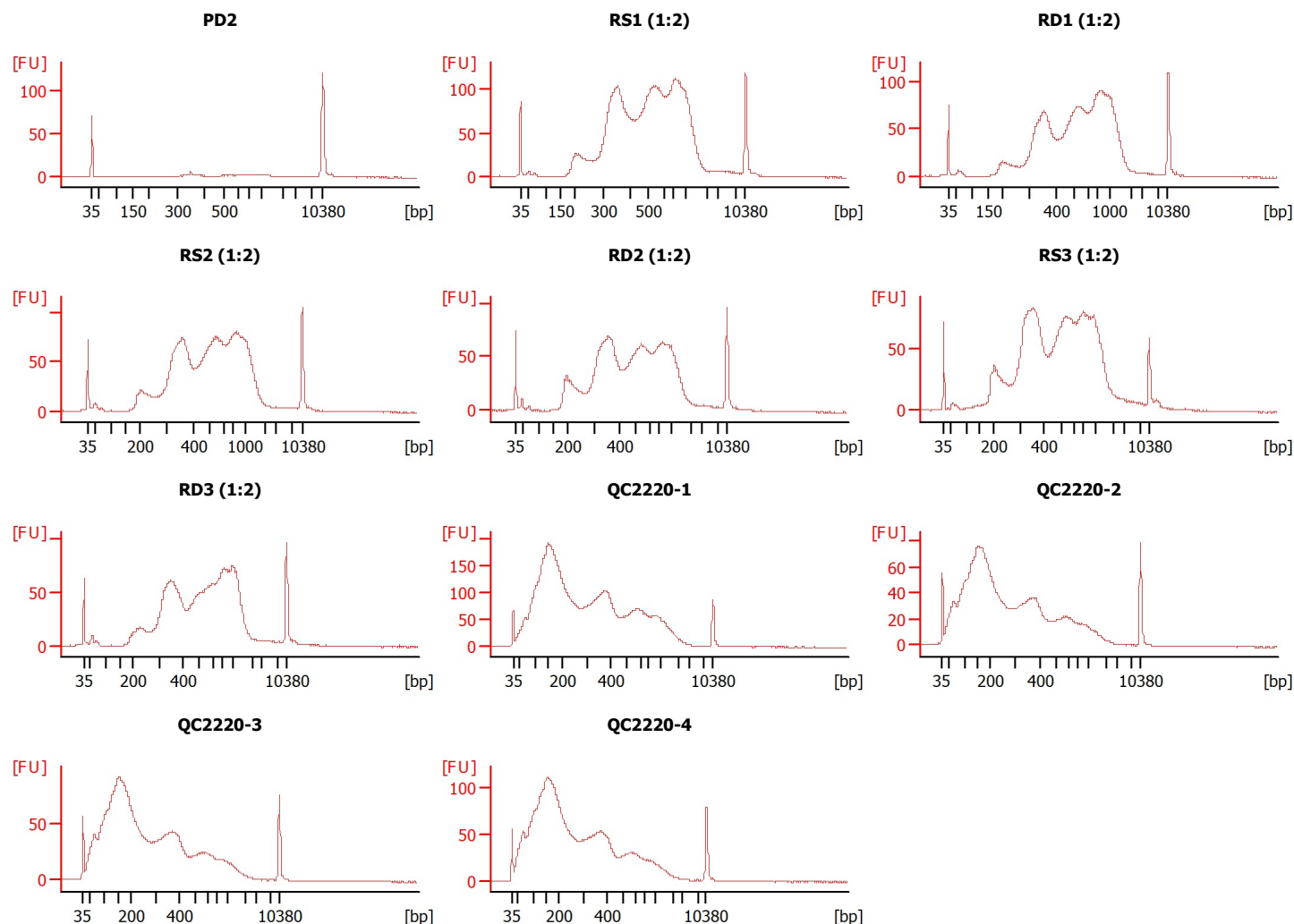
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
PD2		☐	✓			
RS1 (1:2)		☐	✓			
RD1 (1:2)		☐	✓			
RS2 (1:2)		☐	✓			
RD2 (1:2)		☐	✓			
RS3 (1:2)		☐	✓			
RD3 (1:2)		☐	✓			
QC2220-1		☐	✓			
QC2220-2		☐	✓			
QC2220-3		☐	✓			
QC2220-4		☐	✓			
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

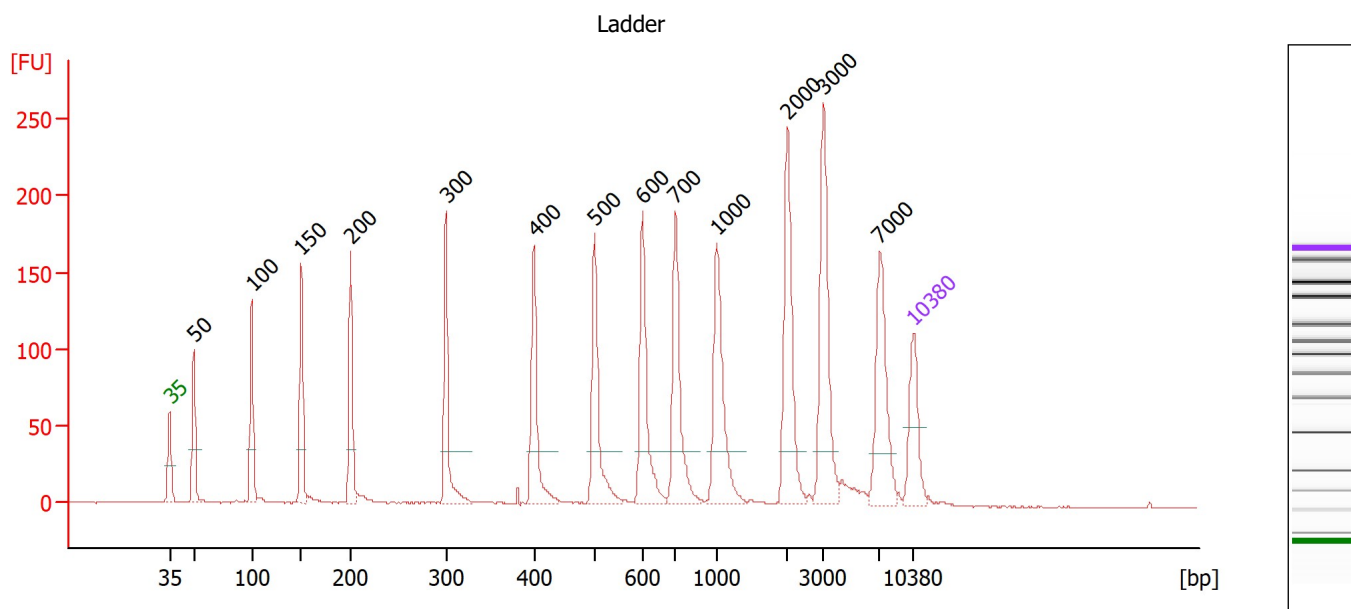
Ladder

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

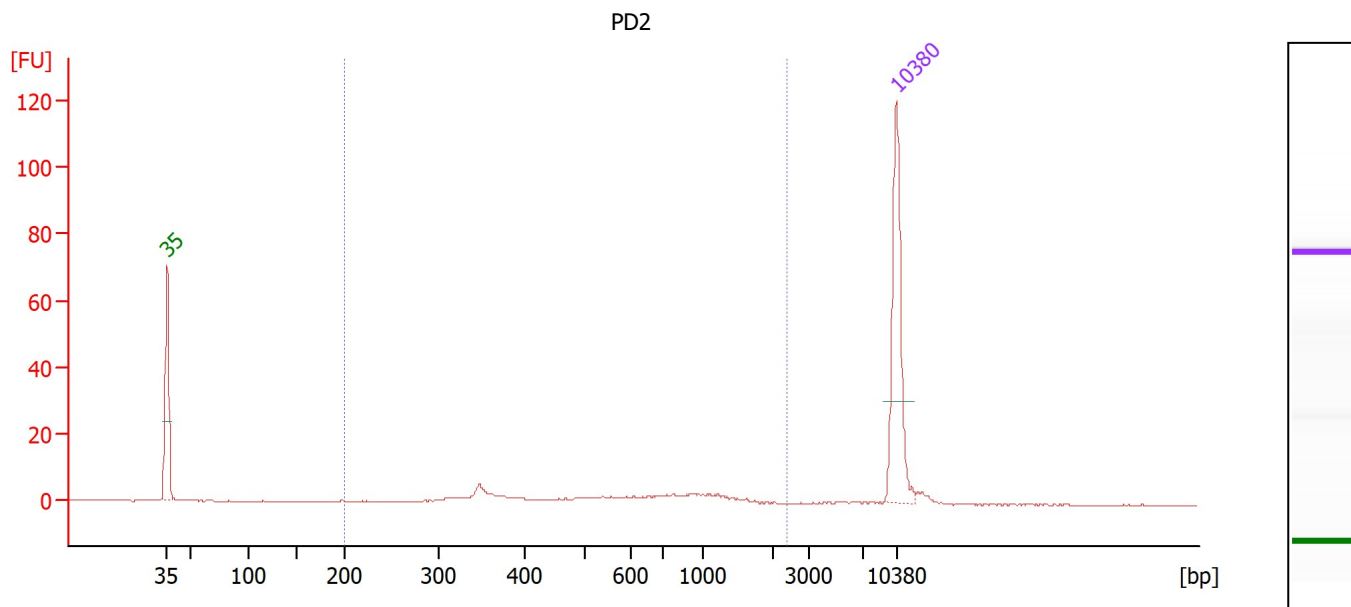
Peak table for Ladder

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 : PD2

Number of peaks found: 0
 Noise: 0.2
 Corr. Area 1: 69.3

Peak table for sample 1 : PD2

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

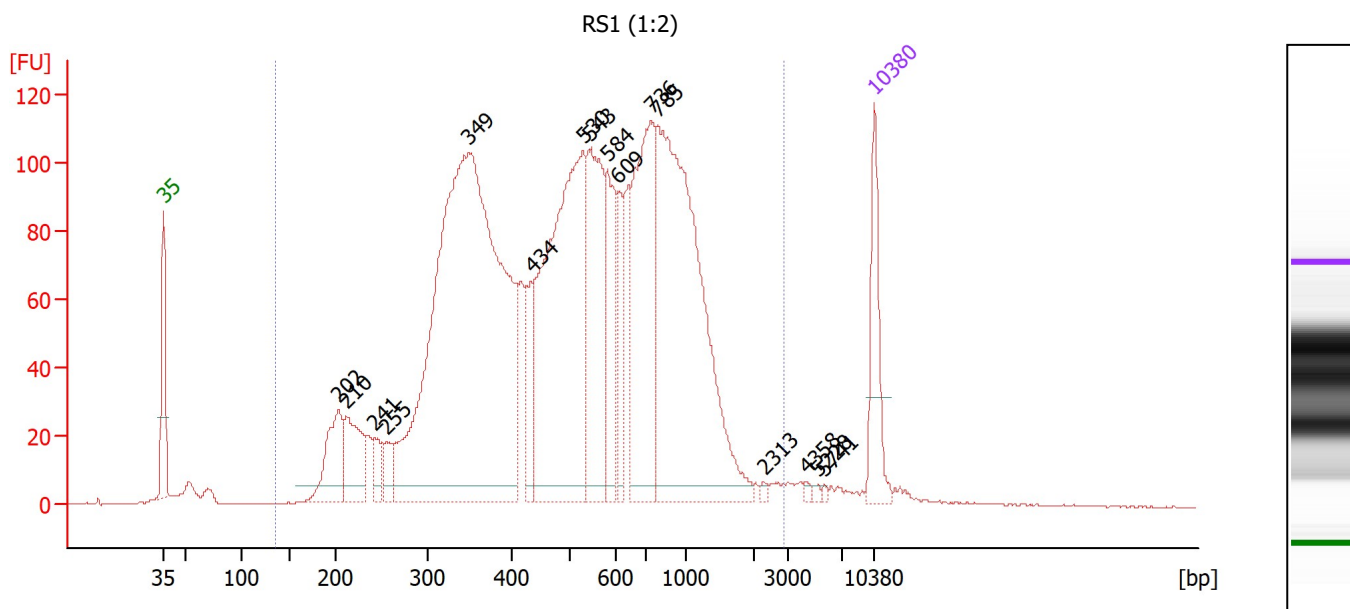
Region table for sample 1 : PD2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,417	69.3	81	673	55.7	68.50	216.3	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : RS1 (1:2)

Number of peaks found: 16 Corr. Area 1: 3,440.4
Noise: 0.2

Peak table for sample 2 : RS1 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	202	110.48	828.8	
3	210	106.58	768.2	
4	241	33.33	209.2	
5	255	32.55	193.4	
6	349	1,275.66	5,536.2	
7	434	69.15	241.5	
8	530	545.87	1,559.8	
9	543	233.32	651.0	
10	584	119.54	310.3	
11	609	70.01	174.3	
12	736	293.60	604.3	
13	785	606.21	1,169.9	
14	2,313	3.88	2.5	
15	4,358	3.61	1.3	
16	5,228	3.21	0.9	
17	5,741	2.47	0.7	
18	10,380	75.00	10.9	Upper Marker

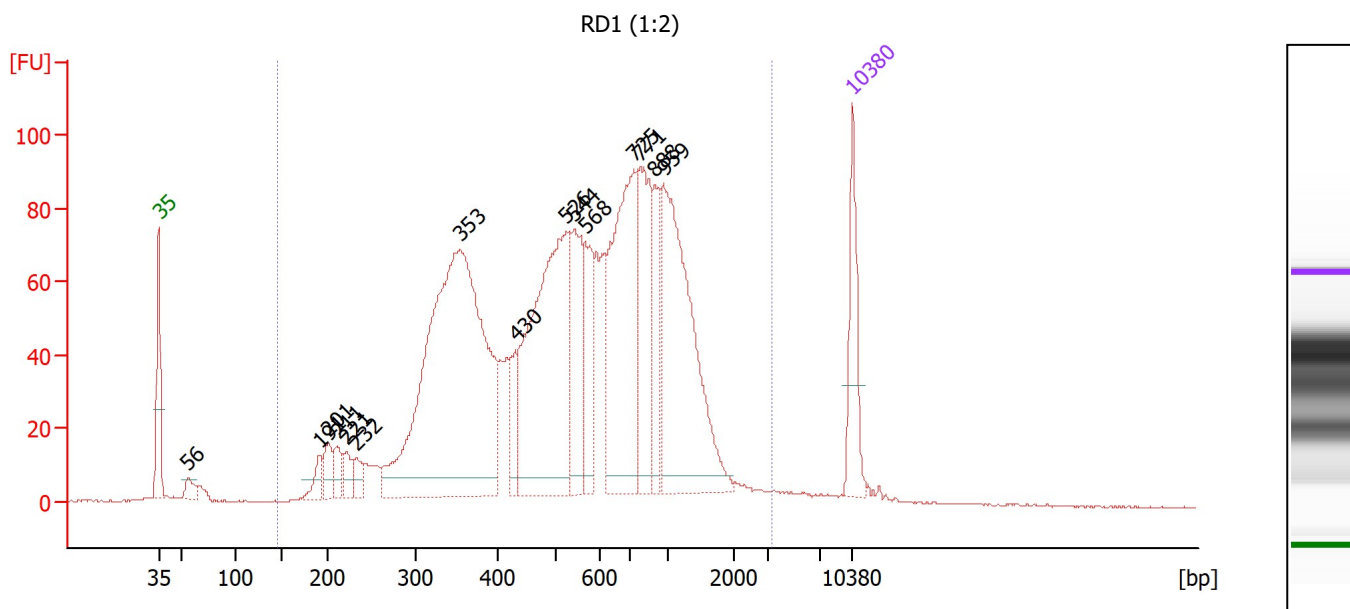
Region table for sample 2 : RS1 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
136	2,910	3,440.4	97	598	57.2	3,725.44	13,111.6	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : RD1 (1:2)

Number of peaks found: 15 Corr. Area 1: 2,451.7
Noise: 0.2

Peak table for sample 3 : RD1 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	56	22.78	611.8	
3	191	29.53	234.6	
4	201	37.39	282.5	
5	211	31.94	229.6	
6	221	30.37	208.2	
7	232	24.45	159.3	
8	353	866.48	3,716.7	
9	430	50.42	177.6	
10	526	446.00	1,285.0	
11	544	132.20	368.4	
12	568	96.13	256.6	
13	725	318.82	666.4	
14	771	174.95	343.9	
15	888	81.36	138.9	
16	959	353.34	558.4	
17	10,380	75.00	10.9	Upper Marker

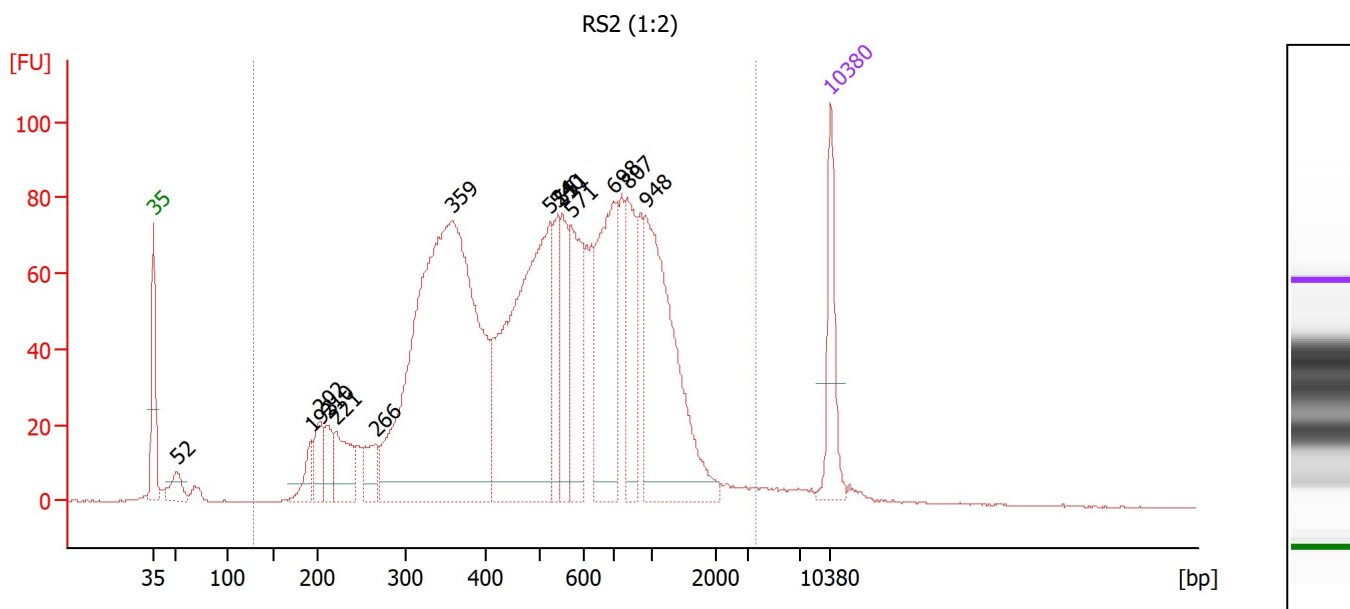
Region table for sample 3 : RD1 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
146	3,227	2,451.7	97	648	57.2	3,102.03	10,269.4	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 4 : RS2 (1:2)

Number of peaks found: 14 Corr. Area 1: 2,518.0
Noise: 0.2

Peak table for sample 4 : RS2 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	40.72	1,185.7	
3	193	39.55	311.2	
4	202	55.01	412.3	
5	210	45.67	329.3	
6	221	84.70	581.6	
7	266	51.02	290.3	
8	359	1,004.60	4,241.5	
9	524	513.44	1,485.5	
10	540	74.67	209.7	
11	551	95.37	262.5	
12	571	149.27	395.9	
13	698	232.86	505.2	
14	807	114.75	215.4	
15	948	315.60	504.2	
16	10,380	75.00	10.9	Upper Marker

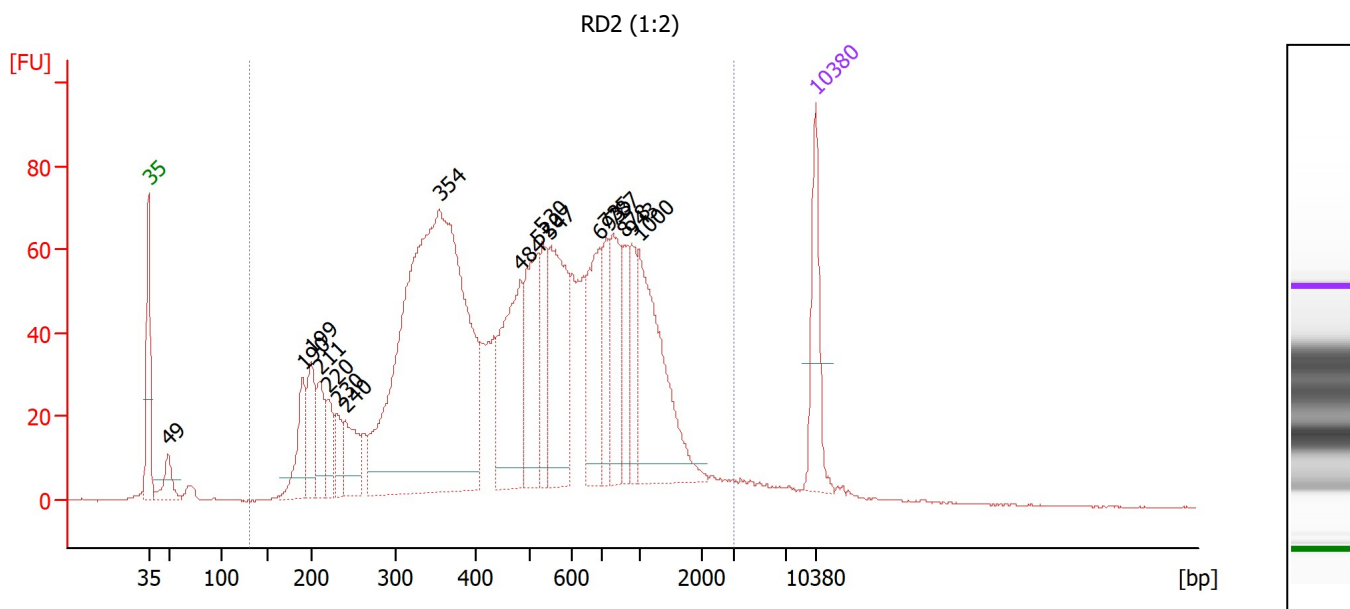
Region table for sample 4 : RS2 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
127	3,565	2,518.0	97	619	61.2	3,128.56	10,939.9	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 5 : RD2 (1:2)

Number of peaks found: 18 Corr. Area 1: 2,300.3
Noise: 0.2

Peak table for sample 5 : RD2 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	48.50	1,507.2	
3	190	87.20	693.7	
4	199	84.46	641.6	
5	211	65.37	470.0	
6	220	50.76	349.4	
7	230	40.13	264.2	
8	240	70.90	447.3	
9	354	1,000.10	4,275.9	
10	484	190.65	597.3	
11	520	132.43	385.7	
12	530	67.39	192.6	
13	547	182.53	505.2	
14	693	120.00	262.5	
15	735	56.68	116.9	
16	787	97.86	188.5	
17	878	51.19	88.3	
18	943	48.97	78.7	
19	1,000	198.26	300.5	
20	10,380	75.00	10.9	Upper Marker

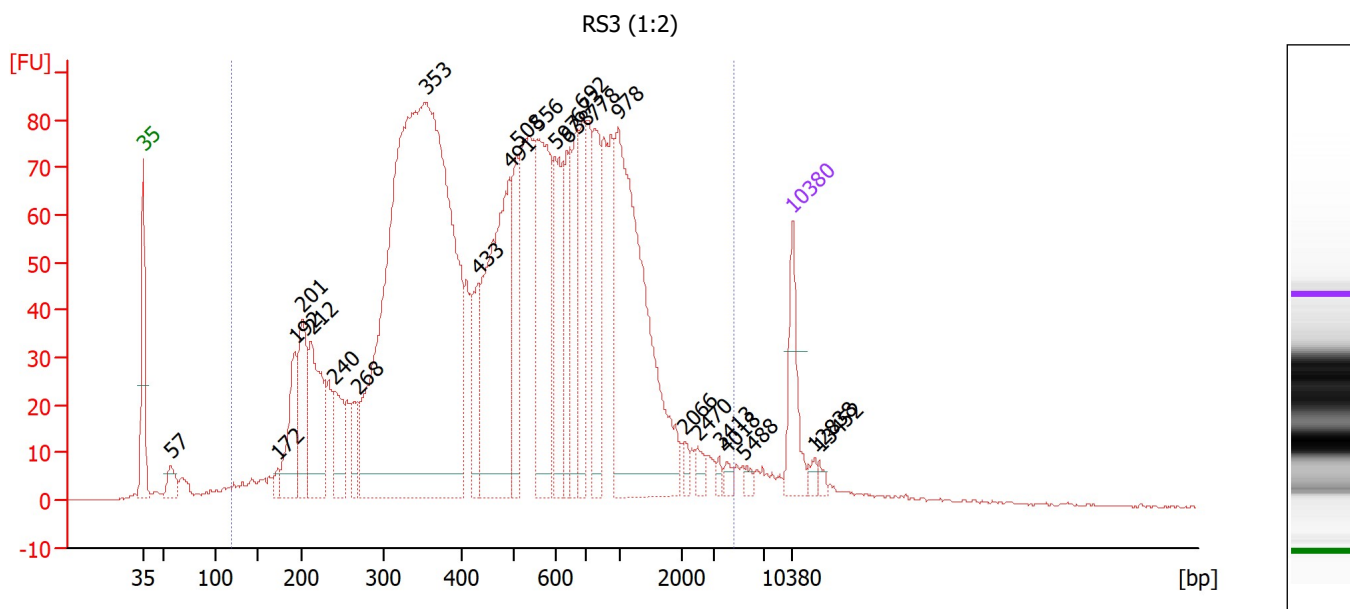
Region table for sample 5 : RD2 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
130	2,995	2,300.3	96	598	64.8	3,063.15	11,584.7	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 6 : RS3 (1:2)

Number of peaks found: 25 Corr. Area 1: 2,917.5
 Noise: 0.2

Peak table for sample 6 : RS3 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	57	44.54	1,190.8	
3	172	17.62	154.8	
4	192	139.29	1,098.8	
5	201	157.21	1,186.6	
6	212	215.74	1,544.3	
7	240	89.54	565.3	
8	268	55.15	312.2	
9	353	1,890.62	8,125.0	
10	433	98.52	344.9	
11	491	443.13	1,367.2	
12	508	120.87	360.6	
13	556	291.30	793.6	
14	597	148.38	376.7	
15	638	117.39	278.8	
16	673	132.42	298.1	
17	692	119.73	262.3	
18	778	137.26	267.4	
19	978	524.84	812.7	
20	2,066	12.28	9.0	
21	2,470	14.66	9.0	
22	3,413	7.40	3.3	
23	4,018	9.88	3.7	
24	5,488	7.55	2.1	
25	10,380	75.00	10.9	Upper Marker
26	12,838	0.00	0.0	

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Electropherogram Summary Continued ...

... Peak table for sample 6 : RS3 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	13,452	0.00	0.0	

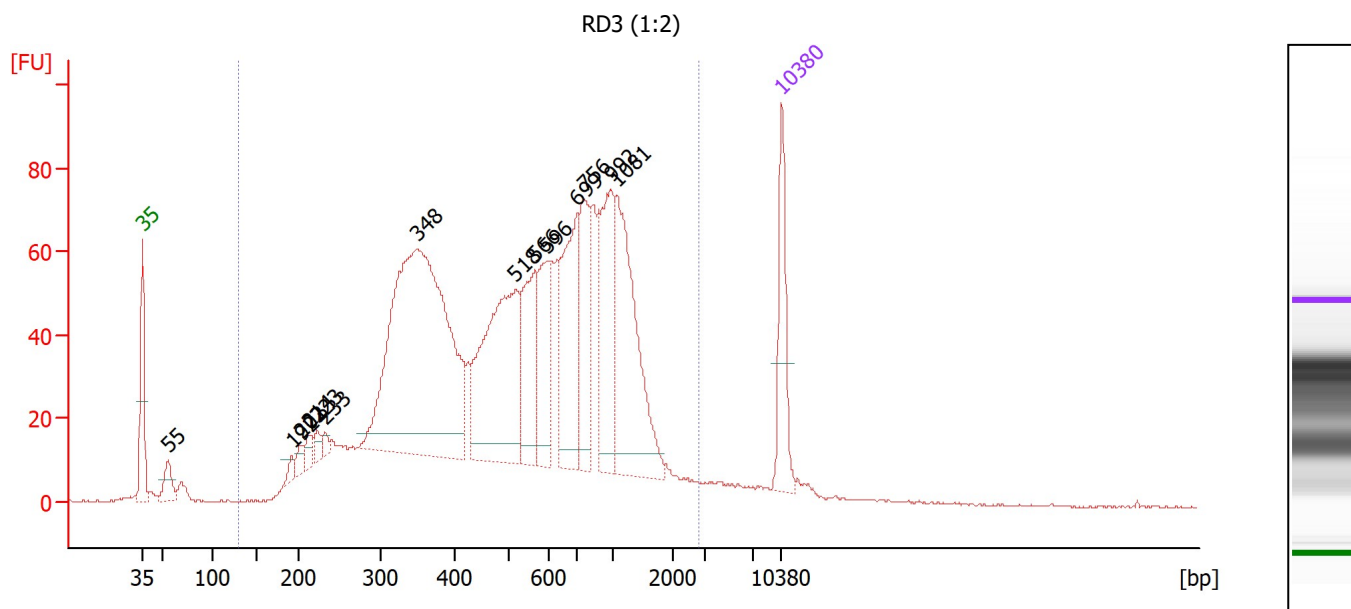
Region table for sample 6 : RS3 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
119	4,673	2,917.5	96	635	78.5	5,838.21	22,241.3	

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Electropherogram Summary Continued ...



Overall Results for sample 7 : RD3 (1:2)

Number of peaks found: 14 Corr. Area 1: 2,105.9
 Noise: 0.2

Peak table for sample 7 : RD3 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	40.95	1,128.6	
3	192	14.56	114.7	
4	202	16.59	124.1	
5	214	19.79	140.4	
6	223	15.76	107.2	
7	233	11.28	73.5	
8	348	726.36	3,157.9	
9	518	297.49	870.0	
10	566	127.90	342.4	
11	596	93.95	239.0	
12	699	168.20	364.7	
13	756	109.82	220.1	
14	992	149.54	228.5	
15	1,081	213.67	299.6	
16	10,380	75.00	10.9	Upper Marker

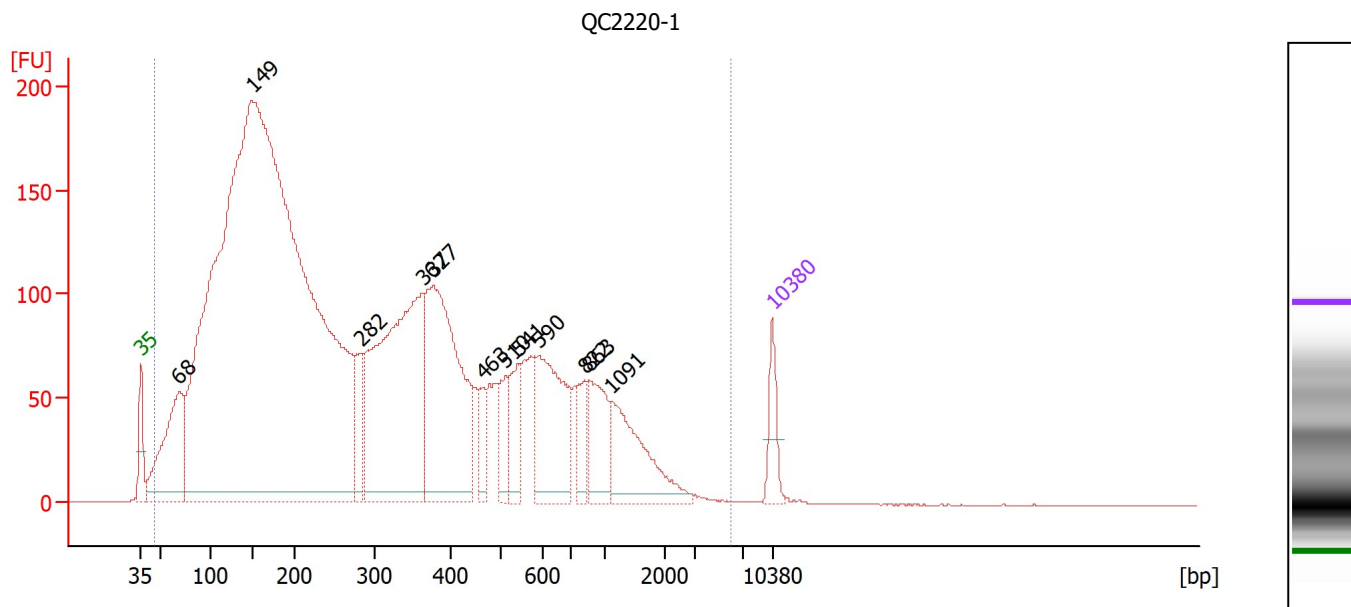
Region table for sample 7 : RD3 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
129	2,829	2,105.9	95	643	59.7	2,944.61	10,122.8	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 8 : QC2220-1

Number of peaks found: 12 Corr. Area 1: 6,808.7
 Noise: 0.2

Peak table for sample 8 : QC2220-1

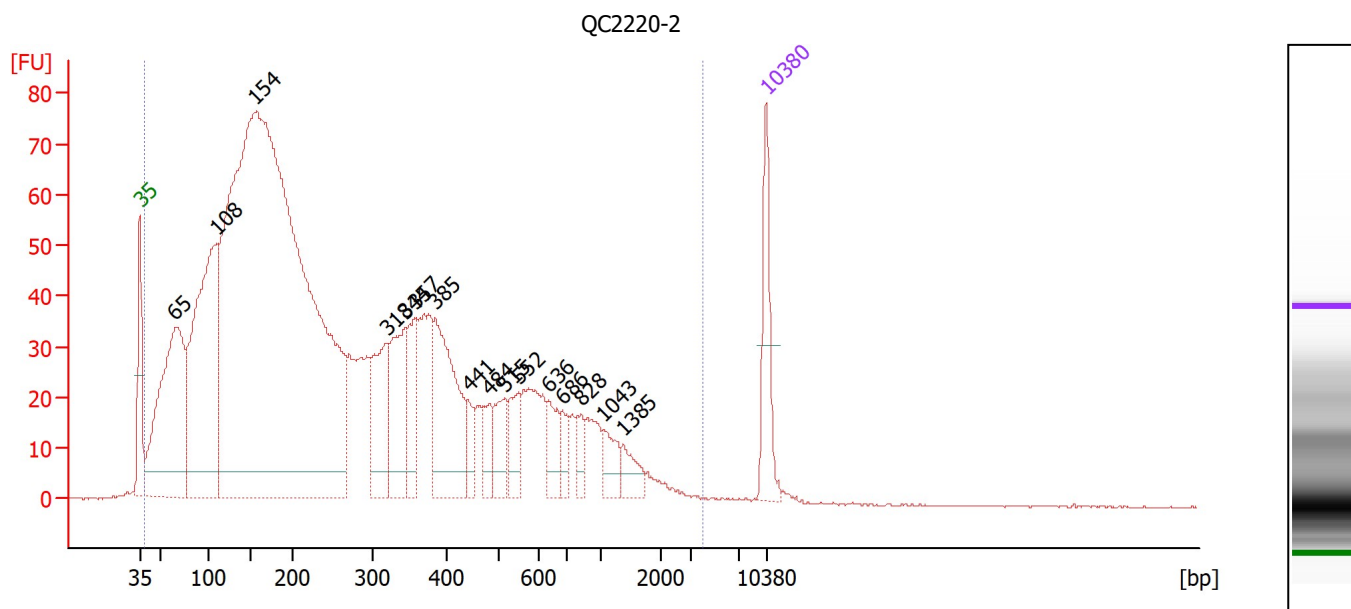
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	68	585.62	13,100.4	
3	149	7,773.67	79,069.5	
4	282	168.56	906.6	
5	362	1,108.51	4,634.9	
6	377	847.72	3,403.6	
7	463	72.48	237.0	
8	510	103.27	306.9	
9	541	130.28	364.7	
10	590	379.34	974.6	
11	822	83.60	154.1	
12	863	177.39	311.4	
13	1,091	263.58	366.1	
14	10,380	75.00	10.9	Upper Marker

Region table for sample 8 : QC2220-1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
44	5,996	6,808.7	99	375	100.0	11,834.60	103,435.1	Blue

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Electropherogram Summary Continued ...**Overall Results for sample 9 : QC2220-2**

Number of peaks found: 16 Corr. Area 1: 2,714.8
 Noise: 0.1

Peak table for sample 9 : QC2220-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	65	518.75	12,036.1	
3	108	631.34	8,818.0	
4	154	2,926.27	28,708.8	
5	318	148.88	709.9	
6	344	141.58	624.2	
7	357	88.34	375.3	
8	385	214.33	844.2	
9	441	28.49	97.8	
10	484	35.42	110.9	
11	515	54.57	160.4	
12	552	48.47	133.0	
13	636	44.27	105.4	
14	686	29.54	65.2	
15	828	23.64	43.3	
16	1,043	33.56	48.7	
17	1,385	28.08	30.7	
18	10,380	75.00	10.9	Upper Marker

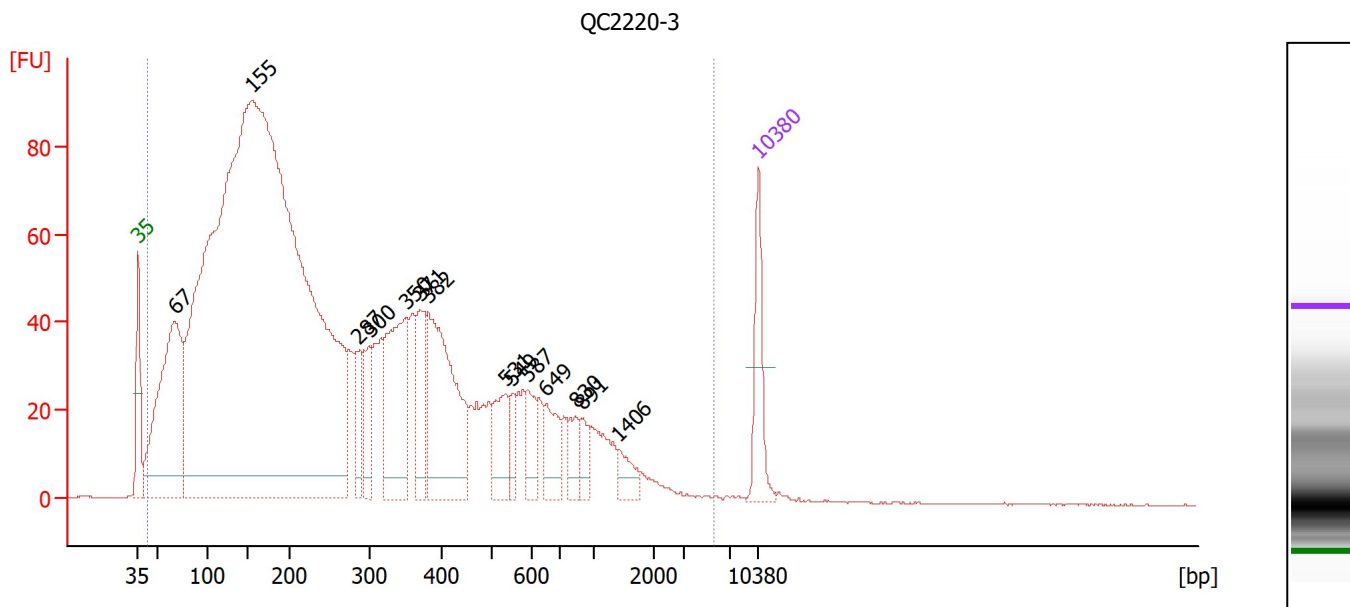
Region table for sample 9 : QC2220-2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
38	4,043	2,714.8	100	327	100.0	5,538.98	55,297.5	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 10 : QC2220-3

Number of peaks found: 14 Corr. Area 1: 3,192.8
Noise: 0.1

Peak table for sample 10 : QC2220-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	67	587.81	13,338.0	
3	155	4,293.00	42,083.0	
4	287	69.73	367.7	
5	300	84.87	428.5	
6	350	242.87	1,052.7	
7	371	106.70	436.2	
8	382	322.52	1,280.8	
9	531	80.75	230.3	
10	549	33.40	92.2	
11	587	53.36	137.7	
12	649	61.80	144.2	
13	830	39.78	72.6	
14	891	25.86	44.0	
15	1,406	29.29	31.6	
16	10,380	75.00	10.9	Upper Marker

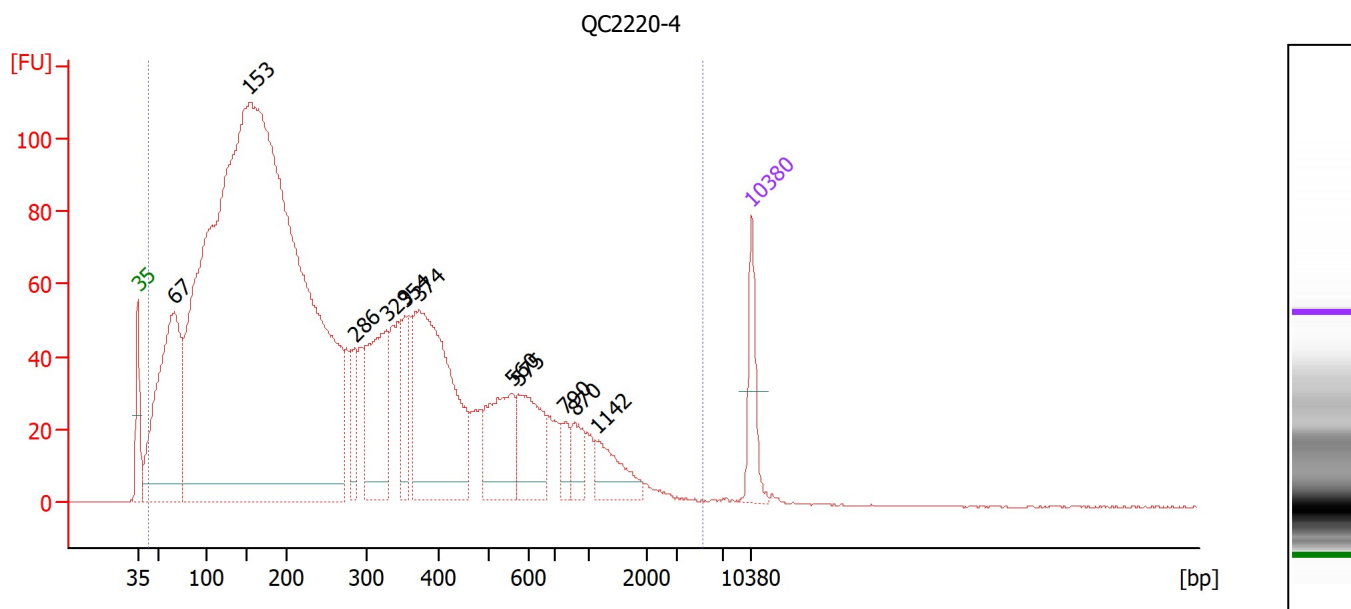
Region table for sample 10 : QC2220-3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
41	5,555	3,192.8	99	328	100.0	6,542.15	64,451.7	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 11 : QC2220-4

Number of peaks found: 11 Corr. Area 1: 3,923.3
Noise: 0.2

Peak table for sample 11 : QC2220-4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	67	783.62	17,678.0	
3	153	5,218.59	51,547.9	
4	286	92.79	491.4	
5	329	302.03	1,390.6	
6	354	88.90	380.4	
7	374	568.43	2,303.5	
8	560	178.24	482.4	
9	575	159.70	421.1	
10	790	39.77	76.3	
11	870	49.26	85.8	
12	1,142	76.55	101.6	
13	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : QC2220-4

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
43	5,181	3,923.3	99	322	100.0	7,992.29	79,136.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2025-06-09_002.xad

Created: 6/9/2025 4:15:00 PM
Modified: 6/9/2025 5:00:27 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2025-06-09_002.xad
 Created: 6/9/2025 4:15:00 PM
 Modified: 6/9/2025 5:00:27 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		6/9/2025 4:55:28 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\2025-06-09\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2025-06-09_002.xad)		Instrument	Run		6/9/2025 4:15:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/9/2025 4:15:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/9/2025 4:15:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/9/2025 4:15:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/9/2025 4:15:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/9/2025 4:15:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/9/2025 4:15:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB