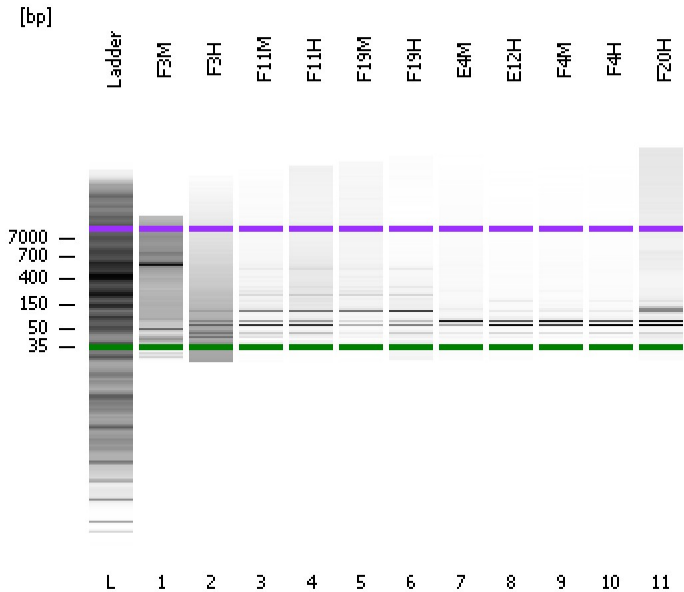


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
Modified: 8/6/2019 2:14:01 PM

Electrophoresis File Run Summary



Instrument Information:

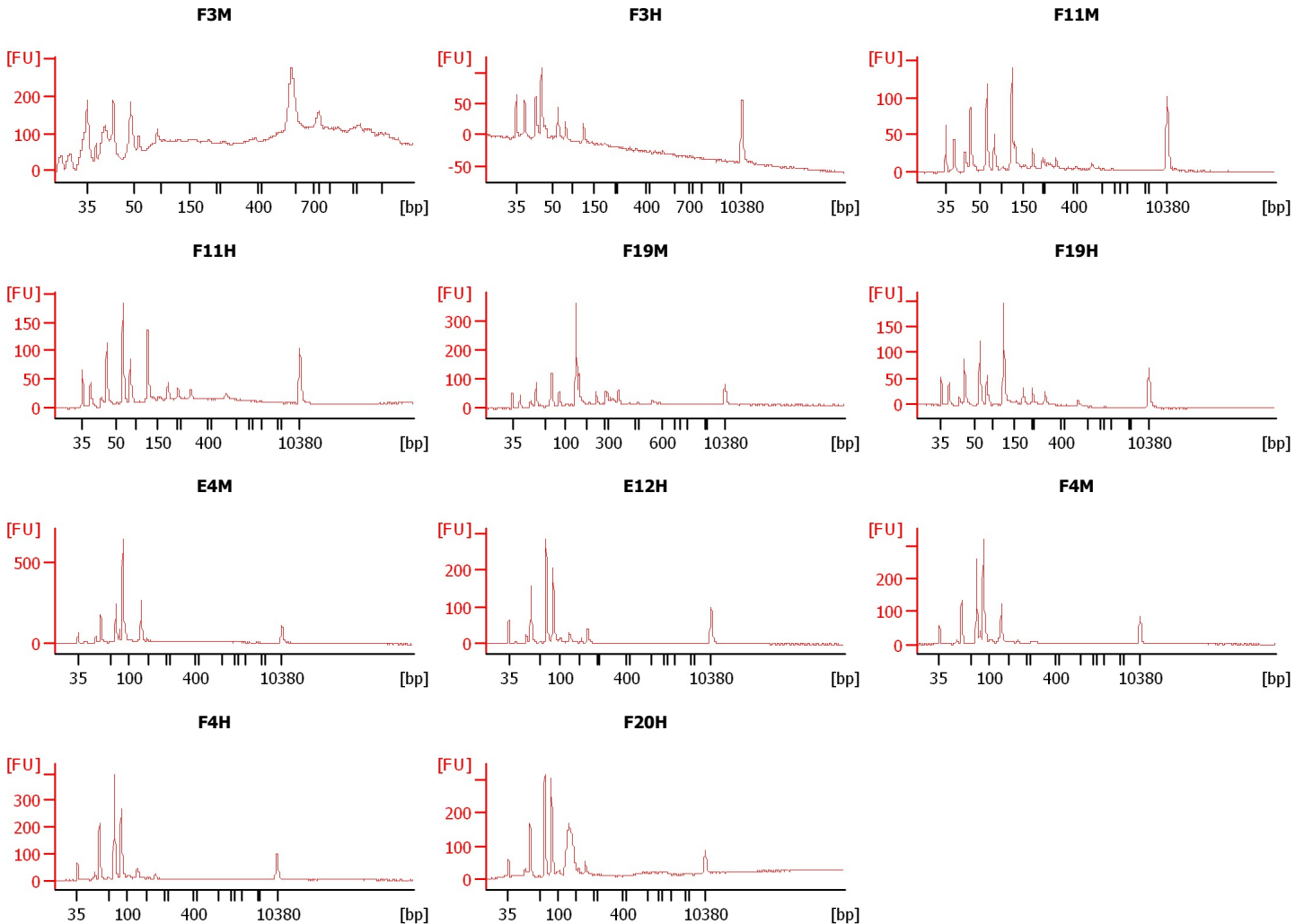
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
F3M		<input type="checkbox"/>	✓			
F3H		<input type="checkbox"/>	✓			
F11M		<input type="checkbox"/>	✓			
F11H		<input type="checkbox"/>	✓			
F19M		<input type="checkbox"/>	✓			
F19H		<input type="checkbox"/>	✓			
E4M		<input type="checkbox"/>	✓			
E12H		<input type="checkbox"/>	✓			
F4M		<input type="checkbox"/>	✓			
F4H		<input type="checkbox"/>	✓			
F20H		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
Modified: 8/6/2019 2:14:01 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

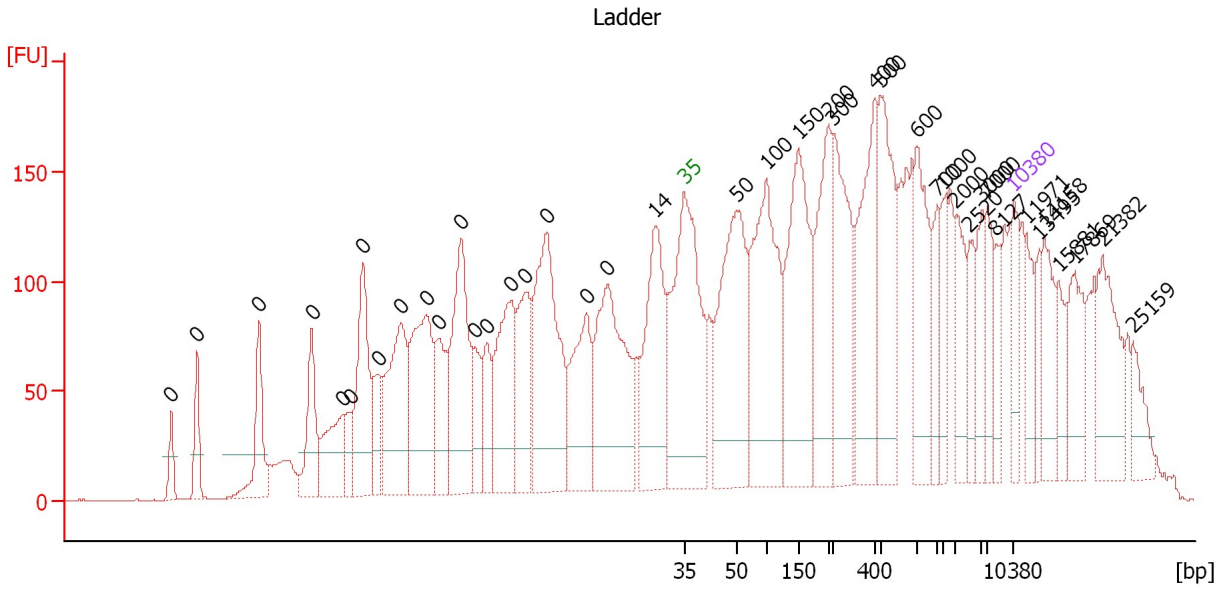
Ladder

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:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		-65.79
2	0	0.00	0.0		-60.25
3	0	0.00	0.0		-47.13
4	0	0.00	0.0		-35.93
5	0	0.00	0.0		-29.37
6	0	0.00	0.0		-27.68
7	0	0.00	0.0		-25.08
8	0	0.00	0.0		-21.91
9	0	0.00	0.0		-17.05
10	0	0.00	0.0		-11.62
11	0	0.00	0.0		-9.02
12	0	0.00	0.0		-4.16
13	0	0.00	0.0		-1.33
14	0	0.00	0.0		1.16
15	0	0.00	0.0		6.36
16	0	0.00	0.0		9.41
17	0	0.00	0.0		13.94
18	0	0.00	0.0		22.31
19	0	0.00	0.0		26.72
20	14	0.00	0.0		37.01
21	35	125.00	5,411.3	Lower Marker	43.00
22	50	150.00	4,545.5	Ladder Peak	54.08
23	100	150.00	2,272.7	Ladder Peak	60.42
24	150	150.00	1,515.2	Ladder Peak	67.31
25	200	150.00	1,136.4	Ladder Peak	73.65
26	300	150.00	757.6	Ladder Peak	74.55
27	400	150.00	568.2	Ladder Peak	83.48

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
Modified: 8/6/2019 2:14:01 PM

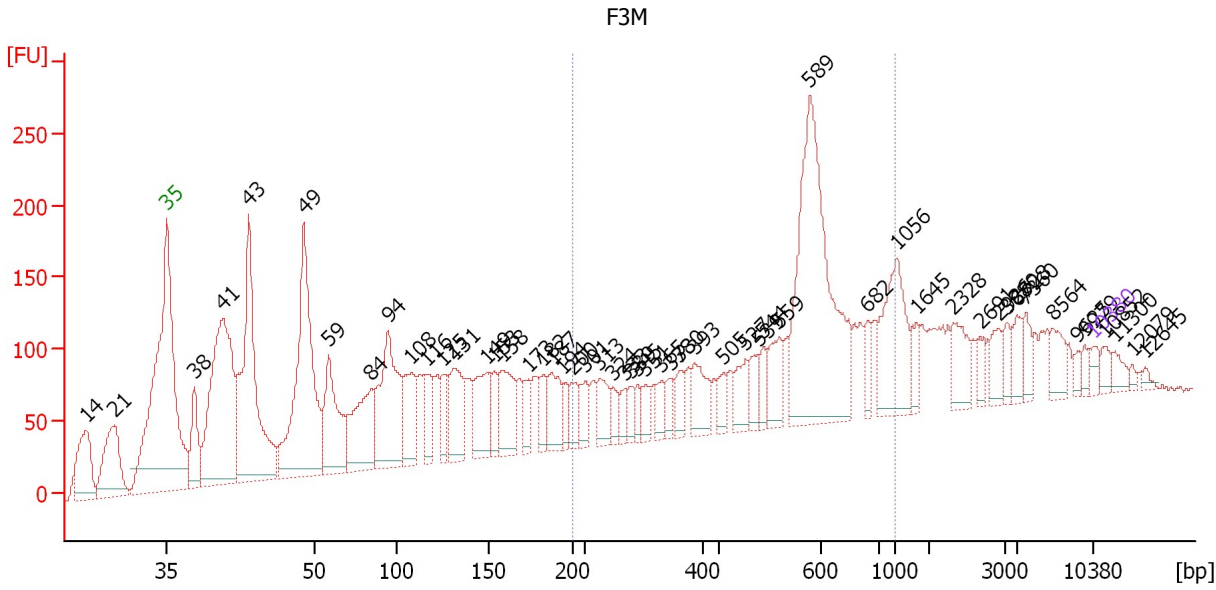
Electropherogram Summary Continued ...**... Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
28	L 500	150.00	454.5	Ladder Peak	84.62
29	L 600	150.00	378.8	Ladder Peak	92.42
30	L 700	150.00	324.7	Ladder Peak	96.72
31	L 1,000	150.00	227.3	Ladder Peak	97.96
32	L 2,000	150.00	113.6	Ladder Peak	100.56
33	2,520	0.00	0.0		103.50
34	L 3,000	150.00	75.8	Ladder Peak	106.21
35	L 7,000	150.00	32.5	Ladder Peak	107.23
36	8,127	0.00	0.0		109.16
37	▶ 10,380	75.00	10.9	Upper Marker	113.00
38	11,971	0.00	0.0		115.71
39	13,495	0.00	0.0		118.32
40	14,158	0.00	0.0		119.45
41	15,881	0.00	0.0		122.39
42	17,869	0.00	0.0		125.78
43	21,382	0.00	0.0		131.77
44	25,159	0.00	0.0		138.22

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : F3M

Number of peaks found: 54 Corr. Area 1: 1,764.3
 Noise: 2.0

Peak table for sample 1 : F3M

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	14	0.00	0.0		36.92
2	21	0.00	0.0		39.01
3	35	125.00	5,411.2	Lower Marker	43.00
4	38	741.71	29,704.1		45.09
5	41	3,763.86	140,047.3		47.23
6	43	3,382.53	118,114.8		49.20
7	49	3,331.70	103,016.6		53.35
8	59	1,288.15	33,015.7		55.24
9	84	1,233.69	22,193.8		58.42
10	94	1,808.42	29,027.9		59.71
11	108	739.76	10,408.0		61.48
12	116	473.38	6,175.1		62.64
13	125	344.68	4,171.4		63.89
14	131	839.92	9,690.7		64.74
15	149	758.99	7,726.9		67.15
16	153	300.43	2,971.8		67.72
17	158	746.39	7,160.3		68.32
18	173	298.23	2,609.0		70.25
19	182	241.18	2,003.3		71.42
20	187	494.13	3,993.1		72.06
21	194	200.14	1,561.8		72.91
22	200	268.49	2,038.4		73.59
23	301	247.17	1,246.1		74.60
24	313	333.94	1,618.1		75.69
25	324	165.45	773.8		76.69

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : F3M

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	333	138.75	630.5		77.54
27	339	131.48	588.0		78.02
28	345	129.59	569.6		78.54
29	351	157.84	680.5		79.15
30	365	168.05	697.6		80.35
31	373	150.55	612.2		81.04
32	380	202.37	806.3		81.72
33	393	378.06	1,456.2		82.89
34	505	159.30	477.7		85.02
35	527	260.12	748.0		86.71
36	539	211.26	593.5		87.68
37	544	167.61	466.9		88.04
38	559	352.92	955.9		89.25
39	589	2,783.38	7,162.3		91.55
40	682	158.60	352.5		95.93
41	1,056	822.88	1,180.2		98.11
42	1,645	148.92	137.2		99.64
43	2,328	272.44	177.3		102.41
44	2,691	87.35	49.2		104.47
45	2,926	152.36	78.9		105.79
46	3,880	111.44	43.5		106.44
47	6,728	165.78	37.3		107.16
48	7,360	143.00	29.4		107.85
49	8,564	173.83	30.8		109.90
50	9,625	47.88	7.5		111.71
51	9,979	58.43	8.9		112.32
52	10,380	75.00	10.9	Upper Marker	113.00
53	10,852	0.00	0.0		113.81
54	11,300	0.00	0.0		114.57
55	12,079	0.00	0.0		115.90
56	12,645	0.00	0.0		116.86

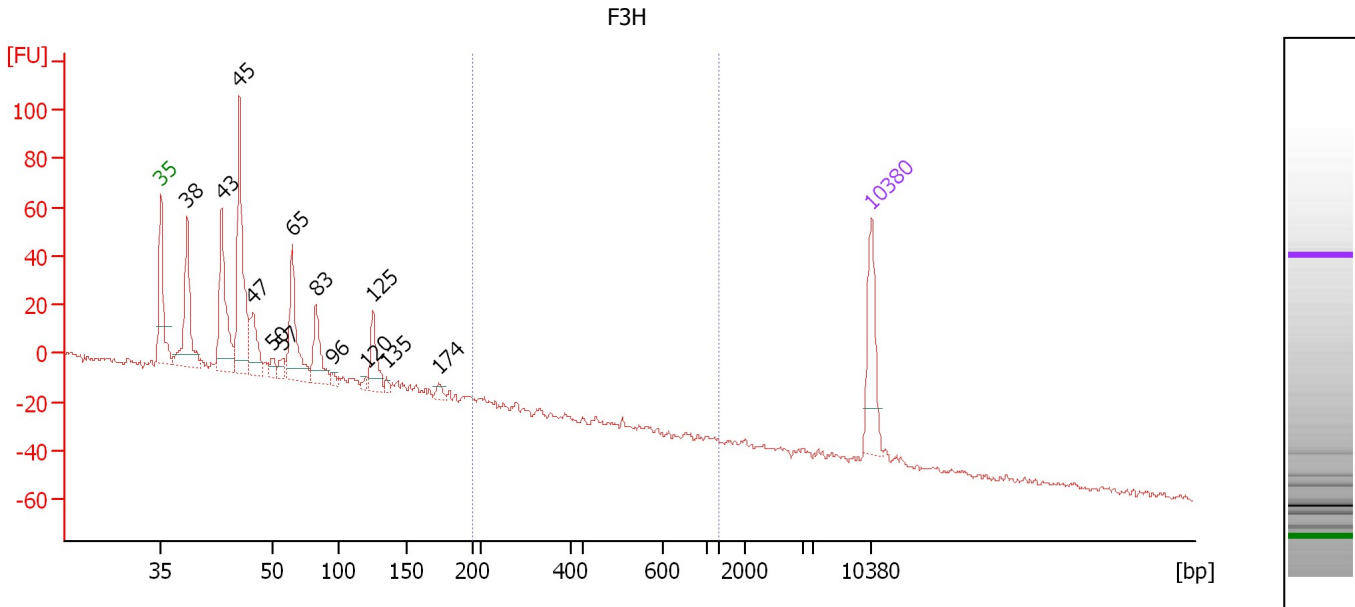
Region table for sample 1 : F3M

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	548	7,133.25	1,764.3	22,321.7	31	26.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : F3H

Number of peaks found: 13 Corr. Area 1: 17.2
 Noise: 1.0

Peak table for sample 2 : F3H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.2	Lower Marker	43.00
2	38	194.22	7,646.5		45.58
3	43	209.50	7,363.3		48.99
4	45	288.84	9,627.7		50.73
5	47	83.17	2,667.9		52.04
6	50	19.04	577.7		54.04
7	57	18.49	490.7		54.98
8	65	145.96	3,425.0		55.93
9	83	88.21	1,605.6		58.29
10	96	9.13	144.5		59.87
11	120	7.60	95.6		63.23
12	125	67.83	819.8		63.92
13	135	8.34	93.7		65.23
14	174	12.29	106.9		70.38
15	10,380	75.00	10.9	Upper Marker	113.00

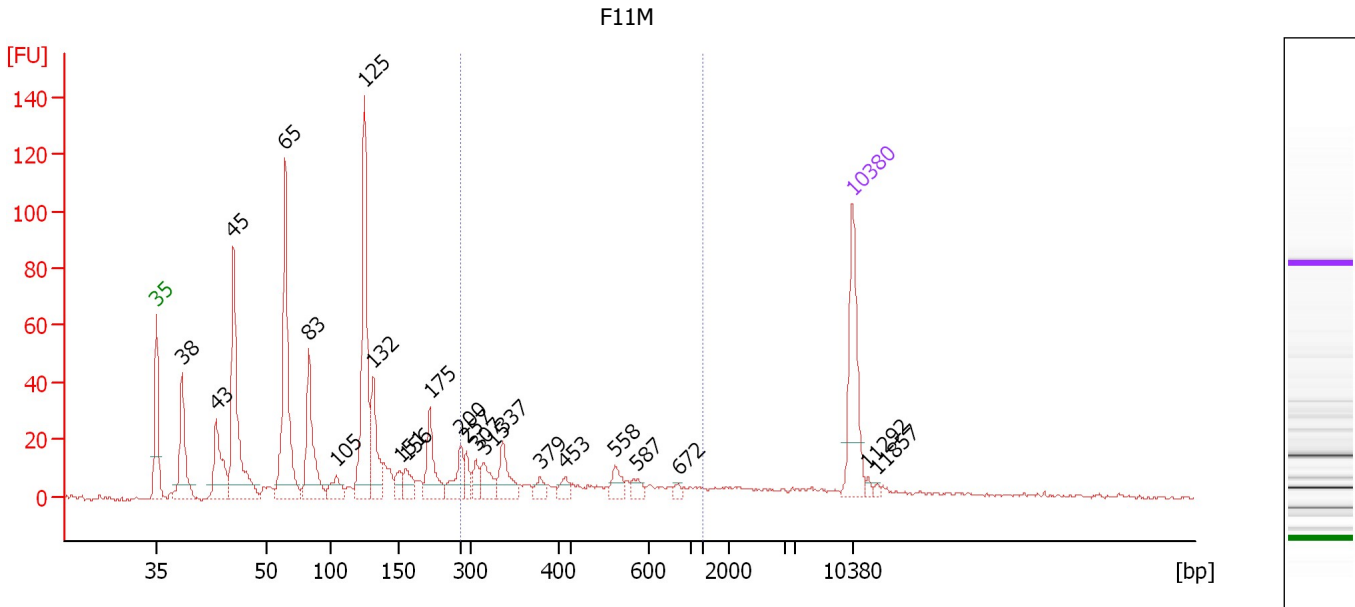
Region table for sample 2 : F3H

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	346	25.05	17.2	117.6	2	25.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : F11M

Number of peaks found: 23 Corr. Area 1: 168.1
 Noise: 0.7

Peak table for sample 3 : F11M

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.2	Lower Marker	43.00
2	38	112.82	4,441.8		45.57
3	43	95.01	3,337.4		49.01
4	45	221.43	7,380.9		50.72
5	65	235.19	5,519.1		55.93
6	83	115.96	2,111.7		58.29
7	105	27.84	402.5		61.08
8	125	223.75	2,703.4		63.92
9	132	76.20	877.2		64.78
10	151	18.32	183.6		67.46
11	156	24.59	238.5		68.10
12	175	59.78	518.0		70.46
13	200	37.08	281.1		73.63
14	257	17.11	100.7		74.16
15	307	17.10	84.3		75.18
16	315	25.61	123.0		75.93
17	337	36.50	164.3		77.81
18	379	11.55	46.2		81.62
19	453	10.70	35.7		84.09
20	558	16.01	43.5		89.13
21	587	10.40	26.9		91.38
22	672	4.80	10.8		95.51
23	10,380	75.00	10.9	Upper Marker	113.00
24	11,292	0.00	0.0		114.56
25	11,857	0.00	0.0		115.52

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...

... Region table for sample 3 :

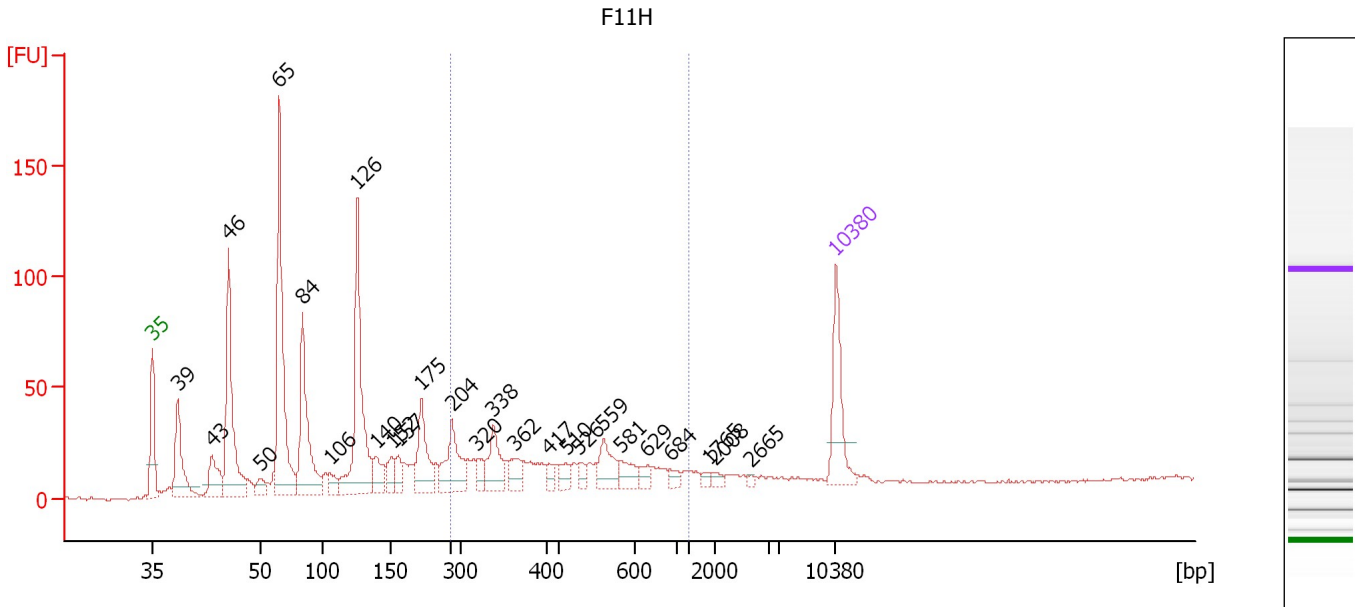
F11M

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	440	209.34	168.1	841.2	 18	34.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : F11H

Number of peaks found: 26 Corr. Area 1: 362.5
 Noise: 0.9

Peak table for sample 4 : F11H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.2	Lower Marker	43.00
2	39	145.84	5,732.2		45.62
3	43	79.04	2,767.1		49.12
4	46	277.73	9,234.4		50.81
5	50	23.49	705.4		54.14
6	65	378.97	8,819.7		56.00
7	84	217.49	3,939.8		58.34
8	106	25.38	364.3		61.18
9	126	303.17	3,652.9		63.97
10	140	47.03	509.0		65.93
11	152	34.51	344.9		67.52
12	157	28.52	275.6		68.17
13	175	104.54	903.5		70.52
14	204	102.81	761.9		73.69
15	320	19.26	91.3		76.31
16	338	64.97	291.2		77.95
17	362	31.66	132.3		80.13
18	417	14.57	52.9		83.68
19	510	19.33	57.4		85.43
20	526	12.29	35.4		86.68
21	559	45.02	122.1		89.19
22	581	28.86	75.2		90.94
23	629	13.60	32.7		93.67
24	684	12.50	27.7		96.02
25	1,765	6.10	5.2		99.95

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : F11H

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,008	6.94	5.2		100.61
27	2,665	3.47	2.0		104.32
28	10,380	75.00	10.9	Upper Marker	113.00

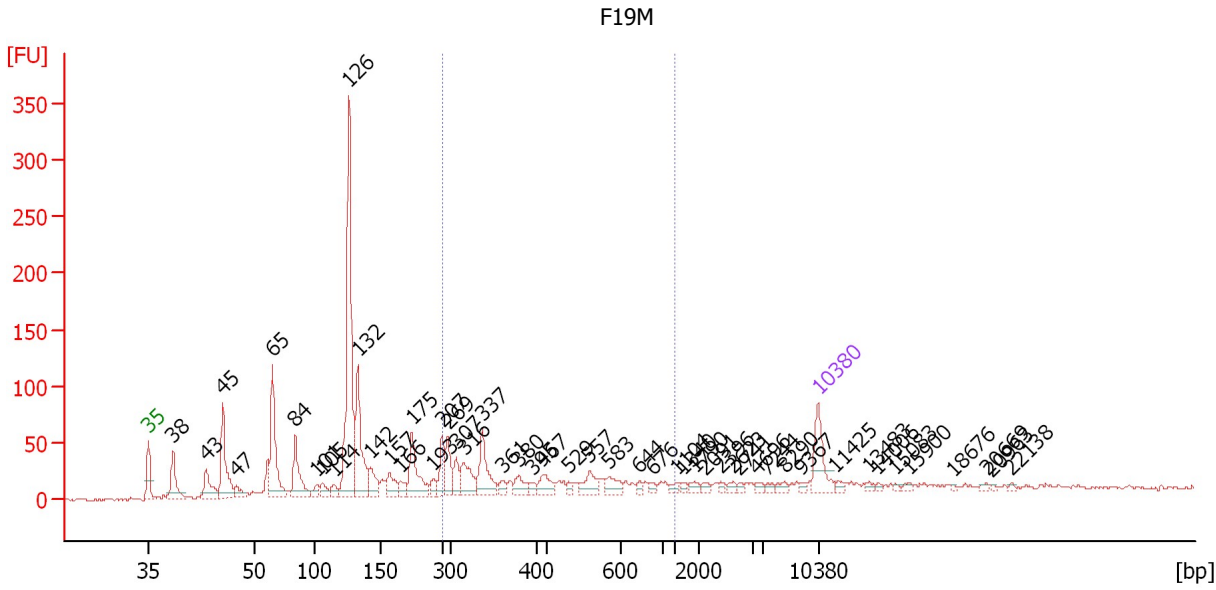
Region table for sample 4 : F11H

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	458	457.36	362.5	1,746.0	25	31.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : F19M

Number of peaks found: 50 Corr. Area 1: 466.0
 Noise: 1.8

Peak table for sample 5 : F19M

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.2	Lower Marker	43.00
2	38	127.35	5,015.6		45.56
3	43	97.12	3,410.4		49.02
4	45	214.84	7,156.5		50.75
5	47	36.69	1,173.4		52.14
6	65	261.89	6,143.6		55.93
7	84	144.44	2,620.7		58.33
8	101	25.13	377.0		60.56
9	105	33.01	474.3		61.17
10	114	28.81	383.2		62.34
11	126	626.37	7,552.5		63.96
12	132	256.45	2,940.8		64.85
13	142	69.42	739.6		66.24
14	157	58.03	560.3		68.19
15	166	29.34	268.2		69.31
16	175	138.98	1,200.5		70.53
17	193	26.65	209.2		72.76
18	207	73.35	537.2		73.71
19	269	72.85	411.1		74.27
20	307	43.60	215.3		75.16
21	316	83.17	399.4		75.94
22	337	111.60	501.2		77.89
23	361	22.28	93.5		80.01
24	380	38.37	153.1		81.68
25	395	14.48	55.5		83.07

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...

... Peak table for sample 5 : F19M

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	467	45.41	147.3		84.24
27	529	12.50	35.8		86.92
28	557	45.93	124.9		89.09
29	583	34.83	90.5		91.10
30	644	10.29	24.2		94.33
31	676	9.84	22.1		95.67
32	1,104	11.06	15.2		98.23
33	1,340	8.67	9.8		98.84
34	1,790	13.74	11.6		100.01
35	2,091	10.42	7.5		101.07
36	2,396	7.41	4.7		102.80
37	2,623	9.98	5.8		104.08
38	2,741	6.42	3.5		104.75
39	4,696	9.15	3.0		106.65
40	7,244	8.30	1.7		107.65
41	8,290	11.64	2.1		109.43
42	9,367	5.85	0.9		111.27
43	10,380	75.00	10.9	Upper Marker	113.00
44	11,425	0.00	0.0		114.78
45	13,483	0.00	0.0		118.29
46	14,006	0.00	0.0		119.19
47	15,083	0.00	0.0		121.03
48	15,900	0.00	0.0		122.42
49	18,676	0.00	0.0		127.16
50	20,669	0.00	0.0		130.56
51	20,963	0.00	0.0		131.06
52	22,138	0.00	0.0		133.06

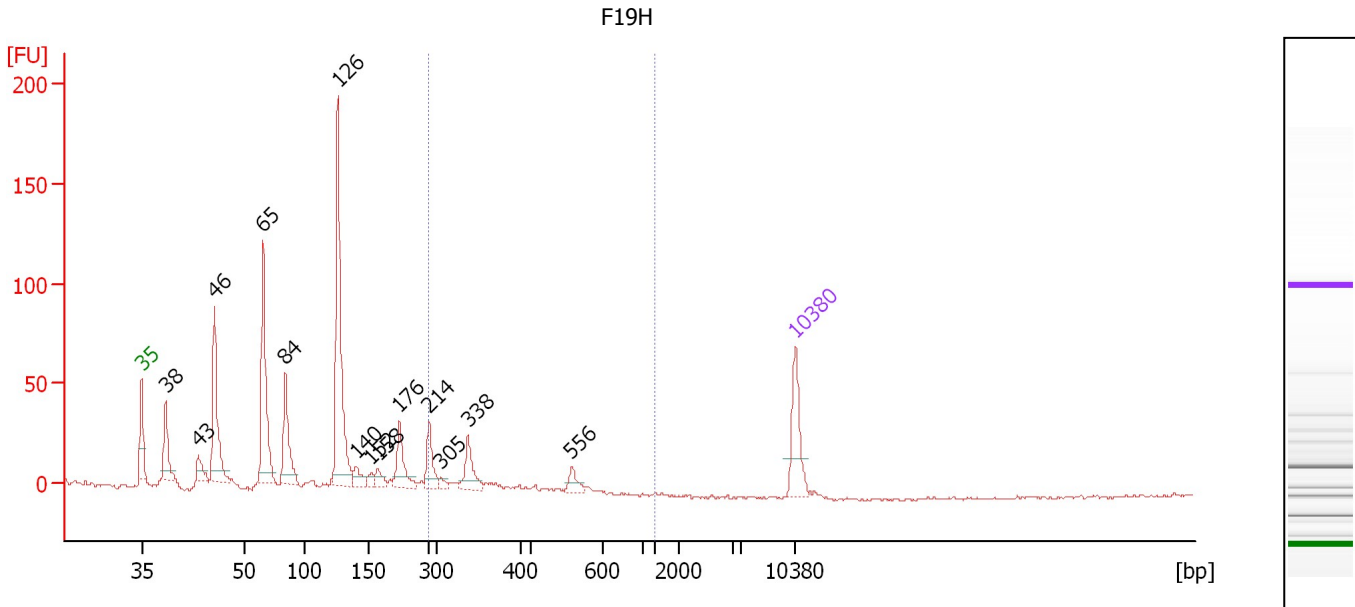
Region table for sample 5 : F19M

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	437	718.22	466.0	2,902.9	25	34.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : F19H

Number of peaks found: 14 Corr. Area 1: 67.3
 Noise: 0.9

Peak table for sample 6 : F19H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.2	Lower Marker	43.00
2	38	115.61	4,552.3		45.57
3	43	45.69	1,602.9		49.05
4	46	250.40	8,336.6		50.77
5	65	297.28	6,899.6		56.02
6	84	149.73	2,708.4		58.36
7	126	438.20	5,266.6		64.01
8	140	32.96	356.4		65.95
9	152	16.90	168.1		67.61
10	158	26.42	253.8		68.29
11	176	86.09	742.1		70.58
12	214	64.62	457.0		73.77
13	305	11.79	58.5		75.03
14	338	60.42	270.9		77.94
15	556	24.91	67.8		89.02
16	10,380	75.00	10.9	Upper Marker	113.00

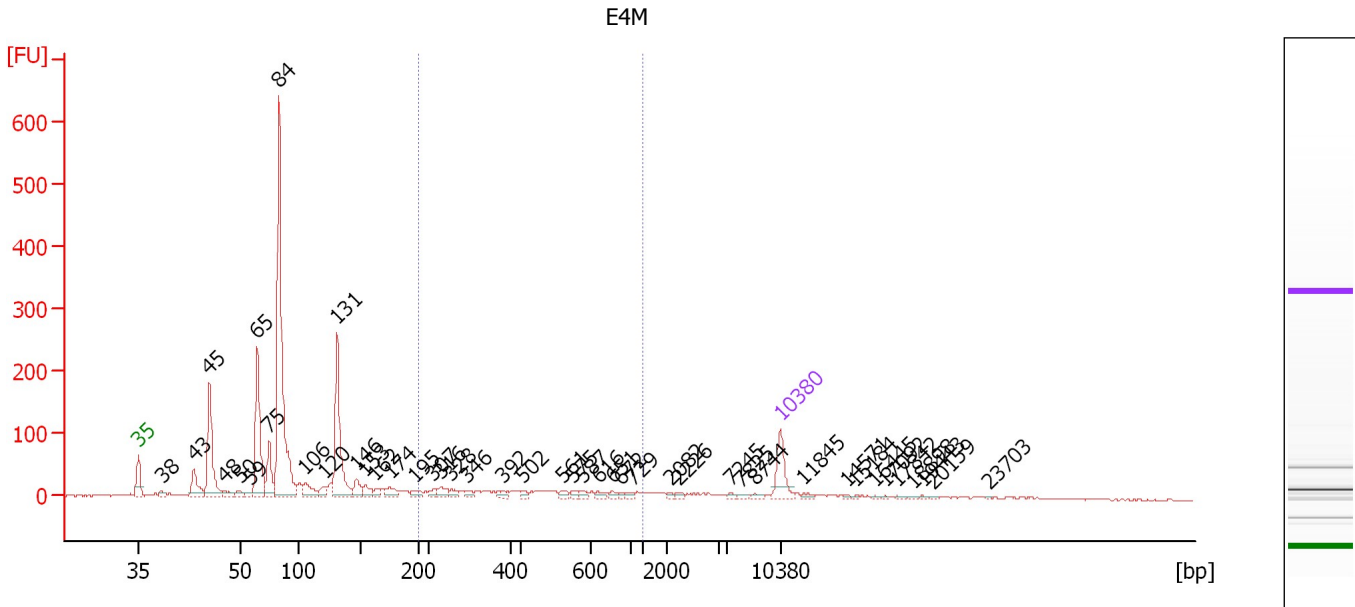
Region table for sample 6 : F19H

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	336	125.96	67.3	633.8	10	31.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : E4M

Number of peaks found: 45 Corr. Area 1: 272.7
 Noise: 1.5

Peak table for sample 7 : E4M

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.2	Lower Marker	43.00
2	38	24.54	968.6		45.50
3	43	110.82	3,888.1		49.05
4	45	335.12	11,167.7		50.73
5	48	27.82	884.2		52.36
6	50	25.03	759.1		54.05
7	59	16.01	411.8		55.21
8	65	373.04	8,713.7		55.97
9	75	133.79	2,704.2		57.24
10	84	1,055.34	19,107.2		58.35
11	106	66.94	959.9		61.20
12	120	34.67	436.3		63.23
13	131	388.97	4,500.3		64.69
14	146	48.02	497.9		66.78
15	153	40.45	400.2		67.71
16	162	23.20	217.1		68.81
17	174	38.15	331.7		70.38
18	195	23.98	186.5		73.00
19	307	18.03	89.1		75.15
20	316	32.02	153.3		76.02
21	328	17.01	78.6		77.07
22	346	17.31	75.7		78.70
23	392	16.49	63.7		82.77
24	502	9.91	29.9		84.80
25	561	13.08	35.4		89.34

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...

... Peak table for sample 7 : E4M

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	575	10.35	27.3		90.44
27	587	14.29	36.9		91.37
28	616	13.11	32.2		93.12
29	651	11.17	26.0		94.63
30	672	7.15	16.1		95.50
31	729	9.50	19.7		96.84
32	2,082	4.77	3.5		101.02
33	2,226	7.51	5.1		101.84
34	7,245	6.34	1.3		107.65
35	7,825	5.93	1.1		108.64
36	8,744	7.03	1.2		110.21
37	10,380	75.00	10.9	Upper Marker	113.00
38	11,845	0.00	0.0		115.50
39	14,571	0.00	0.0		120.15
40	15,184	0.00	0.0		121.20
41	16,445	0.00	0.0		123.35
42	17,092	0.00	0.0		124.45
43	17,842	0.00	0.0		125.73
44	18,898	0.00	0.0		127.53
45	19,443	0.00	0.0		128.47
46	20,159	0.00	0.0		129.69
47	23,703	0.00	0.0		135.73

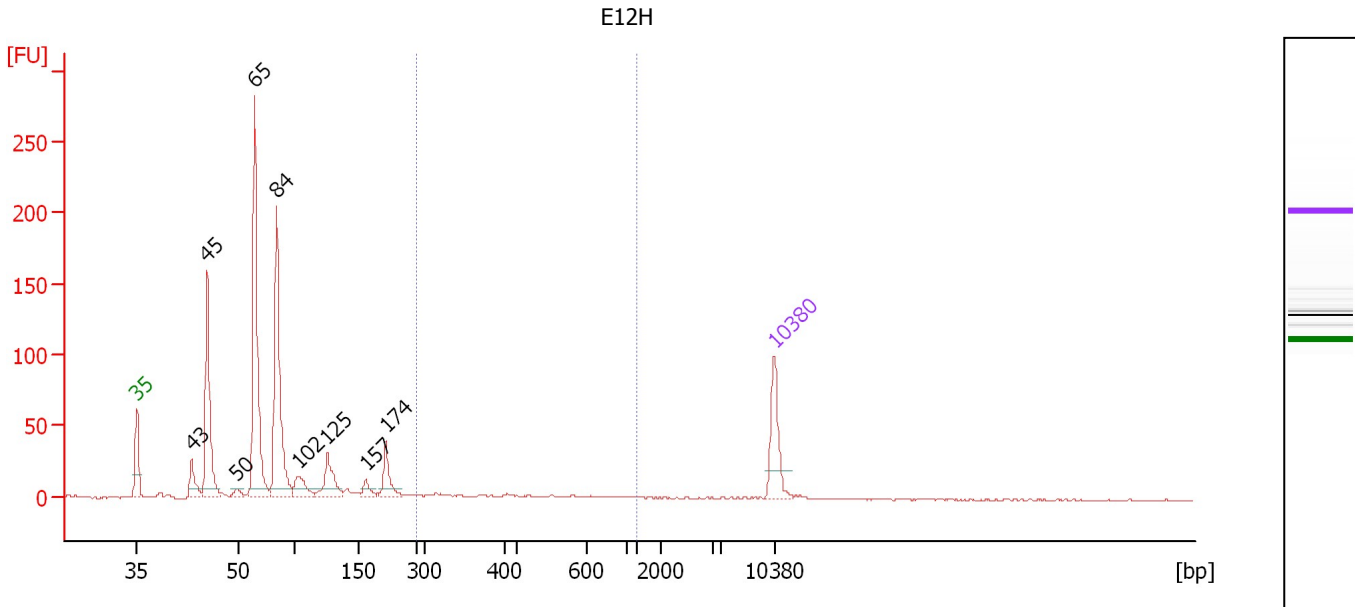
Region table for sample 7 : E4M

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	484	301.78	272.7	1,080.1	12	30.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : E12H

Number of peaks found: 9 Corr. Area 1: 32.6
 Noise: 0.6

Peak table for sample 8 : E12H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.2	Lower Marker	43.00
2	43	60.28	2,116.0		49.03
3	45	308.83	10,291.8		50.73
4	50	13.60	413.5		53.95
5	65	508.52	11,906.5		55.95
6	84	406.69	7,364.3		58.35
7	102	57.04	843.8		60.75
8	125	85.39	1,032.1		63.91
9	157	21.67	209.3		68.19
10	174	62.52	544.3		70.36
11	10,380	75.00	10.9	Upper Marker	113.00

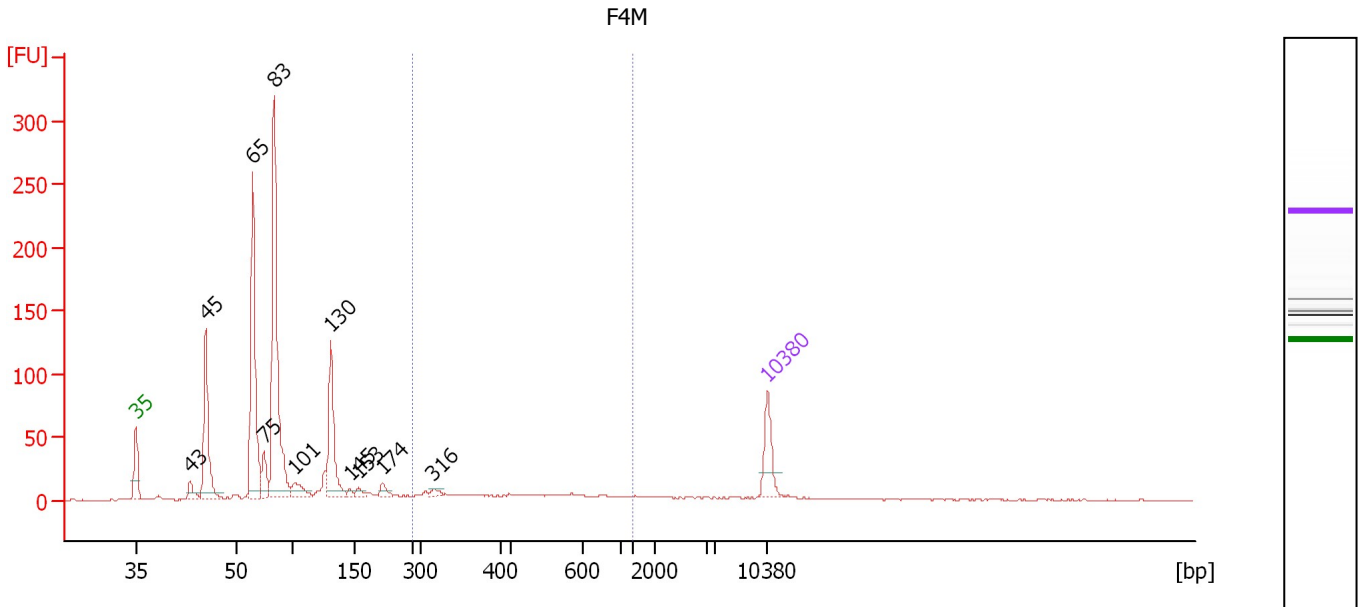
Region table for sample 8 : E12H

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	465	40.66	32.6	151.4	4	30.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : F4M

Number of peaks found: 11 Corr. Area 1: 109.5
 Noise: 0.6

Peak table for sample 9 : F4M

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.2	Lower Marker	43.00
2	43	42.80	1,502.8		49.03
3	45	345.89	11,524.6		50.74
4	65	582.52	13,654.1		55.94
5	75	82.31	1,665.0		57.24
6	83	797.58	14,507.9		58.30
7	101	63.99	956.6		60.60
8	130	274.43	3,186.7		64.62
9	145	13.10	136.4		66.69
10	153	17.44	172.7		67.69
11	174	24.03	209.3		70.35
12	316	14.00	67.2		75.96
13	10,380	75.00	10.9	Upper Marker	113.00

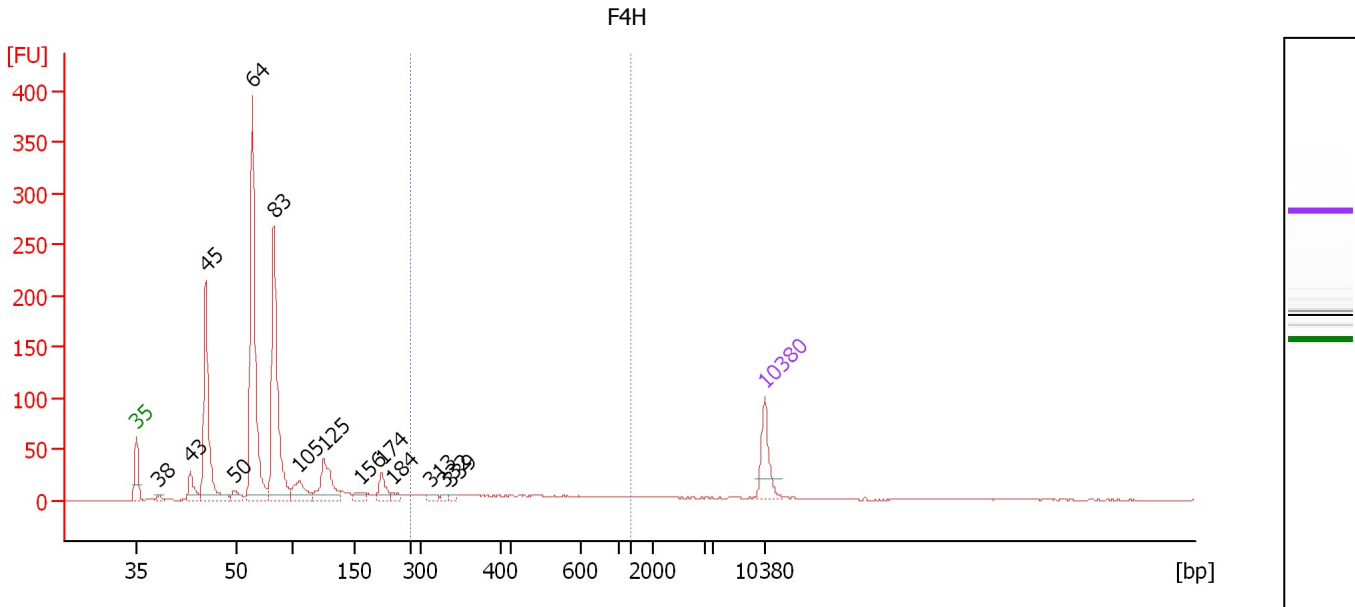
Region table for sample 9 : F4M

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	472	175.60	109.5	641.4	9	30.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : F4H

Number of peaks found: 14 Corr. Area 1: 129.7
 Noise: 0.5

Peak table for sample 10 : F4H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.2	Lower Marker	43.00
2	38	13.95	550.6		45.49
3	43	79.77	2,803.2		49.00
4	45	492.21	16,409.7		50.72
5	50	32.68	996.1		53.87
6	64	787.01	18,567.3		55.88
7	83	608.11	11,042.1		58.32
8	105	88.31	1,274.0		61.11
9	125	159.75	1,932.4		63.90
10	156	23.93	232.6		68.06
11	174	54.06	471.6		70.31
12	184	13.00	107.4		71.56
13	313	11.23	54.3		75.71
14	332	7.84	35.7		77.44
15	339	7.73	34.6		78.03
16	10,380	75.00	10.9	Upper Marker	113.00

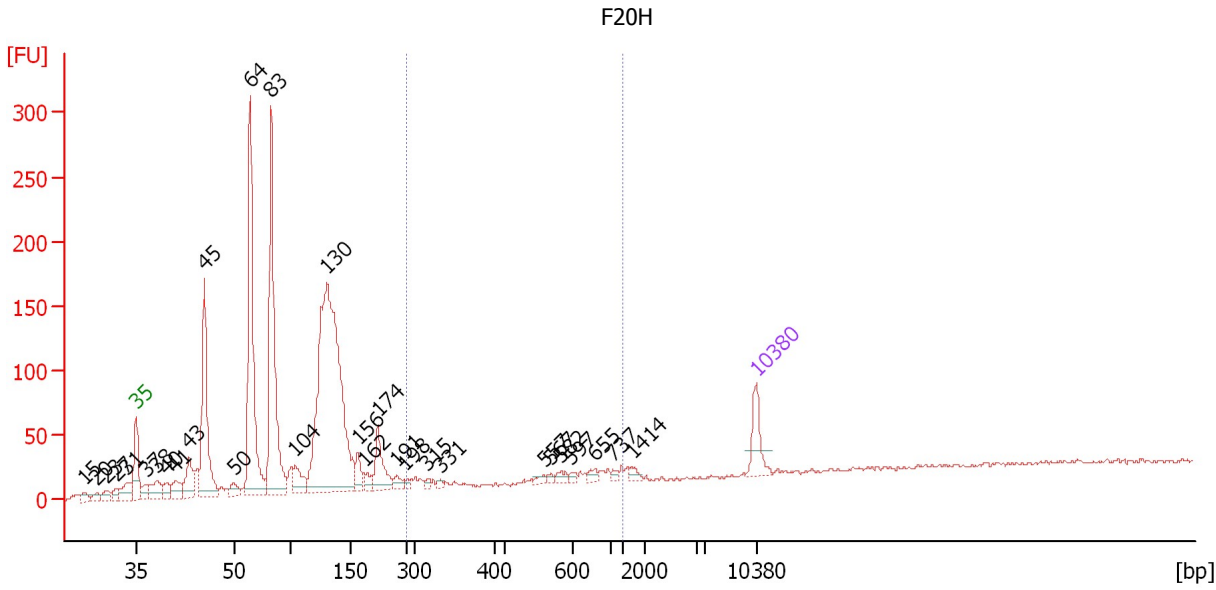
Region table for sample 10 : F4H

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	478	168.06	129.7	609.2	9	30.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : F20H

Number of peaks found: 30 Corr. Area 1: 67.7
 Noise: 1.5

Peak table for sample 11 : F20H


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	15	0.00	0.0		37.28
2	20	0.00	0.0		38.61
3	23	0.00	0.0		39.57
4	27	0.00	0.0		40.77
5	31	0.00	0.0		41.98
6	35	125.00	5,411.2	Lower Marker	43.00
7	37	51.29	2,121.6		44.20
8	38	96.21	3,810.2		45.41
9	40	52.95	2,027.8		46.37
10	41	75.23	2,778.2		47.45
11	43	132.96	4,669.1		49.02
12	45	526.51	17,560.6		50.70
13	50	47.35	1,435.1		54.07
14	64	815.92	19,257.0		55.88
15	83	817.41	14,884.8		58.29
16	104	97.54	1,418.2		61.00
17	130	1,640.35	19,125.0		64.55
18	156	67.47	656.4		68.04
19	162	34.52	322.1		68.88
20	174	147.97	1,290.1		70.33
21	191	33.13	263.0		72.49
22	198	17.47	134.0		73.34
23	315	12.37	59.5		75.92
24	331	11.87	54.4		77.31
25	557	14.25	38.8		89.04

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
 Modified: 8/6/2019 2:14:01 PM

Electropherogram Summary Continued ...

... Peak table for sample 11 : F20H

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	567	9.31	24.9		89.83
27	582	20.88	54.3		91.03
28	597	11.01	27.9		92.17
29	655	19.42	45.0		94.76
30	737	10.11	20.8		96.87
31	1,414	14.83	15.9		99.04
32	 10,380	75.00	10.9	Upper Marker	113.00

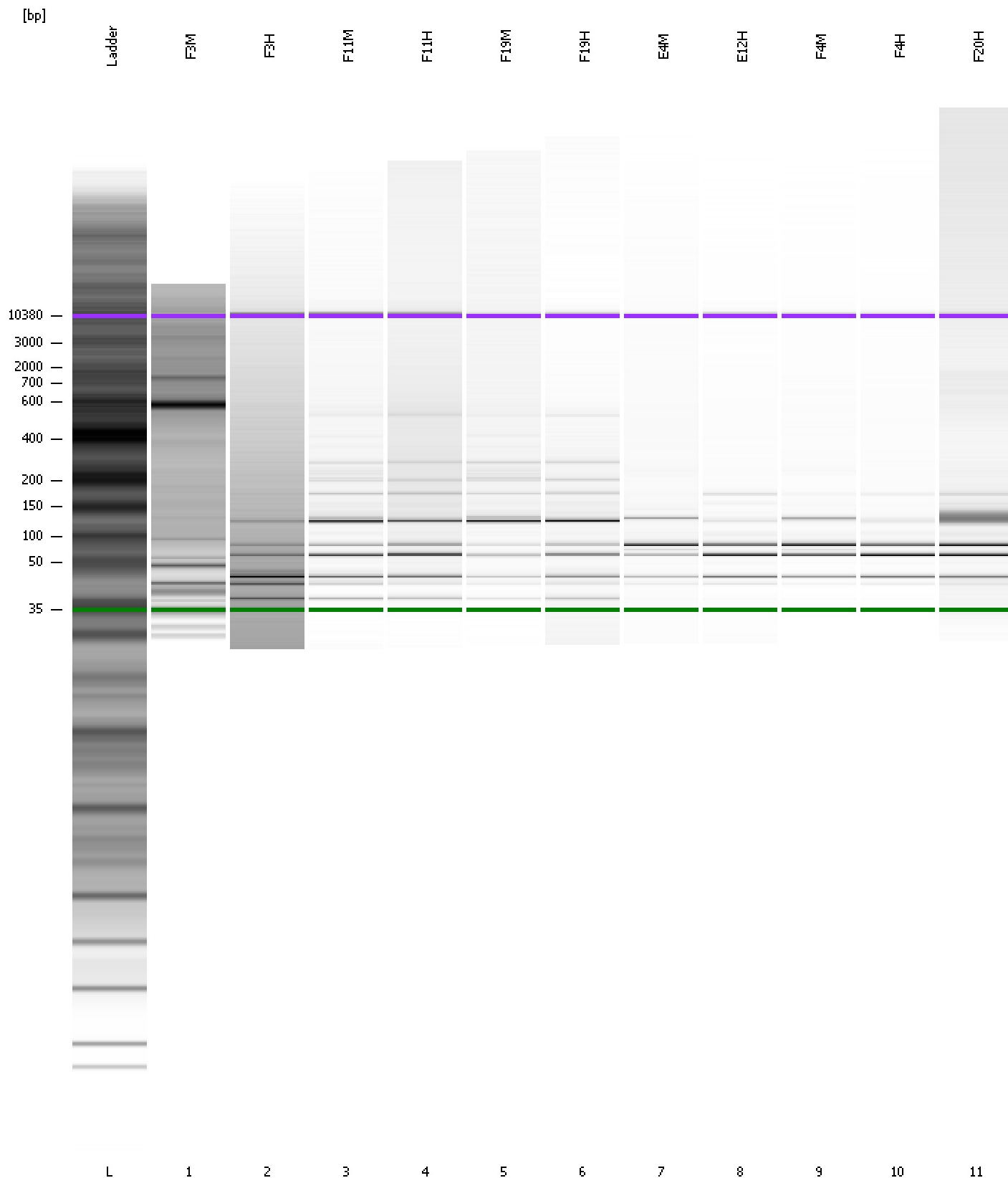
Region table for sample 11 : F20H

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	574	112.01	67.7	360.0	 4	30.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad

Created: 8/6/2019 1:19:20 PM
Modified: 8/6/2019 2:14:01 PM

Gel Image



Assay Class: High Sensitivity DNA Assay Created: 8/6/2019 1:19:20 PM
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_007.xad Modified: 8/6/2019 2:14:01 PM

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		8/6/2019 2:00:38 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\2019-08-06\2019-08-06_007.xad)		Instrument	Run		8/6/2019 1:19:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/6/2019 1:19:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/6/2019 1:19:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/6/2019 1:19:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/6/2019 1:19:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/6/2019 1:19:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/6/2019 1:19:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1