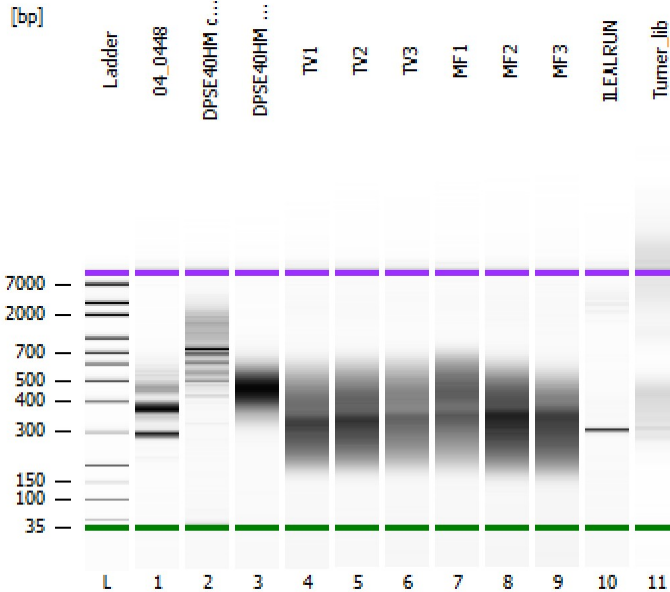


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
Modified: 11/16/2023 2:28:20 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

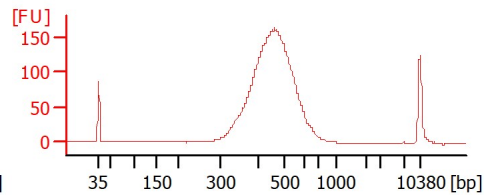
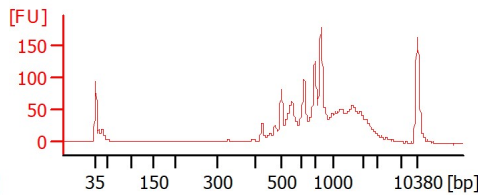
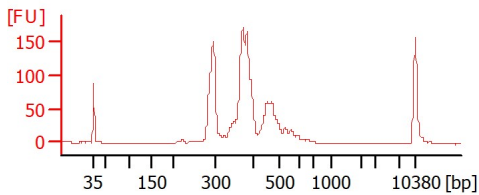
Chip Information:

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

04_0448

DPSE40HM cDNA

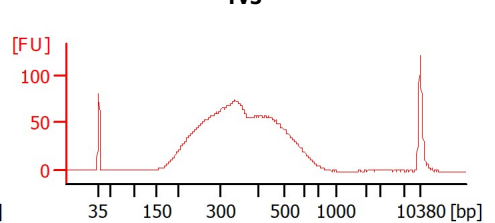
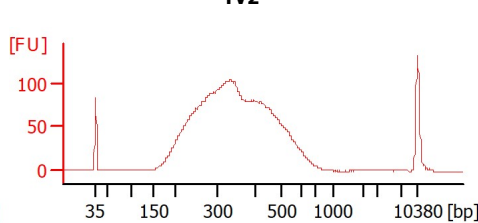
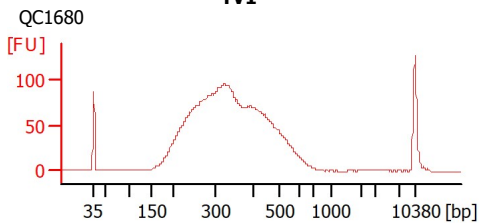
DPSE40HM Library



TV1

TV2

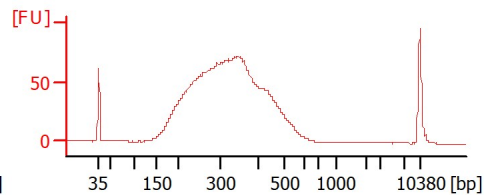
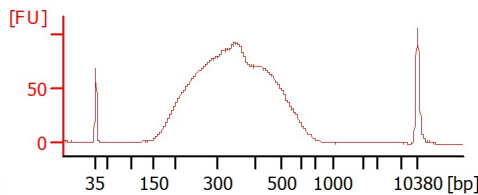
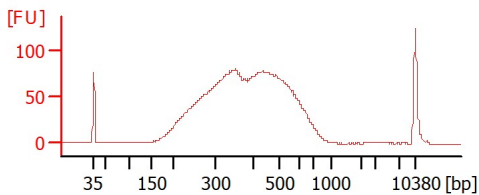
TV3



MF1

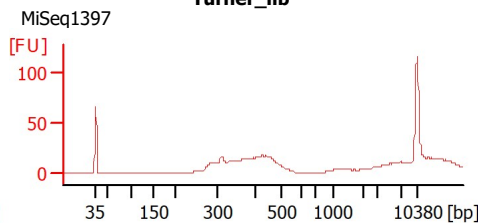
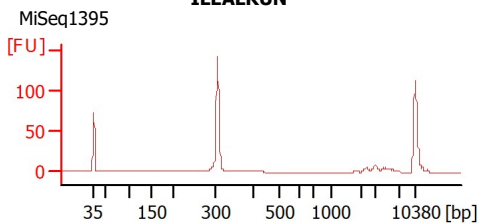
MF2

MF3



ILEALRUN

Turner_lib



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
04_0448		<input type="checkbox"/>		✓		
DPSE40HM cDNA		<input type="checkbox"/>		✓		
DPSE40HM Library		<input type="checkbox"/>		✓		
TV1	QC1680	<input type="checkbox"/>		✓		
TV2		<input type="checkbox"/>		✓		
TV3		<input type="checkbox"/>		✓		
MF1		<input type="checkbox"/>		✓		
MF2		<input type="checkbox"/>		✓		
MF3		<input type="checkbox"/>		✓		
ILEALRUN	MiSeq1395	<input type="checkbox"/>		✓		
Turner_lib	MiSeq1397	<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

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

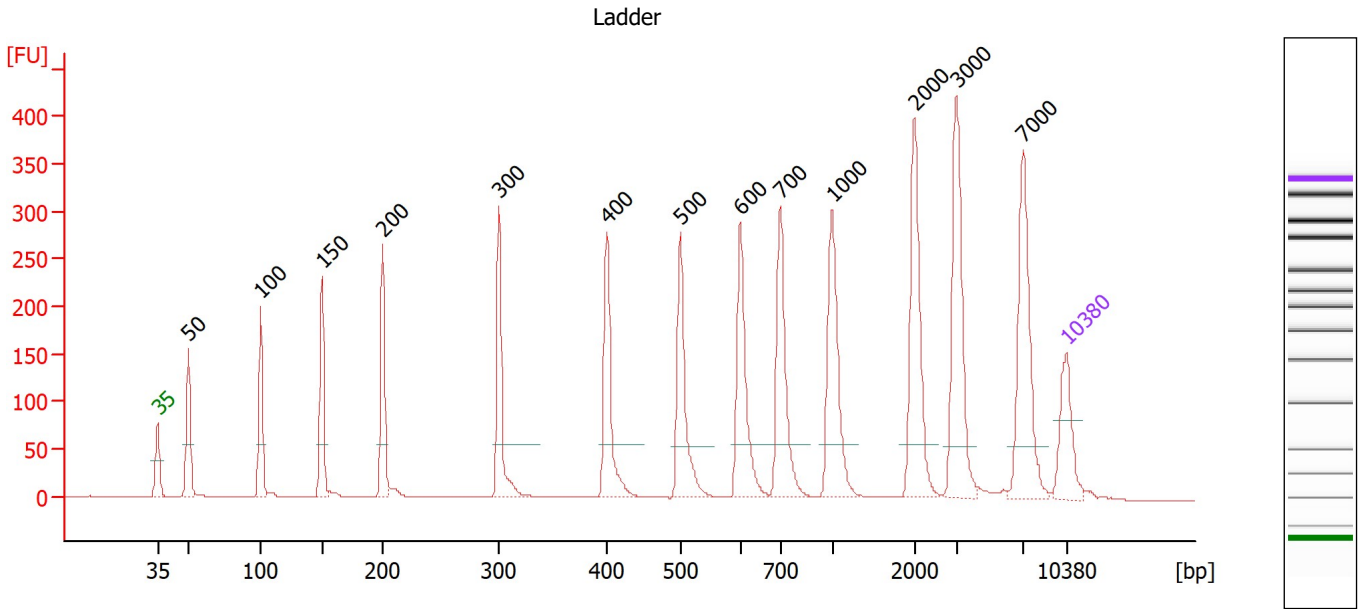
Ladder

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:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

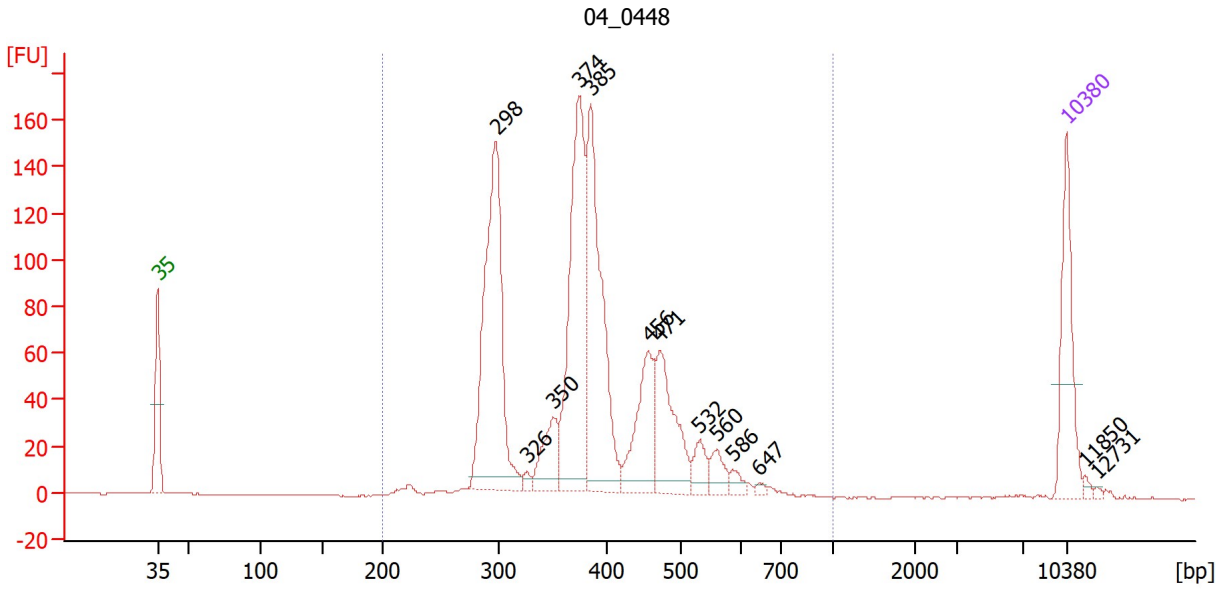
Peak table for Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 04_0448

Number of peaks found: 13 Corr. Area 1: 1,421.6
 Noise: 0.2

Peak table for sample 1 : 04_0448

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	298	316.48	1,610.7	
3	326	6.21	28.8	
4	350	52.38	226.5	
5	374	255.90	1,035.9	
6	385	246.32	968.5	
7	456	97.25	323.2	
8	471	107.10	344.4	
9	532	24.03	68.5	
10	560	20.95	56.7	
11	586	9.79	25.3	
12	647	3.85	9.0	
13	10,380	75.00	10.9	Upper Marker
14	11,850	0.00	0.0	
15	12,731	0.00	0.0	

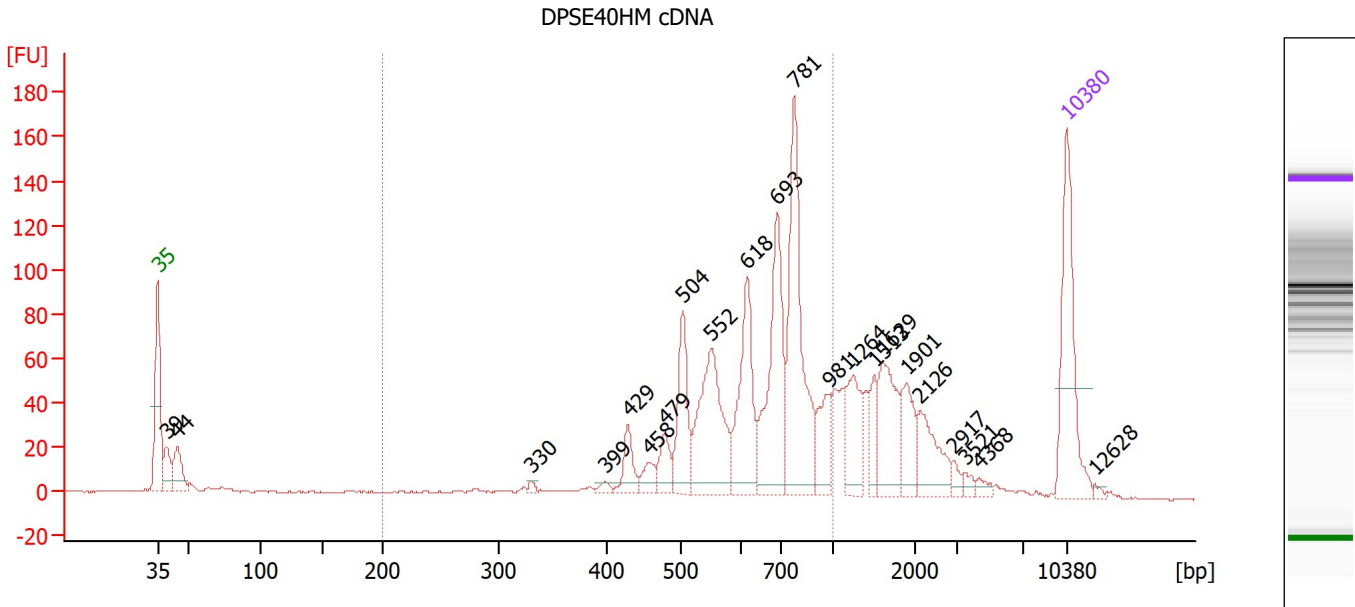
Region table for sample 1 : 04_0448

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	1,421.6	98	390	21.3	1,211.10	4,984.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : DPSE40HM cDNA

Number of peaks found: 22 Corr. Area 1: 970.2
 Noise: 0.3

Peak table for sample 2 : DPSE40HM cDNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	26.56	1,023.3	
3	44	35.40	1,212.0	
4	330	3.04	13.9	
5	399	4.22	16.0	
6	429	22.43	79.2	
7	458	13.03	43.1	
8	479	21.49	68.0	
9	504	58.12	174.9	
10	552	101.54	278.9	
11	618	80.54	197.6	
12	693	110.52	241.5	
13	781	138.60	268.8	
14	981	30.55	47.2	
15	1,264	37.03	44.4	
16	1,513	17.92	18.0	
17	1,629	51.00	47.4	
18	1,901	29.62	23.6	
19	2,126	35.55	25.3	
20	2,917	5.39	2.8	
21	3,521	4.39	1.9	
22	4,368	4.65	1.6	
23	10,380	75.00	10.9	Upper Marker
24	12,628	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electropherogram Summary Continued ...

... Region table for sample 2 :

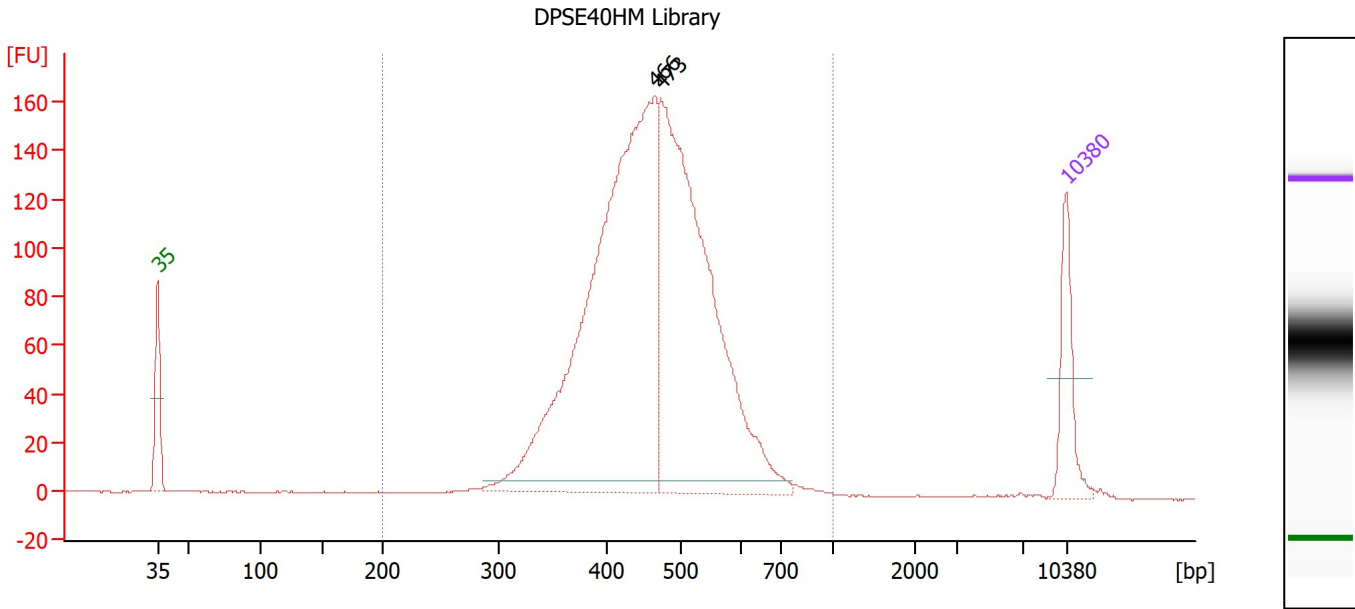
DPSE40HM cDNA

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	970.2	63	648	23.7	624.91	1,601.2	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : DPSE40HM Library

Number of peaks found: 2 Corr. Area 1: 2,130.9
 Noise: 0.2

Peak table for sample 3 : DPSE40HM Library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	466	1,105.55	3,595.2	
3	473	839.82	2,690.5	
4	10,380	75.00	10.9	Upper Marker

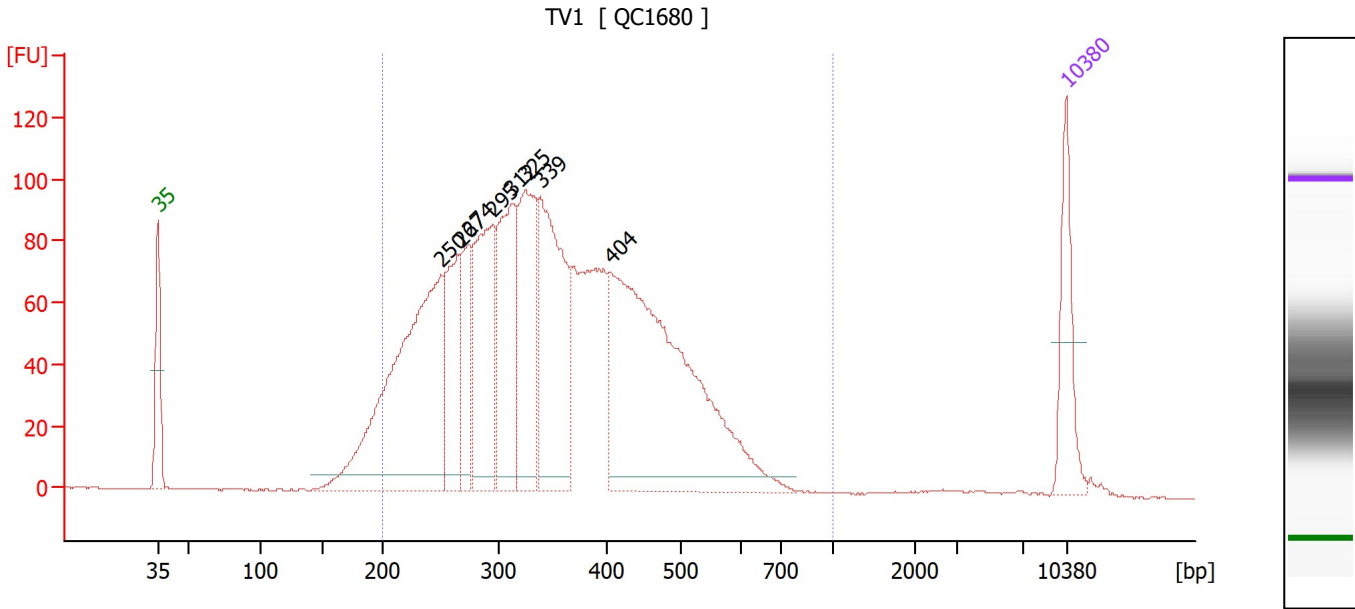
Region table for sample 3 : DPSE40HM Library

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	2,130.9	99	464	17.5	2,015.28	6,838.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : TV1

Number of peaks found: 8 Corr. Area 1: 2,482.9
 Noise: 0.2

Peak table for sample 4 : TV1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	250	565.42	3,428.9	
3	267	160.46	911.2	
4	274	107.77	595.5	
5	295	231.61	1,191.3	
6	312	225.15	1,094.0	
7	325	224.60	1,048.5	
8	339	295.39	1,322.0	
9	404	626.93	2,349.2	
10	10,380	75.00	10.9	Upper Marker

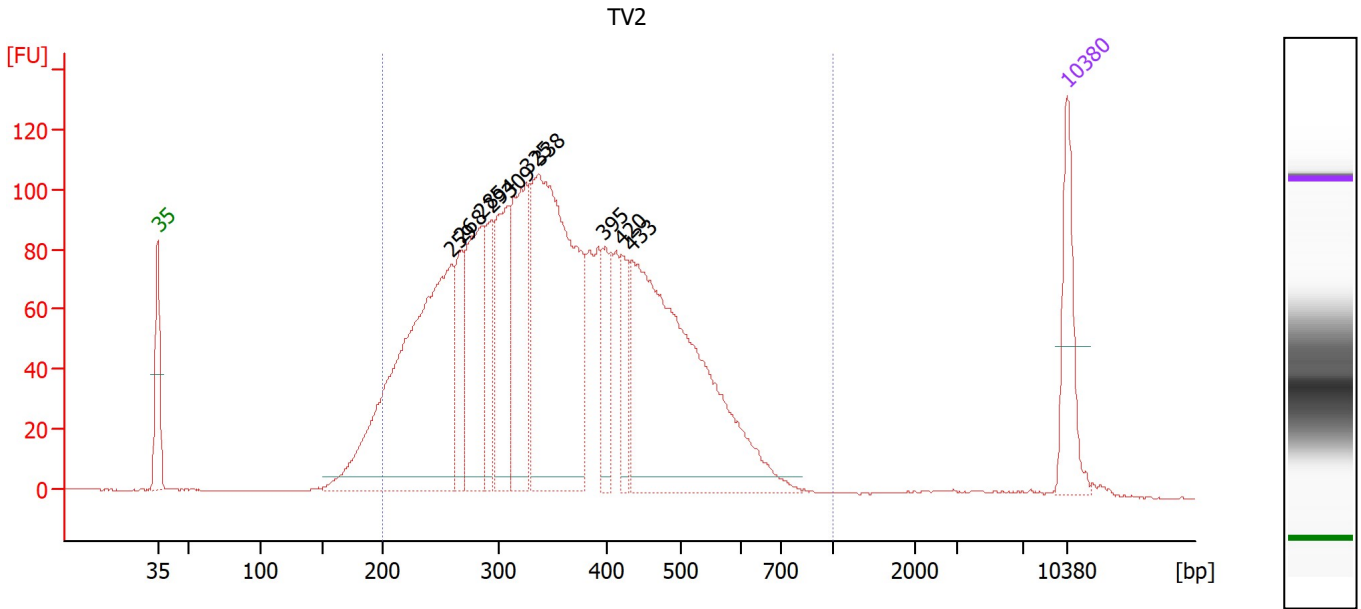
Region table for sample 4 : TV1

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	2,482.9	95	357	28.2	2,637.59	12,404.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : TV2

Number of peaks found: 10 Corr. Area 1: 2,736.8
 Noise: 0.2

Peak table for sample 5 : TV2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	259	615.39	3,601.1	
3	268	91.44	517.7	
4	285	197.13	1,048.3	
5	294	97.82	504.8	
6	309	168.23	825.8	
7	325	208.85	972.5	
8	338	538.58	2,415.7	
9	395	69.50	266.3	
10	420	61.03	220.3	
11	433	556.43	1,945.5	
12	10,380	75.00	10.9	Upper Marker

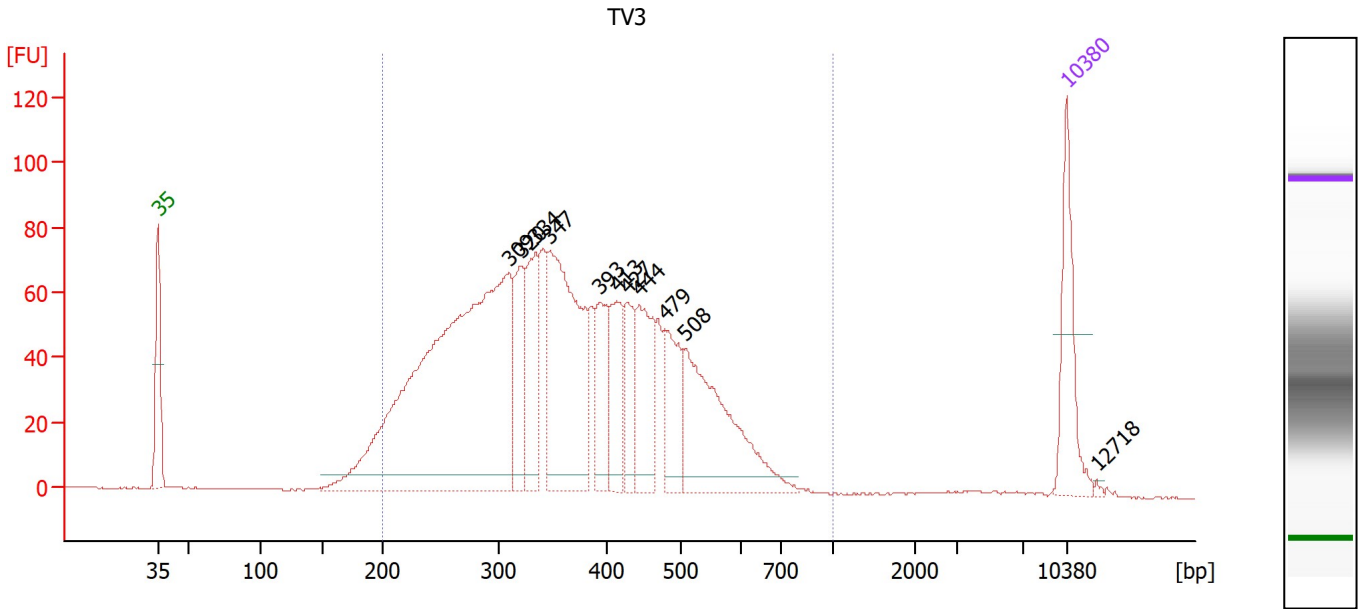
Region table for sample 5 : TV2

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	2,736.8	95	365	28.6	2,734.38	12,634.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : TV3

Number of peaks found: 11 Corr. Area 1: 1,952.5
 Noise: 0.2

Peak table for sample 6 : TV3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	309	810.13	3,973.0	
3	320	93.50	442.3	
4	334	111.43	505.2	
5	347	292.91	1,279.8	
6	393	74.64	287.4	
7	413	80.86	296.3	
8	427	60.44	214.3	
9	444	104.24	355.8	
10	479	83.00	262.5	
11	508	207.78	619.5	
12	10,380	75.00	10.9	Upper Marker
13	12,718	0.00	0.0	

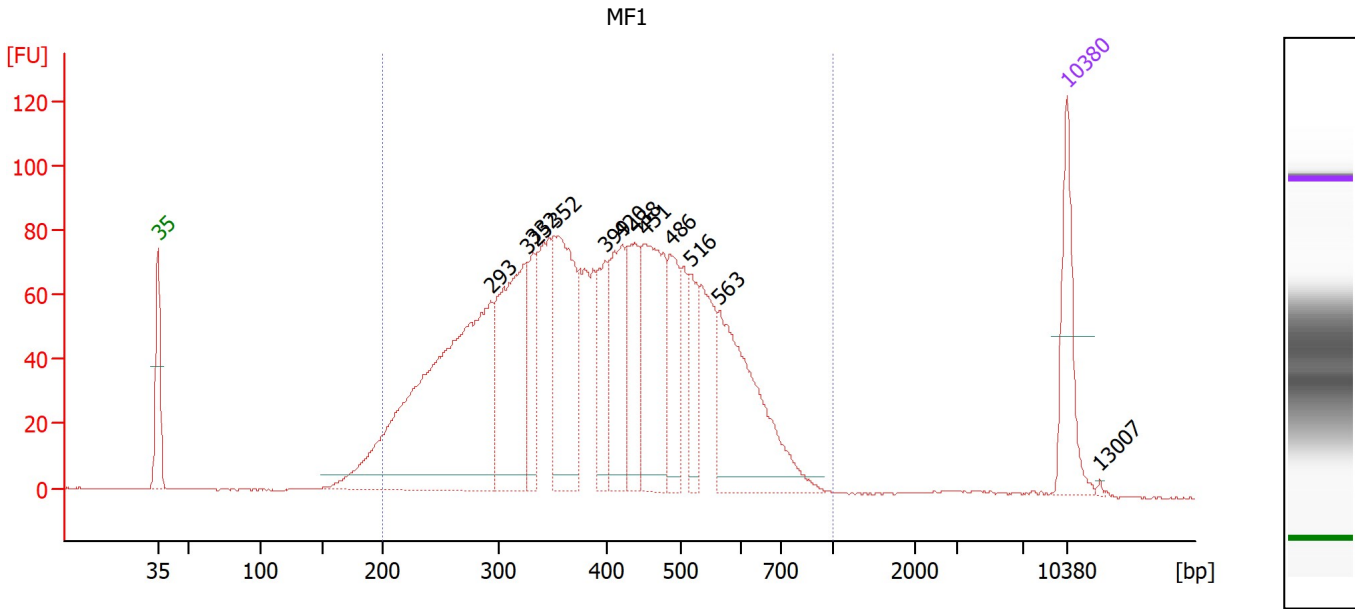
Region table for sample 6 : TV3

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	1,952.5	96	373	28.7	2,106.36	9,562.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : MF1

Number of peaks found: 12 Corr. Area 1: 2,315.7
 Noise: 0.2

Peak table for sample 7 : MF1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	293	605.80	3,129.5	
3	325	245.11	1,141.8	
4	332	74.88	341.4	
5	352	215.41	927.2	
6	399	85.93	326.2	
7	420	124.81	450.2	
8	438	96.01	332.3	
9	451	191.95	645.2	
10	486	82.80	258.1	
11	516	57.15	167.7	
12	563	220.66	593.5	
13	10,380	75.00	10.9	Upper Marker
14	13,007	0.00	0.0	

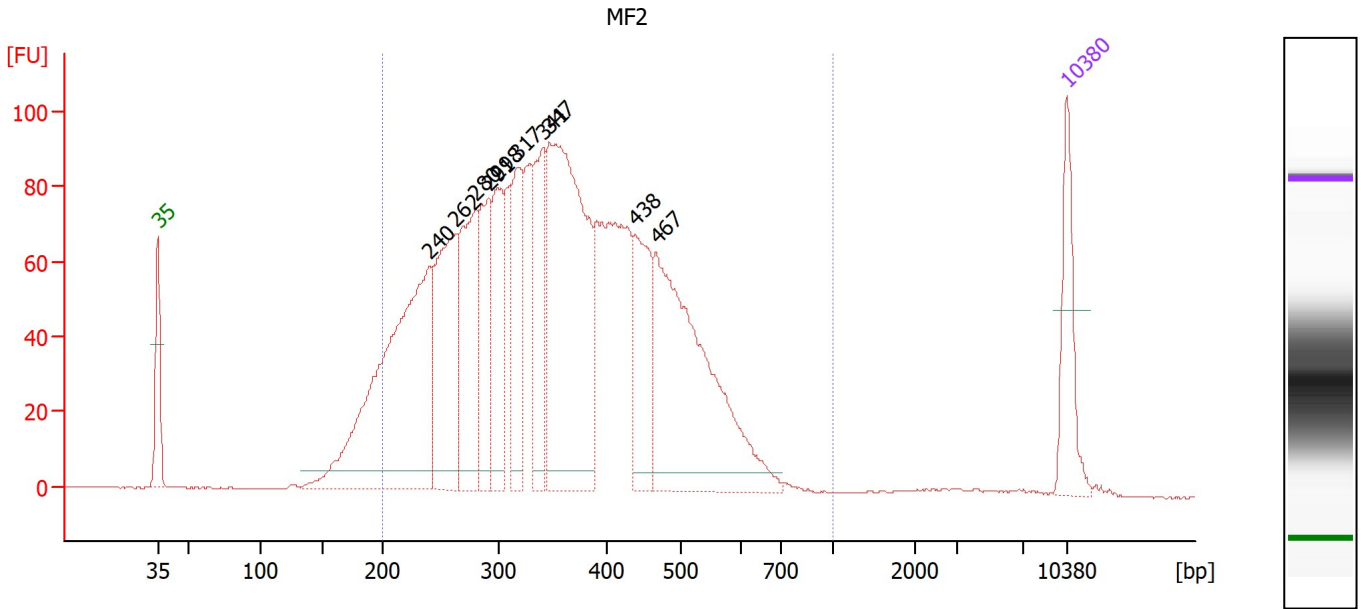
Region table for sample 7 : MF1

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	2,315.7	97	407	30.0	2,457.62	10,405.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MF2

Number of peaks found: 10 Corr. Area 1: 2,407.7
 Noise: 0.2

Peak table for sample 8 : MF2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	240	565.60	3,575.2	
3	262	250.22	1,444.6	
4	280	214.62	1,162.3	
5	291	137.92	717.7	
6	298	141.31	717.7	
7	317	142.92	682.1	
8	341	142.81	634.1	
9	347	509.06	2,222.7	
10	438	139.61	482.9	
11	467	420.74	1,364.6	
12	10,380	75.00	10.9	Upper Marker

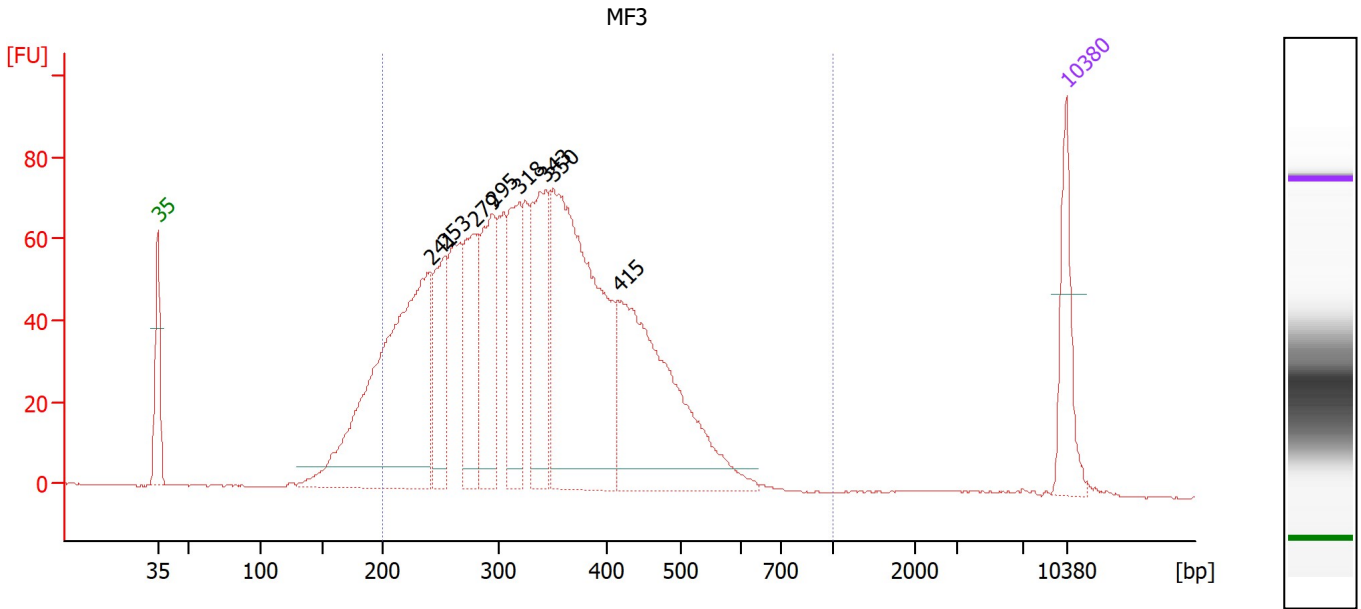
Region table for sample 8 : MF2

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	2,407.7	94	363	28.0	3,009.55	13,960.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MF3

Number of peaks found: 8 Corr. Area 1: 1,791.0
 Noise: 0.1

Peak table for sample 9 : MF3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	241	618.54	3,893.3	
3	253	141.58	846.7	
4	279	163.58	889.4	
5	295	188.75	969.7	
6	318	159.42	758.4	
7	343	208.26	919.8	
8	350	575.33	2,489.5	
9	415	407.37	1,487.0	
10	10,380	75.00	10.9	Upper Marker

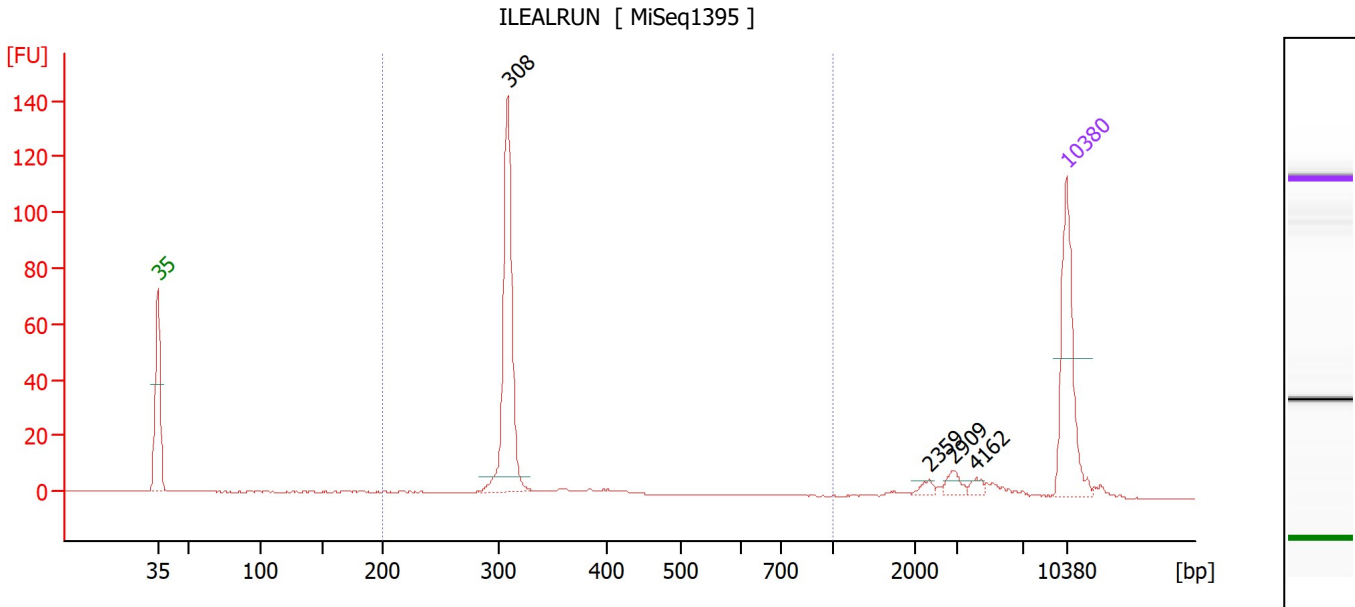
Region table for sample 9 : MF3

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	1,791.0	92	340	25.9	2,647.60	12,875.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : ILEALRUN

Number of peaks found: 4 Corr. Area 1: 184.0
 Noise: 0.1

Peak table for sample 10 : ILEALRUN

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	308	177.96	874.5	
3	2,359	4.89	3.1	
4	2,909	8.41	4.4	
5	4,162	5.20	1.9	
6	10,380	75.00	10.9	Upper Marker

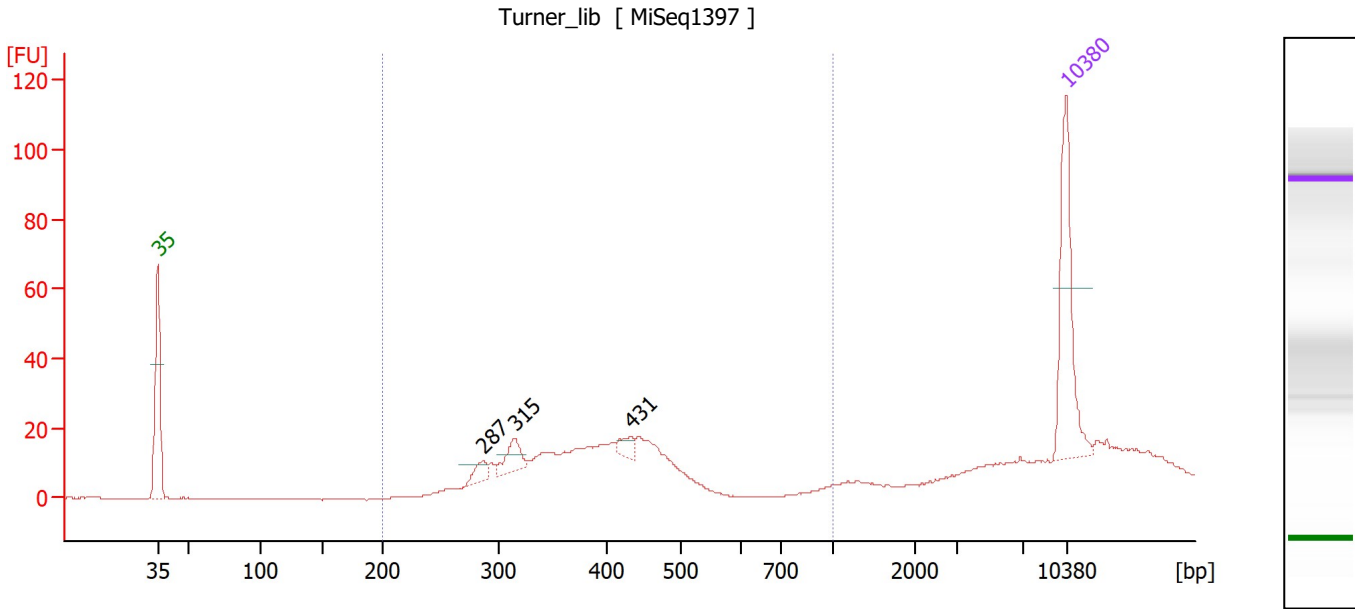
Region table for sample 10 : ILEALRUN

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	184.0	73	322	19.6	215.54	1,039.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad

Created: 11/16/2023 1:47:47 PM
 Modified: 11/16/2023 2:28:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Turner_lib

Number of peaks found: 3 Corr. Area 1: 309.5
 Noise: 0.2

Peak table for sample 11 : Turner_lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	287	13.40	70.9	
3	315	23.32	112.2	
4	431	10.83	38.0	
5	10,380	75.00	10.9	Upper Marker

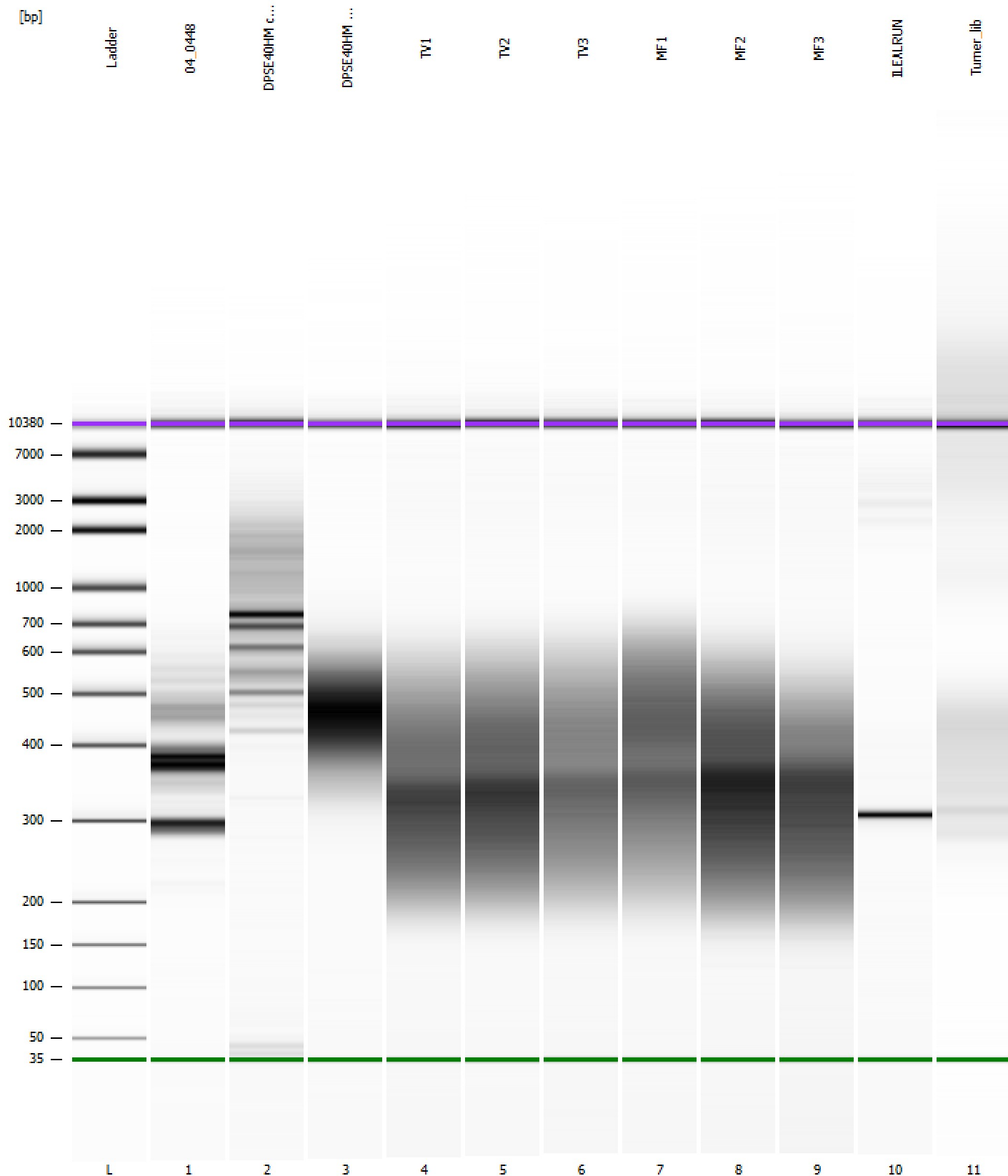
Region table for sample 11 : Turner_lib

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	309.5	60	398	26.8	378.69	1,546.4	Blue

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Gel Image

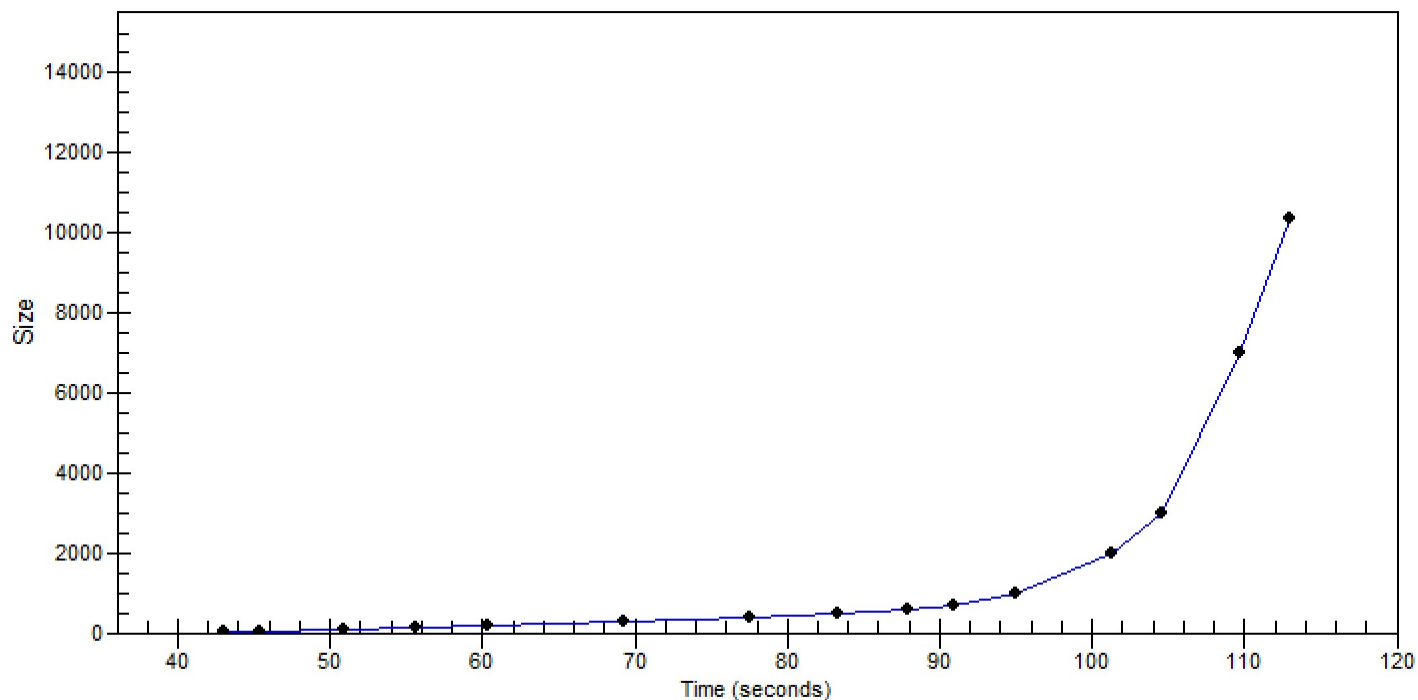


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Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
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 Modified: 11/16/2023 2:28:20 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		11/16/2023 2:28:16 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-11-16\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-11-16_002.xad)		Instrument	Run		11/16/2023 1:47:52 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/16/2023 1:47:52 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/16/2023 1:47:52 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/16/2023 1:47:52 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/16/2023 1:47:52 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/16/2023 1:47:52 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/16/2023 1:47:52 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB