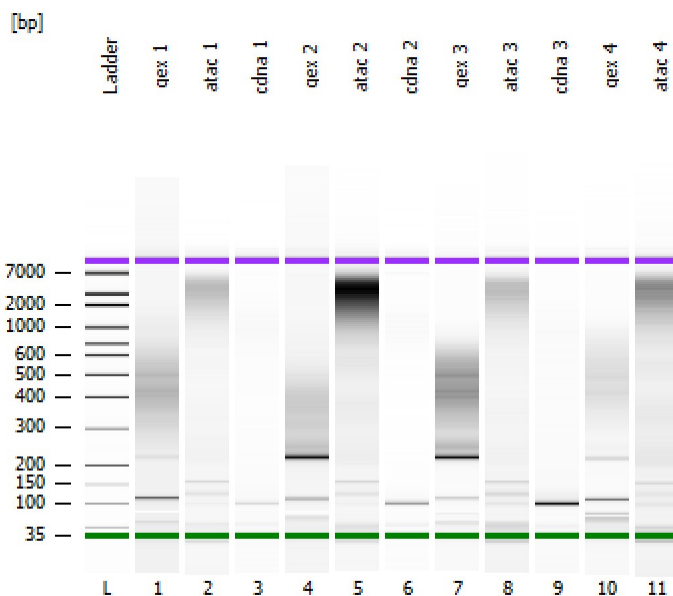


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
Modified: 28/10/2021 11:46:18

Electrophoresis File Run Summary



Instrument Information:

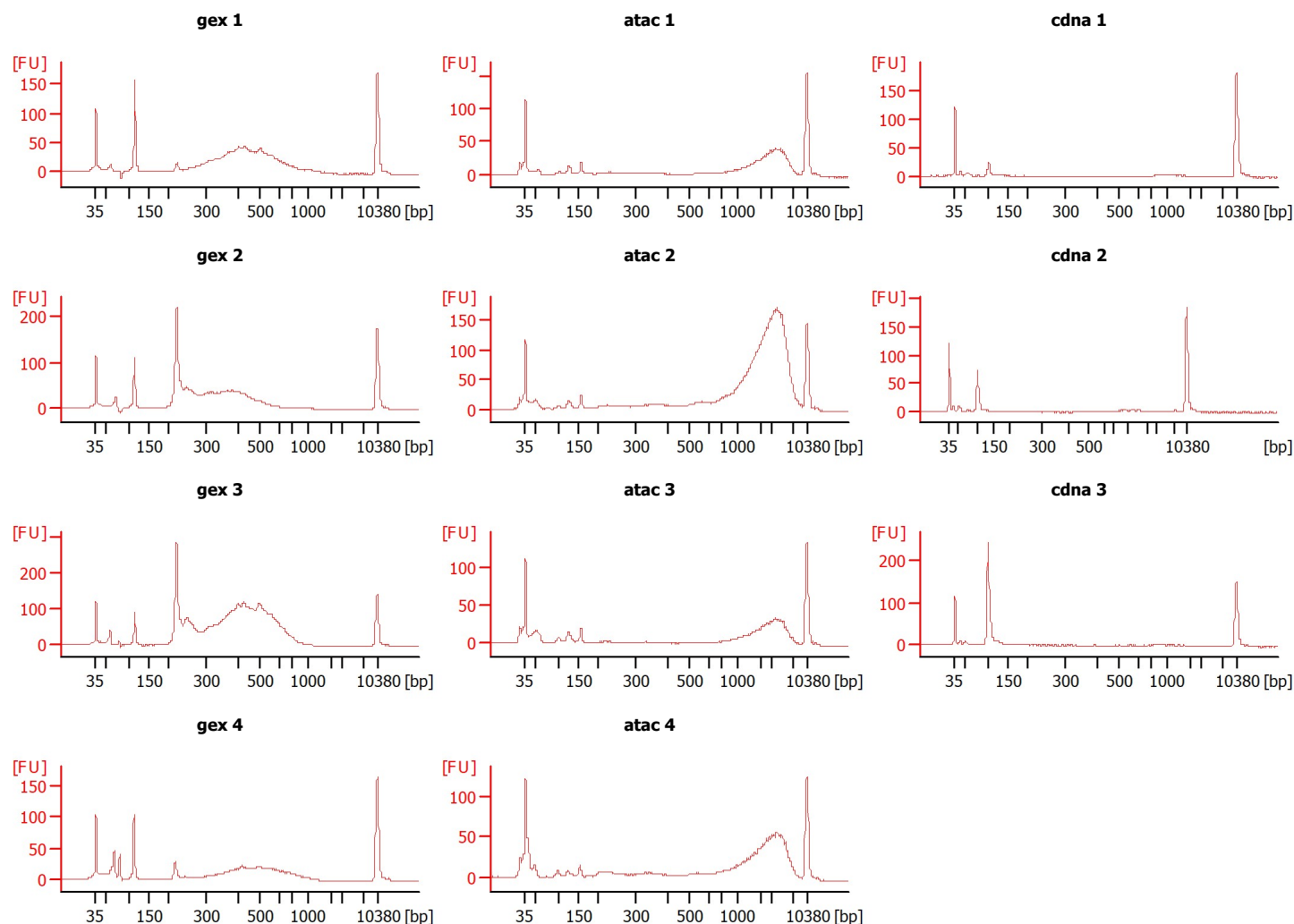
Instrument Name: DEDAE01844
Serial#: DEDAE01844
Firmware: C.01.069
Type: G2939B

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:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
Modified: 28/10/2021 11:46:18

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
gex 1		<input type="checkbox"/>	✓			
atac 1		<input type="checkbox"/>	✓			
cdna 1		<input type="checkbox"/>	✓			
gex 2		<input type="checkbox"/>	✓			
atac 2		<input type="checkbox"/>	✓			
cdna 2		<input type="checkbox"/>	✓			
gex 3		<input type="checkbox"/>	✓			
atac 3		<input type="checkbox"/>	✓			
cdna 3		<input type="checkbox"/>	✓			
gex 4		<input type="checkbox"/>	✓			
atac 4		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			
Chip Lot #			Reagent Kit Lot #			

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
Modified: 28/10/2021 11:46:18

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

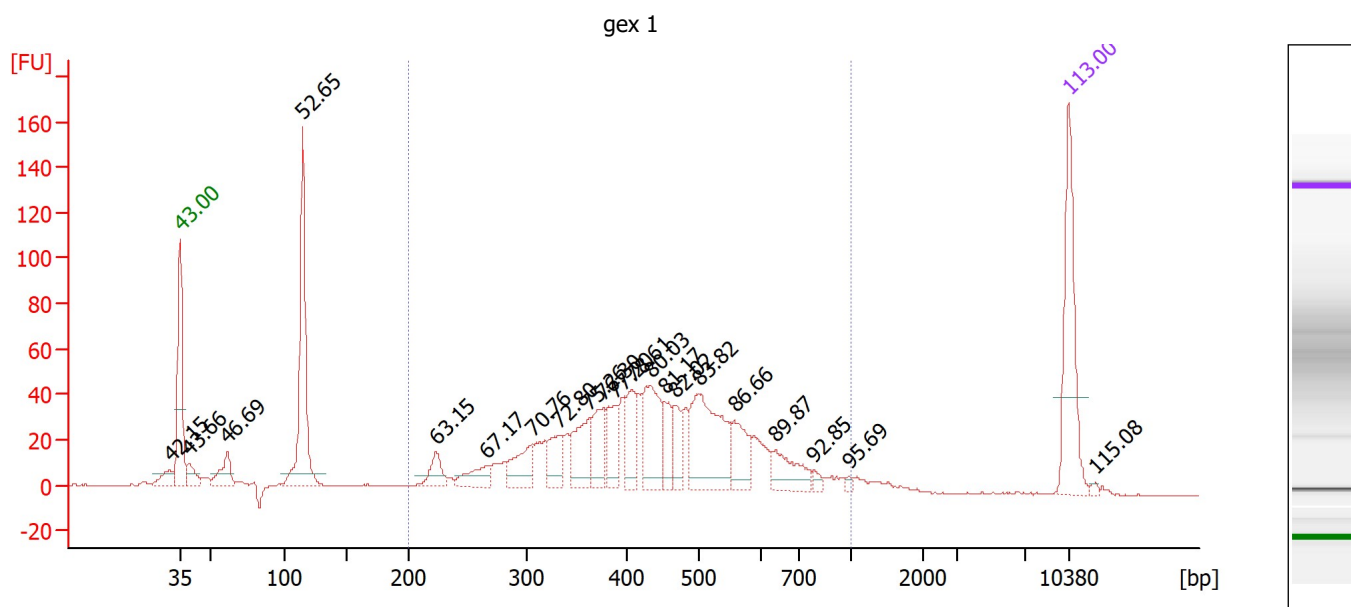
Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
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Electropherogram Summary



Overall Results for sample 1 : gex 1

Number of peaks found: 21 Corr. Area 1: 1,027.6
 Noise: 0.3

Peak table for sample 1 : gex 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	39	21.32	823.7	
4	61	32.41	798.9	
5	115	183.41	2,416.0	
6	223	24.86	168.6	
7	267	25.54	145.1	
8	306	38.17	188.8	
9	332	31.09	142.0	
10	363	47.89	200.1	
11	376	40.90	165.0	
12	387	35.55	139.2	
13	407	36.26	135.1	
14	432	67.82	238.0	
15	452	27.68	92.8	
16	467	26.17	84.9	
17	499	111.39	338.5	
18	556	37.90	103.2	
19	637	32.67	77.8	
20	783	5.18	10.0	
21	993	2.87	4.4	
22	10,380	75.00	10.9	Upper Marker
23	12,423	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
Modified: 28/10/2021 11:46:18

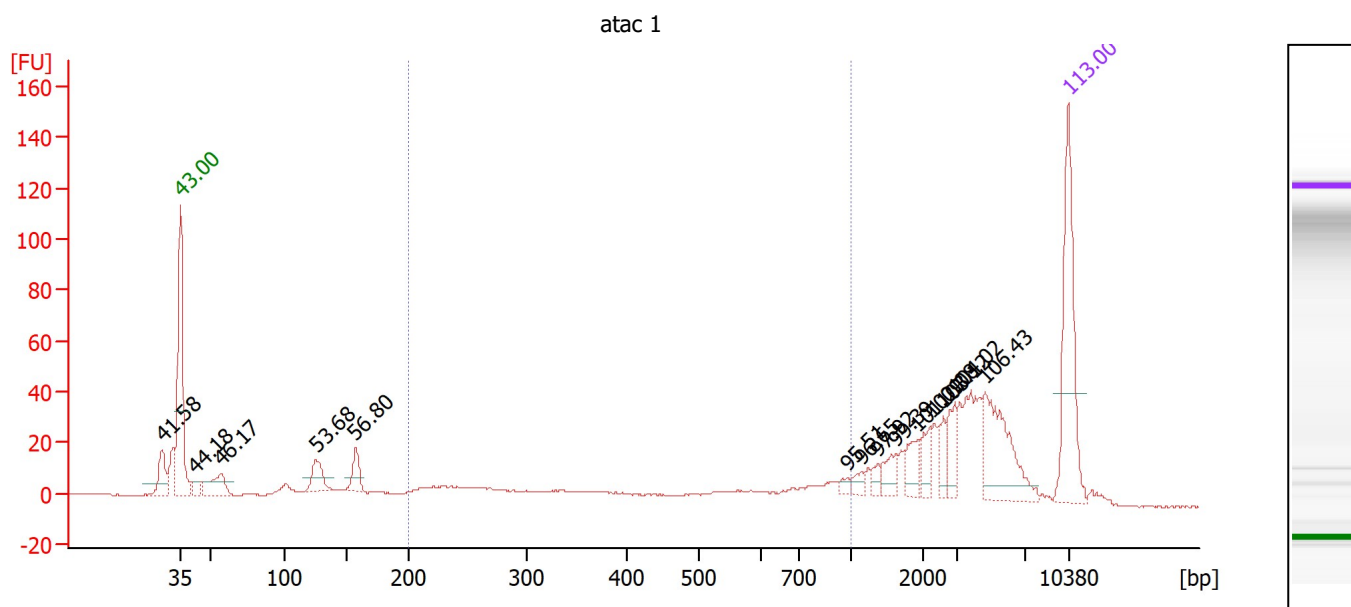
Electropherogram Summary Continued ...**... Region table for sample 1 :****gex 1**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	1,000	1,027.6	76	450	29.8	792.77	3,020.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
 Modified: 28/10/2021 11:46:18

Electropherogram Summary Continued ...



Overall Results for sample 2 : atac 1

Number of peaks found: 14 Corr. Area 1: 164.2
 Noise: 0.3

Peak table for sample 2 : atac 1

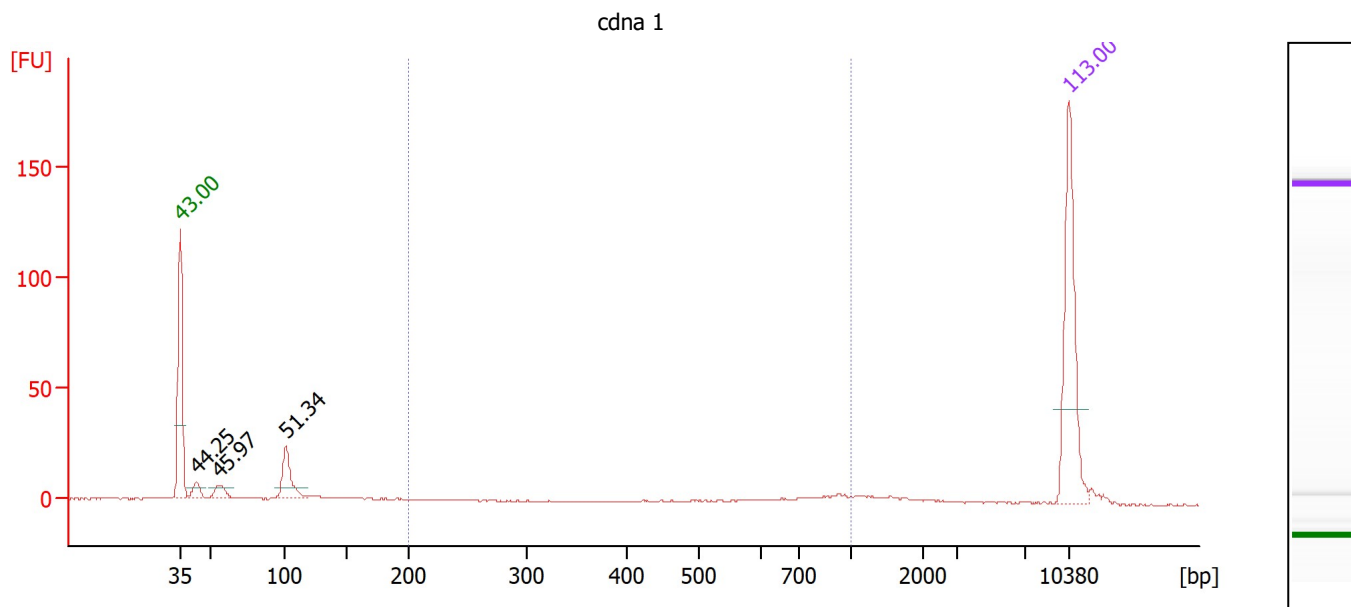
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	43	12.48	444.7	
4	57	33.49	890.7	
5	125	27.89	336.8	
6	157	21.02	202.8	
7	980	3.94	6.1	
8	1,151	5.86	7.7	
9	1,375	5.24	5.8	
10	1,632	12.62	11.7	
11	1,930	16.05	12.6	
12	2,212	12.29	8.4	
13	2,586	11.08	6.5	
14	2,909	17.50	9.1	
15	4,633	59.63	19.5	
16	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : atac 1

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	164.2	23	504	47.4	139.88	586.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
 Modified: 28/10/2021 11:46:18

Electropherogram Summary Continued ...**Overall Results for sample 3 : cdna 1**

Number of peaks found: 3 Corr. Area 1: 27.3
 Noise: 0.2

Peak table for sample 3 : cdna 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	13.28	468.8	
3	55	14.45	396.1	
4	102	39.66	590.1	
5	10,380	75.00	10.9	Upper Marker

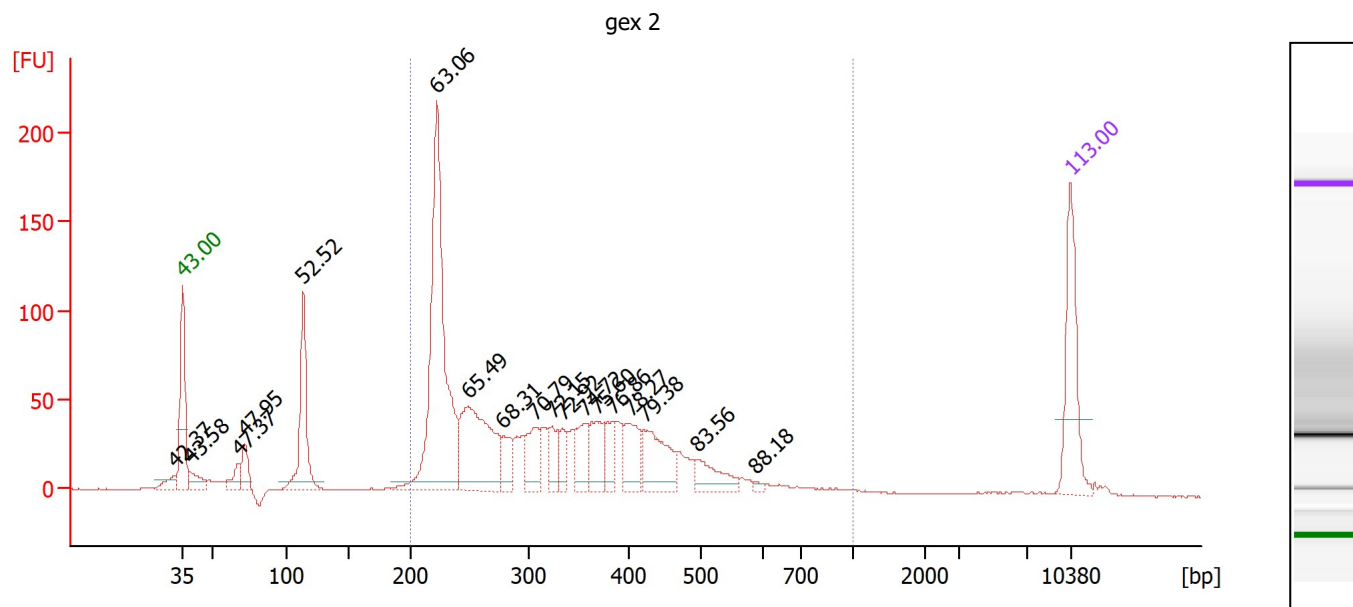
Region table for sample 3 : cdna 1

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	27.3	18	684	30.8	18.09	51.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
 Modified: 28/10/2021 11:46:18

Electropherogram Summary Continued ...



Overall Results for sample 4 : gex 2

Number of peaks found: 18 Corr. Area 1: 1,465.6
 Noise: 0.4

Peak table for sample 4 : gex 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	39	27.09	1,060.5	
4	67	22.42	504.3	
5	72	34.62	724.8	
6	114	133.32	1,776.0	
7	222	385.00	2,621.7	
8	249	178.72	1,089.1	
9	279	30.87	167.7	
10	307	47.56	235.1	
11	324	28.47	133.3	
12	333	27.13	123.3	
13	356	38.94	165.8	
14	367	47.11	194.5	
15	383	34.86	138.0	
16	401	46.95	177.6	
17	420	69.44	250.3	
18	494	37.33	114.5	
19	587	3.45	8.9	
20	10,380	75.00	10.9	Upper Marker

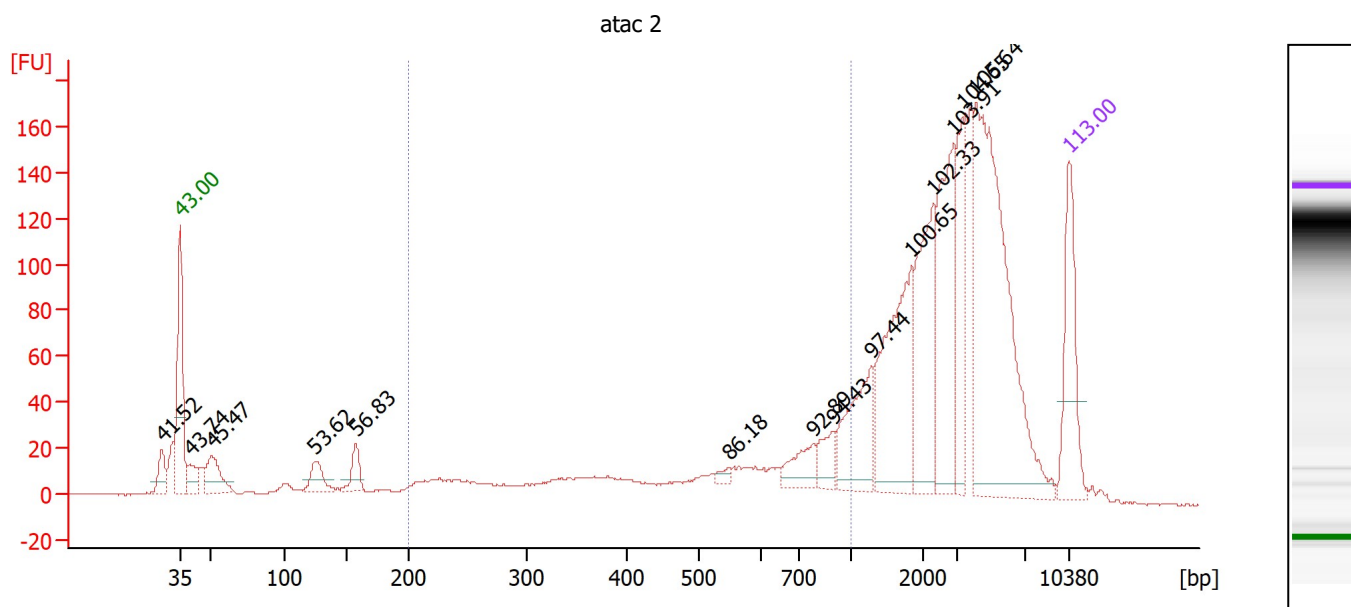
Region table for sample 4 : gex 2

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	1,465.6	83	335	34.7	1,155.00	5,980.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
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Electropherogram Summary Continued ...



Overall Results for sample 5 : atac 2

Number of peaks found: 14 Corr. Area 1: 499.8
 Noise: 0.5

Peak table for sample 5 : atac 2

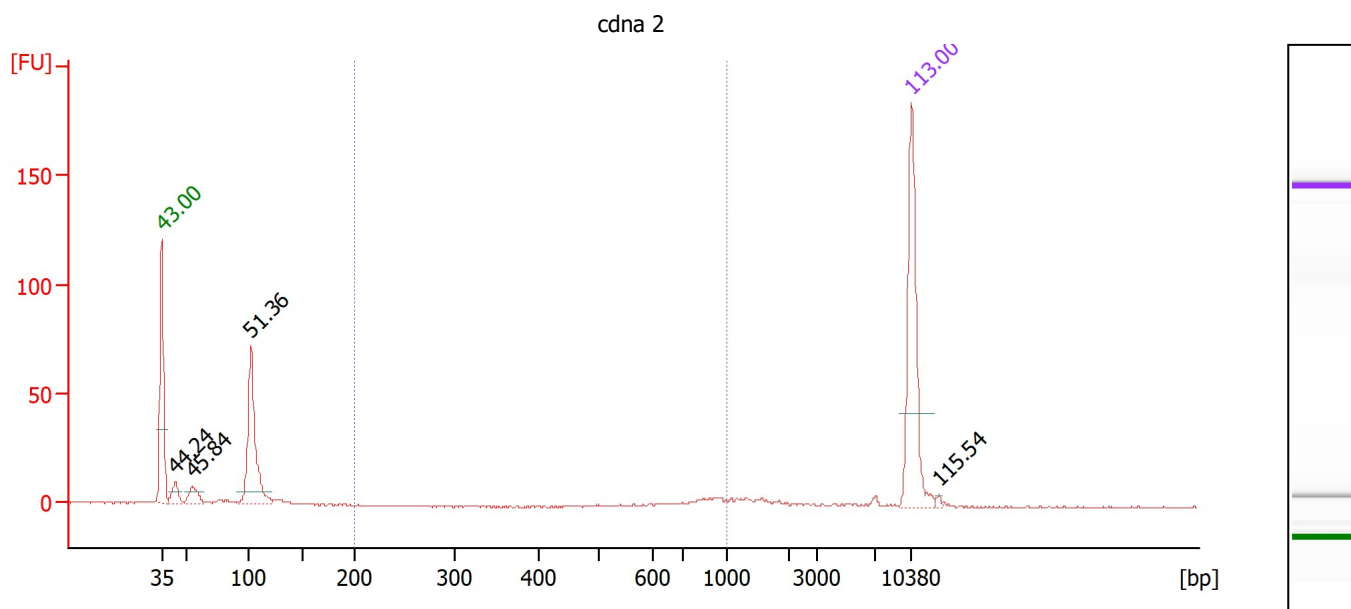
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	40	29.37	1,120.6	
4	51	57.11	1,697.8	
5	125	32.51	394.6	
6	157	28.92	278.4	
7	546	6.35	17.6	
8	786	32.12	61.9	
9	900	24.74	41.7	
10	1,290	78.67	92.4	
11	1,853	141.30	115.6	
12	2,301	113.30	74.6	
13	2,869	123.32	65.1	
14	3,286	80.97	37.3	
15	4,034	297.09	111.6	
16	10,380	75.00	10.9	Upper Marker

Region table for sample 5 : atac 2

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	499.8	22	560	41.4	397.33	1,451.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
 Modified: 28/10/2021 11:46:18

Electropherogram Summary Continued ...**Overall Results for sample 6 : cdna 2**

Number of peaks found: 4 Corr. Area 1: 12.4
 Noise: 0.4

Peak table for sample 6 : cdna 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	16.60	586.0	
3	54	17.98	503.2	
4	102	118.88	1,764.8	
5	10,380	75.00	10.9	Upper Marker
6	12,872	0.00	0.0	

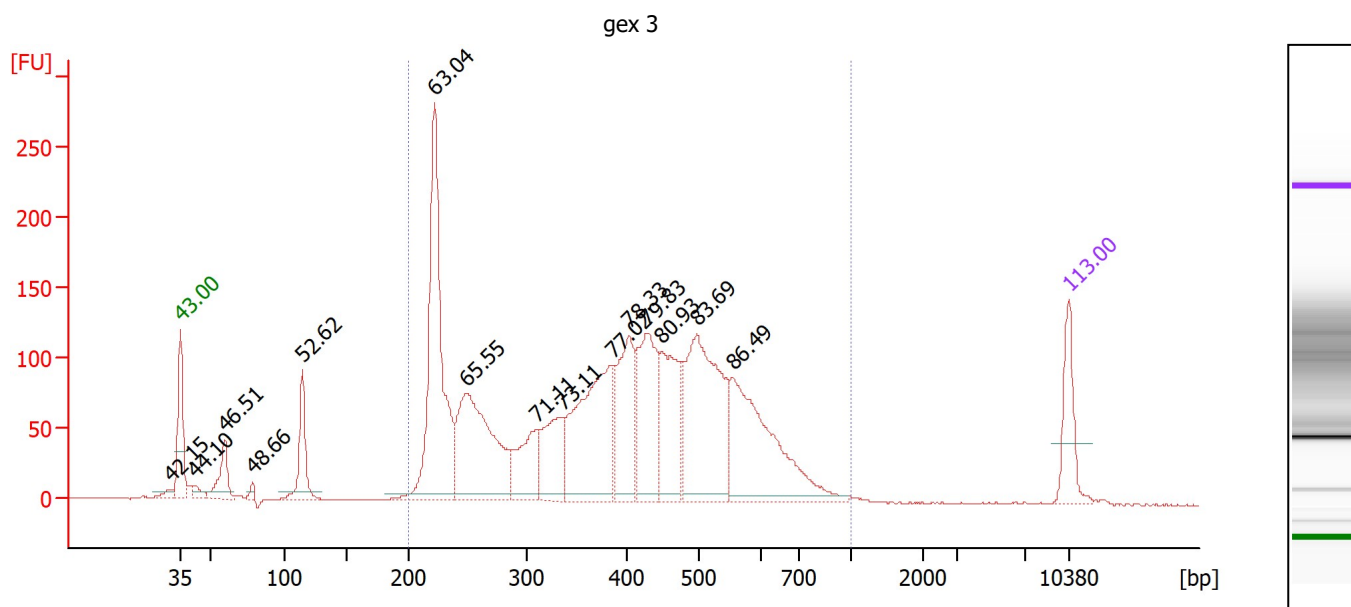
Region table for sample 6 : cdna 2

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	12.4	6	835	13.0	7.54	13.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
 Modified: 28/10/2021 11:46:18

Electropherogram Summary Continued ...



Overall Results for sample 7 : gex 3

Number of peaks found: 15 Corr. Area 1: 3,256.0
 Noise: 0.4

Peak table for sample 7 : gex 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	42	23.57	850.1	
4	60	92.15	2,330.8	
5	78	11.98	231.3	
6	115	122.58	1,618.7	
7	222	556.72	3,794.7	
8	249	398.23	2,420.7	
9	311	130.72	637.6	
10	336	147.87	667.3	
11	385	351.41	1,383.7	
12	402	206.87	780.5	
13	428	233.16	825.1	
14	448	186.48	631.2	
15	496	388.85	1,187.1	
16	553	344.89	945.1	
17	10,380	75.00	10.9	Upper Marker

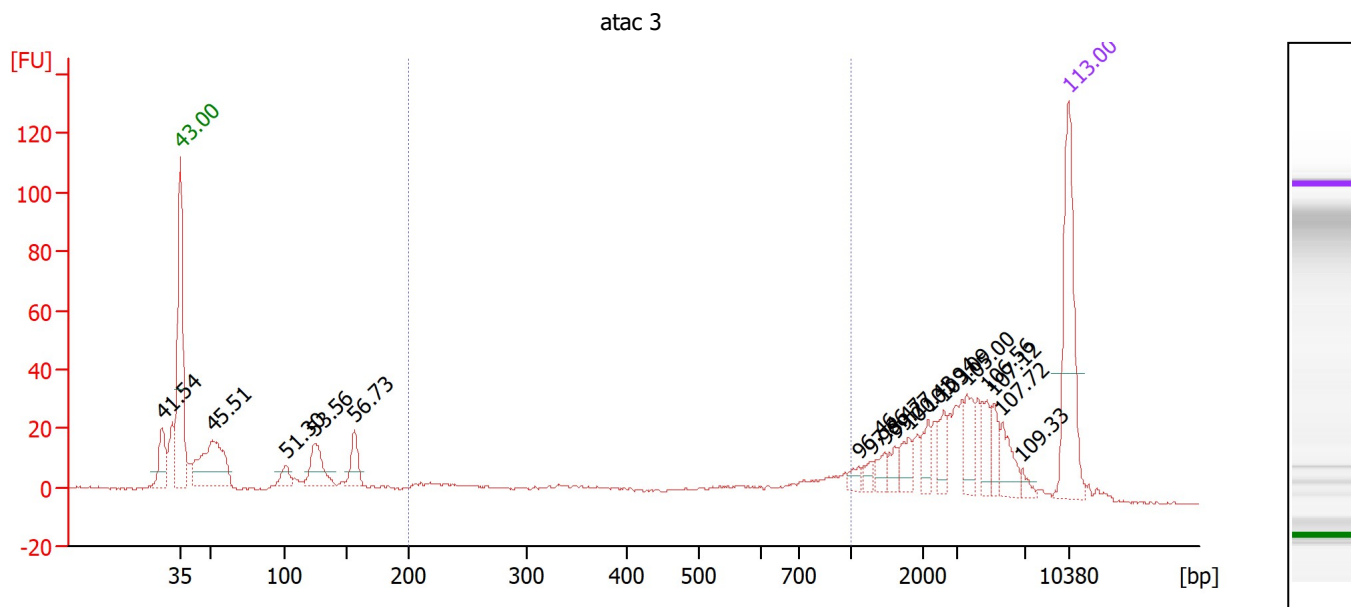
Region table for sample 7 : gex 3

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	3,256.0	92	408	32.9	2,992.96	13,192.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
 Modified: 28/10/2021 11:46:18

Electropherogram Summary Continued ...



Overall Results for sample 8 : atac 3

Number of peaks found: 17 Corr. Area 1: 128.9
 Noise: 0.4

Peak table for sample 8 : atac 3

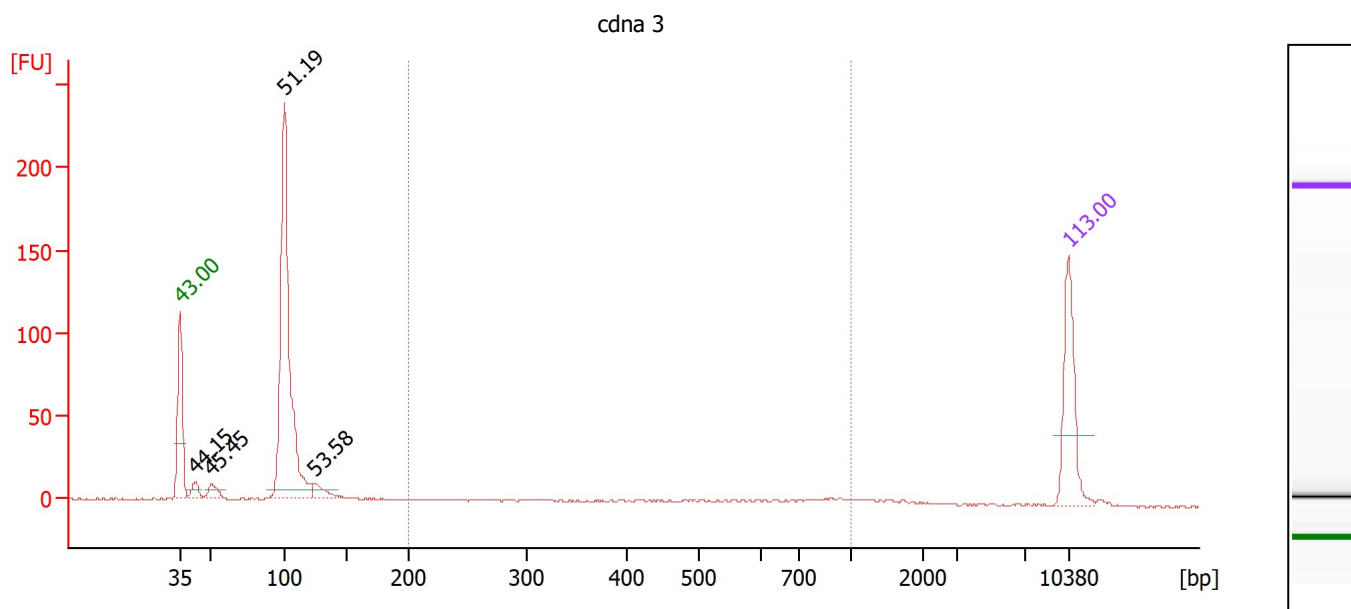
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	51	104.69	3,089.3	
4	101	16.06	240.0	
5	124	43.03	524.8	
6	156	27.03	262.0	
7	1,118	6.44	8.7	
8	1,294	5.66	6.6	
9	1,470	8.22	8.5	
10	1,611	9.16	8.6	
11	1,814	13.86	11.6	
12	2,160	12.69	8.9	
13	2,576	14.16	8.3	
14	3,553	18.42	7.9	
15	4,734	14.42	4.6	
16	5,152	13.14	3.9	
17	5,609	17.96	4.9	
18	6,828	4.66	1.0	
19	10,380	75.00	10.9	Upper Marker

Region table for sample 8 : atac 3

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	128.9	19	535	44.3	120.69	472.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
 Modified: 28/10/2021 11:46:18

Electropherogram Summary Continued ...**Overall Results for sample 9 : cdna 3**

Number of peaks found: 4 Corr. Area 1: 60.0
 Noise: 0.4

Peak table for sample 9 : cdna 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	19.40	694.8	
3	51	21.17	631.9	
4	100	462.93	6,994.4	
5	124	21.30	259.3	
6	10,380	75.00	10.9	Upper Marker

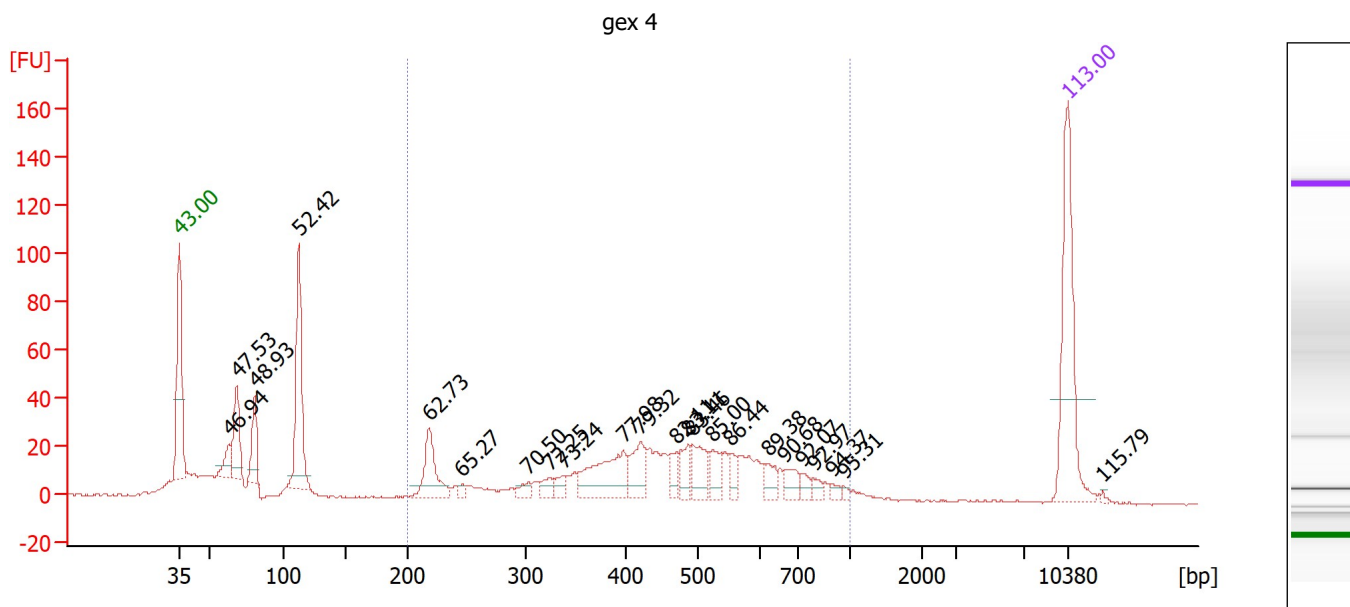
Region table for sample 9 : cdna 3

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	60.0	11	527	42.2	49.32	189.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
 Modified: 28/10/2021 11:46:18

Electropherogram Summary Continued ...



Overall Results for sample 10 : gex 4

Number of peaks found: 23 Corr. Area 1: 546.9
 Noise: 0.5

Peak table for sample 10 : gex 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	64	18.61	443.4	
3	69	49.25	1,085.6	
4	81	33.37	626.0	
5	113	105.47	1,418.2	
6	219	43.54	301.4	
7	246	4.55	28.0	
8	303	7.87	39.4	
9	325	9.22	43.0	
10	337	8.53	38.3	
11	397	54.83	209.4	
12	419	27.70	100.1	
13	468	10.98	35.5	
14	486	16.63	51.8	
15	492	24.85	76.5	
16	522	15.61	45.3	
17	552	9.64	26.5	
18	620	11.41	27.9	
19	664	11.89	27.1	
20	726	6.70	14.0	
21	792	5.00	9.6	
22	895	3.70	6.3	
23	965	2.32	3.6	
24	10,380	75.00	10.9	Upper Marker
25	13,119	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
Modified: 28/10/2021 11:46:18

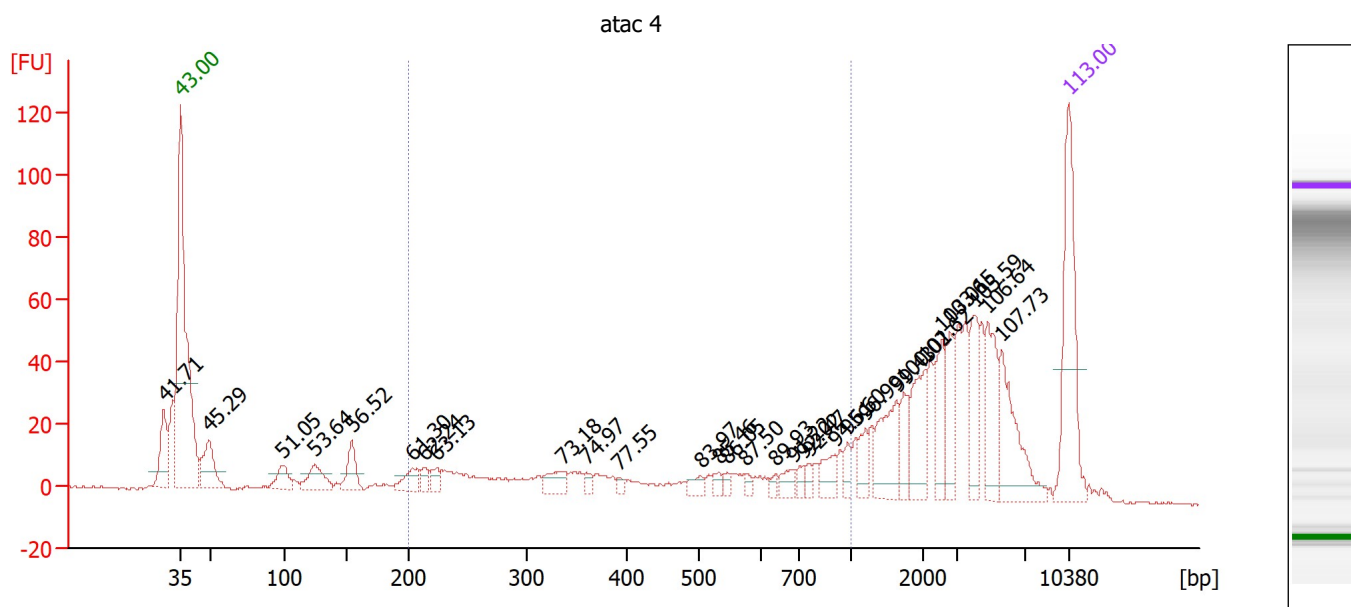
Electropherogram Summary Continued ...**... Region table for sample 10 :****gex 4**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	1,000	546.9	61	472	33.4	405.91	1,558.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
 Modified: 28/10/2021 11:46:18

Electropherogram Summary Continued ...



Overall Results for sample 11 : atac 4

Number of peaks found: 30 Corr. Area 1: 302.6
 Noise: 0.5

Peak table for sample 11 : atac 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	50	46.73	1,428.9	
4	99	21.41	327.3	
5	125	27.91	338.2	
6	154	26.42	259.6	
7	203	18.62	138.6	
8	214	9.07	64.4	
9	223	9.89	67.1	
10	337	17.10	77.0	
11	359	5.39	22.8	
12	391	3.82	14.8	
13	501	8.28	25.0	
14	532	6.29	17.9	
15	544	4.76	13.3	
16	573	4.36	11.5	
17	639	4.28	10.2	
18	683	10.04	22.3	
19	722	5.86	12.3	
20	755	6.29	12.6	
21	913	15.14	25.1	
22	986	8.63	13.3	
23	1,212	14.17	17.7	
24	1,639	39.06	36.1	
25	1,743	15.96	13.9	
26	2,045	35.46	26.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
Modified: 28/10/2021 11:46:18

Electropherogram Summary Continued ...**... Peak table for sample 11 : atac 4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,545	28.01	16.7	
28	2,777	23.51	12.8	
29	3,998	29.69	11.3	
30	4,789	38.47	12.2	
31	5,617	48.50	13.1	
32	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : atac 4

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	302.6	29	505	46.0	282.03	1,160.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DEDAE01844_2021-10-28_10-55-45.xad

Created: 28/10/2021 10:55:44
Modified: 28/10/2021 11:46:18

Gel Image