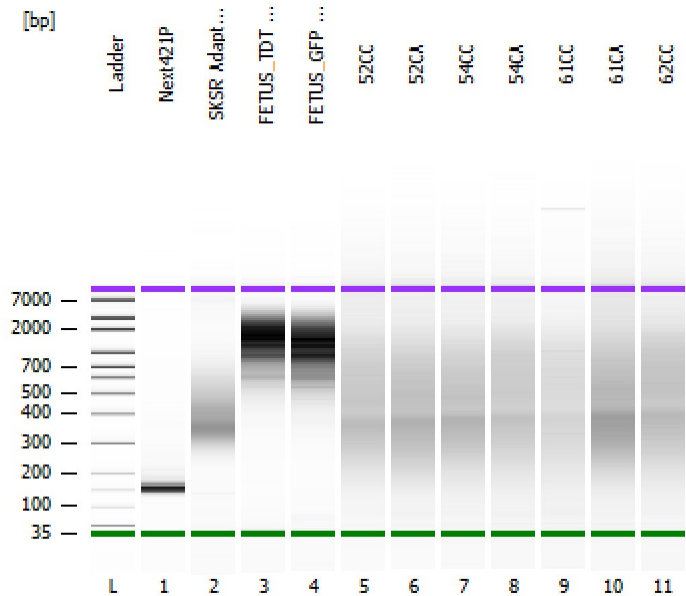


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
Modified: 12/8/2023 9:37:31 AM

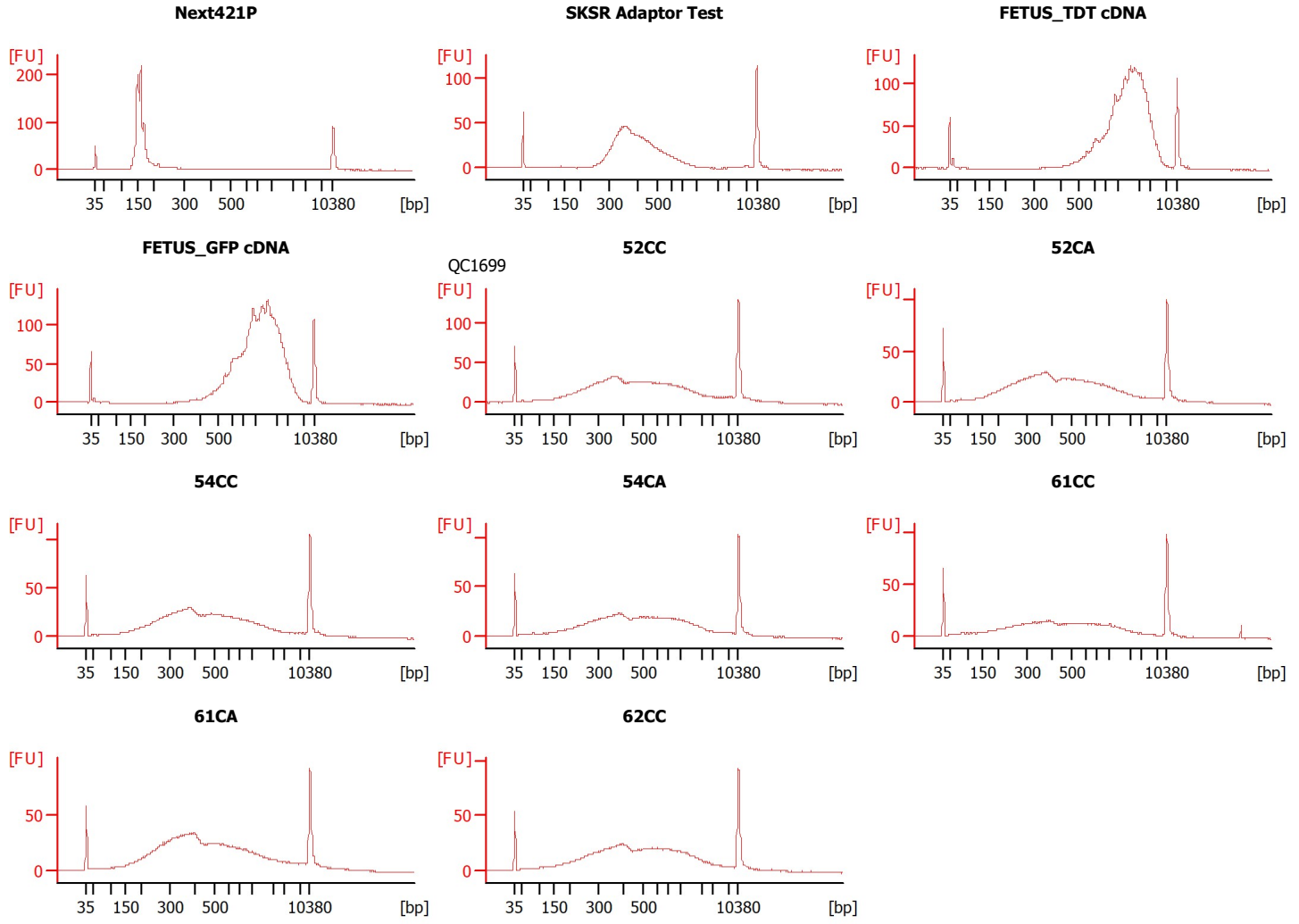
Electrophoresis File Run Summary



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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Next421P		<input type="checkbox"/>		✓		
SKSR Adaptor Test		<input type="checkbox"/>		✓		
FETUS_TDT cDNA		<input type="checkbox"/>		✓		
FETUS_GFP cDNA		<input type="checkbox"/>		✓		
52CC	QC1699	<input type="checkbox"/>		✓		
52CA		<input type="checkbox"/>		✓		
54CC		<input type="checkbox"/>		✓		
54CA		<input type="checkbox"/>		✓		
61CC		<input type="checkbox"/>		✓		
61CA		<input type="checkbox"/>		✓		
62CC		<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_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 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

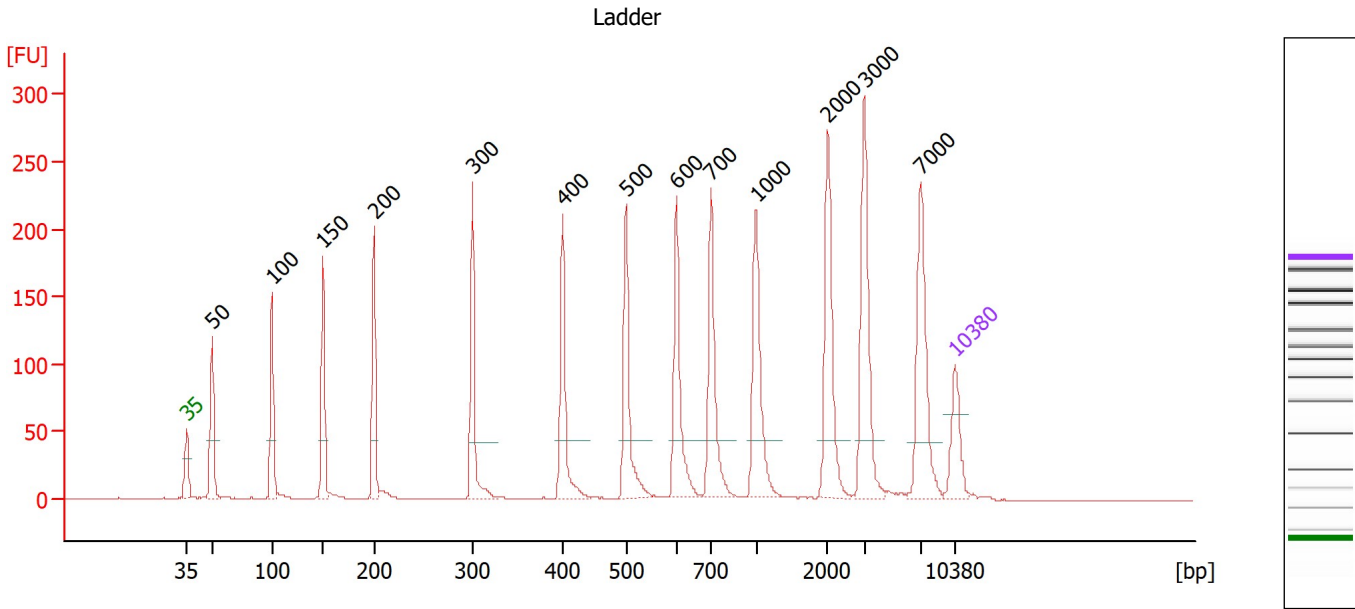
Ladder

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:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

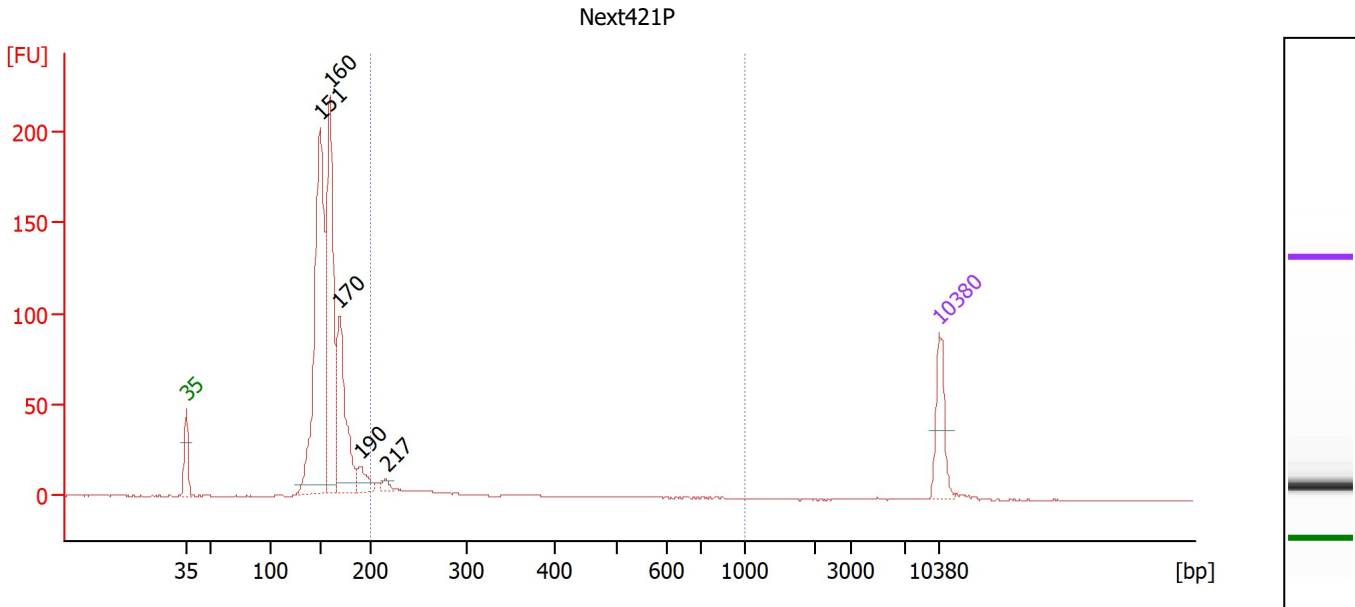
Peak table for Ladder

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_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Next421P

Number of peaks found: 5 Corr. Area 1: 88.0
 Noise: 0.2

Peak table for sample 1 : Next421P

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	151	735.98	7,403.9	
3	160	523.63	4,953.0	
4	170	302.62	2,701.1	
5	190	44.43	353.4	
6	217	13.09	91.5	
7	10,380	75.00	10.9	Upper Marker

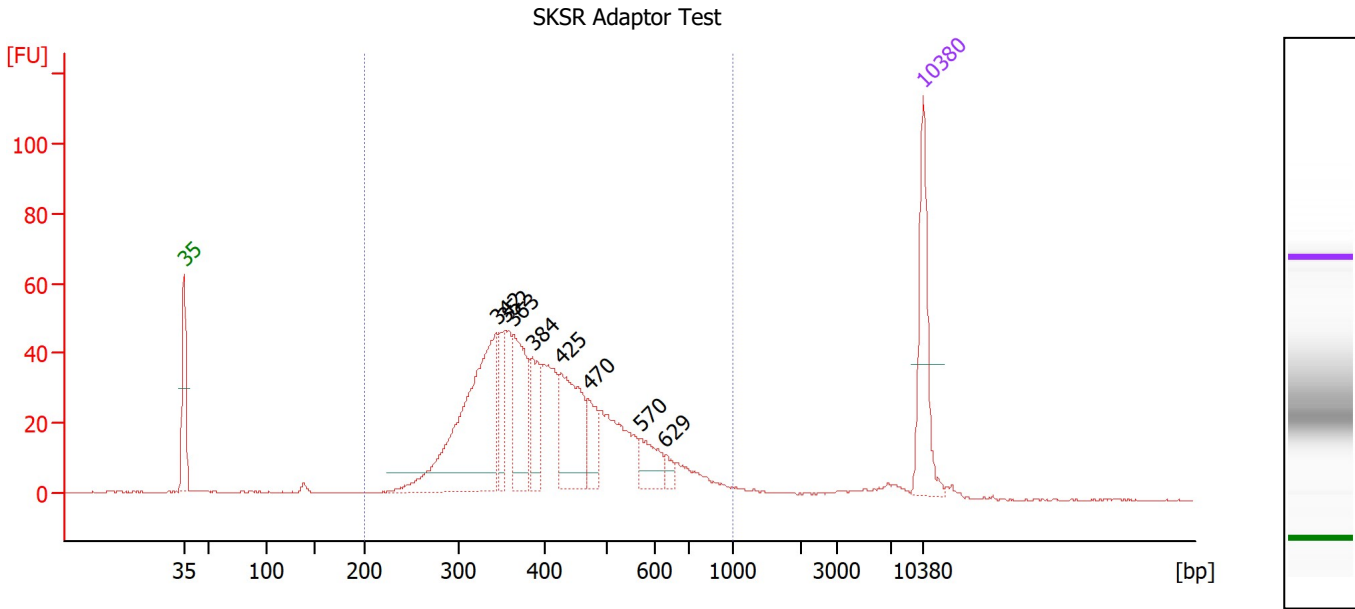
Region table for sample 1 : Next421P

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	88.0	9	316	44.9	142.41	807.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : SKSR Adaptor Test

Number of peaks found: 8 Corr. Area 1: 890.8
 Noise: 0.2

Peak table for sample 2 : SKSR Adaptor Test

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	342	274.15	1,212.9	
3	352	47.41	203.9	
4	363	97.01	405.2	
5	384	57.85	228.1	
6	425	110.70	394.8	
7	470	36.61	118.0	
8	570	33.36	88.7	
9	629	9.32	22.4	
10	10,380	75.00	10.9	Upper Marker

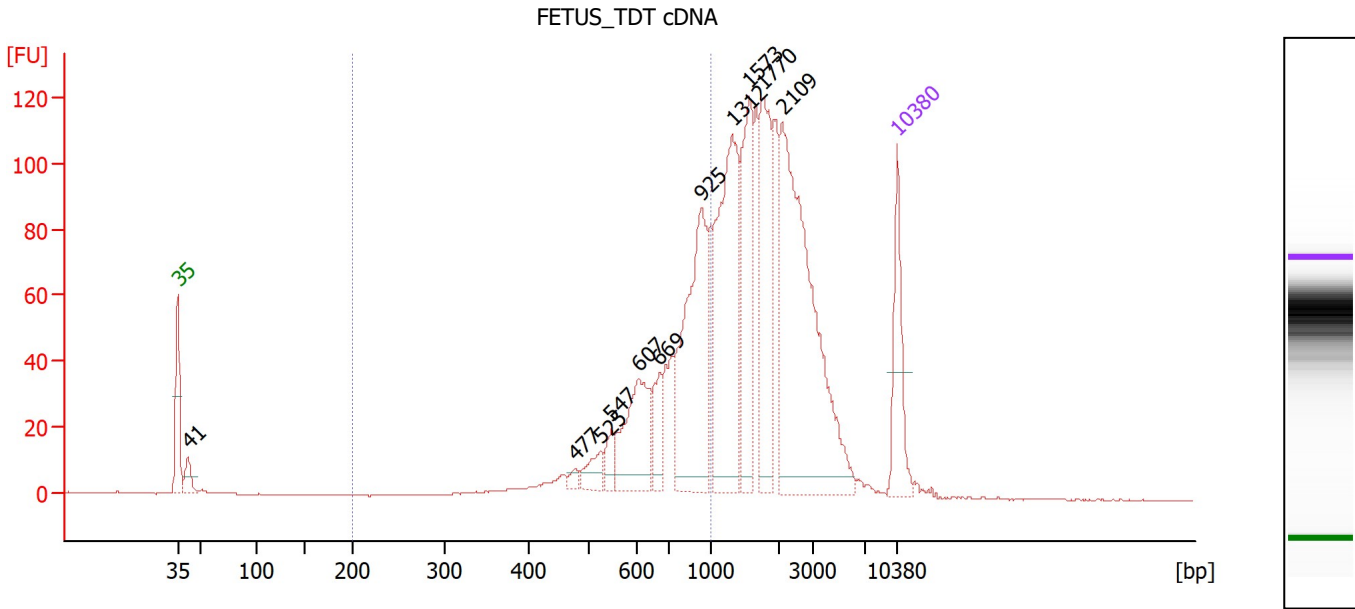
Region table for sample 2 : SKSR Adaptor Test

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	890.8	94	422	27.9	1,020.61	3,998.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : FETUS_TDT cDNA

Number of peaks found: 11 Corr. Area 1: 552.1
 Noise: 0.1

Peak table for sample 3 : FETUS_TDT cDNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	34.62	1,268.8	
3	477	9.89	31.4	
4	525	30.11	86.9	
5	547	25.12	69.5	
6	607	126.95	317.1	
7	669	45.41	102.8	
8	925	253.36	414.8	
9	1,312	267.30	308.7	
10	1,573	155.91	150.2	
11	1,770	143.88	123.1	
12	2,109	386.58	277.7	
13	10,380	75.00	10.9	Upper Marker

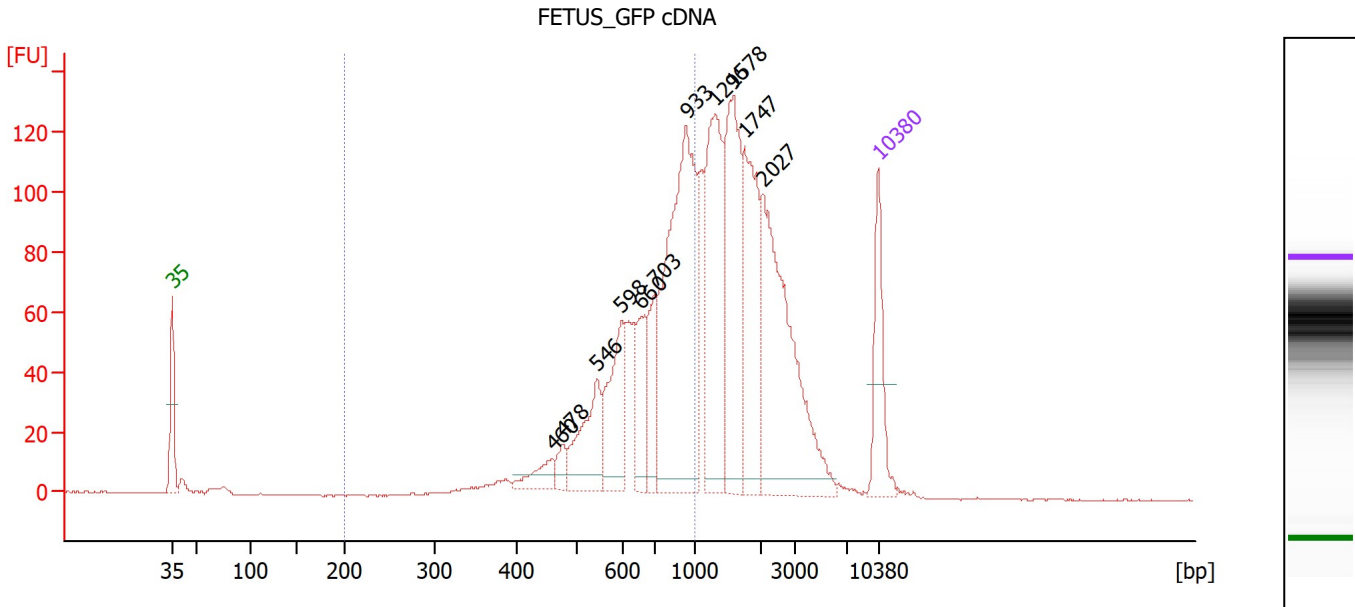
Region table for sample 3 : FETUS_TDT cDNA

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	552.1	32	730	23.1	668.36	1,504.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : FETUS_GFP cDNA

Number of peaks found: 11 Corr. Area 1: 899.7
 Noise: 0.2

Peak table for sample 4 : FETUS_GFP cDNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	460	34.17	112.6	
3	478	21.98	69.7	
4	546	101.34	281.4	
5	598	118.97	301.2	
6	660	78.37	180.0	
7	703	74.13	159.7	
8	933	403.96	656.1	
9	1,296	213.56	249.7	
10	1,578	202.49	194.4	
11	1,747	162.07	140.5	
12	2,027	282.09	210.9	
13	10,380	75.00	10.9	Upper Marker

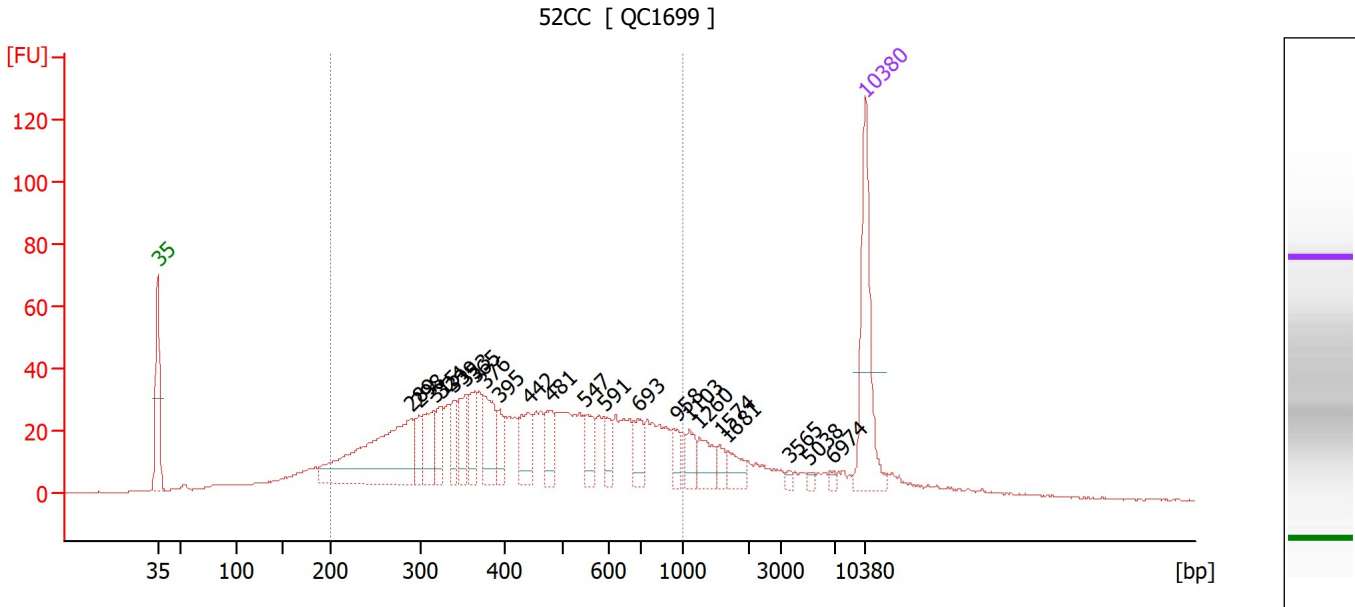
Region table for sample 4 : FETUS_GFP cDNA

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	899.7	44	711	23.6	945.69	2,191.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 52CC

Number of peaks found: 22 Corr. Area 1: 1,064.3
 Noise: 0.2

Peak table for sample 5 : 52CC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	289	173.88	910.5	
3	298	23.39	118.8	
4	315	37.65	180.8	
5	324	26.94	126.0	
6	339	24.71	110.6	
7	353	34.64	148.7	
8	365	25.69	106.7	
9	376	43.60	175.6	
10	395	21.71	83.4	
11	442	34.11	116.9	
12	481	26.38	83.2	
13	547	24.38	67.5	
14	591	17.73	45.5	
15	693	21.53	47.1	
16	958	10.37	16.4	
17	1,103	15.04	20.7	
18	1,260	20.62	24.8	
19	1,574	7.88	7.6	
20	1,681	13.56	12.2	
21	3,565	2.80	1.2	
22	5,038	2.43	0.7	
23	6,974	2.56	0.6	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary Continued ...

... Region table for sample 5 :

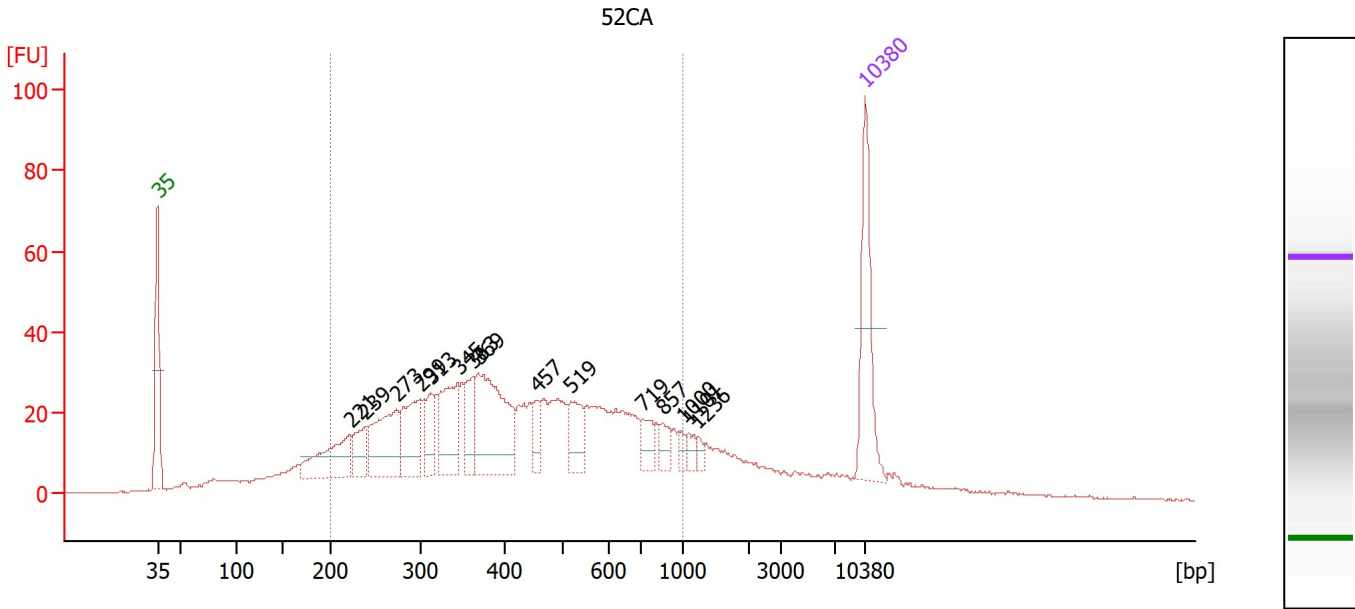
52CC

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	1,064.3	75	461	39.6	997.76	4,022.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 52CA

Number of peaks found: 15 Corr. Area 1: 954.2
 Noise: 0.3

Peak table for sample 6 : 52CA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	221	80.14	548.5	
3	239	35.50	225.3	
4	273	94.08	521.3	
5	299	68.42	346.9	
6	313	34.73	168.2	
7	345	78.34	344.3	
8	363	39.30	164.1	
9	369	137.75	565.6	
10	457	18.94	62.8	
11	519	37.88	110.6	
12	719	20.48	43.2	
13	857	15.48	27.4	
14	1,000	7.08	10.7	
15	1,101	8.25	11.4	
16	1,236	5.46	6.7	
17	10,380	75.00	10.9	Upper Marker

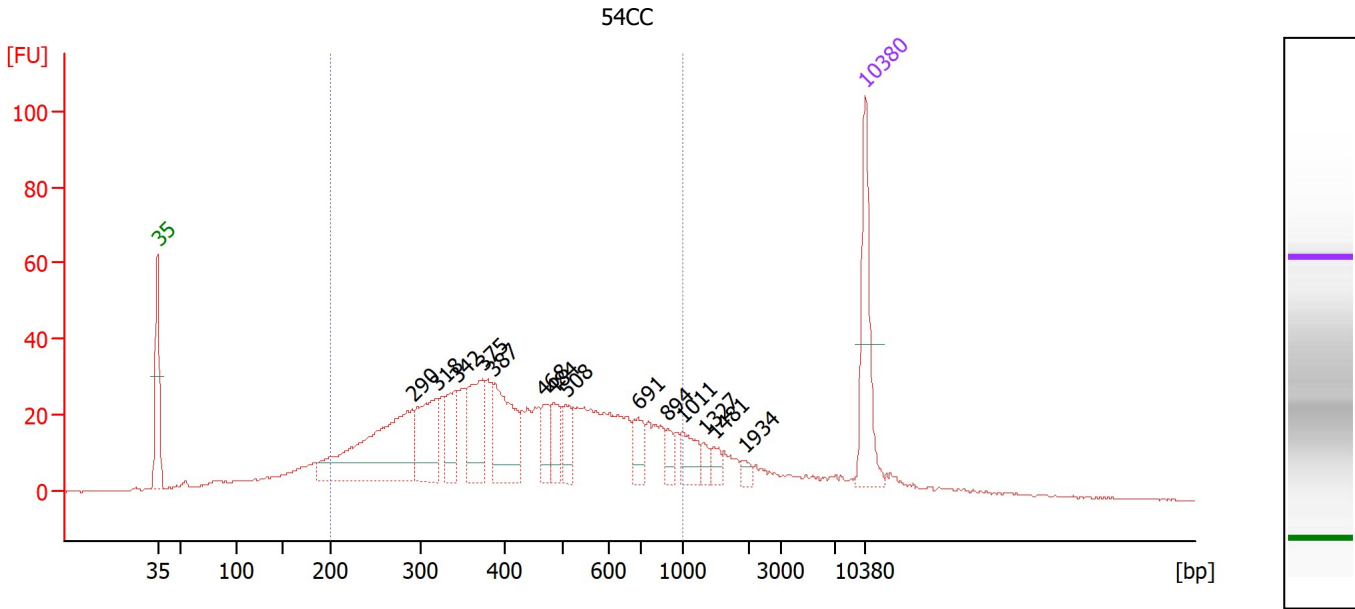
Region table for sample 6 : 52CA

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	954.2	75	448	39.8	1,214.28	5,029.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 54CC

Number of peaks found: 14 Corr. Area 1: 935.1
 Noise: 0.2

Peak table for sample 7 : 54CC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	290	212.17	1,107.6	
3	318	88.26	420.5	
4	342	47.54	210.7	
5	375	79.54	321.6	
6	387	92.52	362.3	
7	468	28.11	91.1	
8	484	29.92	93.6	
9	508	30.18	90.0	
10	691	27.85	61.0	
11	894	14.86	25.2	
12	1,011	26.64	39.9	
13	1,327	9.27	10.6	
14	1,481	10.15	10.4	
15	1,934	6.34	5.0	
16	10,380	75.00	10.9	Upper Marker

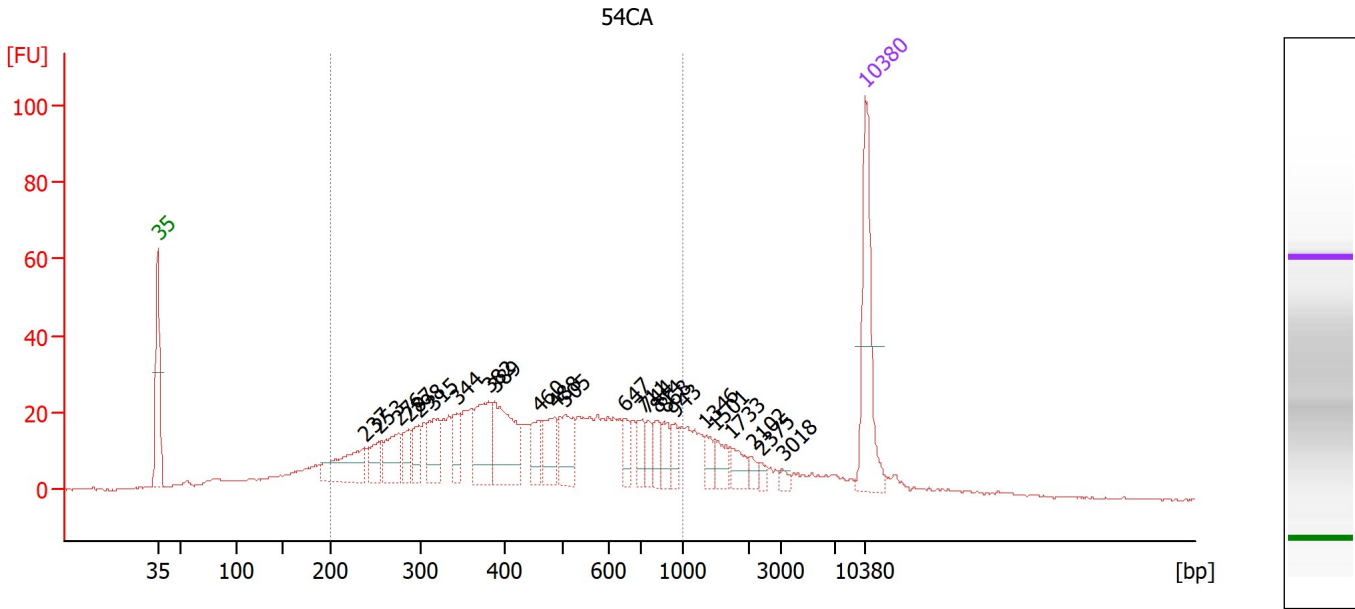
Region table for sample 7 : 54CC

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	935.1	76	453	39.3	1,180.52	4,807.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 54CA

Number of peaks found: 24 Corr. Area 1: 773.0
 Noise: 0.2

Peak table for sample 8 : 54CA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	237	59.04	377.2	
3	253	25.67	153.8	
4	276	40.84	224.0	
5	287	22.57	119.1	
6	298	23.98	122.0	
7	315	38.72	186.0	
8	344	21.65	95.5	
9	382	58.02	230.1	
10	389	72.42	282.1	
11	460	24.27	79.9	
12	488	34.35	106.7	
13	505	39.09	117.2	
14	647	14.94	35.0	
15	711	15.91	33.9	
16	744	14.38	29.3	
17	814	14.80	27.5	
18	868	15.96	27.8	
19	943	12.21	19.6	
20	1,346	12.40	14.0	
21	1,501	14.59	14.7	
22	1,733	14.48	12.7	
23	2,102	6.20	4.5	
24	2,375	4.21	2.7	
25	3,018	4.03	2.0	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary Continued ...

... Region table for sample 8 :

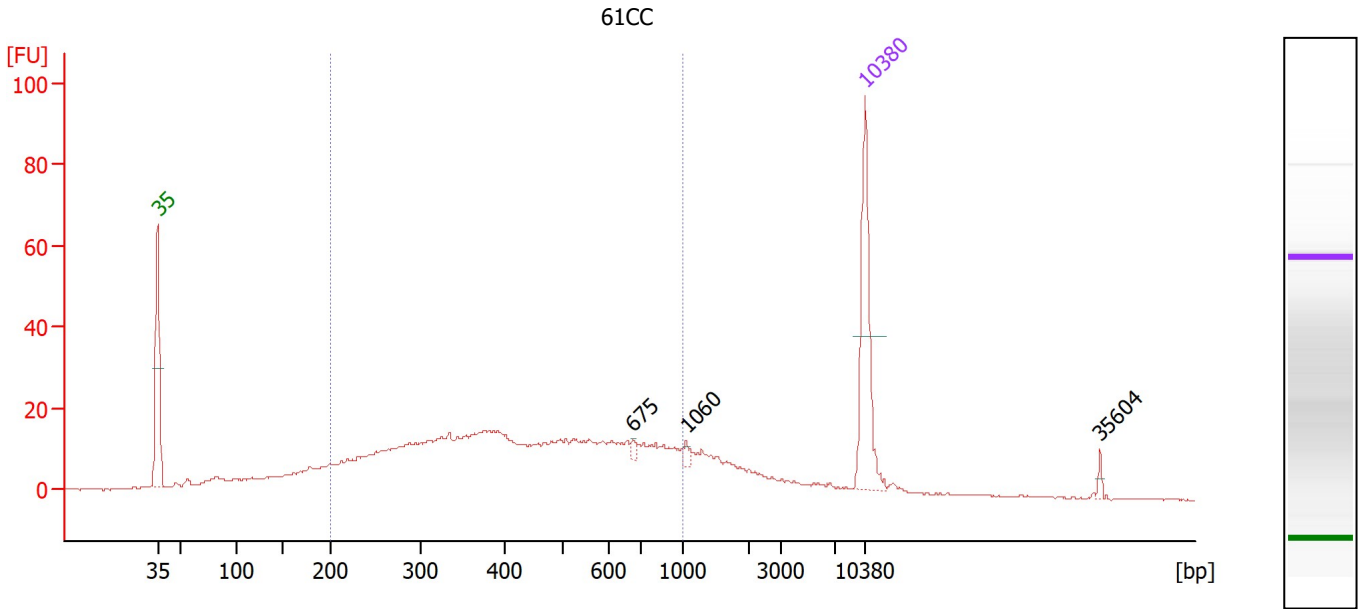
54CA

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	773.0	73	471	39.8	924.56	3,676.1	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 61CC

Number of peaks found: 3 Corr. Area 1: 521.3
 Noise: 0.1

Peak table for sample 9 : 61CC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	675	4.31	9.7	
3	1,060	4.46	6.4	
4	10,380	75.00	10.9	Upper Marker
5	35,604	0.00	0.0	

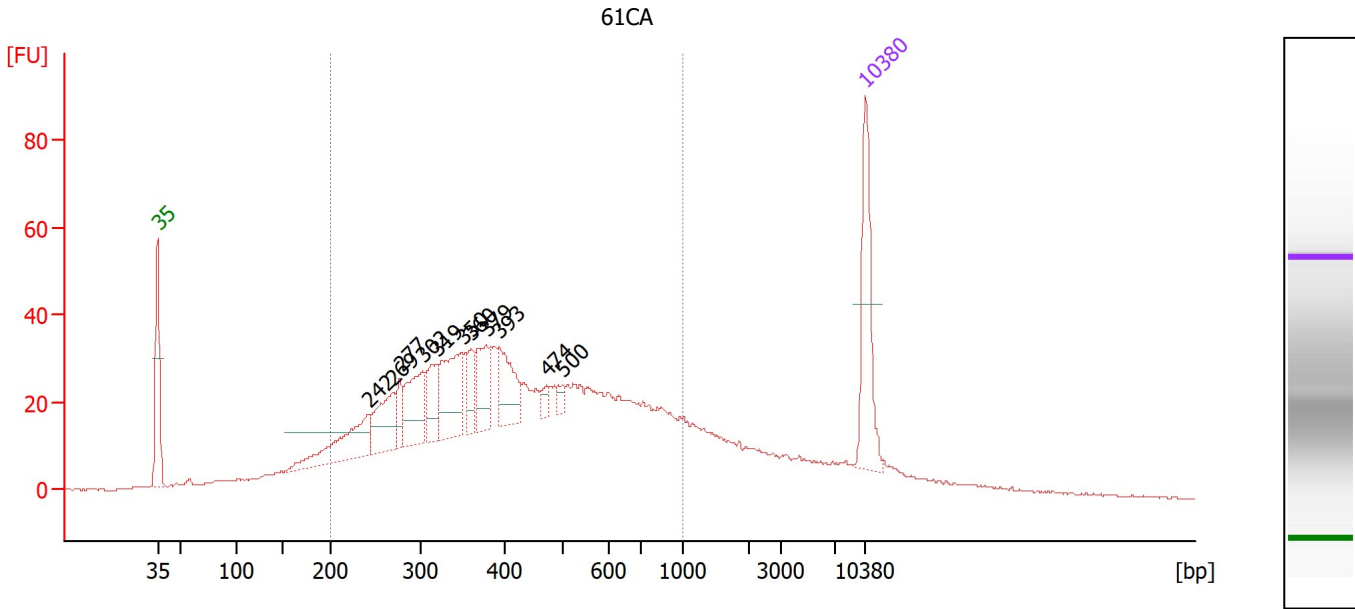
Region table for sample 9 : 61CC

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	521.3	72	462	40.5	723.36	2,941.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 61CA

Number of peaks found: 11 Corr. Area 1: 1,039.1
 Noise: 0.2

Peak table for sample 10 : 61CA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	242	89.08	557.8	
3	269	65.49	368.4	
4	277	24.51	134.1	
5	302	72.99	366.3	
6	319	41.26	195.8	
7	350	83.08	360.0	
8	360	28.78	121.1	
9	379	49.33	197.4	
10	393	56.17	216.4	
11	474	8.96	28.6	
12	500	7.76	23.5	
13	10,380	75.00	10.9	Upper Marker

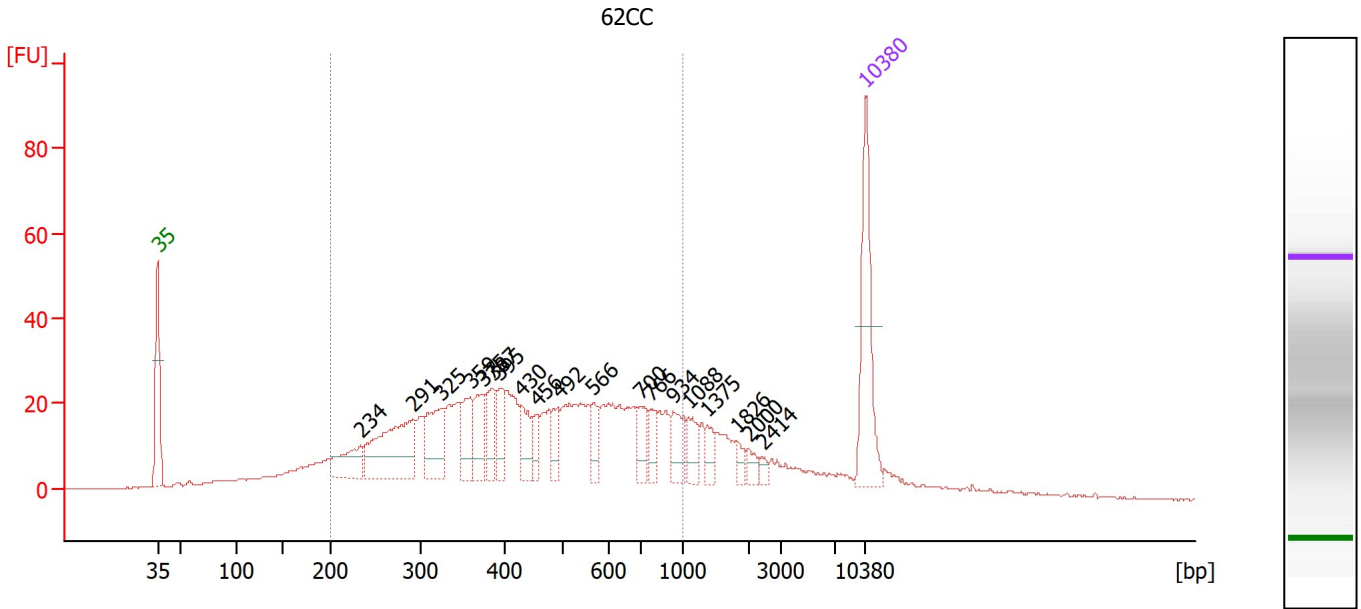
Region table for sample 10 : 61CA

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	1,039.1	75	446	39.5	1,549.16	6,387.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
 Modified: 12/8/2023 9:37:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 62CC

Number of peaks found: 19 Corr. Area 1: 783.9
 Noise: 0.2

Peak table for sample 11 : 62CC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	234	44.14	286.2	
3	291	115.52	601.5	
4	325	59.72	278.5	
5	359	39.36	166.2	
6	375	36.14	146.1	
7	387	33.48	131.2	
8	395	27.57	105.8	
9	430	29.09	102.4	
10	456	17.58	58.4	
11	492	20.24	62.3	
12	566	19.50	52.2	
13	700	22.23	48.1	
14	766	18.30	36.2	
15	934	27.86	45.2	
16	1,088	19.92	27.7	
17	1,375	12.85	14.2	
18	1,826	6.93	5.7	
19	2,000	8.45	6.4	
20	2,414	5.05	3.2	
21	10,380	75.00	10.9	Upper Marker

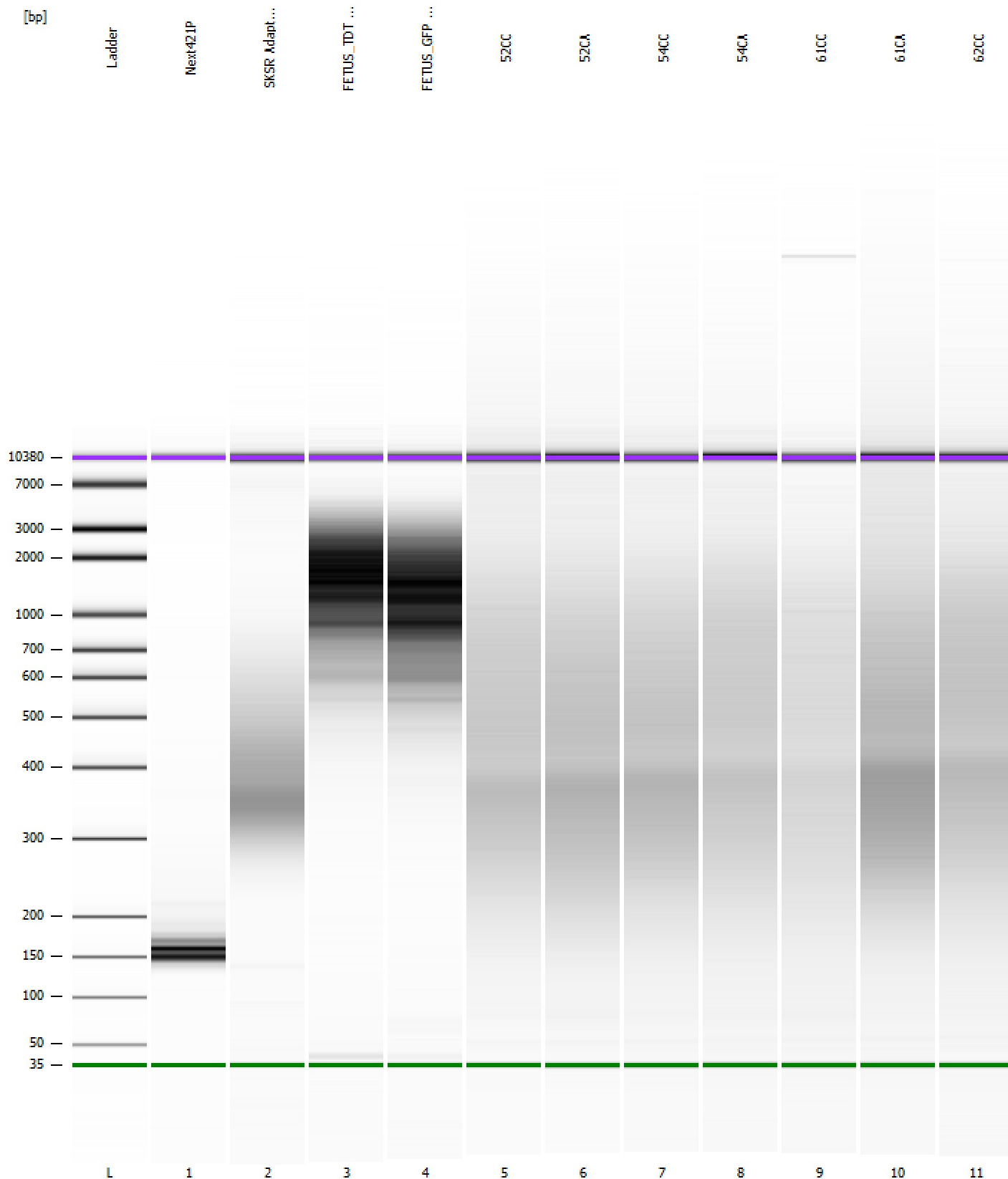
Region table for sample 11 : 62CC

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	783.9	74	473	39.5	1,044.16	4,120.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
Modified: 12/8/2023 9:37:31 AM

Gel Image

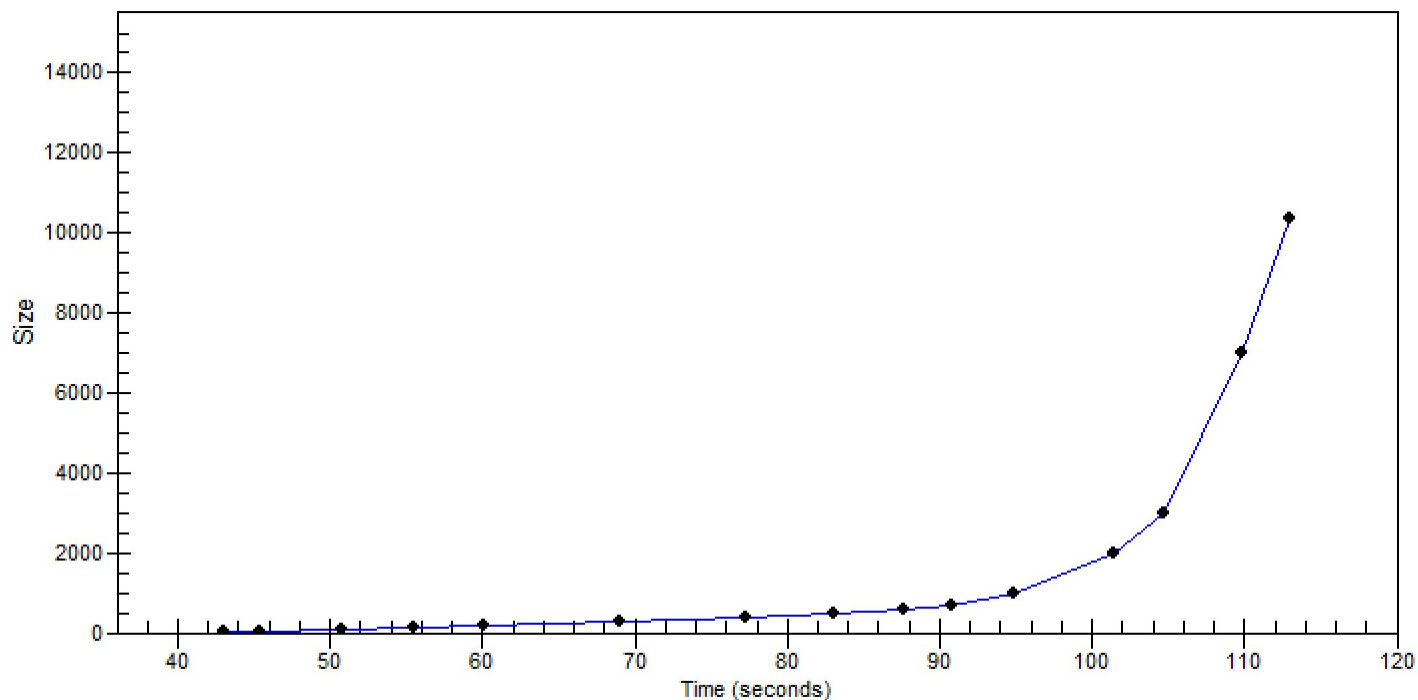


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad

Created: 12/8/2023 8:56:06 AM
Modified: 12/8/2023 9:37:31 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay Created: 12/8/2023 8:56:06 AM
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad Modified: 12/8/2023 9:37:31 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		12/8/2023 9:37:27 AM	(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\2023-12-08\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-12-08_001.xad)		Instrument	Run		12/8/2023 8:56:13 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/8/2023 8:56:13 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/8/2023 8:56:13 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/8/2023 8:56:13 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/8/2023 8:56:13 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/8/2023 8:56:13 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/8/2023 8:56:12 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB