

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2025-06-26\QC2232.xad

Created: 6/26/2025 10:07:20 AM
Modified: 6/26/2025 10:51:57 AM

Electrophoresis File Run Summary

Instrument Information:

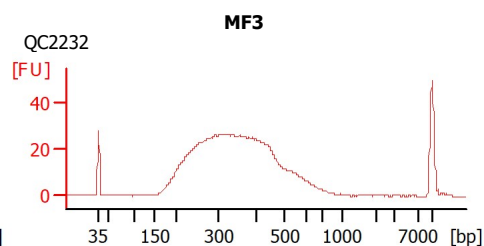
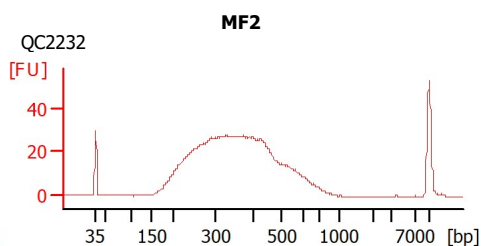
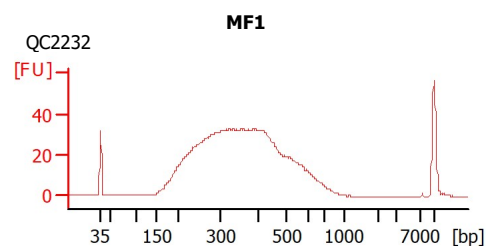
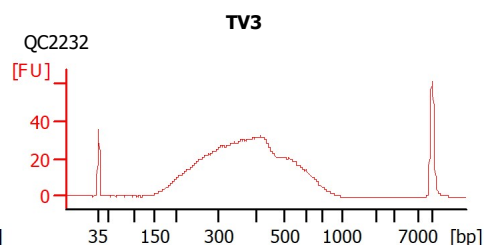
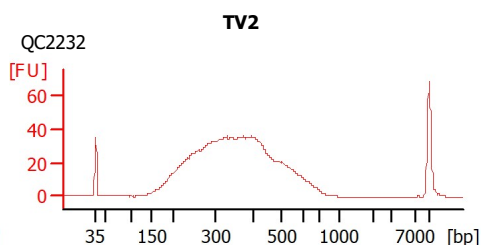
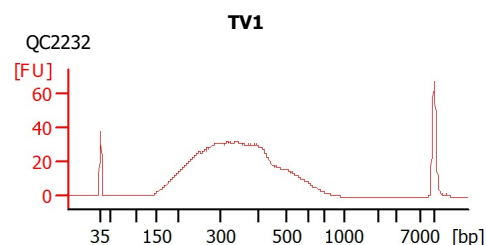
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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
TV1	QC2232	☐	✓			
TV2	QC2232	☐	✓			
TV3	QC2232	☐	✓			
MF1	QC2232	☐	✓			
MF2	QC2232	☐	✓			
MF3	QC2232	☐	✓			
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/ 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

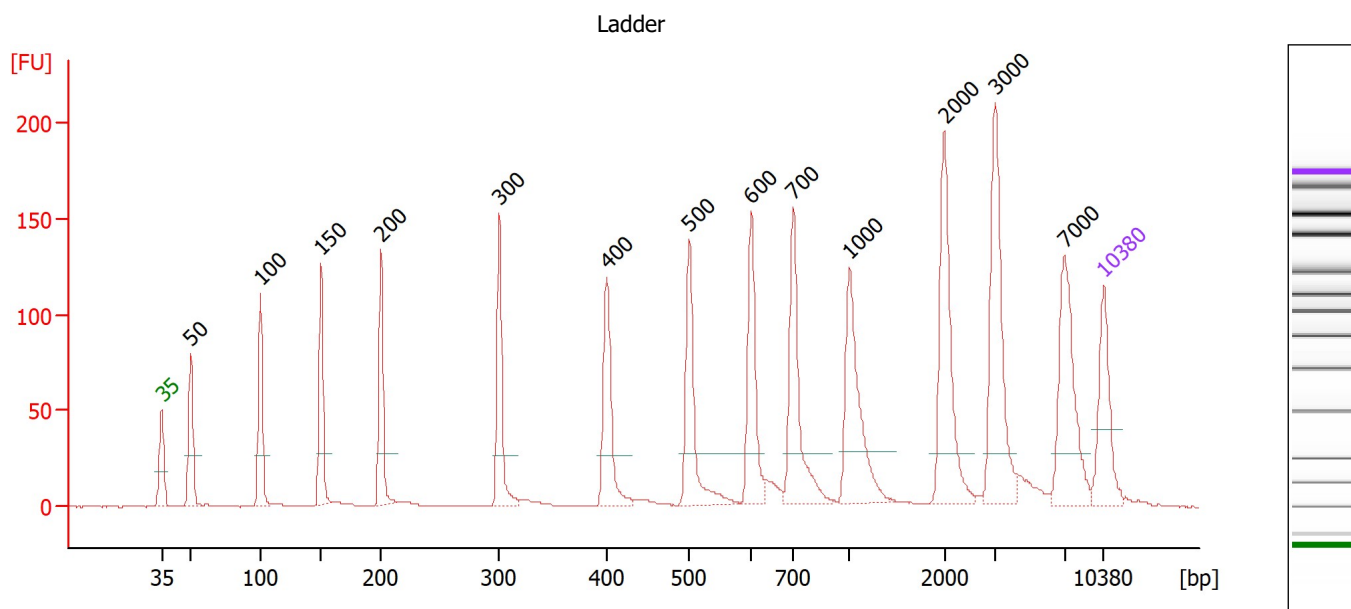
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

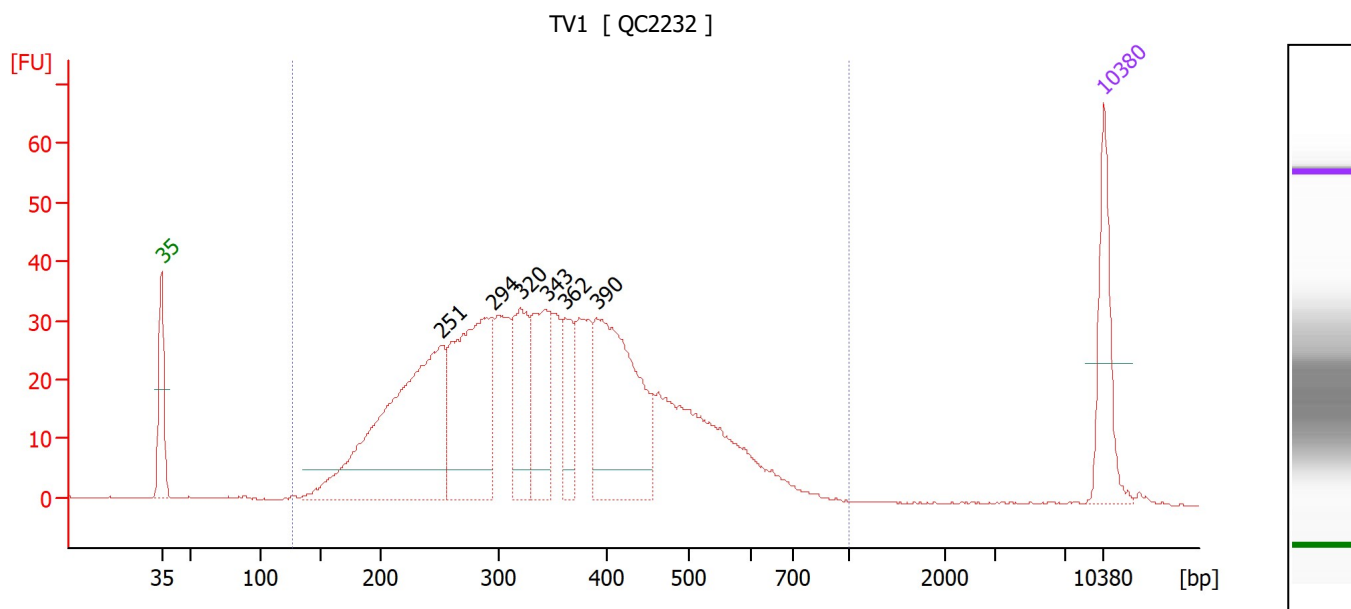
Peak table for Ladder

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 6 : TV1

Number of peaks found: 6 Corr. Area 1: 943.3
 Noise: 0.1

Peak table for sample 6 : TV1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	251	445.29	2,688.2	
3	294	295.02	1,520.5	
4	320	120.02	568.7	
5	343	123.94	547.0	
6	362	65.85	275.7	
7	390	267.79	1,039.4	
8	10,380	75.00	10.9	Upper Marker

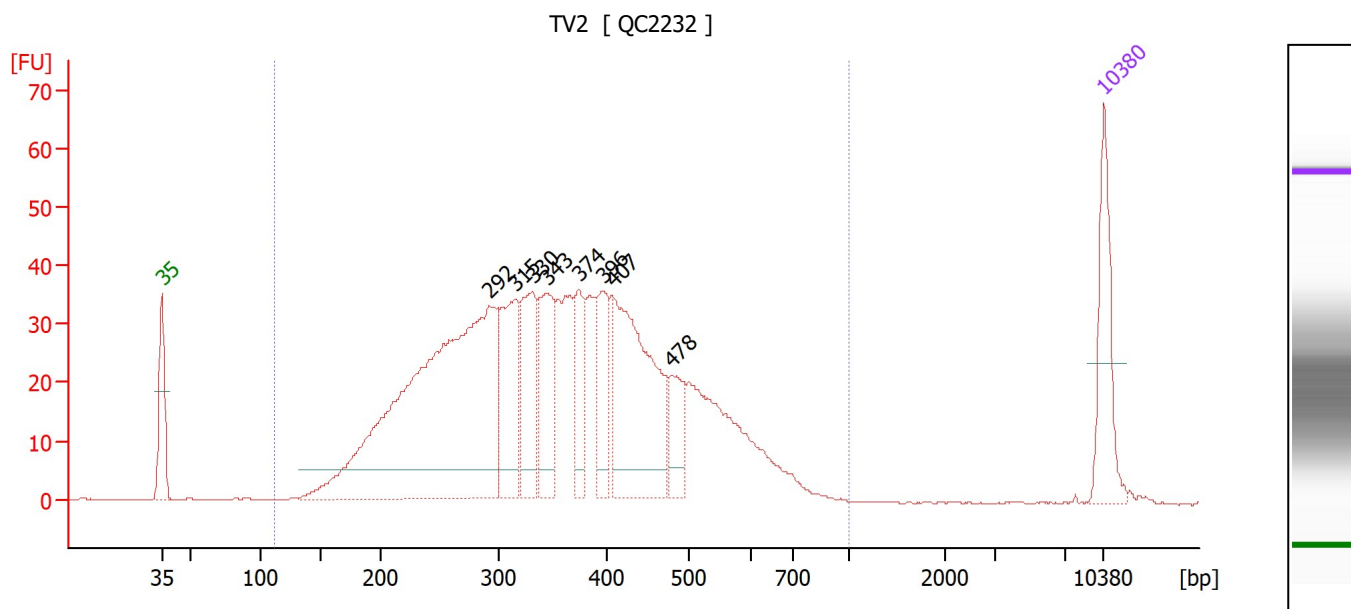
Region table for sample 6 : TV1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
126	1,000	943.3	99	354	32.0	1,929.20	9,569.6	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 7 : TV2

Number of peaks found: 8 Corr. Area 1: 1,056.6
 Noise: 0.1

Peak table for sample 7 : TV2

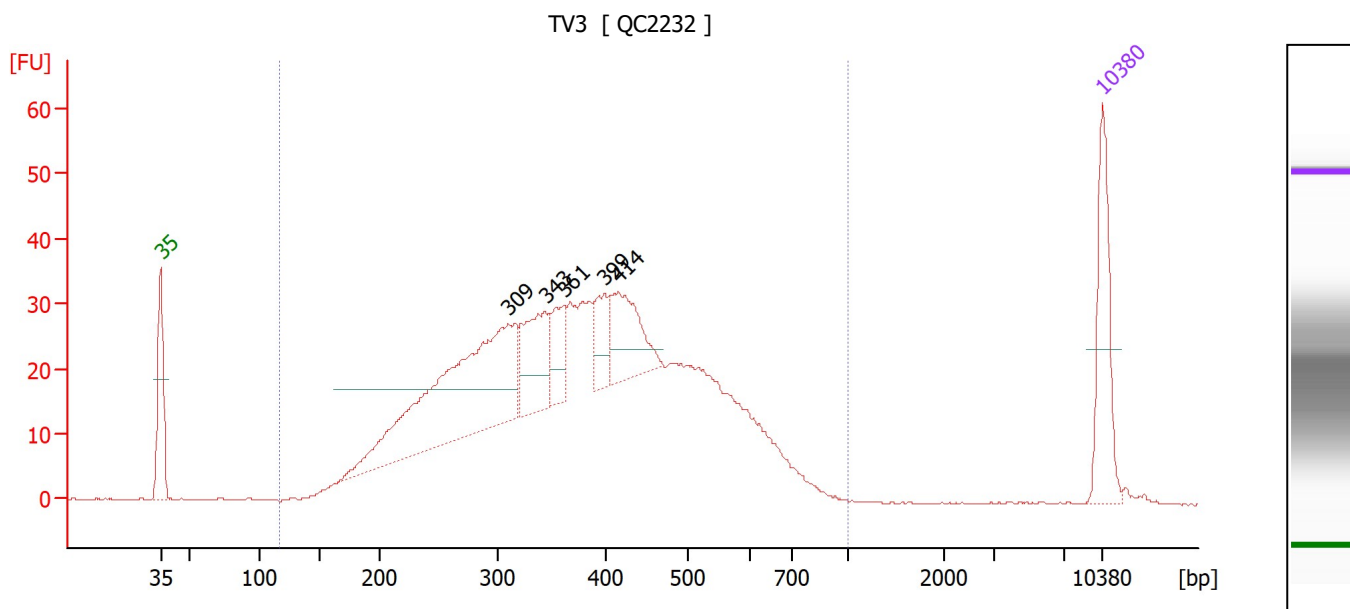
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	292	730.35	3,796.1	
3	315	144.90	698.0	
4	330	118.60	543.9	
5	343	115.10	507.9	
6	374	64.08	259.3	
7	396	70.68	270.4	
8	407	255.53	951.0	
9	478	56.44	179.0	
10	10,380	75.00	10.9	Upper Marker

Region table for sample 7 : TV2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
111	1,000	1,056.6	99	366	32.0	2,135.35	10,277.9	Blue

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Electropherogram Summary Continued ...**Overall Results for sample 8 : TV3**

Number of peaks found: 5 Corr. Area 1: 896.3
Noise: 0.1

Peak table for sample 8 : TV3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	309	346.13	1,695.9	
3	343	90.02	397.1	
4	361	46.33	194.5	
5	399	40.85	155.2	
6	414	83.62	305.7	
7	10,380	75.00	10.9	Upper Marker

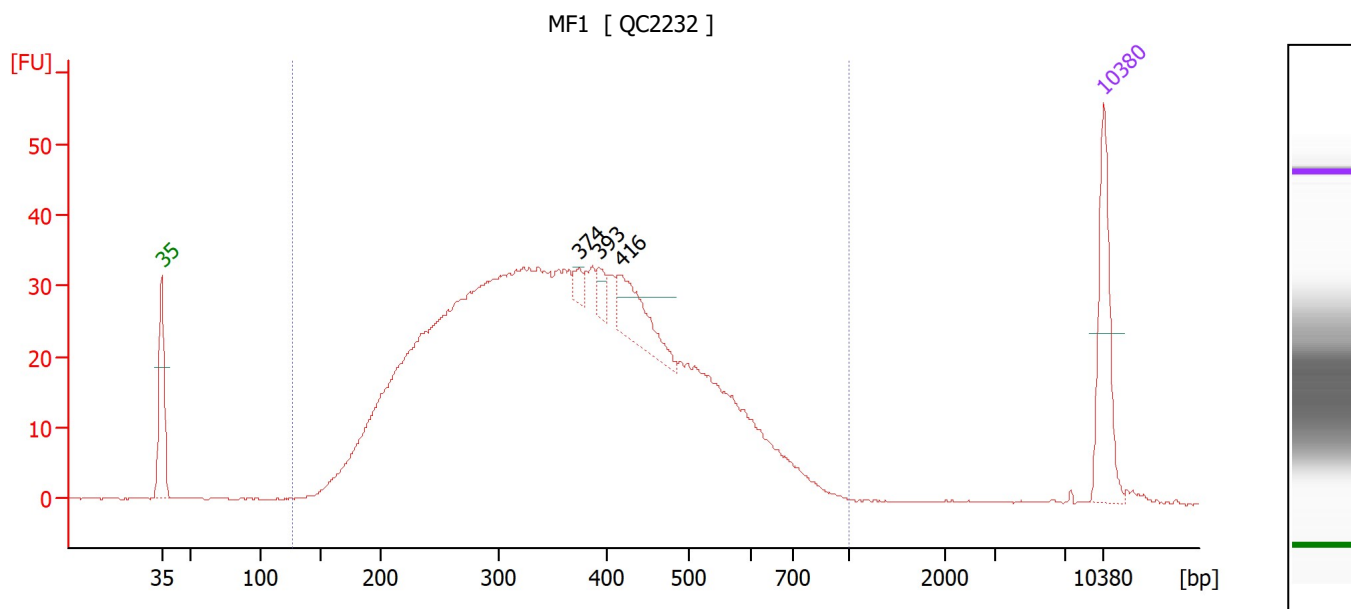
Region table for sample 8 : TV3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
116	1,000	896.3	99	387	32.0	1,931.14	8,806.0	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 9 : MF1

Number of peaks found: 3 Corr. Area 1: 1,017.1
 Noise: 0.1

Peak table for sample 9 : MF1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	374	10.38	42.0	
3	393	15.28	58.9	
4	416	66.18	240.9	
5	10,380	75.00	10.9	Upper Marker

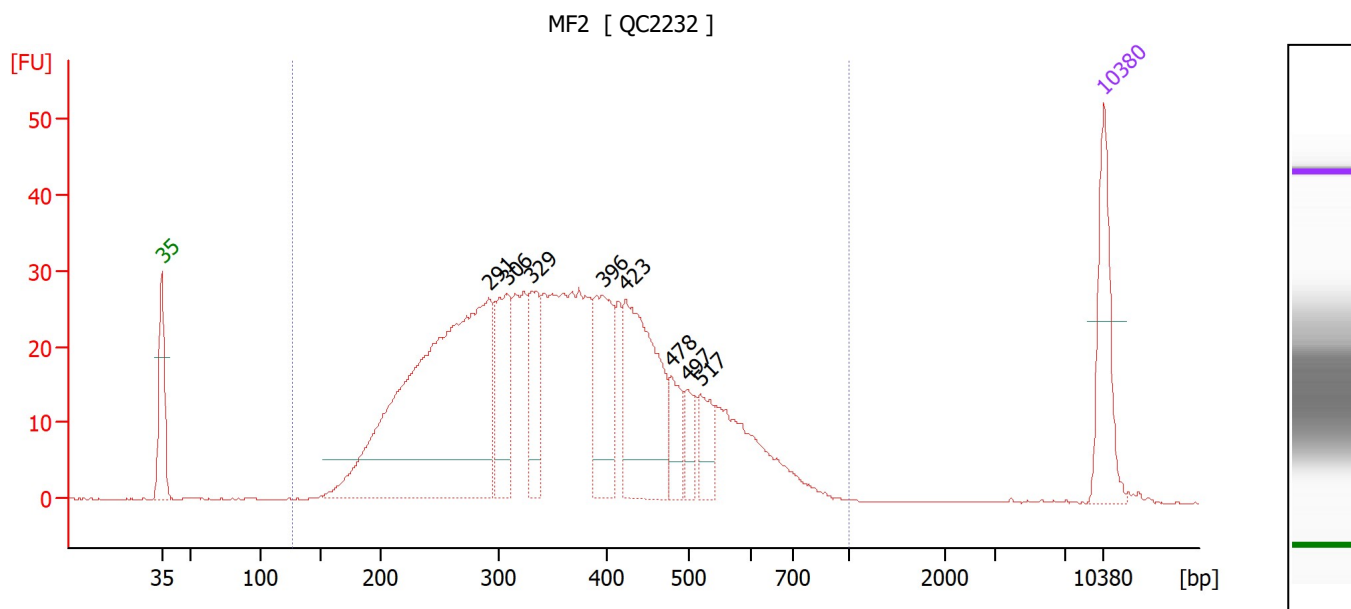
Region table for sample 9 : MF1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
126	1,000	1,017.1	99	370	33.1	2,583.77	12,361.8	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 10 : MF2

Number of peaks found: 8 Corr. Area 1: 812.7
 Noise: 0.1

Peak table for sample 10 : MF2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	291	665.05	3,462.0	
3	306	109.37	540.8	
4	329	79.62	366.4	
5	396	124.62	476.5	
6	423	208.94	748.5	
7	478	43.35	137.5	
8	497	30.65	93.5	
9	517	39.58	115.9	
10	10,380	75.00	10.9	Upper Marker

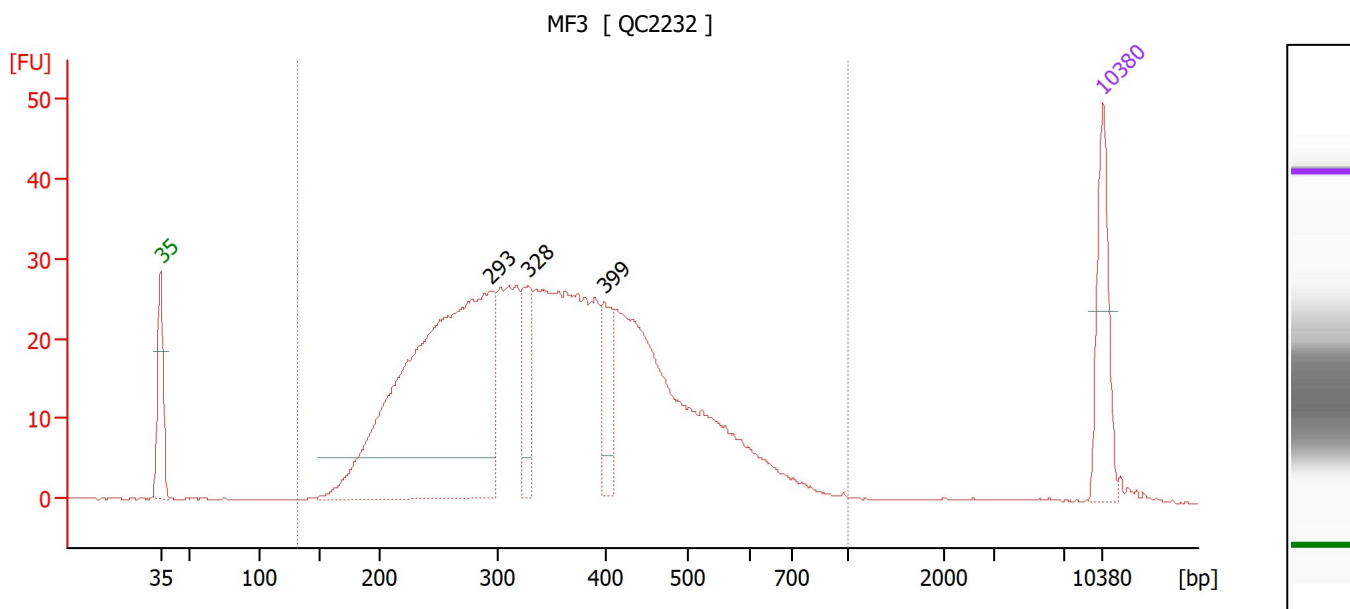
Region table for sample 10 : MF2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
127	1,000	812.7	99	369	31.9	2,049.29	9,703.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 11 : MF3

Number of peaks found: 3 Corr. Area 1: 772.7
 Noise: 0.1

Peak table for sample 11 : MF3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	293	767.97	3,966.1	
3	328	73.60	339.7	
4	399	66.23	251.7	
5	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : MF3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
132	1,000	772.7	98	360	32.2	2,139.62	10,317.1	Blue

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Gel Image

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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		6/26/2025 10:48:40 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\2025-06-26\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2025-06-26_001.xad)		Instrument	Run		6/26/2025 10:07:27 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/26/2025 10:07:27 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/26/2025 10:07:27 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/26/2025 10:07:27 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/26/2025 10:07:27 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/26/2025 10:07:27 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/26/2025 10:07:27 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB