

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-13\2019-08-13_002.xad

Created: 8/13/2019 1:50:25 PM
Modified: 8/13/2019 2:09:21 PM

Electrophoresis File Run Summary

Instrument Information:

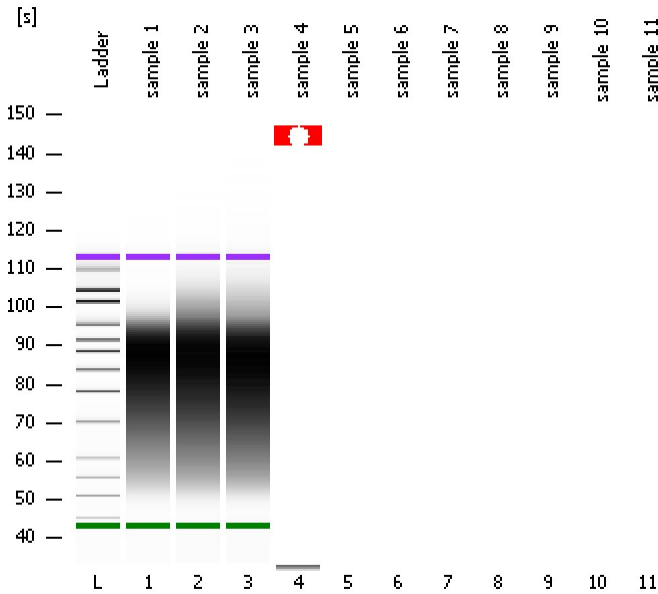
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files\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:

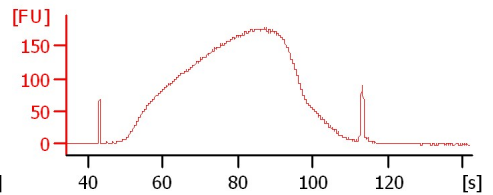
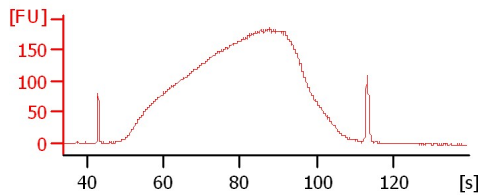
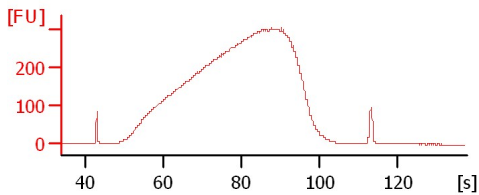
Chip Lot #:
Reagent Kit Lot #:
Chip Comments:



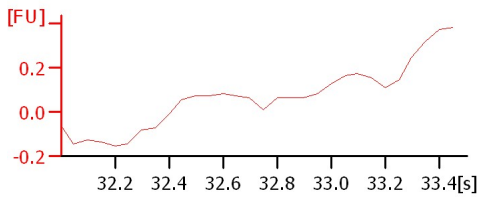
sample 1

sample 2

sample 3



sample 4



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✗			
sample 5		<input type="checkbox"/>	✗			
sample 6		<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"/>	✗			
Ladder		<input type="checkbox"/>	✓			

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/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

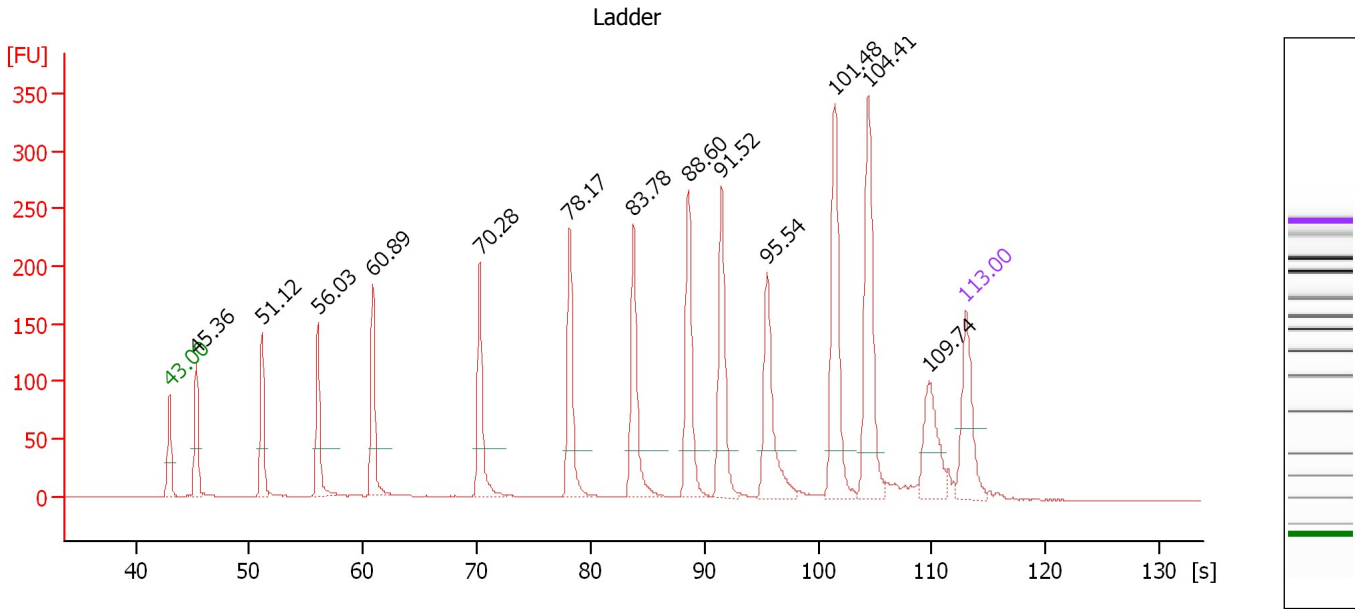
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

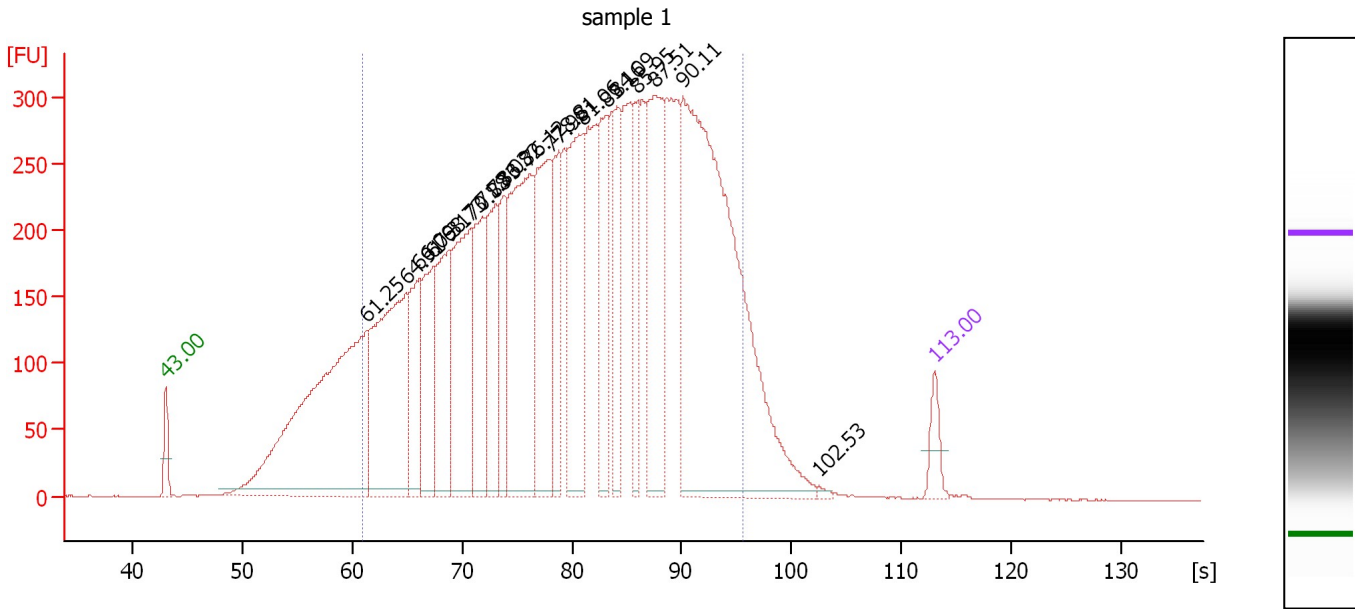
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.36
3	100	150.00	2,272.7	Ladder Peak	51.12
4	150	150.00	1,515.2	Ladder Peak	56.03
5	200	150.00	1,136.4	Ladder Peak	60.89
6	300	150.00	757.6	Ladder Peak	70.28
7	400	150.00	568.2	Ladder Peak	78.17
8	500	150.00	454.5	Ladder Peak	83.78
9	600	150.00	378.8	Ladder Peak	88.60
10	700	150.00	324.7	Ladder Peak	91.52
11	1,000	150.00	227.3	Ladder Peak	95.54
12	2,000	150.00	113.6	Ladder Peak	101.48
13	3,000	150.00	75.8	Ladder Peak	104.41
14	7,000	150.00	32.5	Ladder Peak	109.74
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 19 Corr. Area 1: 10,546.3
 Noise: 0.3

Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	204	2,184.77	16,243.0		61.25
3	243	1,243.69	7,759.3		64.91
4	255	408.58	2,424.3		66.09
5	268	534.39	3,017.0		67.31
6	283	570.73	3,050.5		68.73
7	308	778.66	3,835.3		70.88
8	320	515.76	2,441.9		71.86
9	335	477.85	2,161.8		73.03
10	345	337.02	1,480.8		73.82
11	374	1,014.86	4,111.3		76.12
12	398	709.96	2,705.5		77.98
13	411	381.50	1,404.9		78.81
14	451	730.70	2,452.1		81.06
15	489	398.58	1,235.2		83.16
16	506	312.54	935.1		84.09
17	545	277.89	772.6		85.95
18	578	699.62	1,835.5		87.51
19	652	2,471.37	5,746.6		90.11
20	2,358	8.89	5.7		102.53
21	10,380	75.00	10.9	Upper Marker	113.00

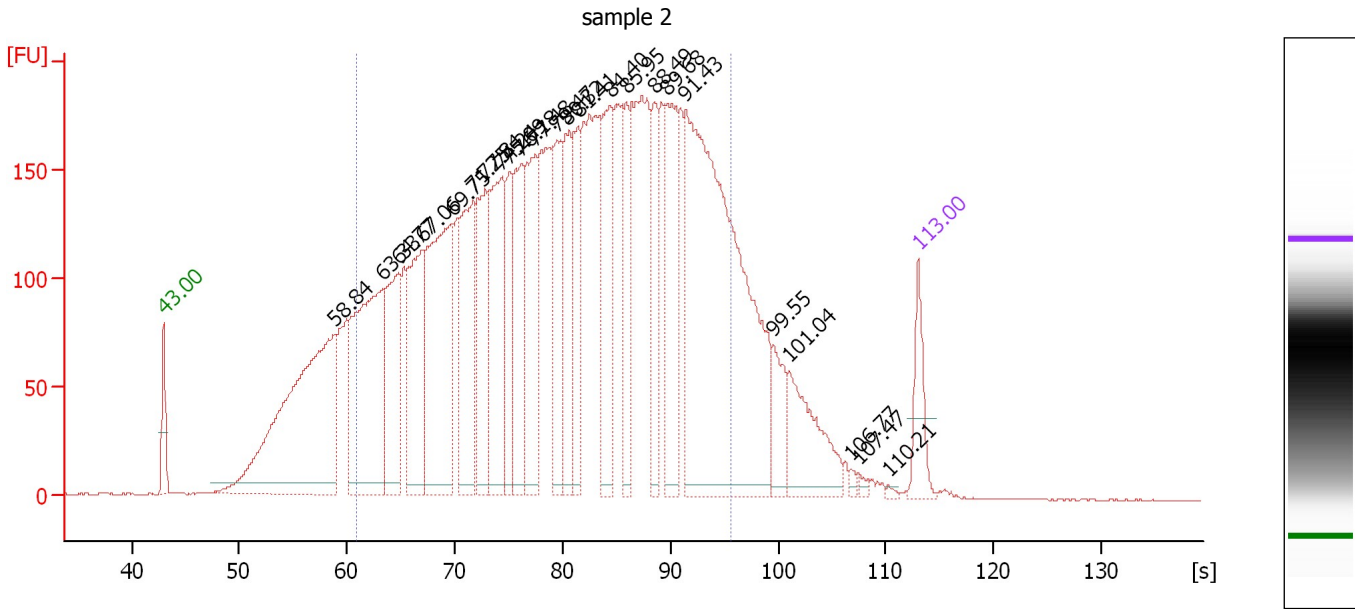
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	476	13,974.59	10,546.3	55,237.5	85	38.5

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Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 24 Corr. Area 1: 6,655.5
 Noise: 0.3

Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	179	1,031.70	8,734.9		58.84
3	226	684.71	4,591.3		63.33
4	241	303.58	1,905.9		64.77
5	266	357.49	2,038.3		67.06
6	294	605.06	3,114.2		69.75
7	319	321.72	1,530.1		71.75
8	332	289.84	1,320.8		72.84
9	350	361.83	1,565.5		74.24
10	361	169.56	711.8		75.09
11	375	263.90	1,066.7		76.18
12	391	284.72	1,102.6		77.48
13	423	228.27	817.2		79.47
14	438	205.85	711.6		80.32
15	458	181.45	600.5		81.41
16	513	266.50	787.3		84.40
17	545	152.10	422.9		85.95
18	598	162.71	412.5		88.49
19	637	281.55	669.5		89.68
20	697	1,262.72	2,746.1		91.43
21	1,675	82.97	75.1		99.55
22	1,926	159.72	125.6		101.04
23	4,772	6.59	2.1		106.77
24	5,295	8.17	2.3		107.47
25	7,485	4.16	0.8		110.21

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Electropherogram Summary Continued ...**... Peak table for sample 2 : sample 2**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

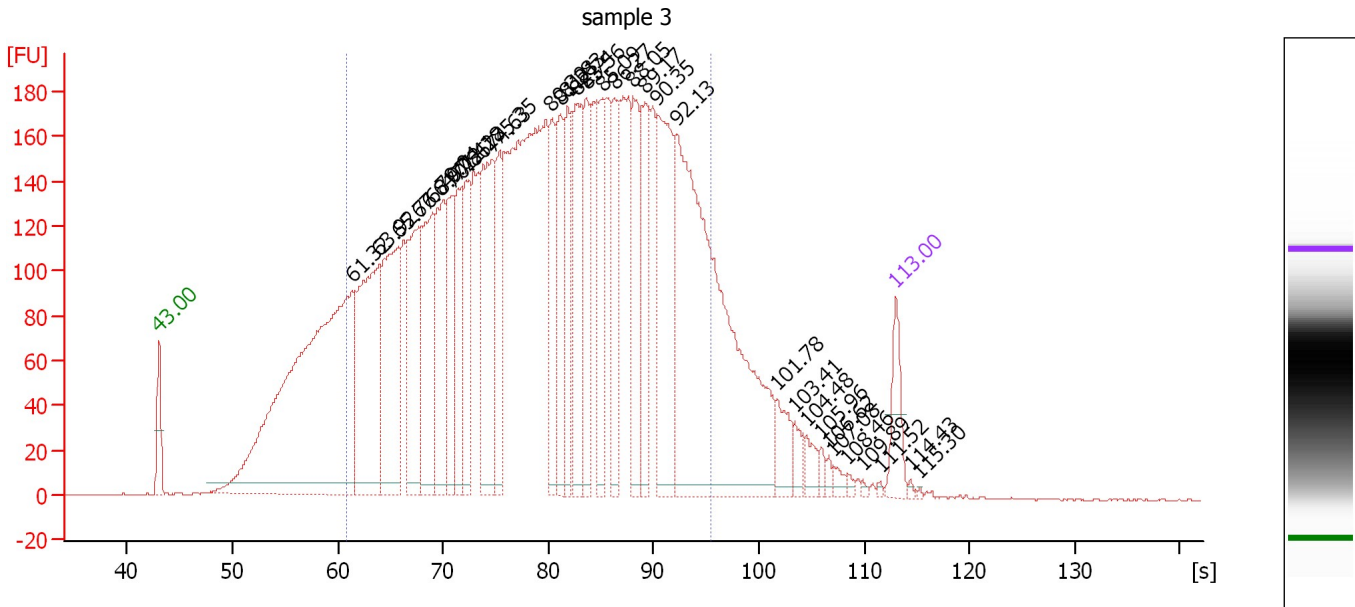
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	475	7,884.33	6,655.5	31,501.1	79	39.5

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 33 Corr. Area 1: 6,561.8
 Noise: 0.3

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	205	1,753.70	12,990.4		61.32
3	232	591.11	3,856.3		63.92
4	252	488.14	2,937.3		65.76
5	272	392.67	2,188.1		67.64
6	286	356.41	1,888.0		68.97
7	297	290.78	1,481.3		70.04
8	307	234.54	1,156.4		70.86
9	314	191.50	922.9		71.42
10	324	250.43	1,170.7		72.18
11	355	393.18	1,677.2		74.63
12	364	204.54	850.8		75.35
13	438	187.97	650.3		80.30
14	454	230.50	768.8		81.21
15	465	189.01	615.6		81.83
16	482	291.44	917.0		82.74
17	496	203.73	622.3		83.56
18	527	238.56	685.6		85.09
19	552	216.38	594.4		86.27
20	589	203.42	523.6		88.05
21	620	224.16	548.1		89.17
22	660	405.90	932.1		90.35
23	746	1,232.56	2,504.8		92.13
24	2,100	59.91	43.2		101.78
25	2,658	31.70	18.1		103.41

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Electropherogram Summary Continued ...

... Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,053	29.21	14.5		104.48
27	4,162	12.60	4.6		105.96
28	4,660	10.09	3.3		106.62
29	5,004	15.01	4.5		107.08
30	6,037	6.13	1.5		108.46
31	7,150	4.28	0.9		109.89
32	8,844	3.71	0.6		111.52
33	10,380	75.00	10.9	Upper Marker	113.00
34	11,863	0.00	0.0		114.43
35	12,763	0.00	0.0		115.30

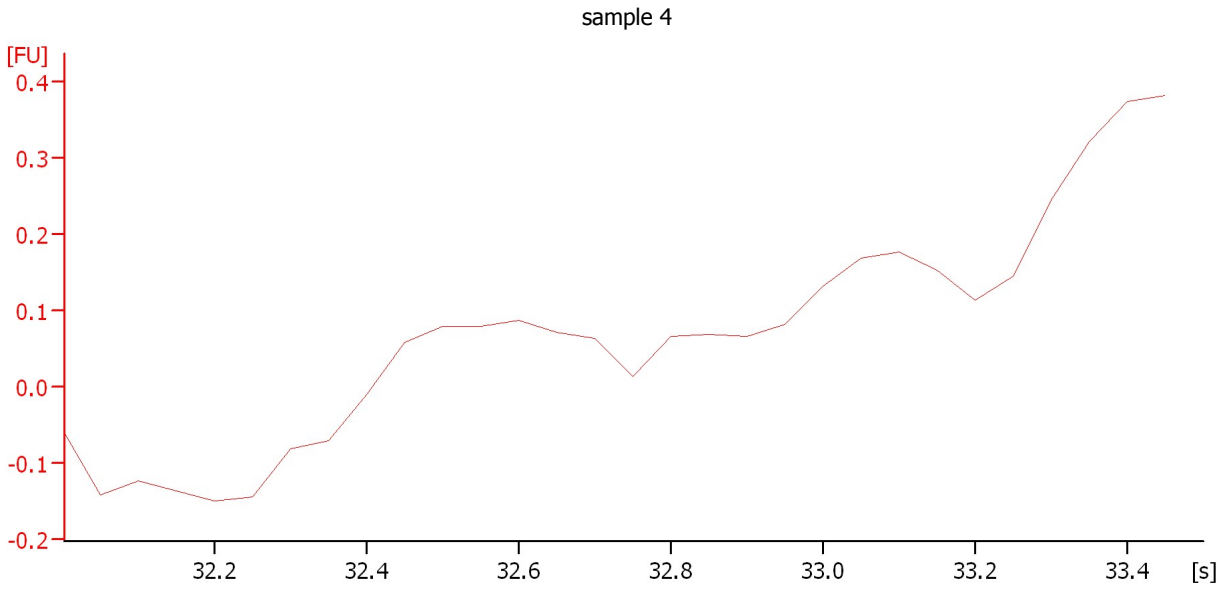
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	467	9,142.43	6,561.8	36,956.9	80	39.4

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Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : sample 4

End Analysis Time Range [s] : 33.5

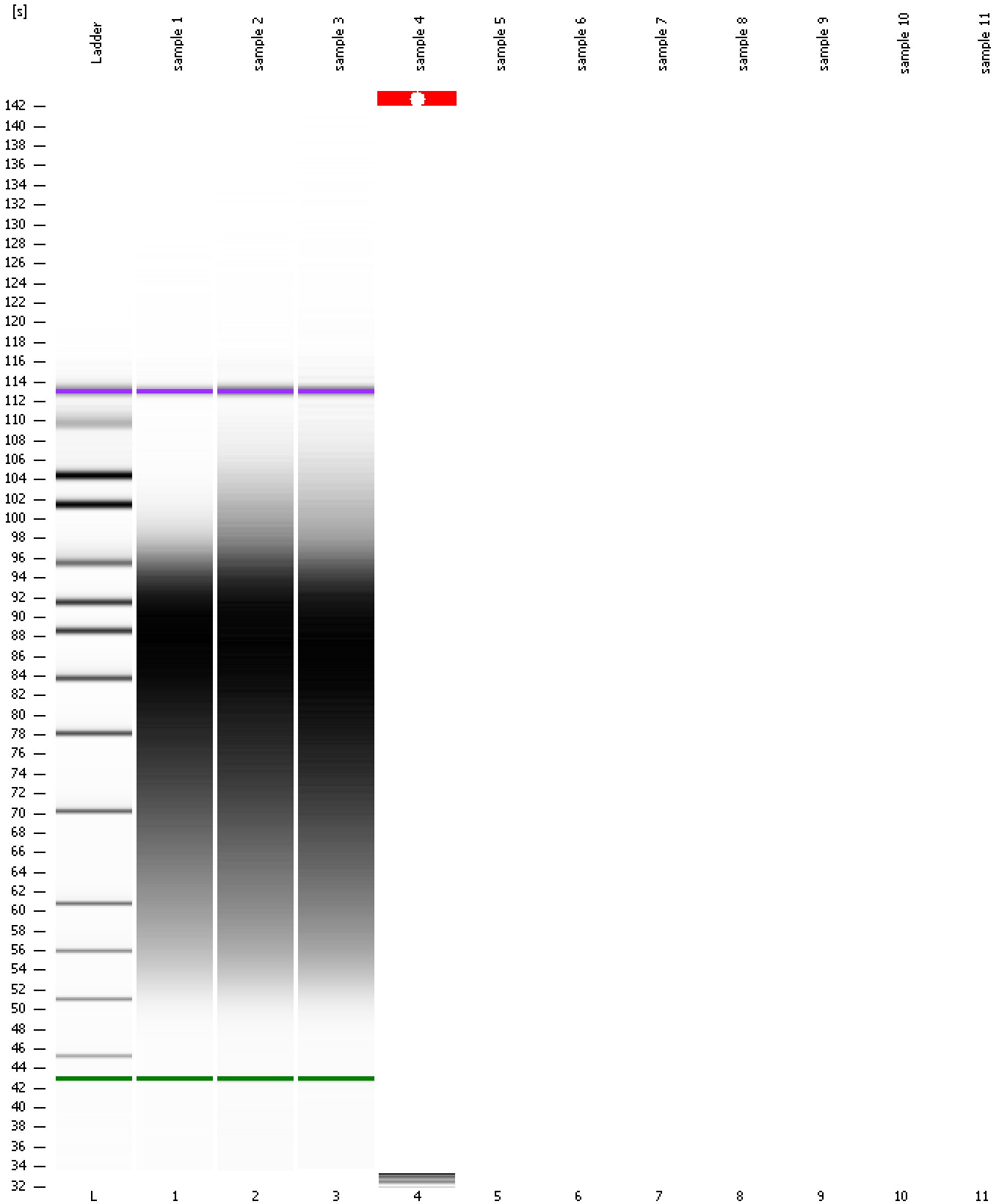
Overall Results for sample 4 : sample 4

Noise: 0.4

Assay Class: High Sensitivity DNA Assay
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Gel Image



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Invalid Samples

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

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Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run aborted on port 1		Instrument	Run		8/13/2019 2:09:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-08-13\2019-08-13_002.xad)		Instrument	Run		8/13/2019 1:50:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/13/2019 1:50:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/13/2019 1:50:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/13/2019 1:50:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/13/2019 1:50:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/13/2019 1:50:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/13/2019 1:50:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1