

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2025-05-29\10XSC0426 cDNA.xad

Created: 5/29/2025 8:59:36 AM
Modified: 5/29/2025 9:42:25 AM

Electrophoresis File Run Summary

Instrument Information:

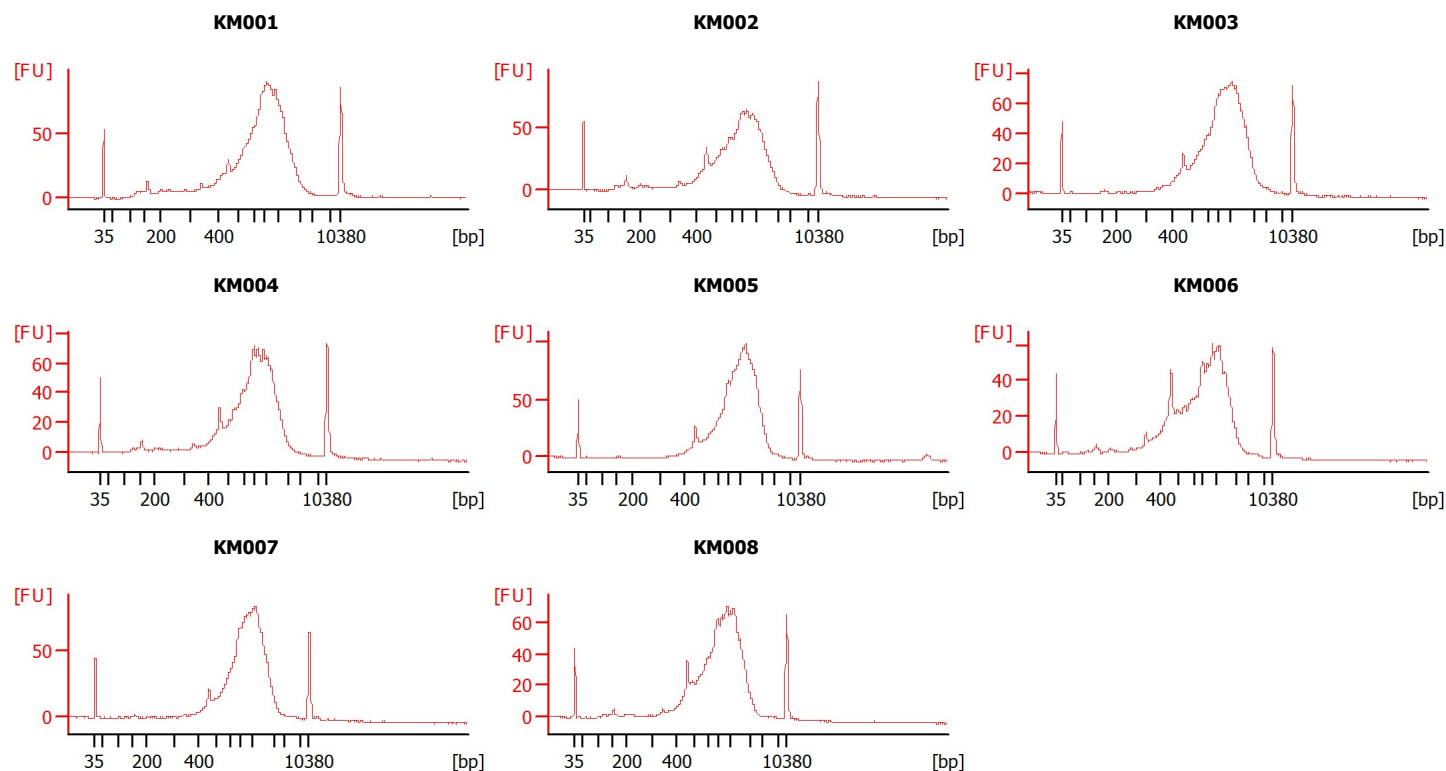
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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
KM001		☐	✓			
KM002		☐	✓			
KM003		☐	✓			
KM004		☐	✓			
KM005		☐	✓			
KM006		☐	✓			
KM007		☐	✓			
KM008		☐	✓			
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

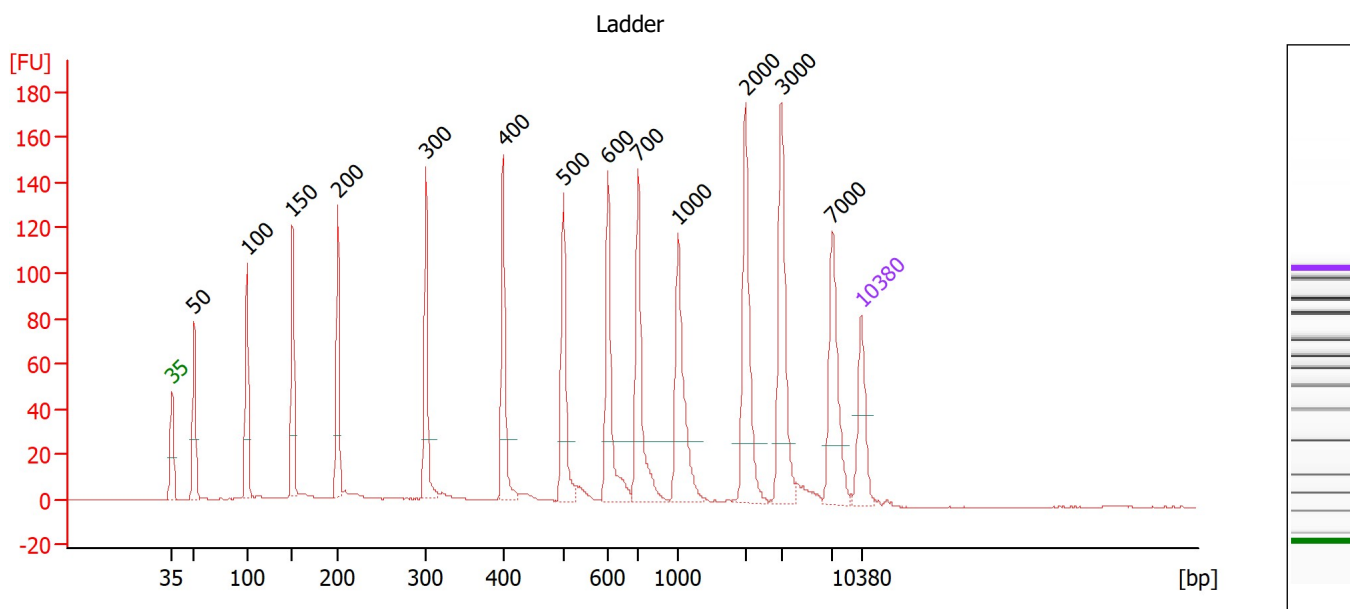
Ladder

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

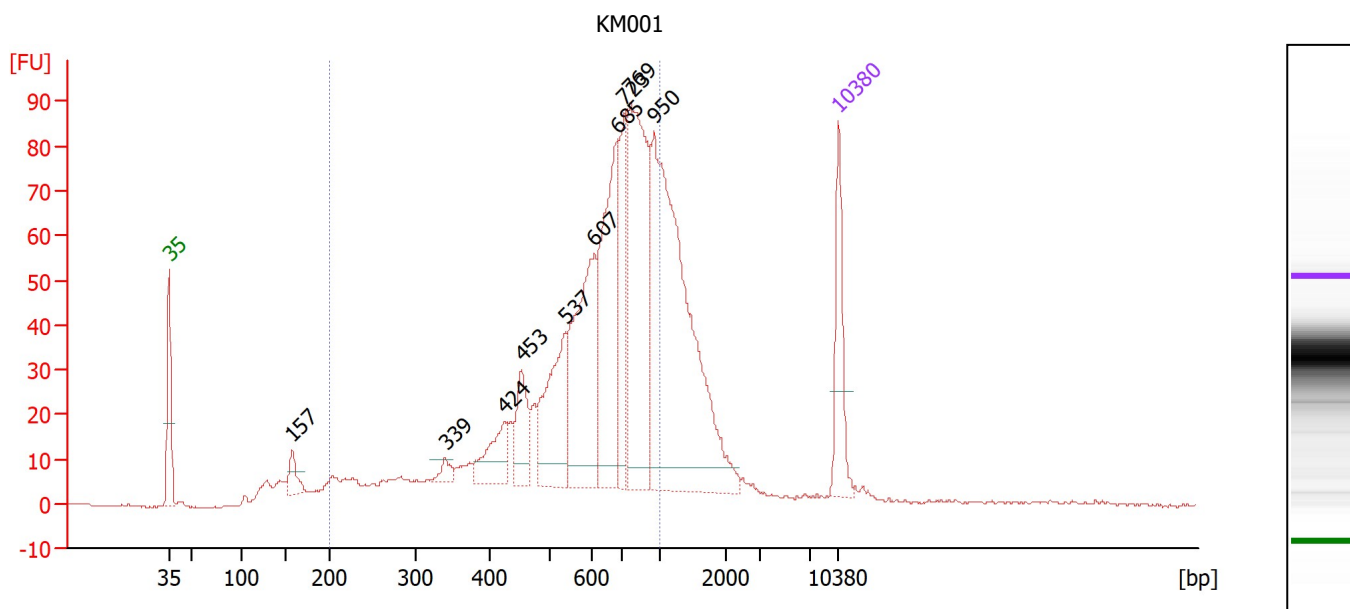
Noise: 0.2

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 1 : KM001**

Number of peaks found: 10 Corr. Area 1: 1,096.1
Noise: 0.3

Peak table for sample 1 : KM001

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	157	35.13	338.9	
3	339	16.54	73.9	
4	424	68.09	243.4	
5	453	71.31	238.4	
6	537	151.25	426.4	
7	607	232.65	580.3	
8	685	243.01	537.7	
9	723	131.05	274.5	
10	769	327.77	646.0	
11	950	533.70	851.1	
12	10,380	75.00	10.9	Upper Marker

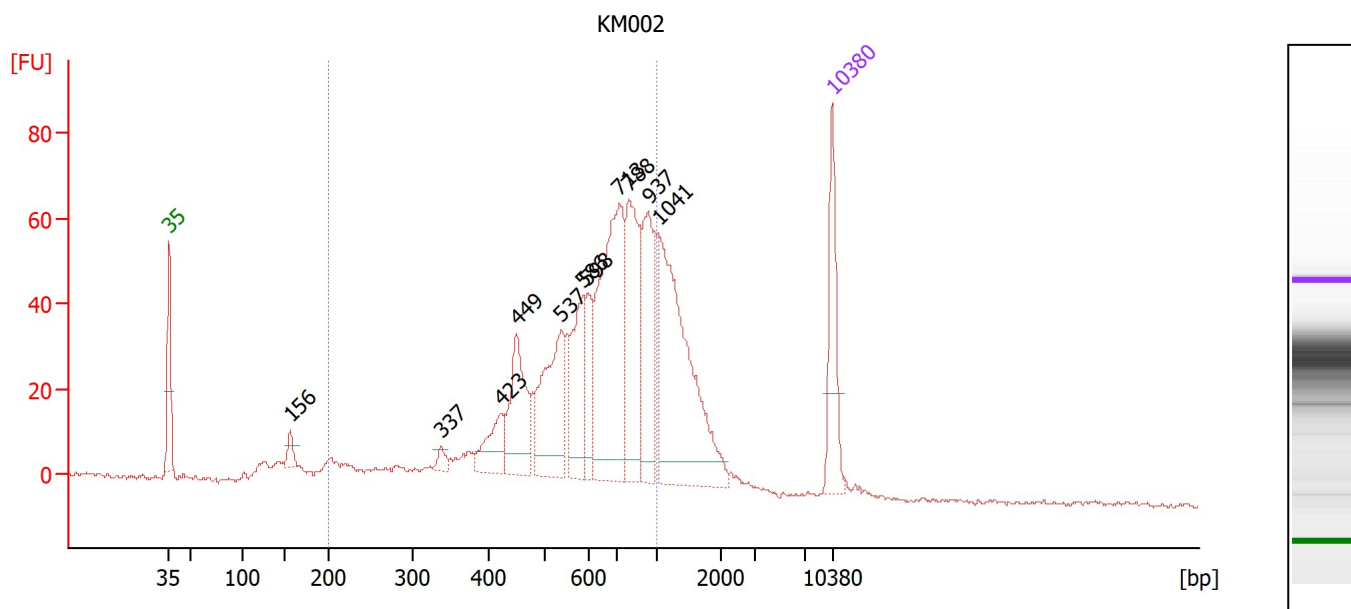
Region table for sample 1 : KM001

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	1,096.1	73	636	30.1	1,795.04	5,121.9	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : KM002

Number of peaks found: 11 Corr. Area 1: 908.2
 Noise: 0.5

Peak table for sample 2 : KM002

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	156	19.69	191.5	
3	337	11.95	53.7	
4	423	54.57	195.6	
5	449	114.89	387.5	
6	537	146.62	413.8	
7	586	101.48	262.2	
8	598	48.27	122.4	
9	713	283.10	601.6	
10	788	156.32	300.6	
11	937	120.87	195.4	
12	1,041	276.17	402.1	
13	10,380	75.00	10.9	Upper Marker

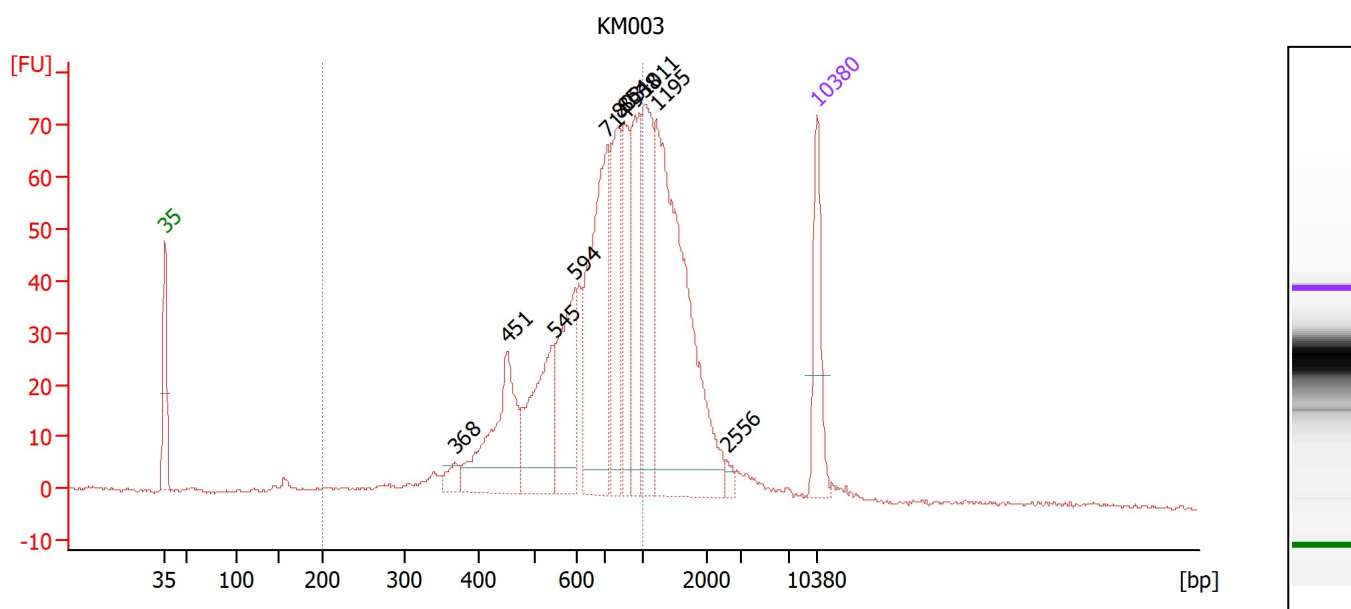
Region table for sample 2 : KM002

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	908.2	74	627	29.9	1,334.55	3,810.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : KM003

Number of peaks found: 11 Corr. Area 1: 802.7
 Noise: 0.4

Peak table for sample 3 : KM003

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	368	19.43	79.9	
3	451	170.75	573.5	
4	545	145.27	403.9	
5	594	137.09	349.6	
6	714	267.46	567.5	
7	803	135.99	256.7	
8	854	109.26	193.9	
9	938	118.88	192.0	
10	1,011	141.42	211.9	
11	1,195	406.78	515.9	
12	2,556	6.98	4.1	
13	10,380	75.00	10.9	Upper Marker

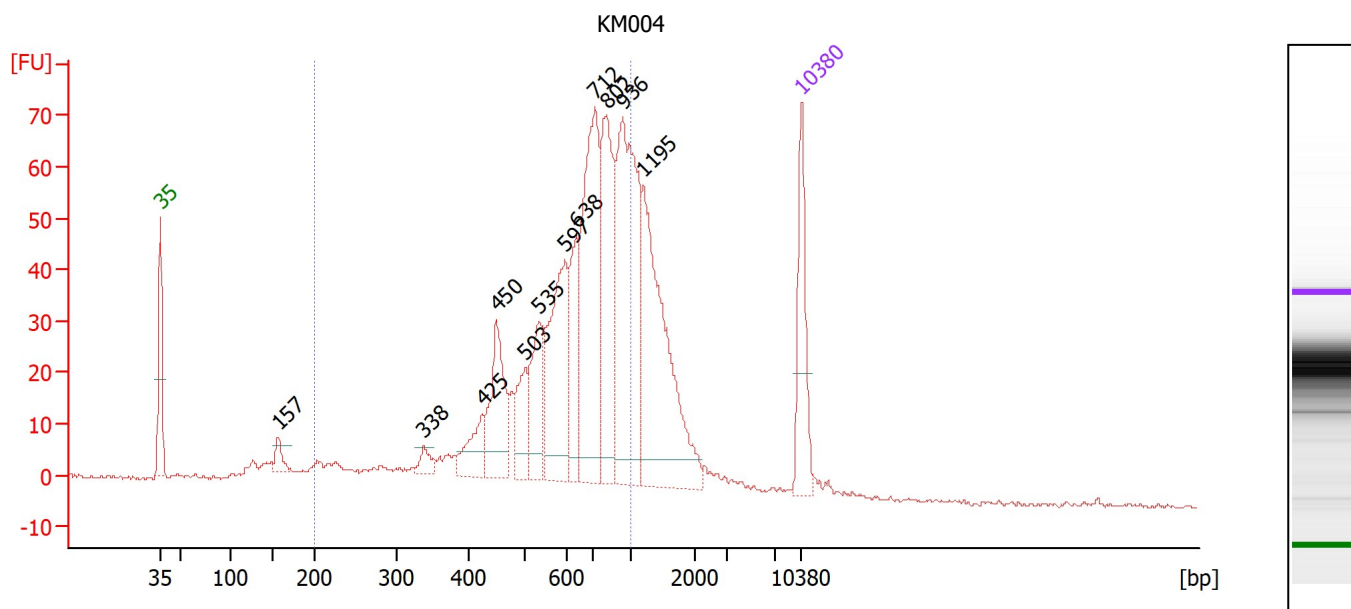
Region table for sample 3 : KM003

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	802.7	65	665	27.2	1,298.80	3,356.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2025-05-29\10XSC0426 cDNA.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : KM004

Number of peaks found: 12 Corr. Area 1: 848.0
 Noise: 0.4

Peak table for sample 4 : KM004

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	157	21.41	206.0	
3	338	16.22	72.7	
4	425	45.83	163.4	
5	450	102.42	345.1	
6	503	54.17	163.3	
7	535	82.27	233.1	
8	597	153.29	388.8	
9	638	83.32	197.8	
10	712	245.35	522.0	
11	802	173.54	327.7	
12	936	269.49	436.4	
13	1,195	239.21	303.3	
14	10,380	75.00	10.9	Upper Marker

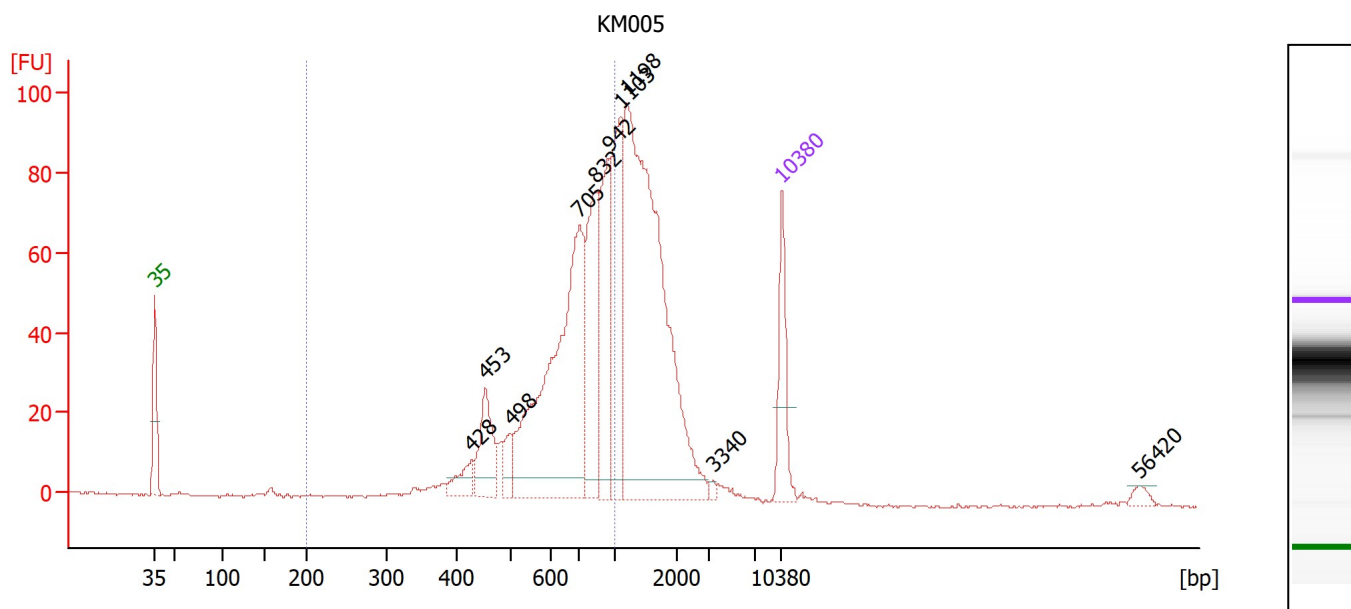
Region table for sample 4 : KM004

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	848.0	72	648	28.6	1,341.17	3,668.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2025-05-29\10XSC0426 cDNA.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : KM005

Number of peaks found: 10 Corr. Area 1: 703.3
 Noise: 0.3

Peak table for sample 5 : KM005

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	428	36.84	130.3	
3	453	92.45	309.4	
4	498	28.78	87.5	
5	705	510.06	1,096.5	
6	832	167.13	304.2	
7	942	168.63	271.2	
8	1,103	188.30	258.7	
9	1,198	674.30	852.8	
10	3,340	5.20	2.4	
11	10,380	75.00	10.9	Upper Marker
12	56,420	0.00	0.0	

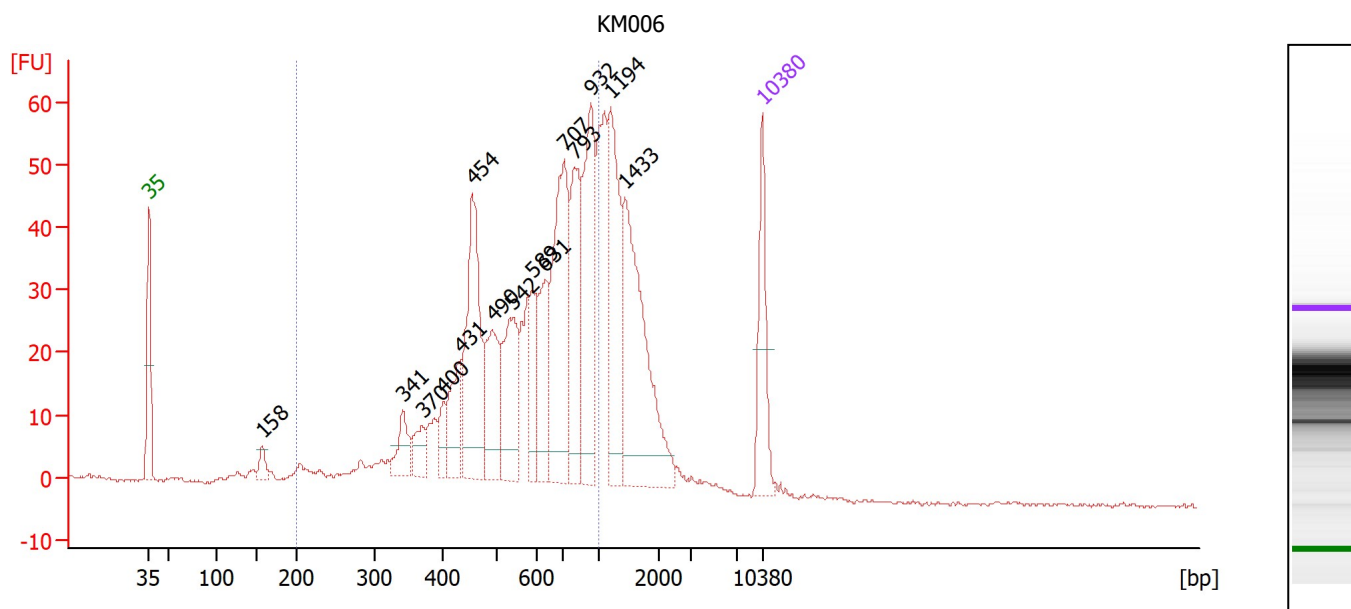
Region table for sample 5 : KM005

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	703.3	54	701	24.4	1,136.79	2,685.6	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 6 : KM006

Number of peaks found: 15 Corr. Area 1: 760.1
 Noise: 0.3

Peak table for sample 6 : KM006

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	158	22.15	212.5	
3	341	41.95	186.5	
4	370	31.52	129.3	
5	400	26.66	101.0	
6	431	68.99	242.8	
7	454	198.99	663.5	
8	490	95.56	295.4	
9	542	115.93	324.3	
10	589	55.67	143.3	
11	631	92.86	222.9	
12	707	223.01	477.6	
13	793	127.39	243.4	
14	932	168.66	274.1	
15	1,194	152.44	193.4	
16	1,433	227.99	241.0	
17	10,380	75.00	10.9	Upper Marker

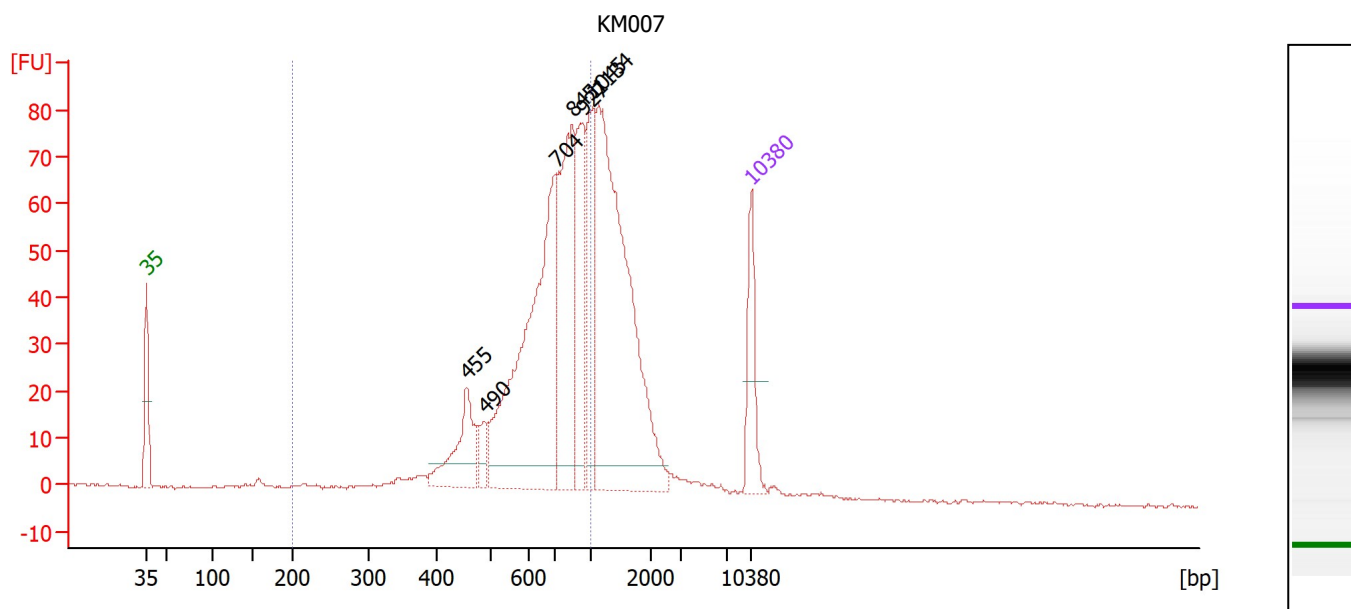
Region table for sample 6 : KM006

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	760.1	70	616	31.0	1,565.81	4,492.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2025-05-29\10XSC0426 cDNA.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : KM007

Number of peaks found: 7 Corr. Area 1: 704.5
 Noise: 0.3

Peak table for sample 7 : KM007

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	455	115.85	385.5	
3	490	28.39	87.9	
4	704	518.69	1,116.9	
5	845	278.66	499.7	
6	927	163.00	266.4	
7	1,045	145.15	210.5	
8	1,134	557.93	745.3	
9	10,380	75.00	10.9	Upper Marker

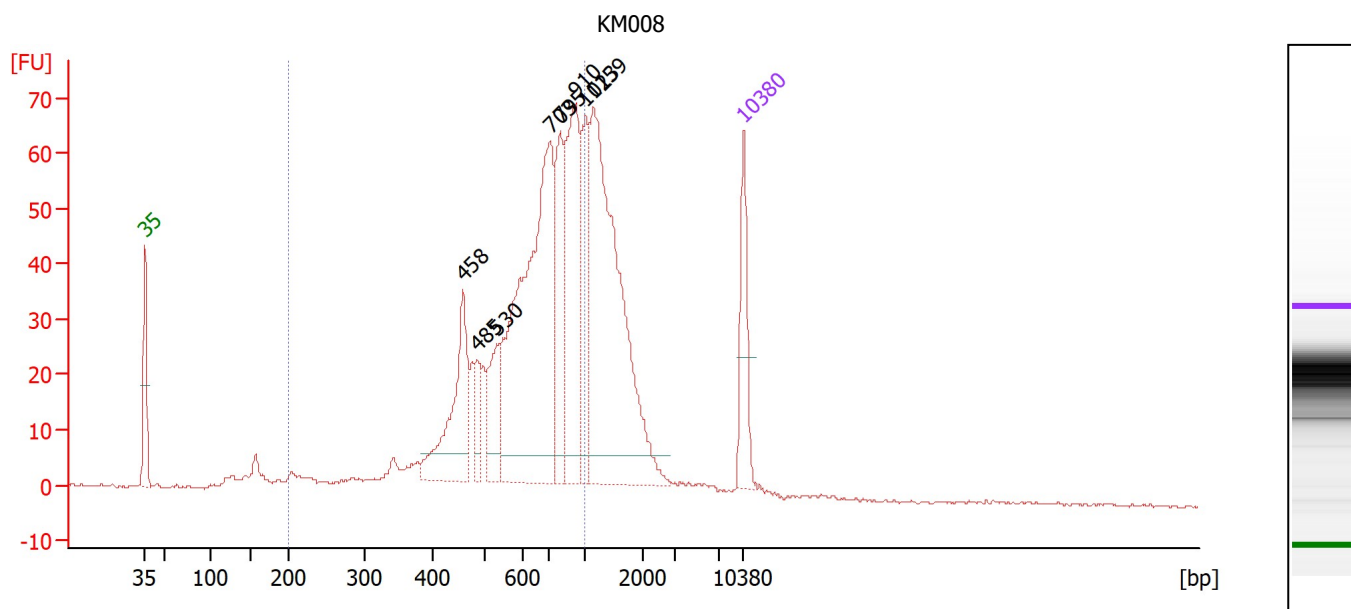
Region table for sample 7 : KM007

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	704.5	62	698	24.4	1,287.00	3,080.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2025-05-29\10XSC0426 cDNA.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : KM008

Number of peaks found: 8 Corr. Area 1: 767.3
 Noise: 0.2

Peak table for sample 8 : KM008

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	458	172.59	570.6	
3	485	41.39	129.4	
4	530	77.08	220.2	
5	703	547.01	1,179.4	
6	795	127.05	242.2	
7	910	223.25	371.7	
8	1,023	112.62	166.8	
9	1,159	463.03	605.4	
10	10,380	75.00	10.9	Upper Marker

Region table for sample 8 : KM008

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	767.3	67	653	27.9	1,520.61	4,054.9	Blue

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Gel Image

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Created: 5/29/2025 8:59:36 AM
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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		5/29/2025 9:40:56 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\2025-05-29\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2025-05-29_001.xad)		Instrument	Run		5/29/2025 8:59:43 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		5/29/2025 8:59:43 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		5/29/2025 8:59:43 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		5/29/2025 8:59:43 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		5/29/2025 8:59:43 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		5/29/2025 8:59:43 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		5/29/2025 8:59:43 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB