

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901048_2023-01-26_12-07-29.xad

Created: 1/26/2023 12:07:29 PM
Modified: 1/26/2023 3:03:08 PM

Electrophoresis File Run Summary

Instrument Information:

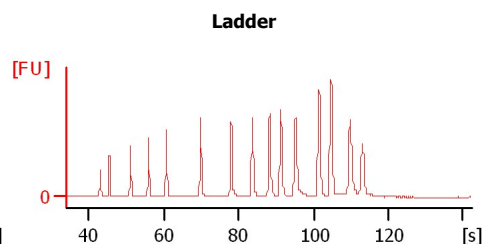
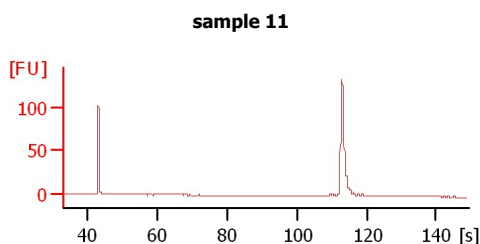
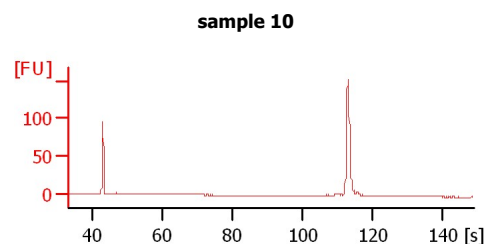
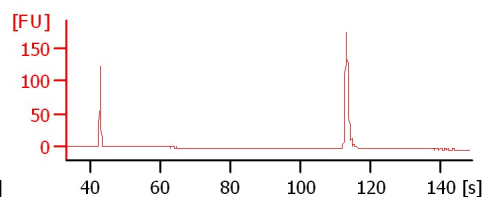
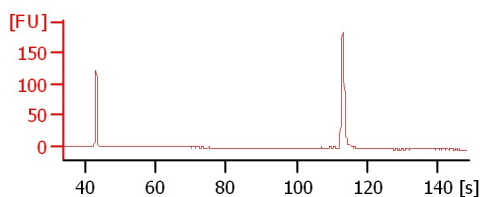
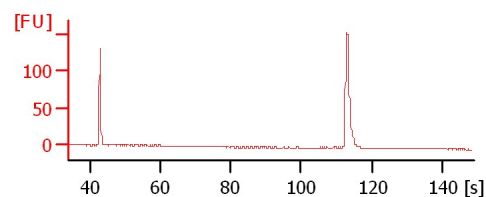
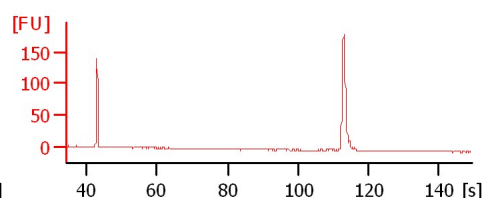
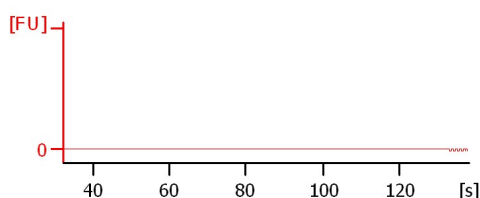
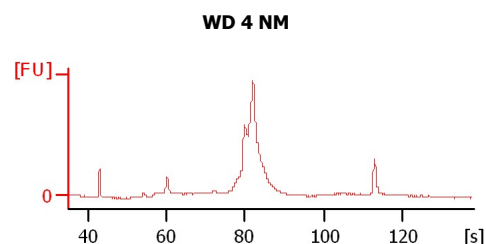
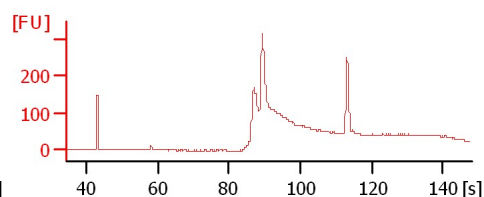
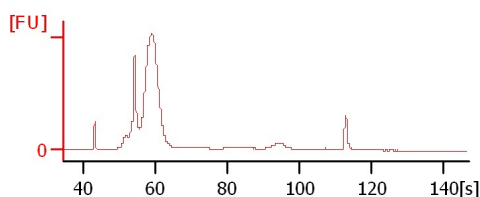
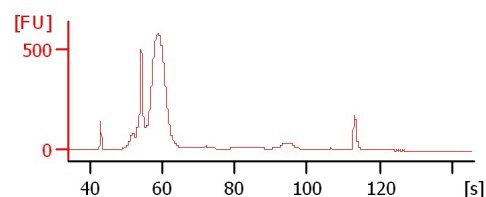
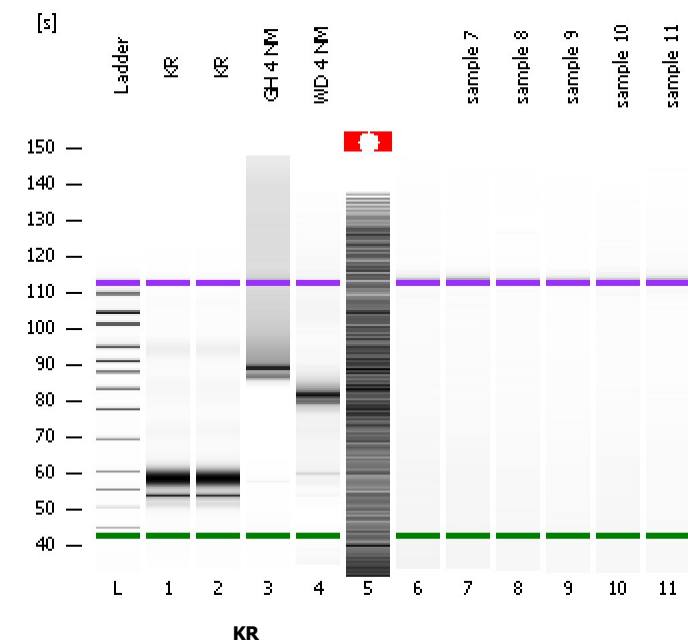
Instrument Name: DE72901048 Firmware: C.01.069
Serial#: DE72901048 Type: G2939A

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.0
Assay Comments: Copyright © 2003-2009 Agilent Technologies

Chip Information:

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



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901048_2023-01-26_12-07-29.xad

Created: 1/26/2023 12:07:29 PM
Modified: 1/26/2023 3:03:08 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
KR		<input type="checkbox"/>	✓			
KR		<input type="checkbox"/>	✓			
GH 4 NM		<input type="checkbox"/>	✓			
WD 4 NM		<input type="checkbox"/>	✓			
		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>	✓			

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901048_2023-01-26_12-07-29.xad

Created: 1/26/2023 12:07:29 PM
Modified: 1/26/2023 3:03:08 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

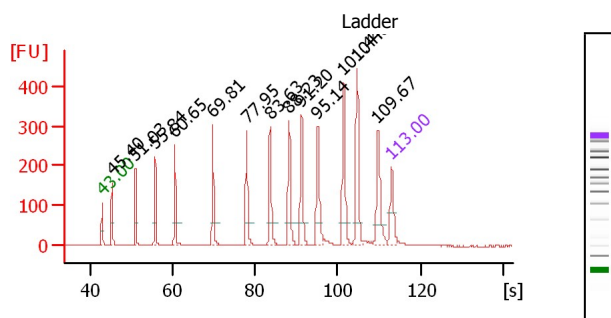
Ladder

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:\...gh Sensitivity DNA Assay_DE72901048_2023-01-26_12-07-29.xad

Created: 1/26/2023 12:07:29 PM
 Modified: 1/26/2023 3:03:08 PM

Electropherogram Summary



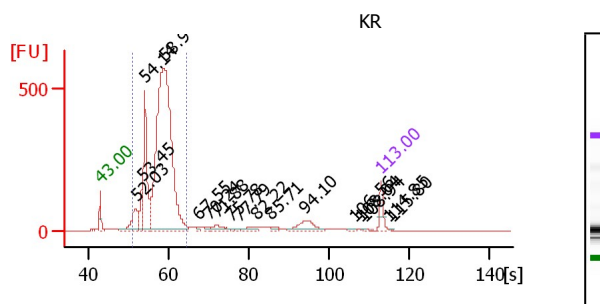
Overall Results for Ladder

Noise: 0.4

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker



Overall Results for sample 1 : KR

Number of peaks found: 17
 Noise: 0.4
 Corr. Area 1: 5,545.3

Region table for sample 1 : KR

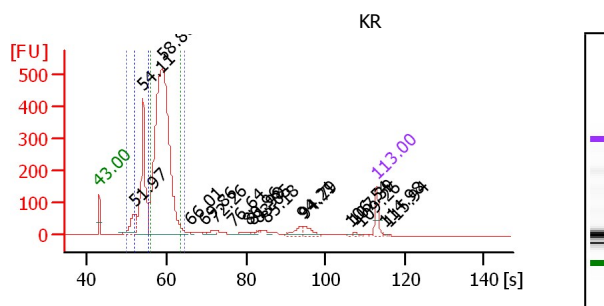
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
99	245	5,545.3	87	172	16.4	5,033.63	46,210.3	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901048_2023-01-26_12-07-29.xad

Created: 1/26/2023 12:07:29 PM
Modified: 1/26/2023 3:03:08 PM

Electropherogram Summary Continued ...**Peak table for sample 1 :**KR

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	110	281.03	3,859.5	
3	125	170.98	2,070.1	
4	132	849.62	9,731.7	
5	182	3,791.09	31,523.5	
6	275	8.35	46.0	
7	305	18.21	90.4	
8	325	67.19	312.9	
9	373	6.05	24.5	
10	398	6.48	24.7	
11	475	42.03	134.0	
12	545	19.16	53.3	
13	921	115.52	190.1	
14	4,516	8.02	2.7	
15	5,695	2.46	0.7	
16	6,411	1.90	0.4	
17	10,380	75.00	10.9	Upper Marker
18	12,258	0.00	0.0	
19	13,223	0.00	0.0	

**Overall Results for sample 2 :**KR

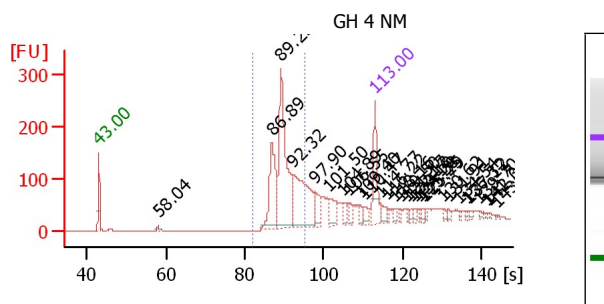
Number of peaks found: 18
Noise: 0.4
Corr. Area 1: 4,881.2
Corr. Area 2: 983.5
Corr. Area 3: 3,612.4

Region table for sample 2 :KR

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
89	241	4,881.2	88	171	16.7	4,945.29	45,862.2	Blue
109	146	983.5	18	130	6.5	1,059.34	12,350.7	Blue
152	230	3,612.4	65	183	8.8	3,581.29	29,755.0	Green

Peak table for sample 2 :KR

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	110	258.11	3,563.7	
3	132	963.60	11,065.8	
4	181	3,728.85	31,156.2	
5	259	11.42	67.0	
6	301	11.53	58.1	
7	330	37.80	173.5	
8	384	5.58	22.0	
9	453	27.86	93.2	
10	471	10.58	34.0	
11	490	10.44	32.3	
12	534	14.22	40.4	
13	929	51.87	84.6	
14	973	43.63	67.9	
15	4,500	3.79	1.3	
16	5,181	6.28	1.8	
17	6,672	1.55	0.4	
18	10,380	75.00	10.9	Upper Marker
19	12,388	0.00	0.0	
20	13,364	0.00	0.0	

**Overall Results for sample 3 :**GH 4 NM

Number of peaks found: 29
Noise: 0.6
Corr. Area 1: 1,265.6

Region table for sample 3 :GH 4 NM

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
476	1,000	1,265.6	52	690	17.1	514.35	1,162.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901048_2023-01-26_12-07-29.xad

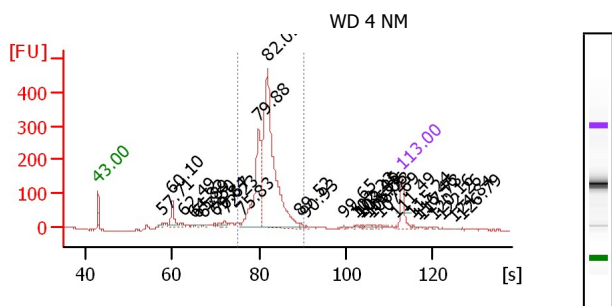
Created: 1/26/2023 12:07:29 PM
 Modified: 1/26/2023 3:03:08 PM

Electropherogram Summary Continued ...

Peak table for sample 3 : GH 4 NM

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	173	8.57	75.1	
3	571	148.62	394.5	
4	634	281.70	672.8	
5	785	203.68	393.2	
6	1,439	35.52	37.4	
7	2,021	35.62	26.7	
8	3,182	16.53	7.9	
9	4,511	14.05	4.7	
10	6,782	11.15	2.5	
11	7,814	11.65	2.3	
12	10,380	75.00	10.9	Upper Marker
13	12,182	0.00	0.0	
14	13,656	0.00	0.0	
15	15,621	0.00	0.0	
16	16,986	0.00	0.0	
17	18,678	0.00	0.0	
18	19,661	0.00	0.0	
19	20,643	0.00	0.0	
20	21,844	0.00	0.0	
21	22,827	0.00	0.0	
22	23,373	0.00	0.0	
23	28,286	0.00	0.0	
24	29,597	0.00	0.0	
25	32,272	0.00	0.0	

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	34,073	0.00	0.0	
27	34,892	0.00	0.0	
28	37,513	0.00	0.0	
29	39,150	0.00	0.0	
30	39,860	0.00	0.0	
31	41,771	0.00	0.0	

Overall Results for sample 4 : WD 4 NM

Number of peaks found: 29
 Noise: 1.3
 Corr. Area 1: 2,462.9

Region table for sample 4 : WD 4 NM

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
364	677	2,462.976	76	473	10.2	1,655.12	5,361.2	Blue

Peak table for sample 4 : WD 4 NM

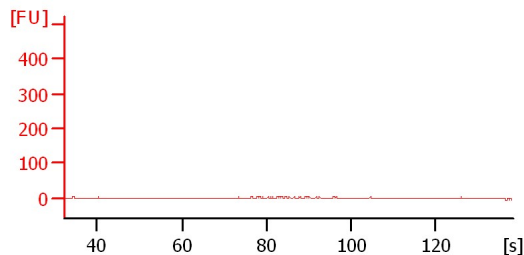
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	169	12.89	115.3	
3	194	106.02	827.1	
4	220	10.04	69.1	
5	246	5.42	33.4	
6	257	9.34	55.0	
7	275	7.39	40.7	
8	300	8.52	43.0	
9	311	12.31	60.1	
10	330	22.81	104.8	
11	374	9.71	39.3	
12	434	482.18	1,683.7	
13	472	1,113.82	3,578.0	
14	643	9.47	22.3	
15	691	5.24	11.5	
16	1,717	2.18	1.9	
17	2,248	3.79	2.6	
18	2,626	3.49	2.0	
19	2,762	3.28	1.8	
20	3,319	9.45	4.3	
21	4,252	5.63	2.0	
22	5,418	5.39	1.5	
23	8,845	2.99	0.5	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901048_2023-01-26_12-07-29.xad

Created: 1/26/2023 12:07:29 PM
 Modified: 1/26/2023 3:03:08 PM

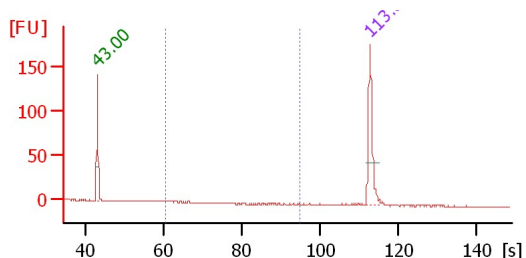
Electropherogram Summary Continued ...

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
25	12,657	0.00	0.0	
26	13,895	0.00	0.0	
27	15,182	0.00	0.0	
28	17,657	0.00	0.0	
29	19,785	0.00	0.0	
30	22,409	0.00	0.0	
31	24,389	0.00	0.0	



Overall Results for sample 5 :

Noise: 1.5



Overall Results for sample 6 :

Number of peaks found: 0
 Noise: 0.4
 Corr. Area 1: 0.0

Region table for sample 6 :

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	0.0	0	0	0.0	0.00	0.0	Blue

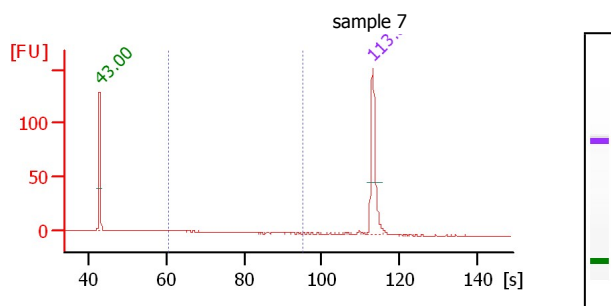
Peak table for sample 6 :

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901048_2023-01-26_12-07-29.xad

Created: 1/26/2023 12:07:29 PM
 Modified: 1/26/2023 3:03:08 PM

Electropherogram Summary Continued ...



Peak table for sample 7 :

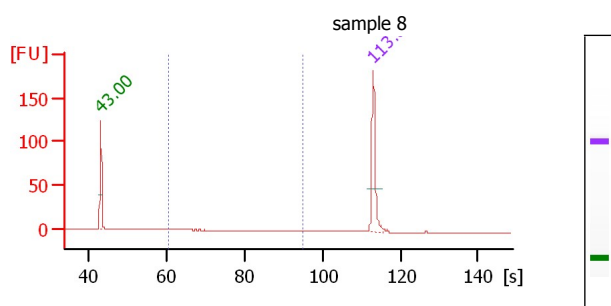
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

Overall Results for sample 7 : sample 7

Number of peaks found: 0
 Noise: 0.3
 Corr. Area 1: 5.6

Region table for sample 7 : sample 7

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarit y [pmol/l]	Co lo r
200	1,000	5.6	17	249	40.6	4.01	25.9	■



Peak table for sample 8 :

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

Overall Results for sample 8 : sample 8

Number of peaks found: 0
 Noise: 0.3
 Corr. Area 1: 4.7

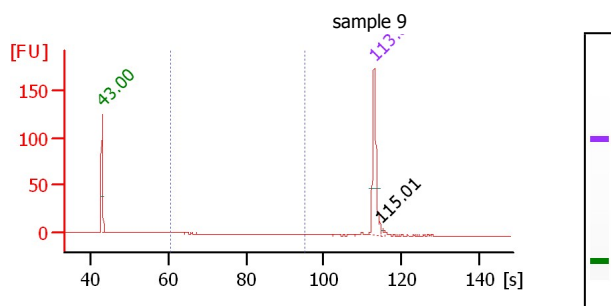
Region table for sample 8 : sample 8

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarit y [pmol/l]	Co lo r
200	1,000	4.7	12	276	57.3	3.46	22.2	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901048_2023-01-26_12-07-29.xad

Created: 1/26/2023 12:07:29 PM
 Modified: 1/26/2023 3:03:08 PM

Electropherogram Summary Continued ...



Peak table for sample 9 :

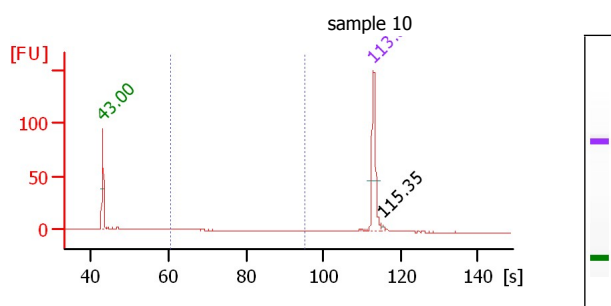
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	12,427	0.00	0.0	

Overall Results for sample 9 : sample 9

Number of peaks found: 1
 Noise: 0.3
 Corr. Area 1: 0.7

Region table for sample 9 : sample 9

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	0.7	3	216	4.7	0.54	3.8	Blue



Peak table for sample 10 :

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	12,771	0.00	0.0	

Overall Results for sample 10 : sample 10

Number of peaks found: 1
 Noise: 0.2
 Corr. Area 1: 5.0

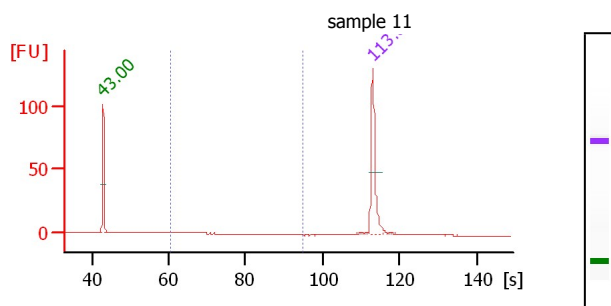
Region table for sample 10 : sample 10

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	5.0	12	229	8.5	4.26	28.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901048_2023-01-26_12-07-29.xad

Created: 1/26/2023 12:07:29 PM
 Modified: 1/26/2023 3:03:08 PM

Electropherogram Summary Continued ...



Peak table for sample 11 :

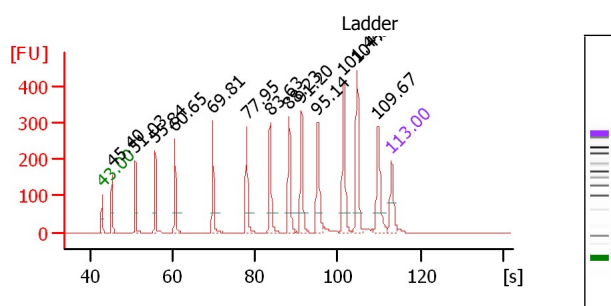
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

Overall Results for sample 11 : sample 11

Number of peaks found: 0
 Noise: 0.2
 Corr. Area 1: 3.5

Region table for sample 11 : sample 11

From To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200 1,000	3.5	14	231	7.5	3.30	21.7	Blue



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



Overall Results for Ladder

Noise: 0.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901048_2023-01-26_12-07-29.xad

Created: 1/26/2023 12:07:29 PM
Modified: 1/26/2023 3:03:08 PM

Electropherogram Summary Continued ...

Peak		Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
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:\...gh Sensitivity DNA Assay_DE72901048_2023-01-26_12-07-29.xad

Created: 1/26/2023 12:07:29 PM
Modified: 1/26/2023 3:03:08 PM

Gel Image