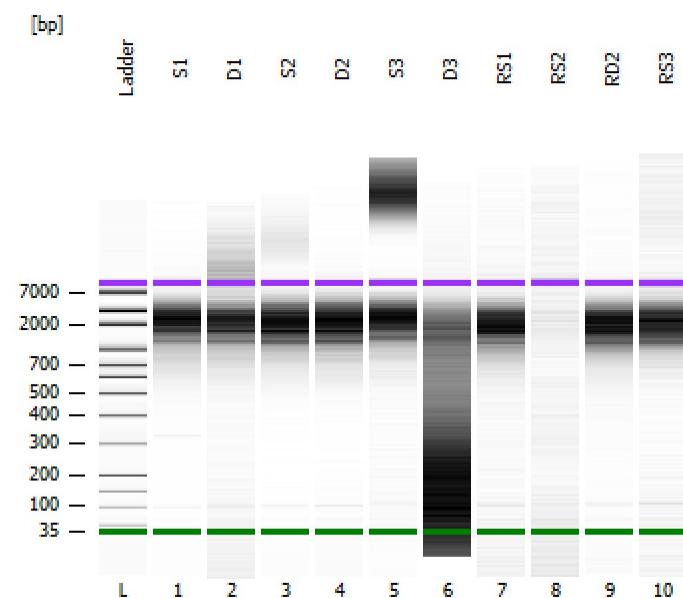


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
Modified: 3/31/2025 11:53:08 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152
Serial#: DE34903152

Firmware: C.01.069
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

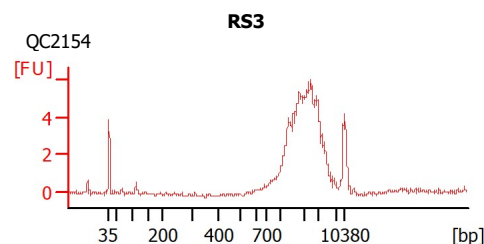
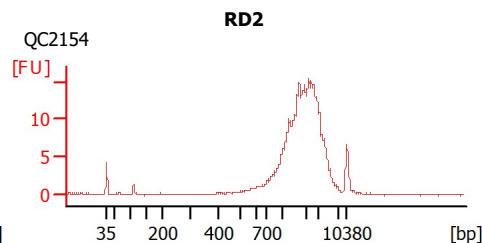
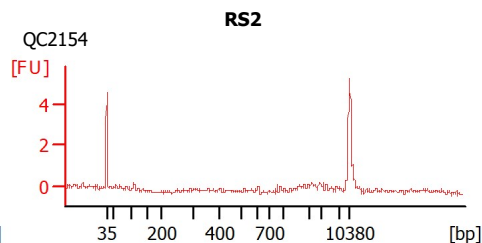
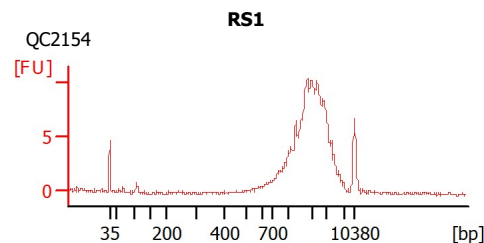
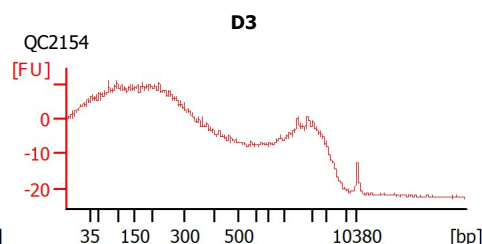
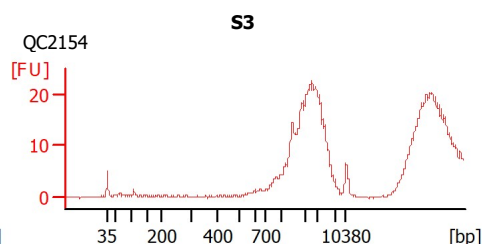
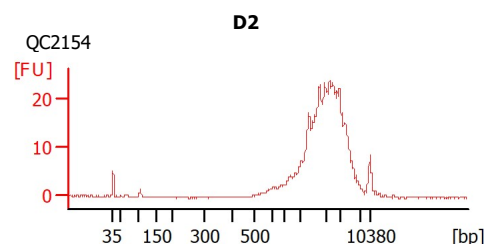
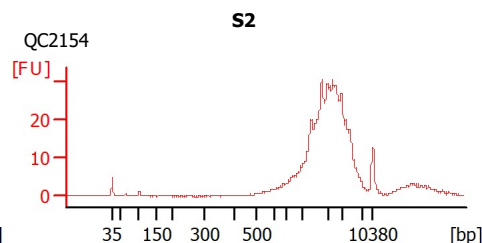
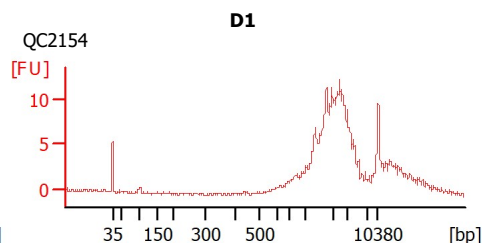
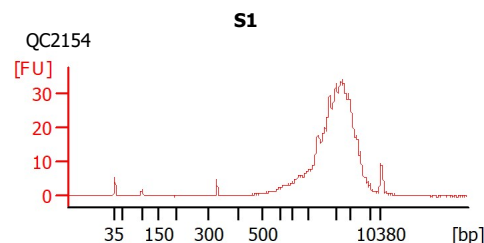
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
Modified: 3/31/2025 11:53:08 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
S1	QC2154	☐	✓			
D1	QC2154	☐	✓			
S2	QC2154	☐	✓			
D2	QC2154	☐	✓			
S3	QC2154	☐	✓			
D3	QC2154	☐	✓			
RS1	QC2154	☐	✓			
RS2	QC2154	☐	✓			
RD2	QC2154	☐	✓			
RS3	QC2154	☐	✓			
Ladder		☐	✓			

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
Modified: 3/31/2025 11:53:08 AM

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

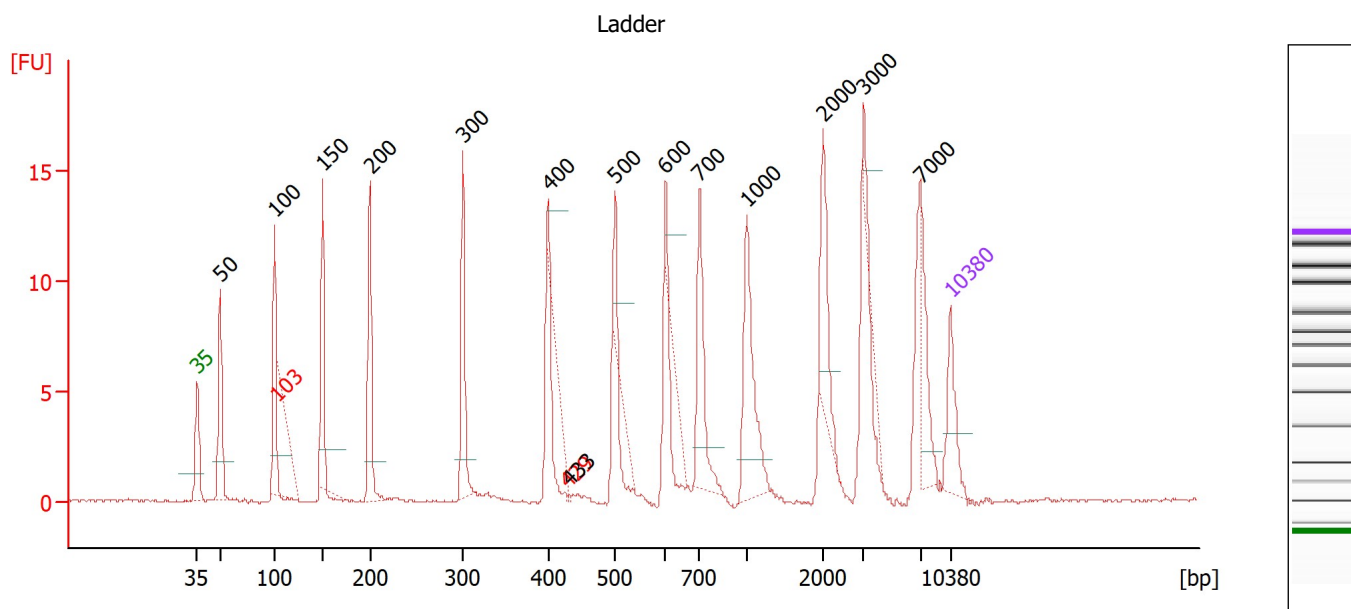
Ladder

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:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
 Modified: 3/31/2025 11:53:08 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

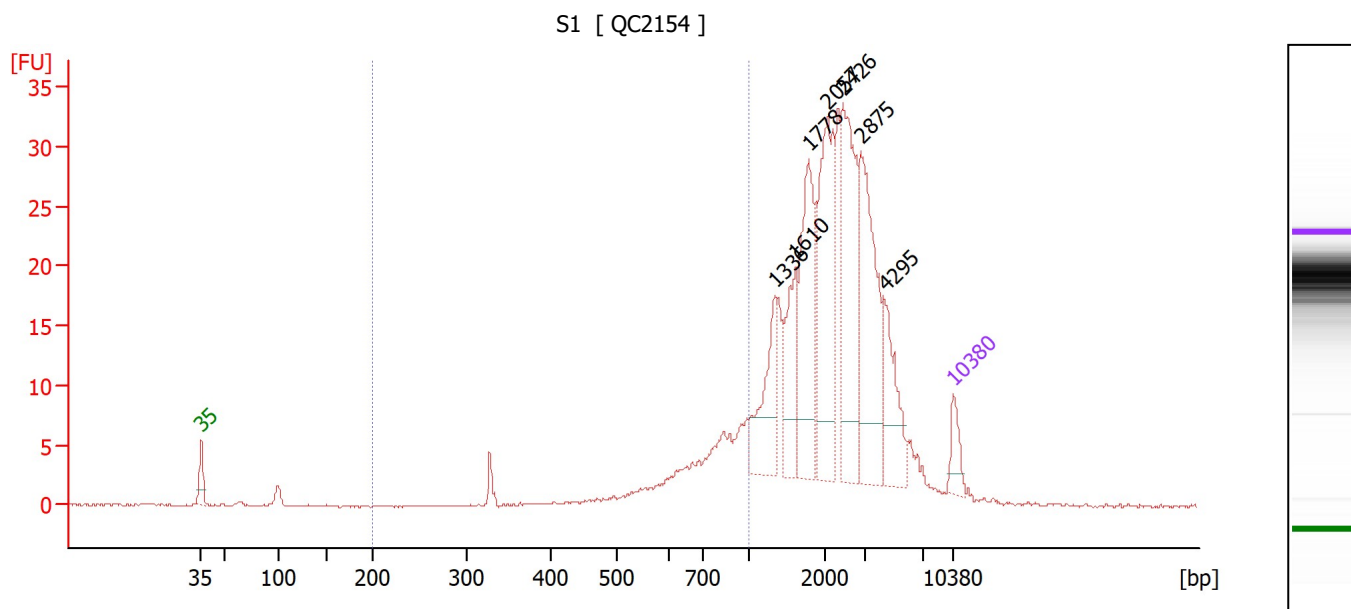
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	50	150.00	4,545.5	Ladder Peak
4	100	150.00	2,272.7	Ladder Peak
5	103	0.00	0.0	excluded peak
6	150	150.00	1,515.2	Ladder Peak
7	200	150.00	1,136.4	Ladder Peak
8	300	150.00	757.6	Ladder Peak
9	400	150.00	568.2	Ladder Peak
10	429	0.00	0.0	excluded peak
11	433	0.00	0.0	
12	500	150.00	454.5	Ladder Peak
13	600	150.00	378.8	Ladder Peak
14	700	150.00	324.7	Ladder Peak
15	1,000	150.00	227.3	Ladder Peak
16	2,000	150.00	113.6	Ladder Peak
17	3,000	150.00	75.8	Ladder Peak
18	7,000	150.00	32.5	Ladder Peak
19	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
 Modified: 3/31/2025 11:53:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : S1

Number of peaks found: 7 Corr. Area 1: 48.1
 Noise: 0.1

Peak table for sample 1 : S1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,336	262.07	297.2	
3	1,610	257.39	242.3	
4	1,778	455.25	388.0	
5	2,057	542.87	399.9	
6	2,426	550.97	344.0	
7	2,875	532.23	280.5	
8	4,295	236.99	83.6	
9	10,380	75.00	10.9	Upper Marker

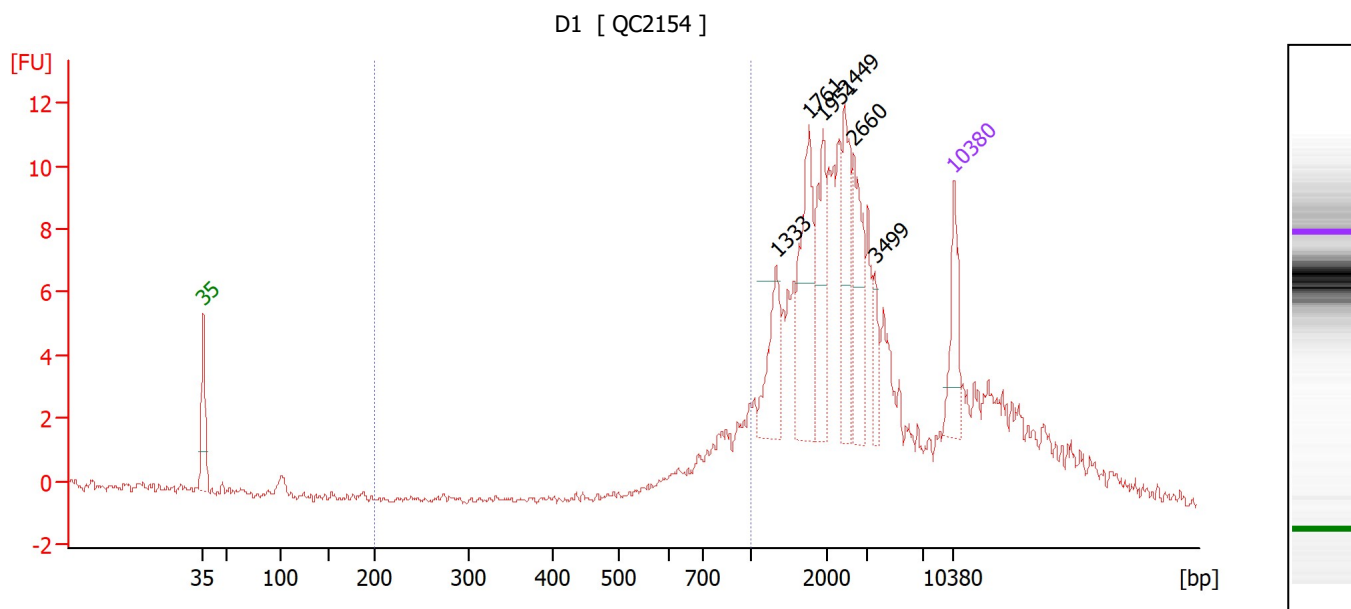
Region table for sample 1 : S1

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	48.1	13	734	23.4	710.36	1,624.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
 Modified: 3/31/2025 11:53:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : D1

Number of peaks found: 6 Corr. Area 1: 13.5
 Noise: 0.1

Peak table for sample 2 : D1

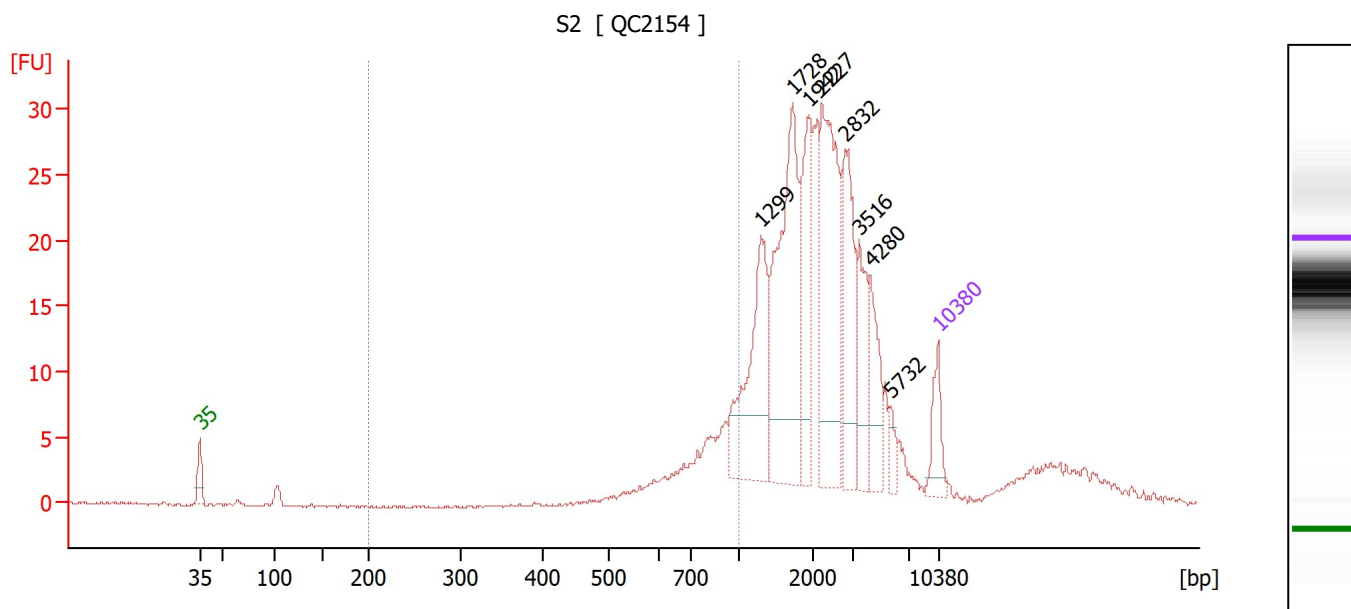
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,333	102.39	116.4	
3	1,761	179.48	154.4	
4	1,951	120.86	93.9	
5	2,449	117.23	72.5	
6	2,660	114.61	65.3	
7	3,499	40.30	17.4	
8	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : D1

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	13.5	9	790	17.0	216.82	429.9	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
Modified: 3/31/2025 11:53:08 AM

Electropherogram Summary Continued ...**Overall Results for sample 3 : S2**

Number of peaks found: 8 Corr. Area 1: 37.8
Noise: 0.1

Peak table for sample 3 : S2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,299	358.54	418.1	
3	1,728	506.42	444.1	
4	1,942	227.05	177.1	
5	2,227	418.91	285.0	
6	2,832	237.55	127.1	
7	3,516	143.75	61.9	
8	4,280	117.13	41.5	
9	5,732	32.60	8.6	
10	10,380	75.00	10.9	Upper Marker

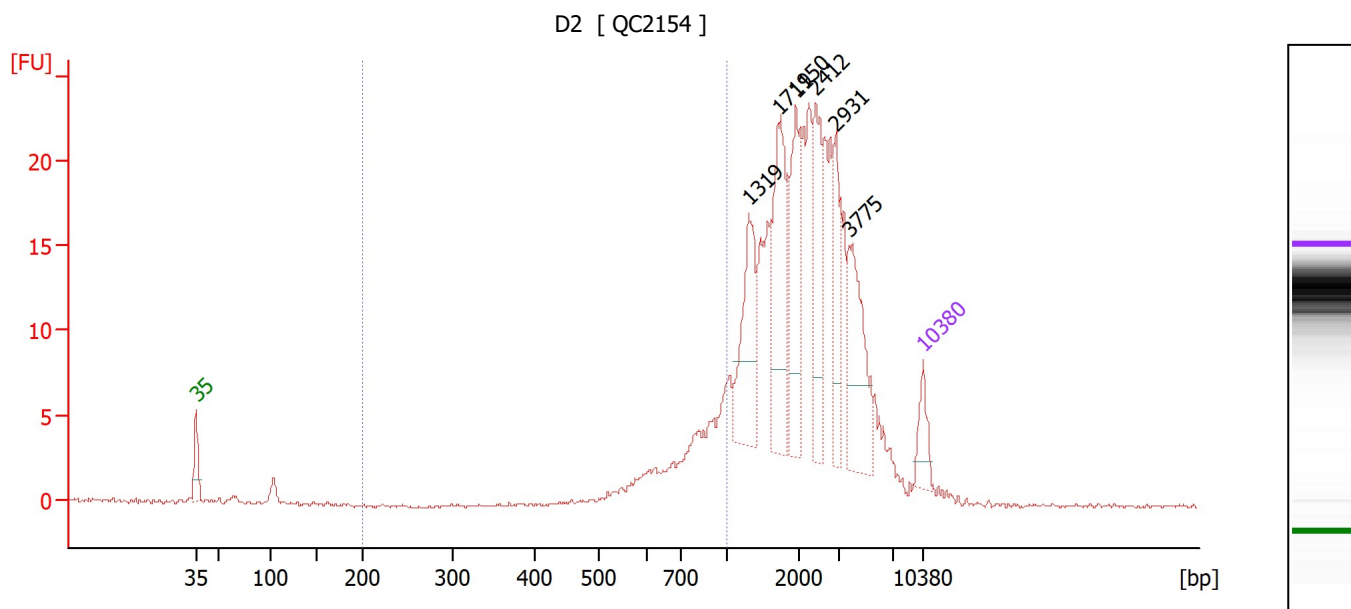
Region table for sample 3 : S2

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	37.8	11	782	18.4	368.00	743.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
 Modified: 3/31/2025 11:53:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : D2

Number of peaks found: 6 Corr. Area 1: 31.8
 Noise: 0.1

Peak table for sample 4 : D2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,319	301.44	346.3	
3	1,711	380.04	336.6	
4	1,950	277.58	215.6	
5	2,412	266.62	167.5	
6	2,931	175.76	90.8	
7	3,775	305.88	122.8	
8	10,380	75.00	10.9	Upper Marker

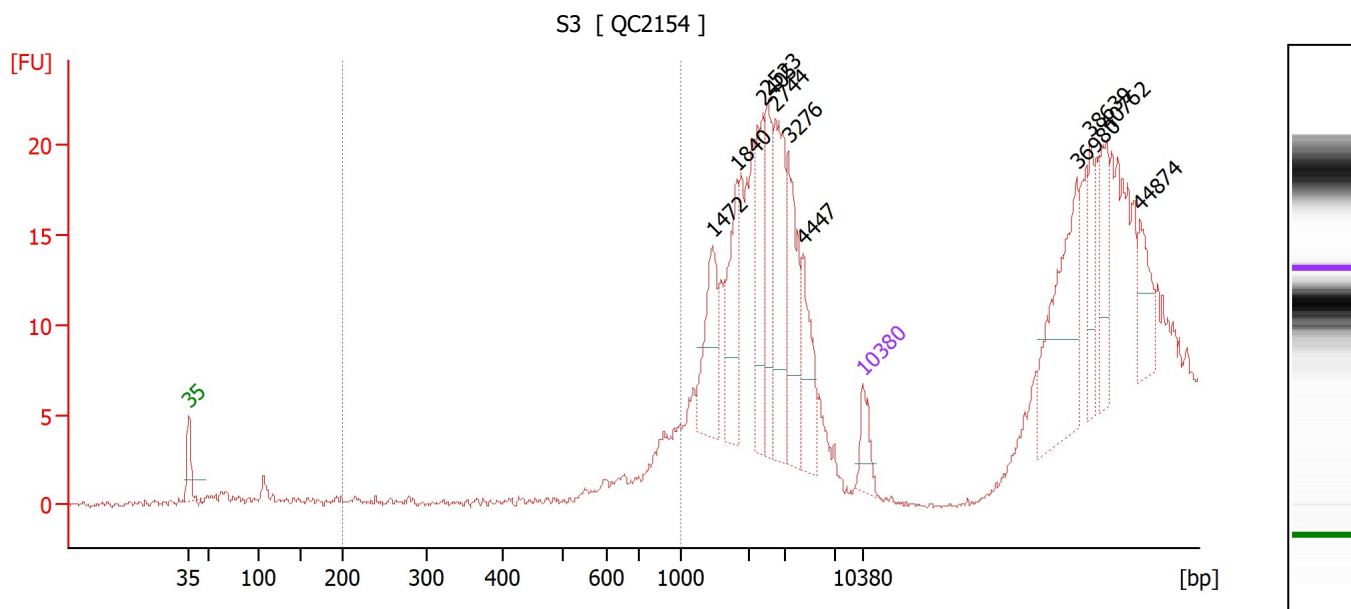
Region table for sample 4 : D2

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	31.8	12	775	18.5	522.56	1,065.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
 Modified: 3/31/2025 11:53:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : S3

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

Peak table for sample 5 : S3

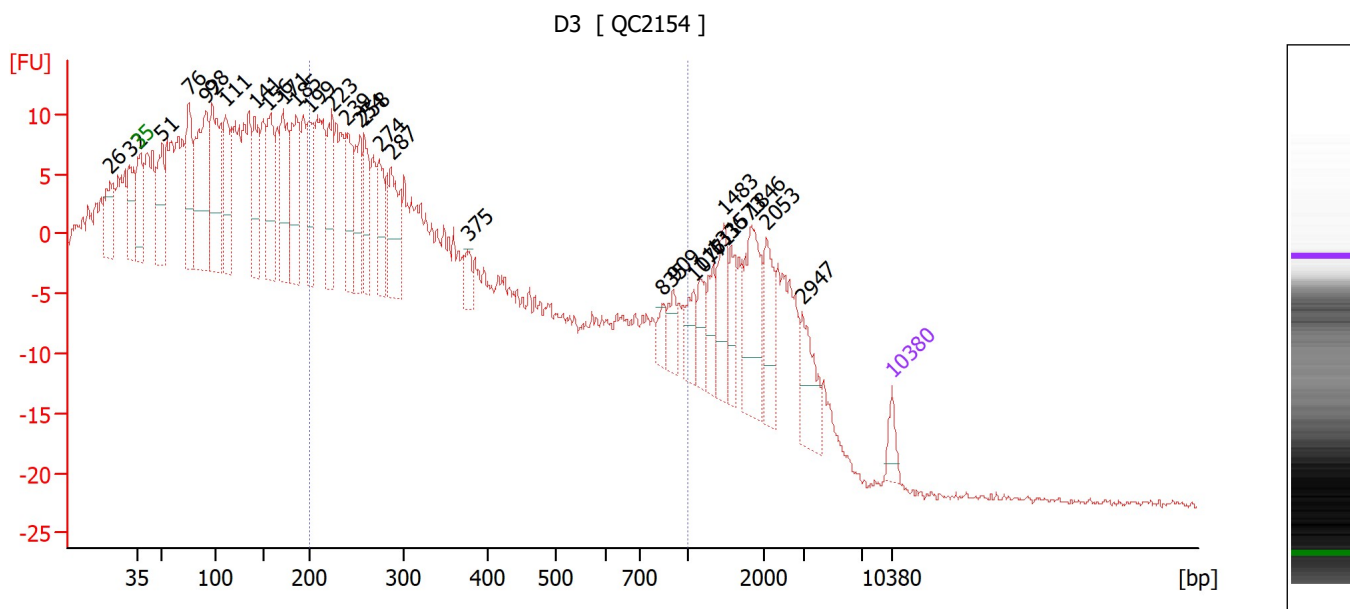
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,472	230.10	236.8	
3	1,840	231.64	190.7	
4	2,405	218.57	137.7	
5	2,523	201.83	121.2	
6	2,744	294.93	162.9	
7	3,276	270.60	125.2	
8	4,447	176.57	60.2	
9	10,380	75.00	10.9	Upper Marker
10	36,980	0.00	0.0	
11	38,639	0.00	0.0	
12	40,762	0.00	0.0	
13	44,874	0.00	0.0	

Region table for sample 5 : S3

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	0.2	0	970	3.1	3.05	4.8	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
Modified: 3/31/2025 11:53:08 AM

Electropherogram Summary Continued ...**Overall Results for sample 6 : D3**

Number of peaks found: 29 Corr. Area 1: 344.2
Noise: 0.3

Peak table for sample 6 : D3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	26	0.00	0.0	
2	32	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	51	511.19	15,189.8	
5	76	689.21	13,697.4	
6	92	1,098.05	18,068.2	
7	98	950.02	14,685.0	
8	111	621.11	8,479.0	
9	141	468.97	5,031.9	
10	156	602.54	5,864.2	
11	171	645.66	5,720.1	
12	185	589.19	4,819.5	
13	199	443.94	3,382.4	
14	223	444.26	3,020.4	
15	239	420.78	2,669.2	
16	254	347.49	2,075.1	
17	258	334.08	1,959.8	
18	274	322.90	1,787.4	
19	287	476.76	2,513.2	
20	375	111.46	449.8	
21	835	92.18	167.3	
22	909	121.95	203.3	
23	1,077	150.91	212.3	
24	1,161	132.34	172.7	
25	1,336	161.75	183.5	
26	1,483	242.08	247.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
Modified: 3/31/2025 11:53:08 AM

Electropherogram Summary Continued ...**... Peak table for sample 6 : D3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,573	155.47	149.7	
28	1,846	403.25	331.0	
29	2,053	240.56	177.6	
30	2,947	247.91	127.4	
31	10,380	75.00	10.9	Upper Marker

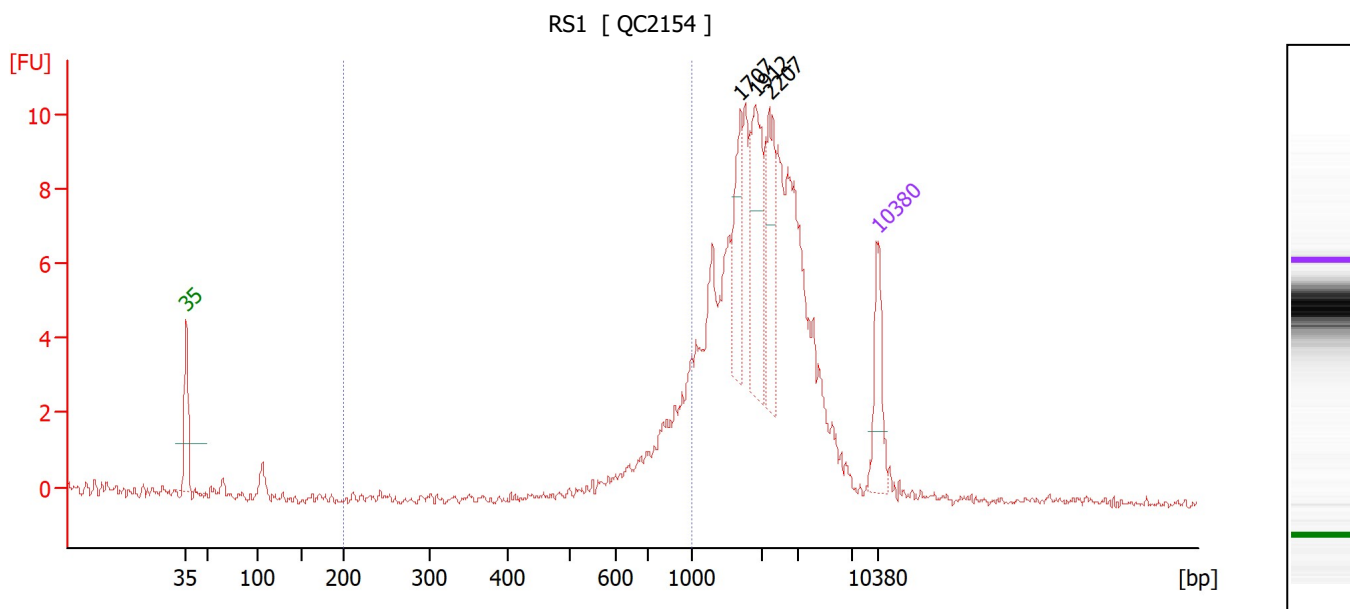
Region table for sample 6 : D3

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	344.2	39	385	51.4	7,660.99	38,653.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
 Modified: 3/31/2025 11:53:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : RS1

Number of peaks found: 3 Corr. Area 1: 13.9
 Noise: 0.1

Peak table for sample 7 : RS1

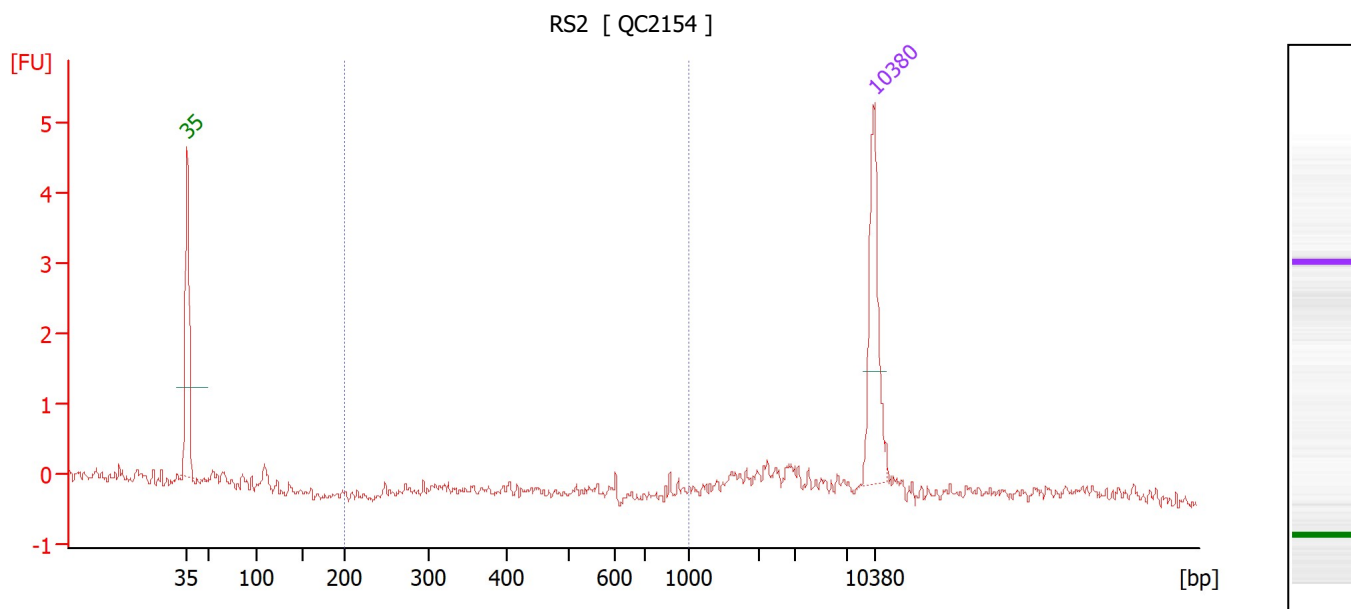
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,707	91.33	81.1	
3	1,912	144.12	114.2	
4	2,207	110.48	75.8	
5	10,380	75.00	10.9	Upper Marker

Region table for sample 7 : RS1

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	13.9	12	798	17.5	243.63	481.9	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
Modified: 3/31/2025 11:53:08 AM

Electropherogram Summary Continued ...**Overall Results for sample 8 : RS2**

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

Peak table for sample 8 : RS2

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

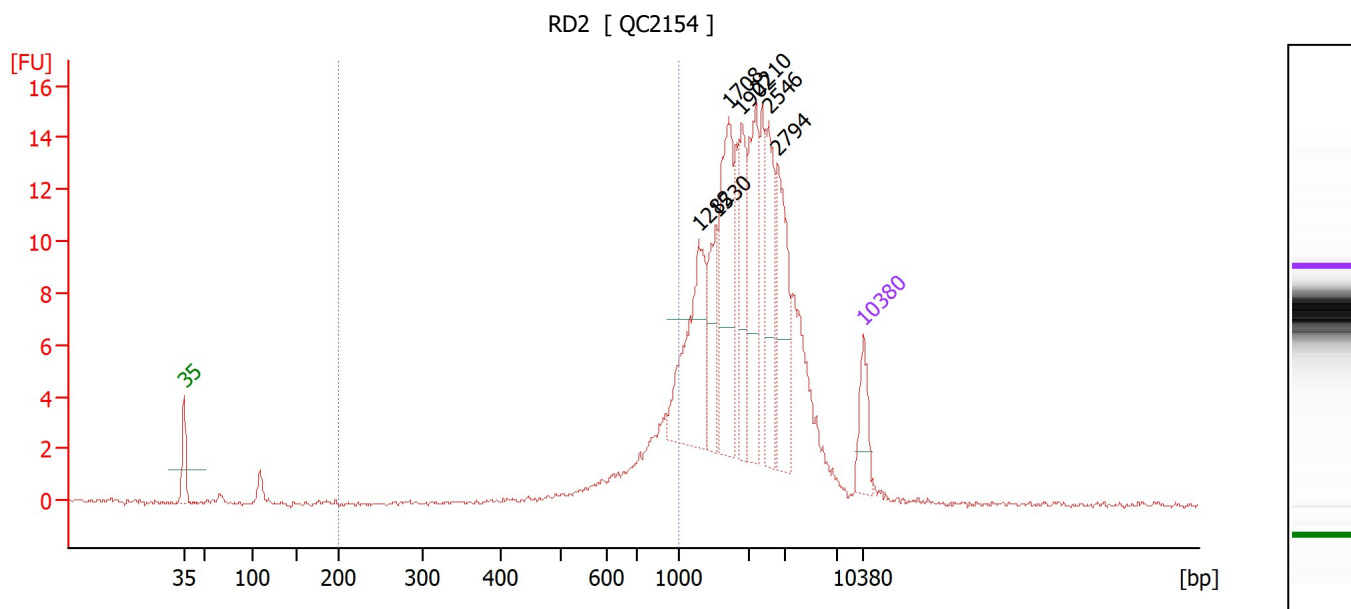
Region table for sample 8 : RS2

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	0.1	2	778	21.0	2.13	4.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
 Modified: 3/31/2025 11:53:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : RD2

Number of peaks found: 7 Corr. Area 1: 21.4
 Noise: 0.1

Peak table for sample 9 : RD2

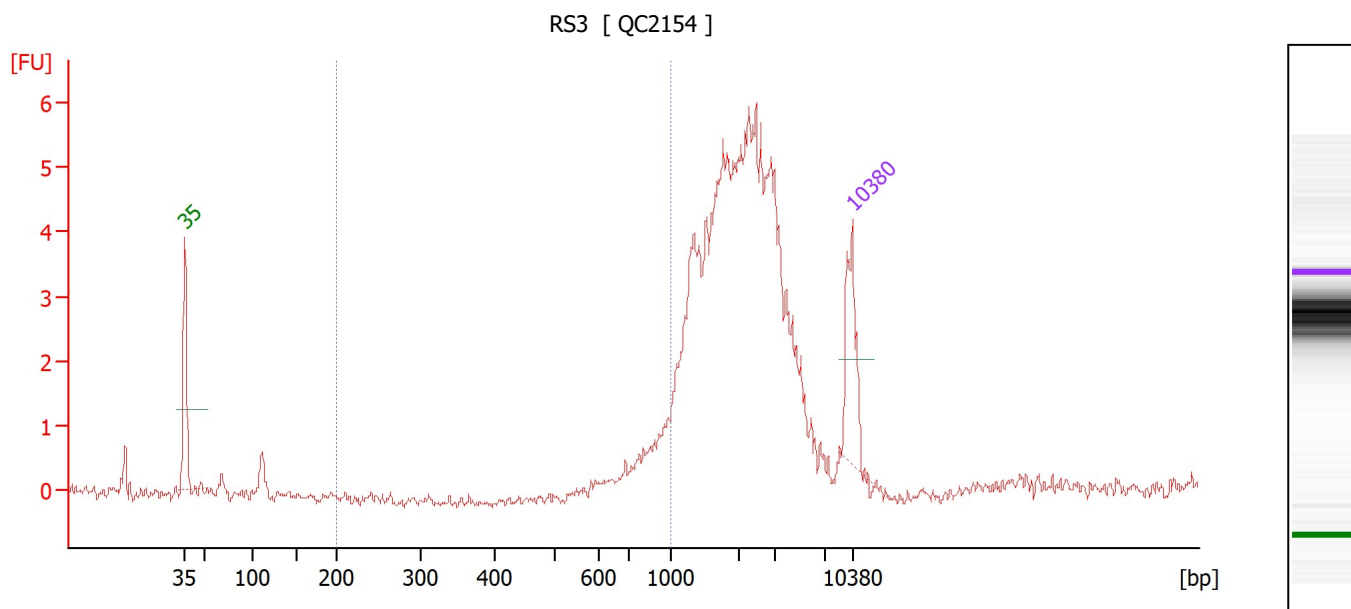
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,282	288.09	340.5	
3	1,530	128.75	127.5	
4	1,708	283.54	251.5	
5	1,902	136.16	108.4	
6	2,210	216.63	148.5	
7	2,546	169.37	100.8	
8	2,794	209.82	113.8	
9	10,380	75.00	10.9	Upper Marker

Region table for sample 9 : RD2

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	21.4	13	783	20.0	384.26	788.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
Modified: 3/31/2025 11:53:08 AM

Electropherogram Summary Continued ...**Overall Results for sample 10 : RS3**

Number of peaks found: 0 Corr. Area 1: 2.8
Noise: 0.1

Peak table for sample 10 : RS3

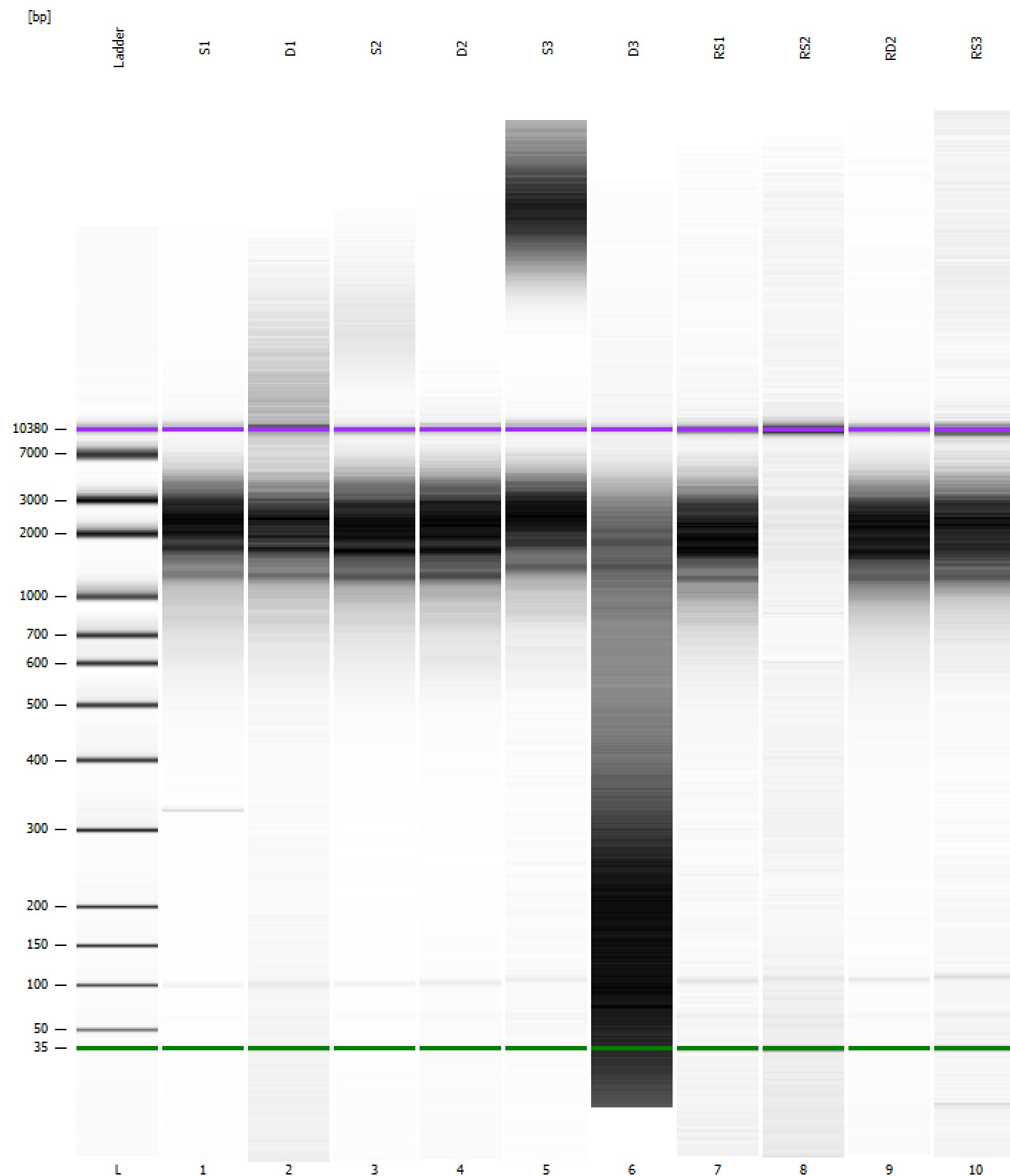
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

Region table for sample 10 : RS3

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	2.8	5	867	11.5	70.61	124.6	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
Modified: 3/31/2025 11:53:08 AM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2025-03-31\QC2154_1-10.xad

Created: 3/31/2025 10:35:22 AM
 Modified: 3/31/2025 11:53:08 AM

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		3/31/2025 11:16:40 AM	(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\2025-03-31\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2025-03-31_001.xad)		Instrument	Run		3/31/2025 10:35:31 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		3/31/2025 10:35:31 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		3/31/2025 10:35:31 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		3/31/2025 10:35:31 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		3/31/2025 10:35:31 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		3/31/2025 10:35:31 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		3/31/2025 10:35:30 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB