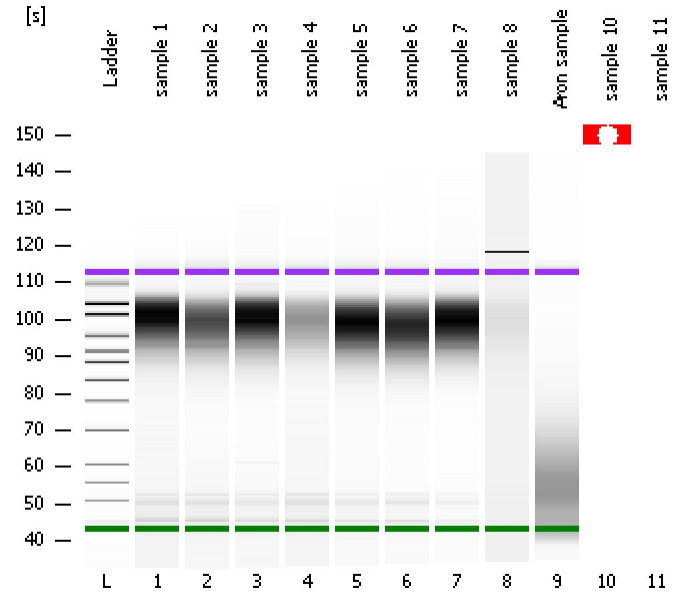
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 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\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

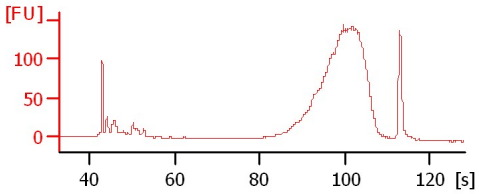
Chip Information:

Chip Lot #:

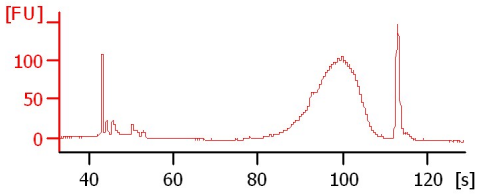
Reagent Kit Lot #:

Chip Comments:

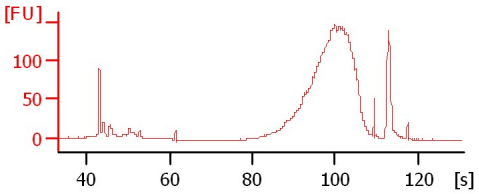
sample 1



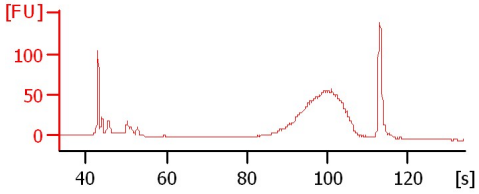
sample 2



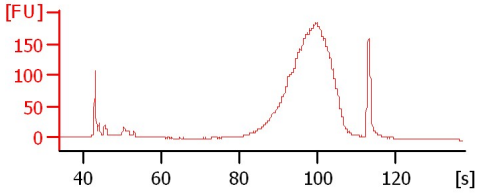
sample 3



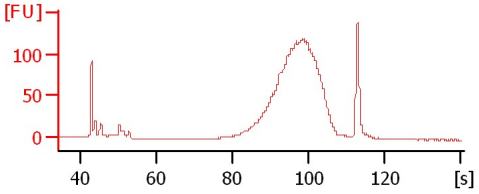
sample 4



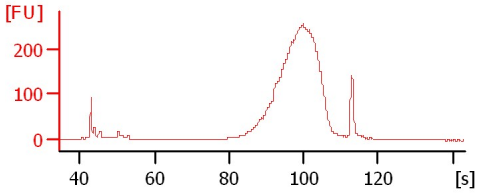
sample 5



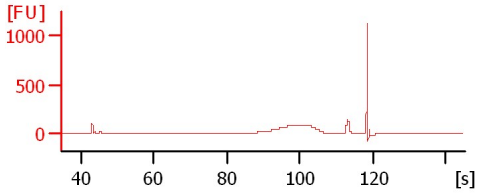
sample 6



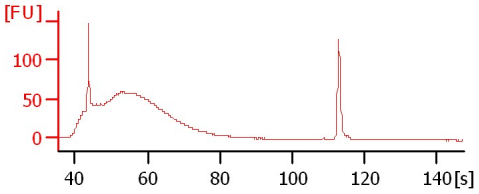
sample 7



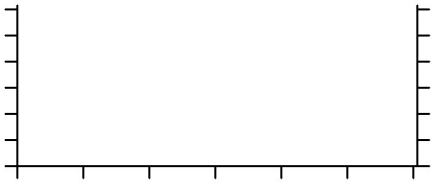
sample 8



Aron sample



sample 10



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		☐	✓			
sample 2		☐	✓			
sample 3		☐	✓			
sample 4		☐	✓			
sample 5		☐	✓			
sample 6		☐	✓			
sample 7		☐	✓			
sample 8		☐	✓			
Aron sample		☐	✓			
sample 10		☐	✗			
sample 11		☐	✗			
Ladder		☐	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 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

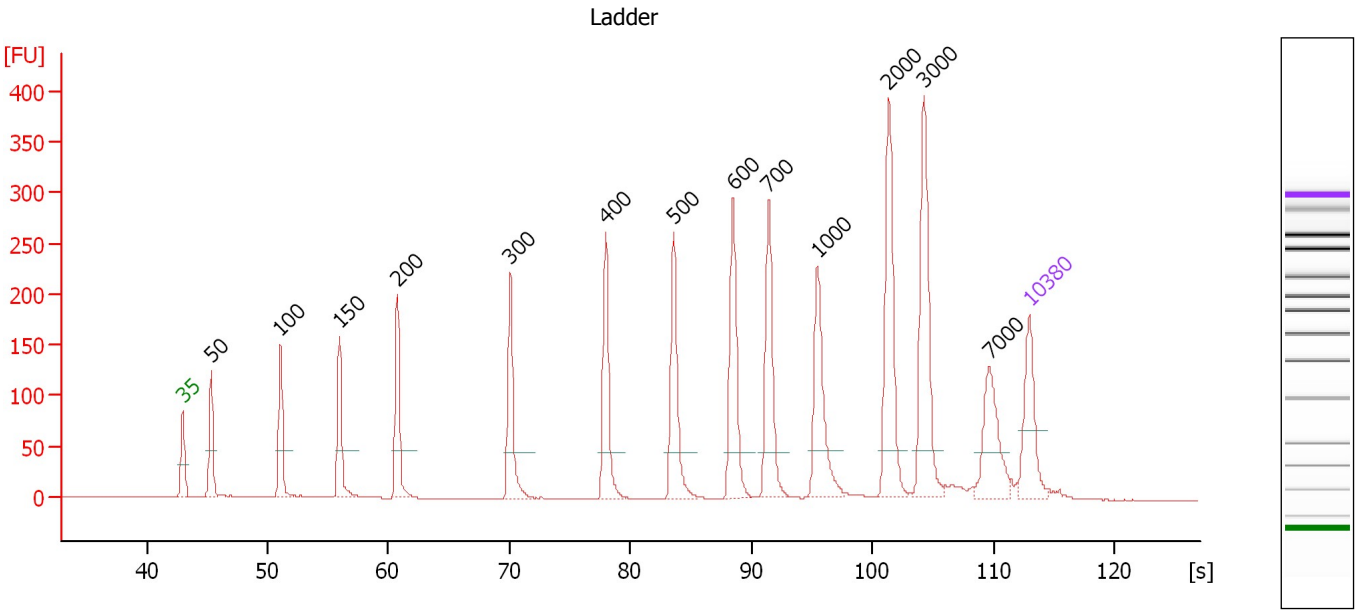
Ladder

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:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

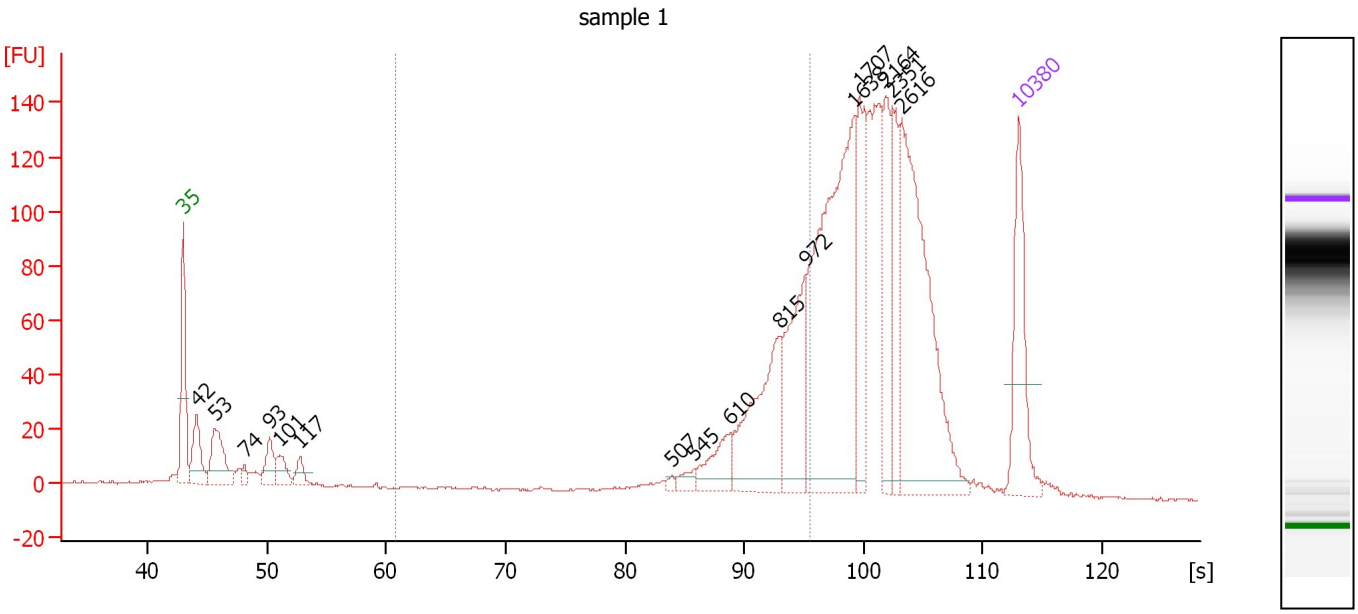
Peak table for Ladder

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	45.35
3		100	150.00	2,272.7	Ladder Peak	51.08
4		150	150.00	1,515.2	Ladder Peak	55.96
5		200	150.00	1,136.4	Ladder Peak	60.76
6		300	150.00	757.6	Ladder Peak	70.08
7		400	150.00	568.2	Ladder Peak	77.98
8		500	150.00	454.5	Ladder Peak	83.57
9		600	150.00	378.8	Ladder Peak	88.50
10		700	150.00	324.7	Ladder Peak	91.43
11		1,000	150.00	227.3	Ladder Peak	95.47
12		2,000	150.00	113.6	Ladder Peak	101.37
13		3,000	150.00	75.8	Ladder Peak	104.26
14		7,000	150.00	32.5	Ladder Peak	109.67
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found:	16	Corr. Area 1:	438.6
Noise:	0.4		

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	42	60.24	2,164.4		44.12
3	53	74.91	2,156.5		45.65
4	74	8.79	179.5		48.13
5	93	34.70	567.2		50.24
6	101	25.41	382.5		51.14
7	117	18.82	243.3		52.76
8	507	3.71	11.1		83.94
9	545	10.38	28.9		85.78
10	610	37.62	93.4		88.80
11	815	126.90	235.8		92.98
12	972	102.78	160.1		95.10
13	1,638	300.18	277.6		99.23
14	1,707	83.18	73.8		99.64
15	2,164	63.75	44.6		101.84
16	2,351	57.94	37.3		102.38
17	2,616	233.00	134.9		103.15
18	10,380	75.00	10.9	Upper Marker	113.00

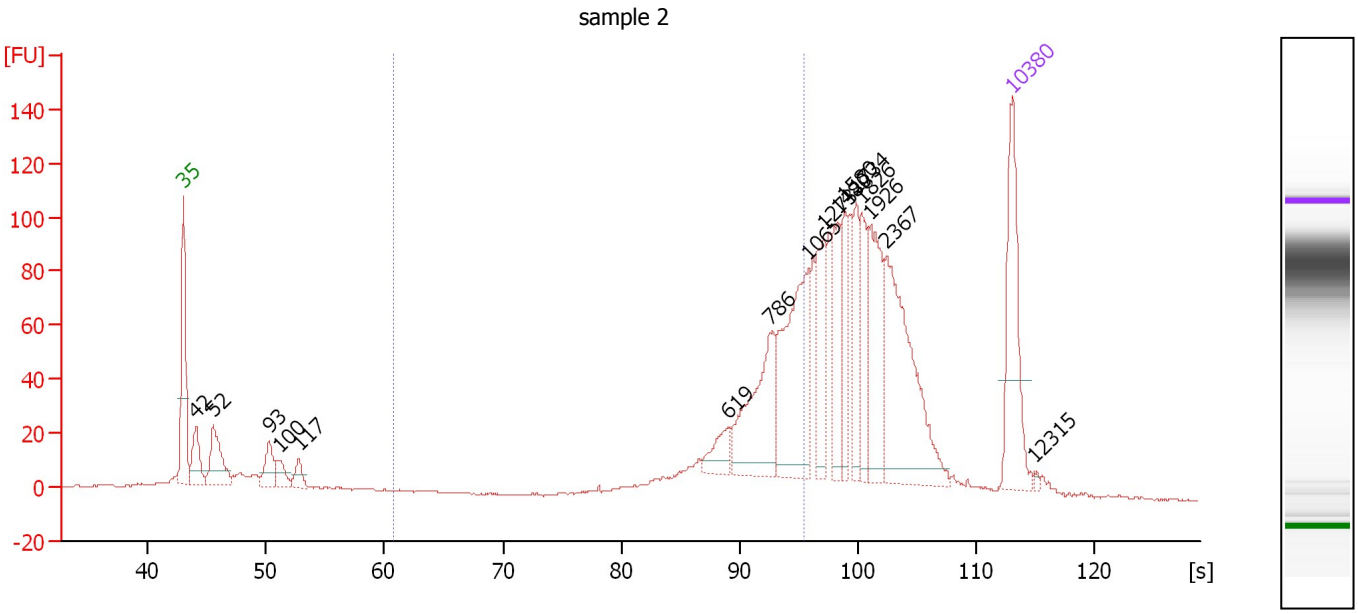
Region table for sample 1 : sample 1

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	768	325.52	438.6	681.6	21	19.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found:	16	Corr. Area 1:	468.9
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	42	42.55	1,536.9		44.09
3	52	60.61	1,778.3		45.54
4	93	33.51	547.0		50.26
5	100	19.10	288.1		51.12
6	117	16.78	217.0		52.75
7	619	22.32	54.7		89.05
8	786	94.64	182.4		92.59
9	1,065	119.45	169.9		95.85
10	1,273	49.64	59.1		97.08
11	1,480	47.09	48.2		98.30
12	1,580	34.84	33.4		98.89
13	1,734	37.28	32.6		99.80
14	1,826	32.91	27.3		100.34
15	1,926	68.94	54.2		100.93
16	2,367	126.45	80.9		102.43
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,315	0.00	0.0		114.91

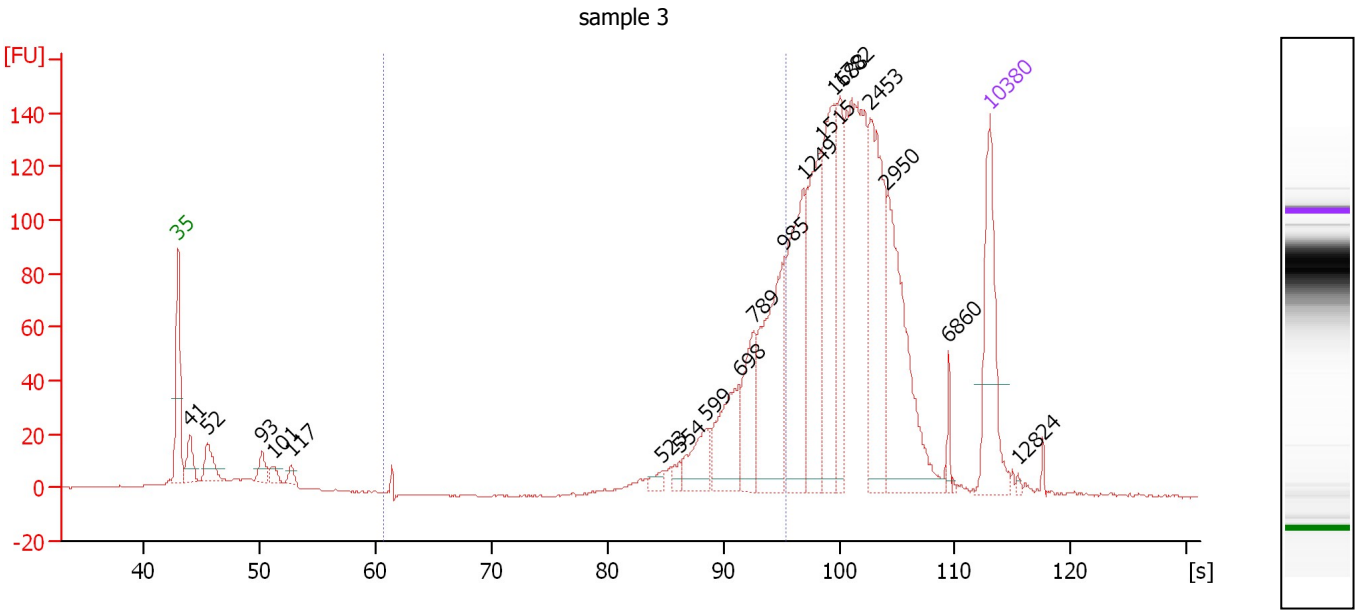
Region table for sample 2 : sample 2

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	760	314.96	468.9	664.9	28	20.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found:	19	Corr. Area 1:	475.7
Noise:	0.4		

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	41	32.34	1,180.9		44.02
3	52	32.01	938.2		45.55
4	93	17.43	284.2		50.27
5	101	11.24	168.2		51.19
6	117	8.61	111.2		52.77
7	523	7.72	22.4		84.71
8	554	7.34	20.1		86.24
9	599	35.53	89.8		88.46
10	698	67.21	145.8		91.38
11	789	56.46	108.4		92.63
12	985	119.50	183.8		95.27
13	1,249	117.79	142.9		96.94
14	1,515	109.42	109.4		98.51
15	1,688	107.28	96.3		99.53
16	1,782	56.34	47.9		100.08
17	2,453	116.13	71.7		102.68
18	2,950	128.79	66.2		104.11
19	6,860	8.49	1.9		109.48
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,824	0.00	0.0		115.41

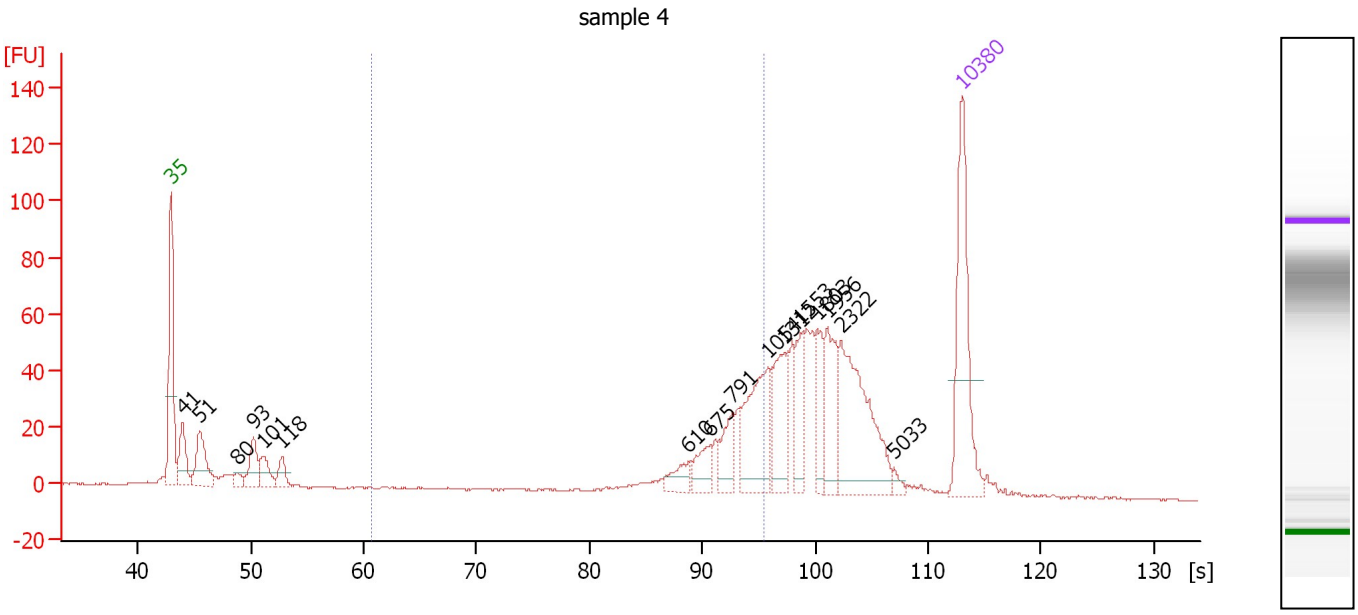
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	765	331.68	475.7	699.5	23	19.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found:	16	Corr. Area 1:	226.0
Noise:	0.3		

Peak table for sample 4 : sample 4

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	41	42.20	1,545.7		44.00
3	51	50.34	1,494.2		45.47
4	80	7.81	147.8		48.80
5	93	31.00	507.4		50.23
6	101	22.47	337.0		51.18
7	118	16.00	206.2		52.80
8	610	14.70	36.5		88.79
9	675	19.42	43.6		90.70
10	791	25.09	48.1		92.65
11	1,054	65.39	94.0		95.79
12	1,312	43.69	50.5		97.31
13	1,553	24.87	24.3		98.73
14	1,803	24.59	20.7		100.21
15	1,956	37.73	29.2		101.11
16	2,322	87.35	57.0		102.30
17	5,033	4.02	1.2		107.01
18	10,380	75.00	10.9	Upper Marker	113.00

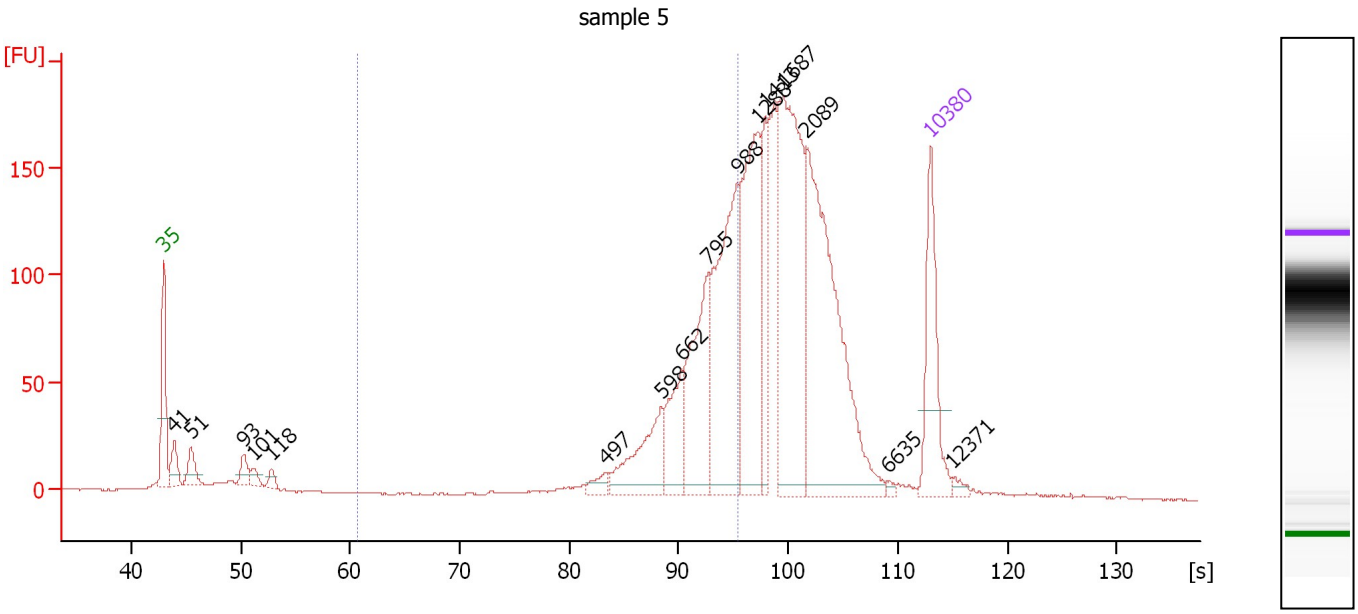
Region table for sample 4 : sample 4

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	764	150.20	226.0	321.9	23	20.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found:	16	Corr. Area 1:	826.3
Noise:	0.3		

Peak table for sample 5 : sample 5

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	41	31.55	1,167.5		43.93
3	51	29.57	881.0		45.45
4	93	20.94	340.3		50.30
5	101	11.93	178.7		51.19
6	118	9.80	125.6		52.85
7	497	11.57	35.3		83.39
8	598	75.50	191.3		88.39
9	662	57.71	132.1		90.30
10	795	124.34	237.0		92.71
11	988	196.34	301.1		95.30
12	1,288	171.89	202.2		97.17
13	1,413	59.50	63.8		97.90
14	1,687	226.03	203.1		99.52
15	2,089	259.97	188.5		101.63
16	6,635	2.73	0.6		109.18
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,371	0.00	0.0		114.96

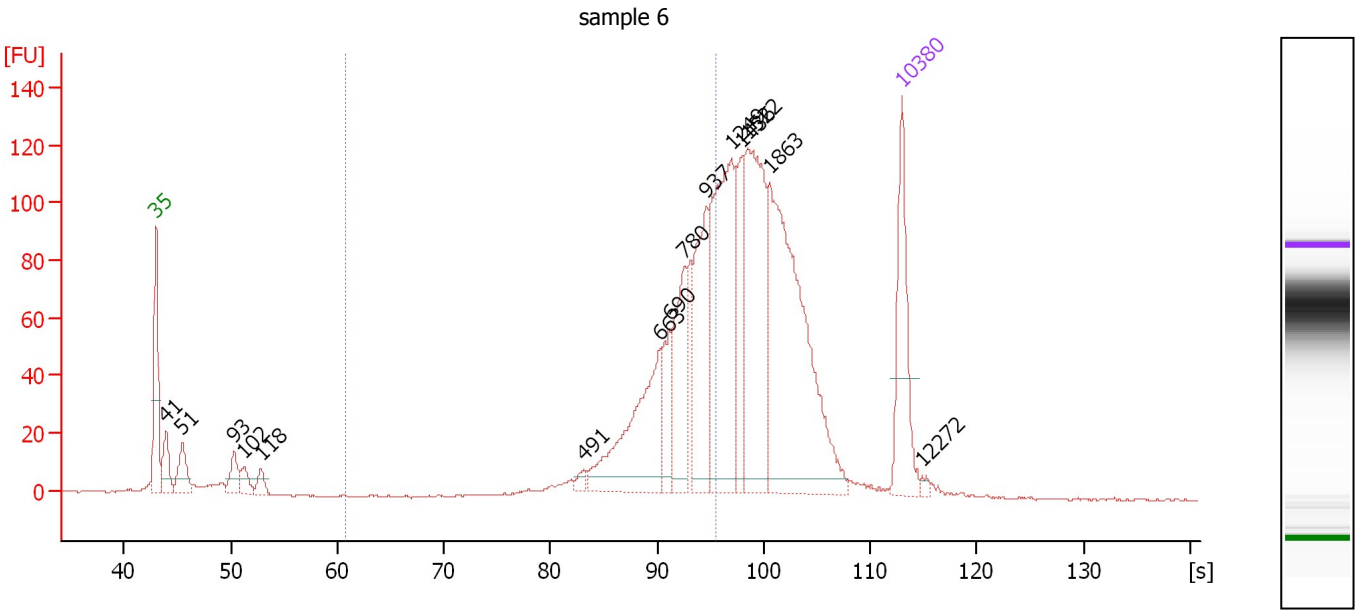
Region table for sample 5 : sample 5

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	758	487.91	826.3	1,030.8	31	20.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found:	15	Corr. Area 1:	661.6
Noise:	0.2		

Peak table for sample 6 : sample 6

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	41	42.00	1,548.3		43.96
3	51	41.70	1,238.8		45.47
4	93	29.51	479.7		50.30
5	102	19.23	286.0		51.26
6	118	14.53	186.8		52.82
7	491	6.62	20.4		83.09
8	663	137.91	315.2		90.34
9	690	43.97	96.5		91.14
10	780	83.24	161.7		92.50
11	937	105.93	171.3		94.62
12	1,249	185.85	225.5		96.94
13	1,436	58.46	61.7		98.04
14	1,522	165.12	164.4		98.55
15	1,863	262.88	213.8		100.56
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,272	0.00	0.0		114.86

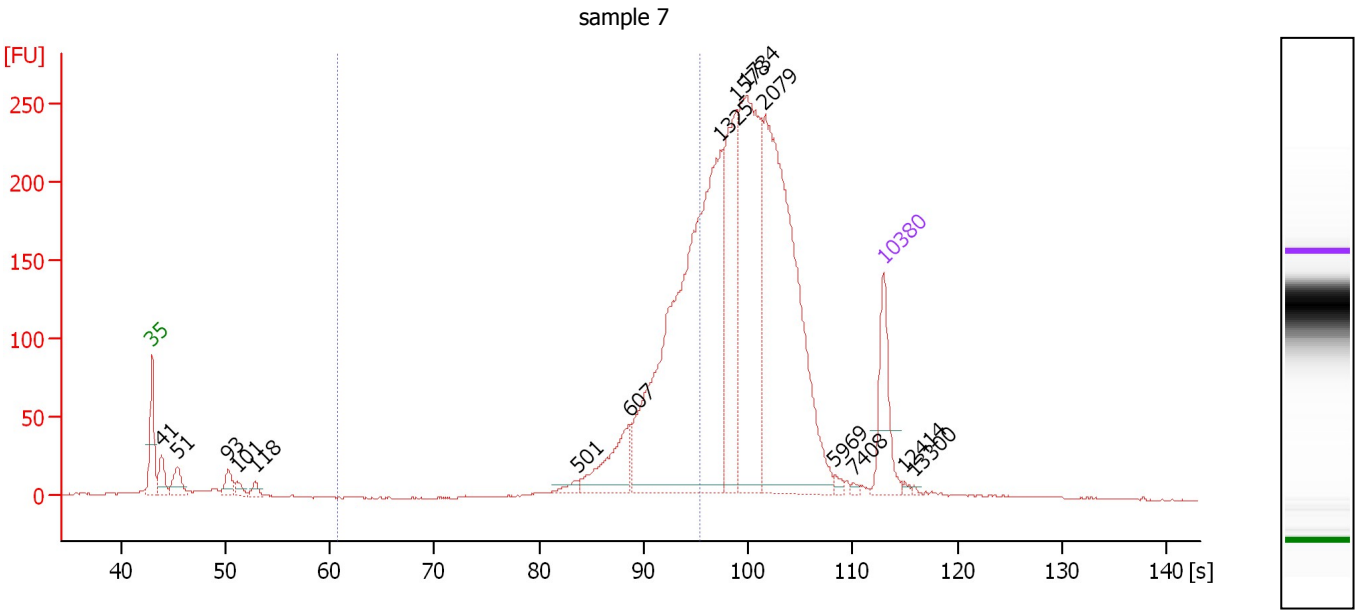
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	751	491.96	661.6	1,049.1	36	20.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found:	15	Corr. Area 1:	970.2
Noise:	0.2		

Peak table for sample 7 : sample 7

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	41	46.78	1,733.1		43.92
3	51	43.80	1,301.8		45.47
4	93	30.92	503.1		50.29
5	101	17.54	263.4		51.17
6	118	14.40	184.5		52.86
7	501	10.40	31.4		83.62
8	607	89.31	222.9		88.71
9	1,325	731.60	836.4		97.39
10	1,578	193.28	185.6		98.88
11	1,734	366.50	320.2		99.80
12	2,079	506.97	369.4		101.60
13	5,969	5.84	1.5		108.28
14	7,408	2.94	0.6		110.07
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,414	0.00	0.0		115.00
17	13,300	0.00	0.0		115.88

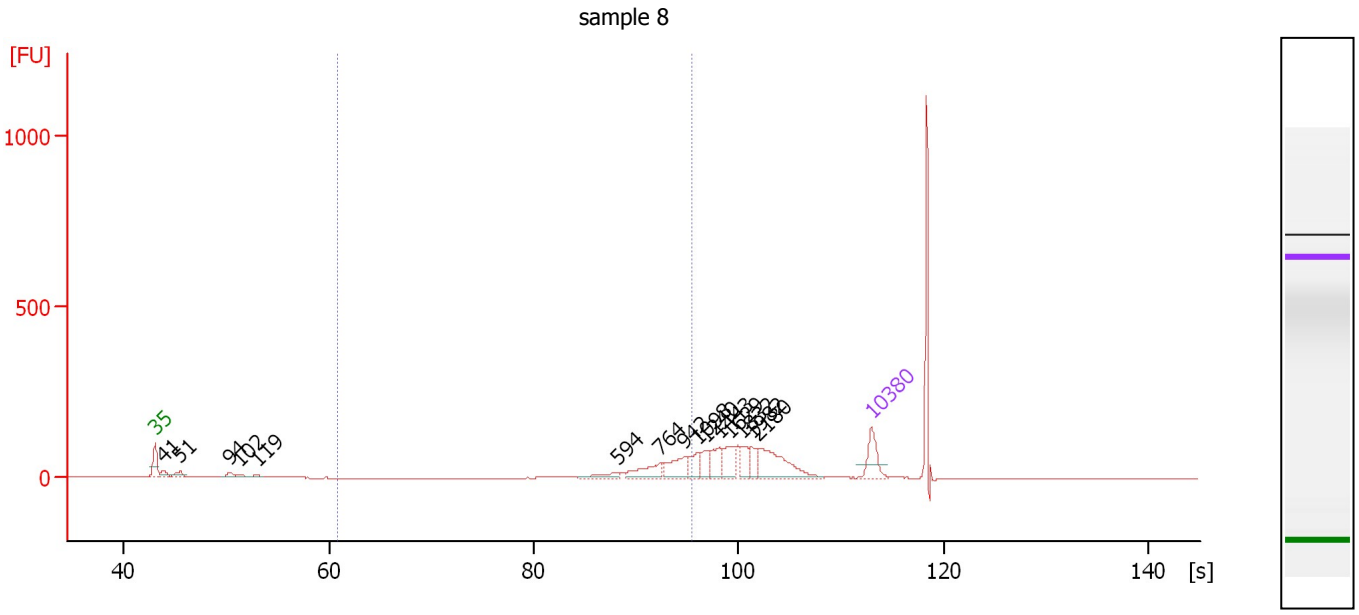
Region table for sample 7 : sample 7

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	770	681.03	970.2	1,406.4	28	19.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found:	15	Corr. Area 1:	359.3
Noise:	0.2		

Peak table for sample 8 : sample 8

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	41	36.96	1,377.4		43.89
3	51	42.11	1,254.2		45.45
4	94	26.49	428.4		50.35
5	102	20.25	301.7		51.24
6	119	15.14	193.1		52.91
7	594	33.50	85.4		88.22
8	764	82.21	163.0		92.29
9	942	85.59	137.6		94.69
10	1,098	56.26	77.6		96.05
11	1,240	48.18	58.9		96.88
12	1,443	61.26	64.3		98.08
13	1,629	66.68	62.0		99.18
14	1,832	44.99	37.2		100.38
15	1,982	42.15	32.2		101.26
16	2,180	160.26	111.4		101.89
17	10,380	75.00	10.9	Upper Marker	113.00

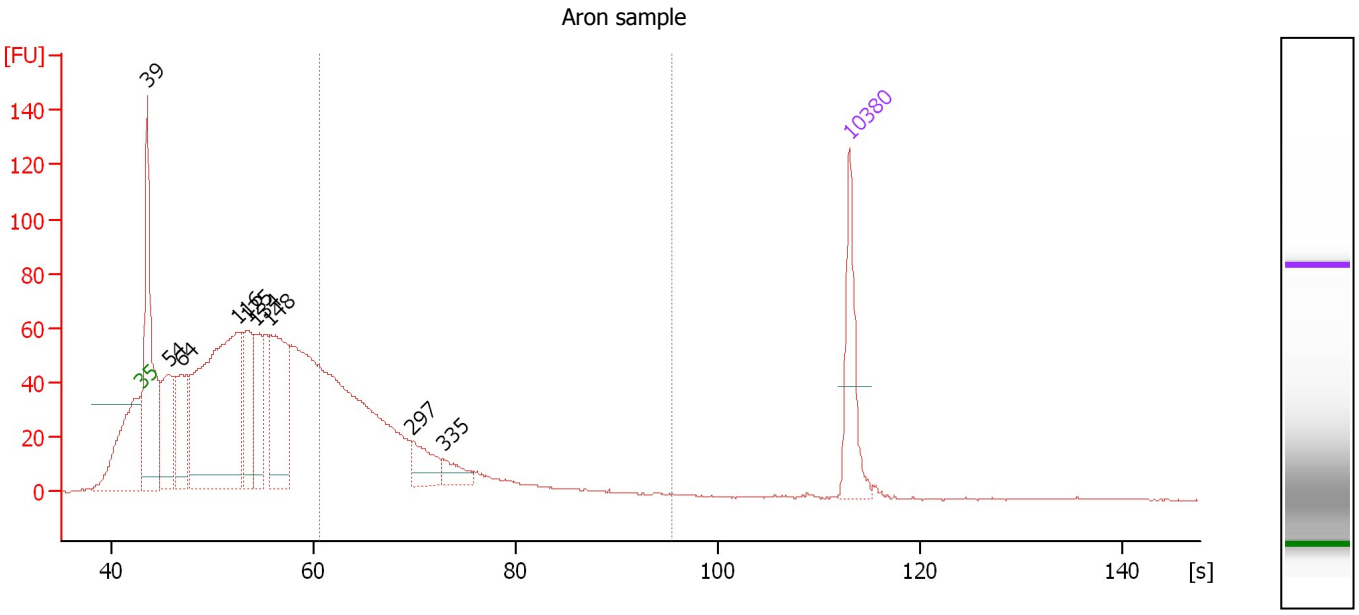
Region table for sample 8 : sample 8

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	766	249.40	359.3	517.2	22	19.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Aron sample

Number of peaks found:	9	Corr. Area 1:	641.0
Noise:	0.2		

Peak table for sample 9 : Aron sample

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	39	373.23	14,477.5		43.64
3	54	157.28	4,411.4		45.81
4	64	137.02	3,233.2		46.98
5	116	641.10	8,400.0		52.61
6	125	131.19	1,591.7		53.51
7	134	118.94	1,349.2		54.36
8	148	252.87	2,594.0		55.74
9	297	55.60	283.6		69.80
10	335	28.90	130.8		72.83
11	10,380	75.00	10.9	Upper Marker	113.00

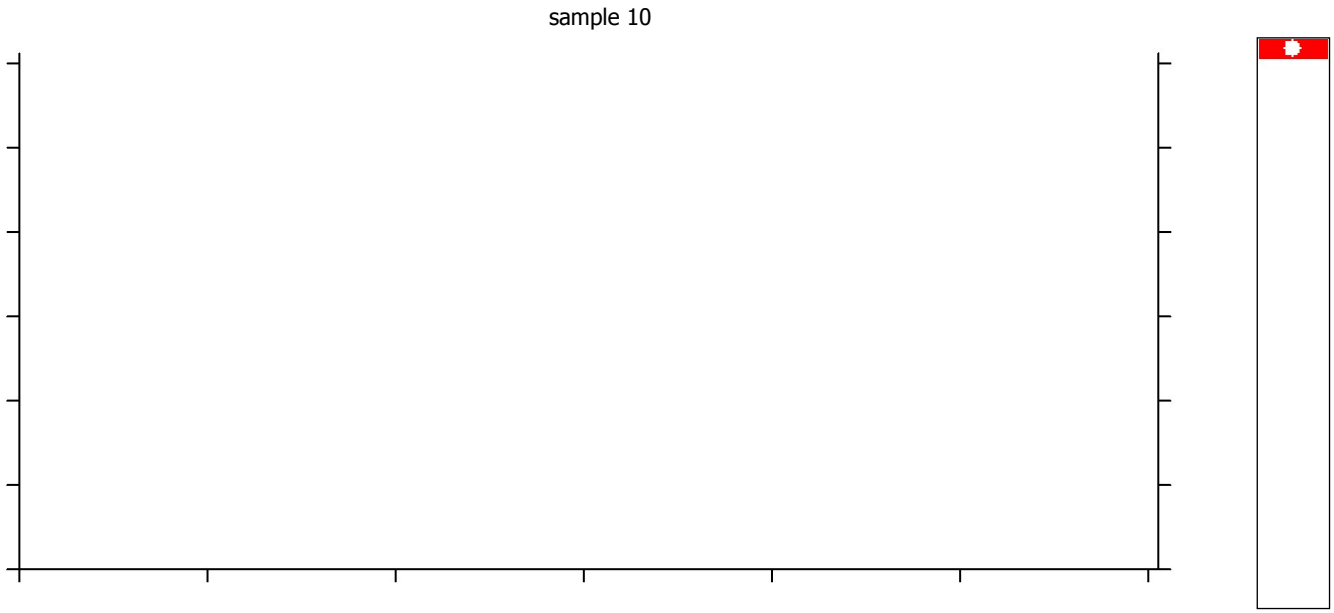
Region table for sample 9 : Aron sample

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	289	656.28	641.0	3,758.8	25	33.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : sample 10

End Analysis Time Range [s] : 26.15

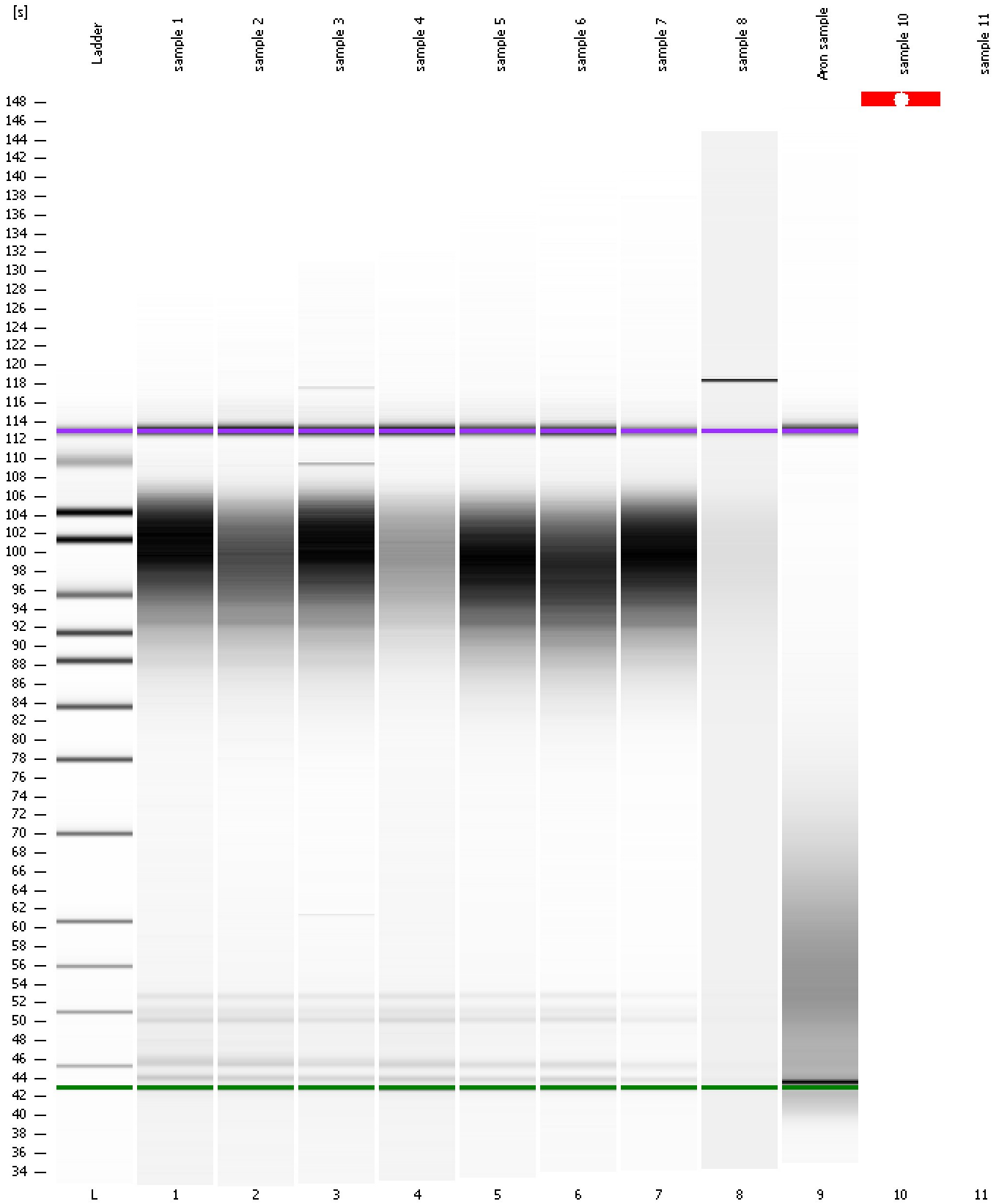
Overall Results for sample 10 : sample 10

Noise: 0.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2019-05-03\2019-05-03_001_single_cell_run_1.xad

Created: 5/3/2019 10:52:09 AM
Modified: 5/3/2019 11:29:13 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run aborted on port 1		Instrument	Run		5/3/2019 11:28:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-05-03\2019-05-03_001.xad)		Instrument	Run		5/3/2019 10:52:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		5/3/2019 10:52:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/3/2019 10:52:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/3/2019 10:52:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		5/3/2019 10:52:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/3/2019 10:52:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/3/2019 10:52:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1