

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-31\2019-07-31_002.xad

Created: 7/31/2019 11:14:52 AM
Modified: 7/31/2019 11:56:14 AM

Electrophoresis File Run Summary

Instrument Information:

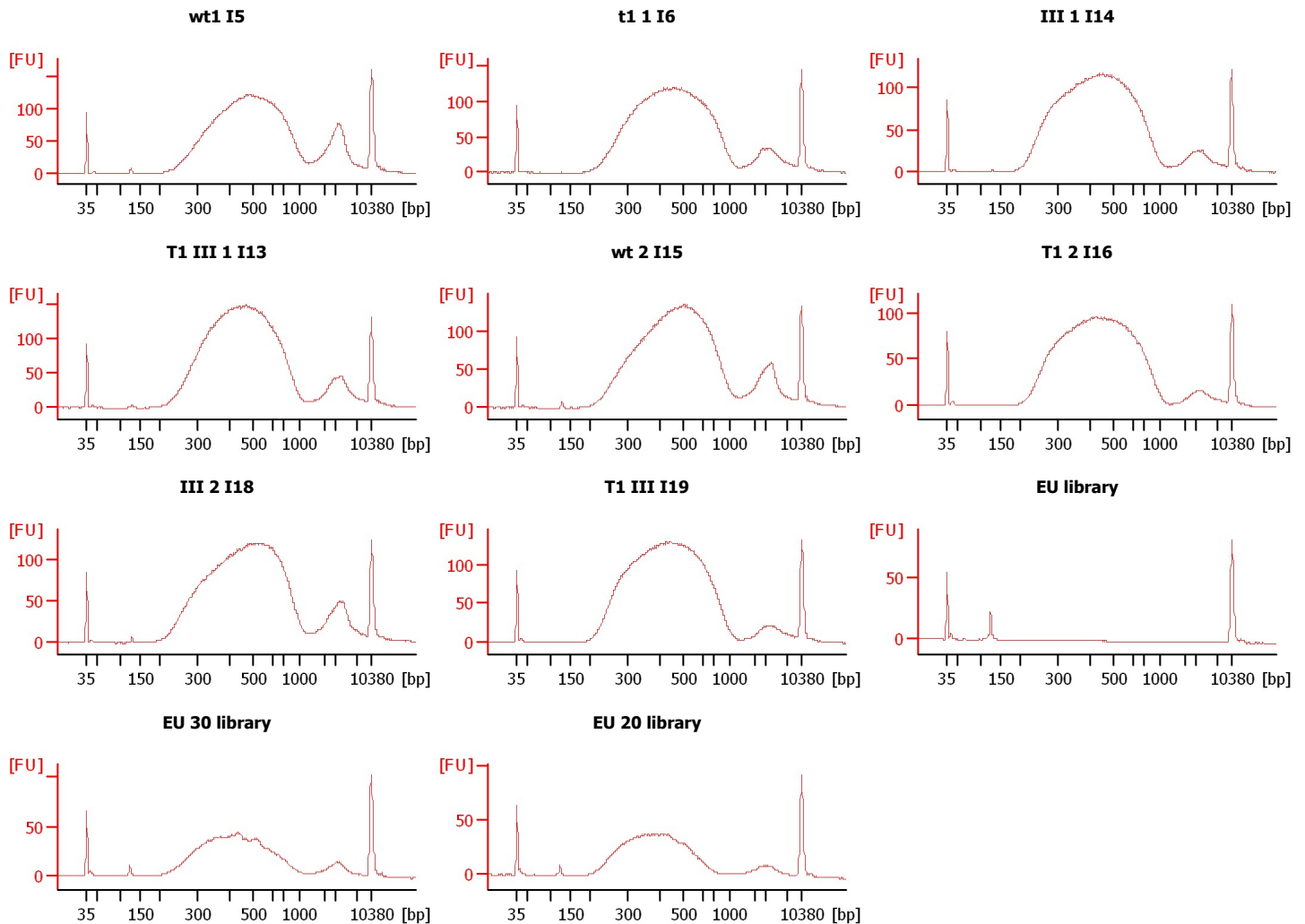
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
wt1 I5		<input type="checkbox"/>	✓			
t1 1 I6		<input type="checkbox"/>	✓			
III 1 I14		<input type="checkbox"/>	✓			
T1 III 1 I13		<input type="checkbox"/>	✓			
wt 2 I15		<input type="checkbox"/>	✓			
T1 2 I16		<input type="checkbox"/>	✓			
III 2 I18		<input type="checkbox"/>	✓			
T1 III I19		<input type="checkbox"/>	✓			
EU library		<input type="checkbox"/>	✓			
EU 30 library		<input type="checkbox"/>	✓			
EU 20 library		<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/ 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

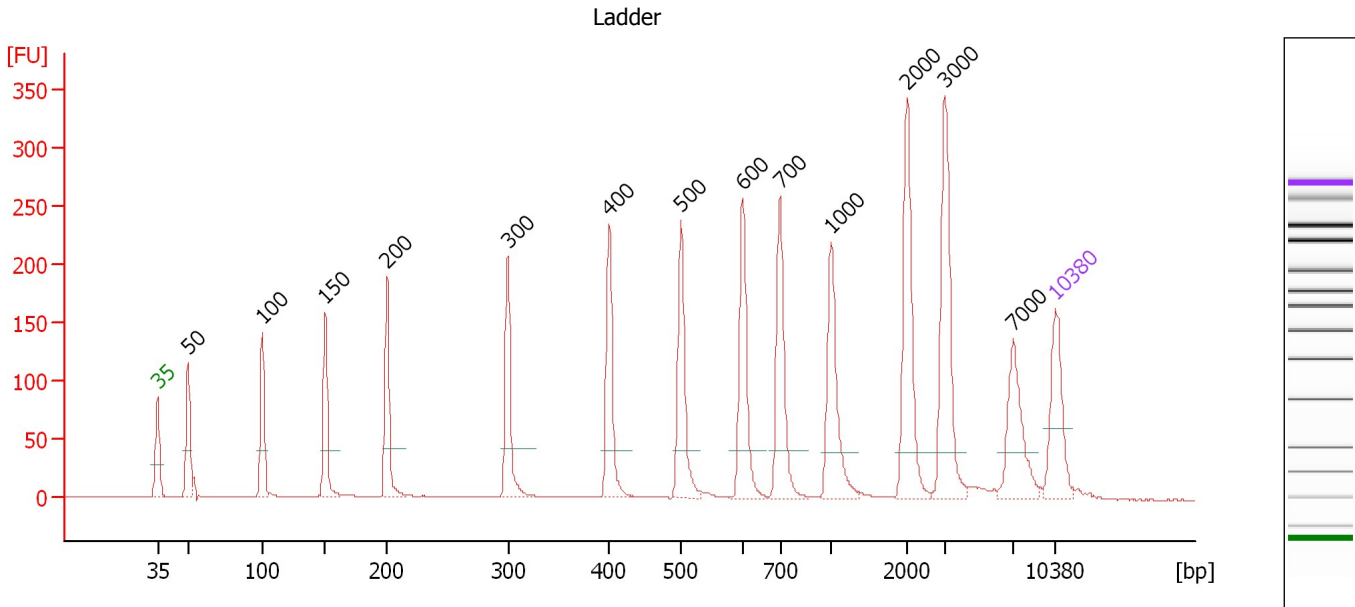
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

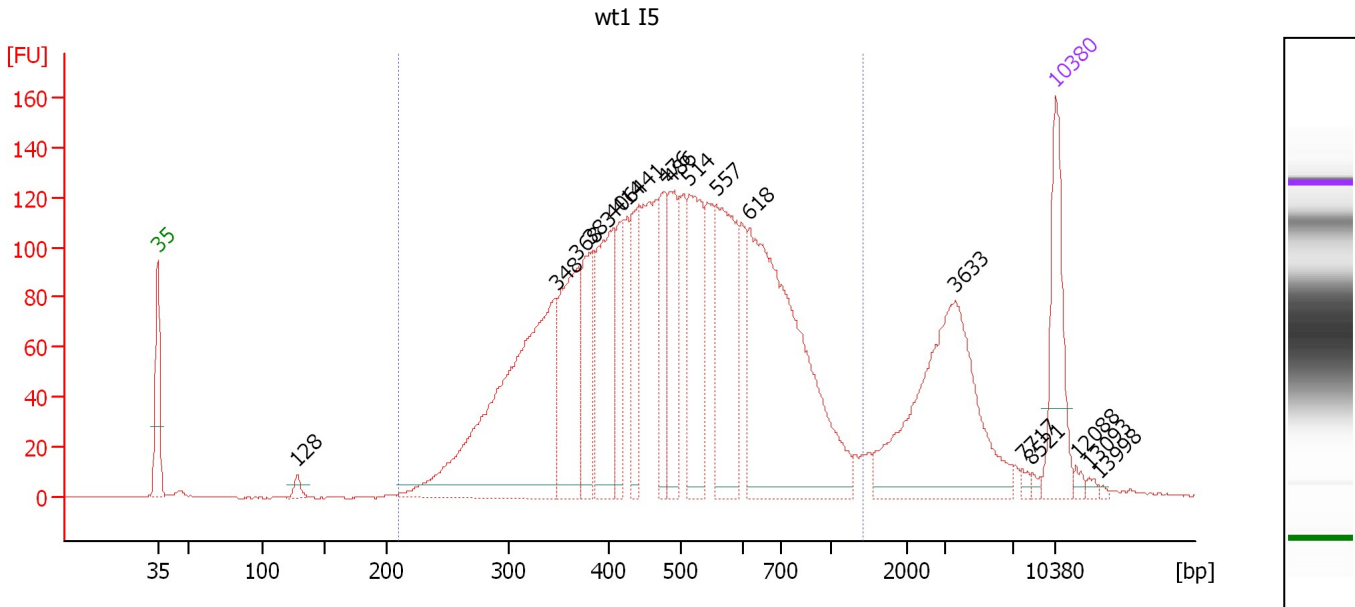
Peak table for Ladder

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	45.37
3	100	150.00	2,272.7	Ladder Peak	51.19
4	150	150.00	1,515.2	Ladder Peak	56.07
5	200	150.00	1,136.4	Ladder Peak	60.90
6	300	150.00	757.6	Ladder Peak	70.33
7	400	150.00	568.2	Ladder Peak	78.24
8	500	150.00	454.5	Ladder Peak	83.83
9	600	150.00	378.8	Ladder Peak	88.61
10	700	150.00	324.7	Ladder Peak	91.55
11	1,000	150.00	227.3	Ladder Peak	95.52
12	2,000	150.00	113.6	Ladder Peak	101.44
13	3,000	150.00	75.8	Ladder Peak	104.38
14	7,000	150.00	32.5	Ladder Peak	109.73
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : wt1 I5

Number of peaks found: 18 Corr. Area 1: 3,299.5
 Noise: 0.3

Peak table for sample 1 : wt1 I5

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	128	10.58	125.7		53.88
3	348	408.68	1,781.6		74.09
4	368	146.59	602.8		75.74
5	383	89.21	353.3		76.86
6	406	139.33	520.3		78.56
7	414	64.24	235.3		79.00
8	441	70.91	243.9		80.50
9	476	68.12	216.7		82.49
10	486	87.15	271.9		83.03
11	514	124.47	367.1		84.49
12	557	155.68	423.1		86.57
13	618	368.57	903.1		89.15
14	3,633	211.54	88.2		105.23
15	7,717	4.14	0.8		110.43
16	8,521	3.00	0.5		111.20
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,088	0.00	0.0		114.65
19	13,093	0.00	0.0		115.62
20	13,998	0.00	0.0		116.50

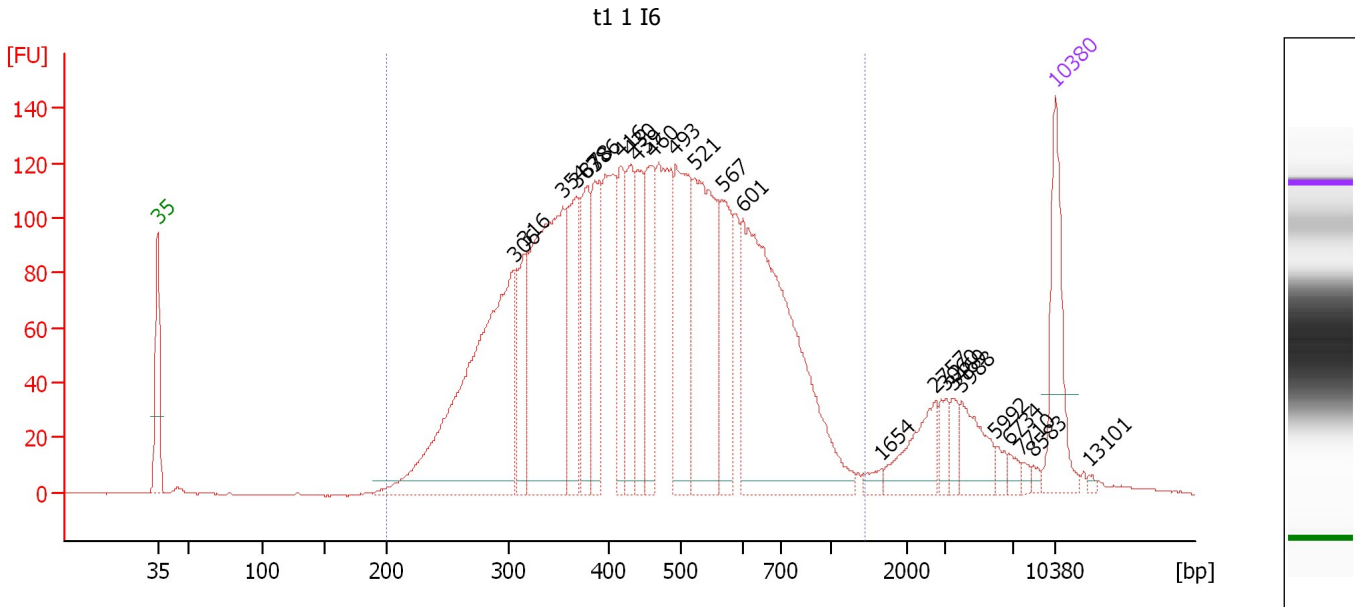
Region table for sample 1 : wt1 I5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
209	1,415	508	2,165.21	3,299.5	7,492.2	86	35.5

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Electropherogram Summary Continued ...



Overall Results for sample 2 : t1 1 I6

Number of peaks found: 24 Corr. Area 1: 3,593.2
 Noise: 0.3

Peak table for sample 2 : t1 1 I6

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	306	470.35	2,329.0		70.80
3	316	95.83	459.5		71.60
4	354	340.53	1,456.2		74.62
5	367	112.93	466.4		75.62
6	378	101.86	408.1		76.51
7	386	90.78	356.6		77.11
8	416	78.43	285.5		79.14
9	430	90.20	318.2		79.89
10	439	76.91	265.3		80.43
11	460	106.04	349.5		81.57
12	493	169.55	521.5		83.41
13	521	217.42	631.8		84.85
14	567	105.29	281.3		87.04
15	601	408.90	1,031.7		88.62
16	1,654	8.31	7.6		99.40
17	2,757	50.08	27.5		103.67
18	3,060	16.41	8.1		104.46
19	3,469	14.56	6.4		105.01
20	3,988	40.32	15.3		105.70
21	5,992	8.57	2.2		108.38
22	6,734	7.36	1.7		109.38
23	7,710	4.18	0.8		110.42
24	8,583	4.05	0.7		111.26
25	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...**... Peak table for sample 2 : t1 1 I6**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	13,101	0.00	0.0		115.63

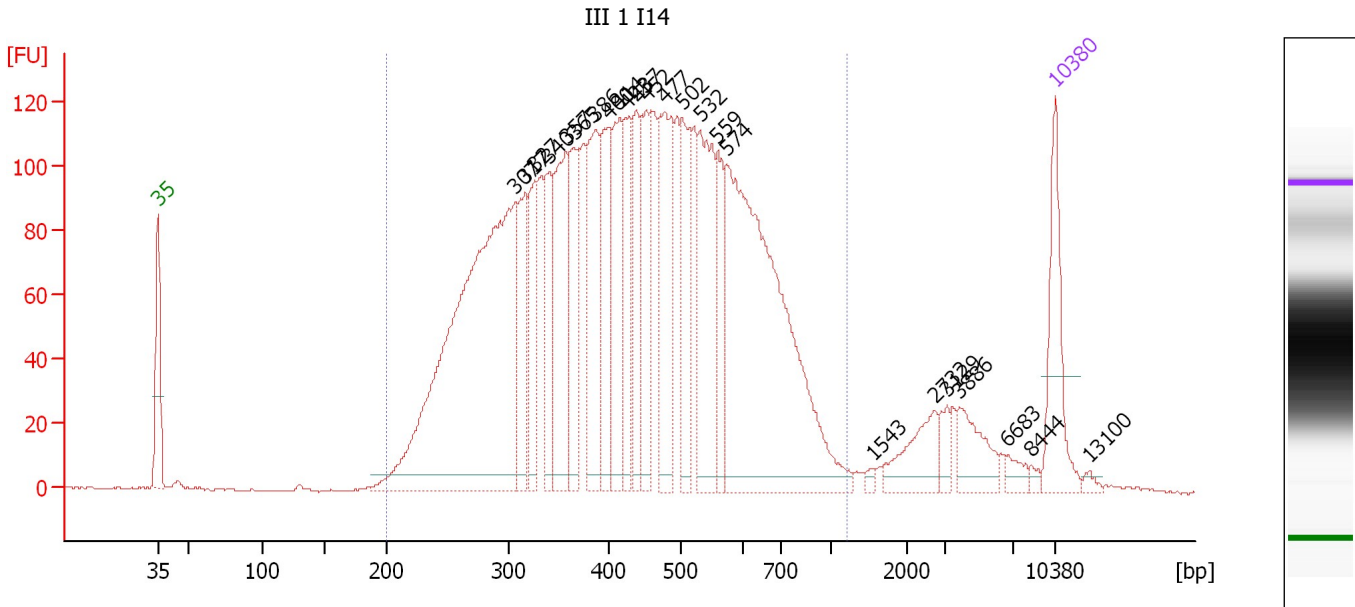
Region table for sample 2 : t1 1 I6

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	1,446	473	2,901.36	3,593.2	10,830.3	 91	35.5

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Electropherogram Summary Continued ...



Overall Results for sample 3 : III 1 I14

Number of peaks found: 24 Corr. Area 1: 3,636.9
 Noise: 0.3

Peak table for sample 3 : III 1 I14

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	307	768.19	3,785.4		70.92
3	317	109.64	523.9		71.68
4	327	104.85	486.3		72.44
5	340	91.49	407.6		73.50
6	357	161.13	683.2		74.86
7	365	114.62	475.8		75.47
8	386	142.23	558.1		77.14
9	400	126.25	477.9		78.25
10	414	127.38	466.3		79.01
11	423	92.47	331.3		79.52
12	437	92.38	320.0		80.33
13	452	105.76	354.6		81.14
14	477	164.64	522.7		82.55
15	502	92.16	278.2		83.92
16	532	166.96	475.9		85.33
17	559	76.48	207.3		86.65
18	574	527.94	1,394.0		87.36
19	1,543	3.81	3.7		98.74
20	2,732	48.93	27.1		103.59
21	3,129	15.83	7.7		104.55
22	3,886	43.13	16.8		105.57
23	6,683	11.86	2.7		109.31
24	8,444	4.19	0.8		111.13
25	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

... Peak table for sample 3 : III 1 I14

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	13,100	0.00	0.0		115.63

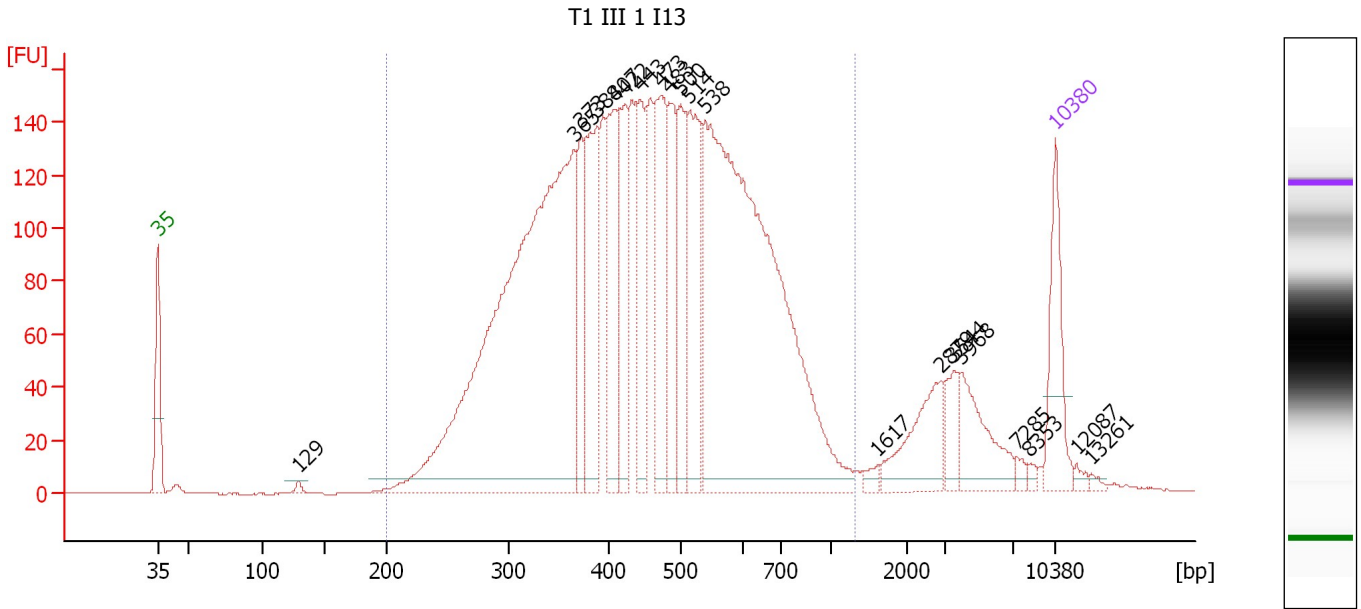
Region table for sample 3 : III 1 I14

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	1,198	449	3,541.68	3,636.9	13,886.9	 93	33.5

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Electropherogram Summary Continued ...



Overall Results for sample 4 : T1 III 1 I13

Number of peaks found: 20 Corr. Area 1: 4,083.3
 Noise: 0.2

Peak table for sample 4 : T1 III 1 I13

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	129	6.66	78.4		53.99
3	365	1,074.09	4,454.1		75.50
4	373	109.03	443.4		76.07
5	388	174.74	682.0		77.30
6	407	161.83	602.0		78.64
7	422	119.68	429.6		79.47
8	443	135.67	463.7		80.66
9	473	167.53	536.8		82.31
10	483	114.58	359.4		82.87
11	500	112.22	340.3		83.80
12	514	169.31	499.5		84.47
13	538	918.79	2,585.8		85.66
14	1,617	8.15	7.6		99.18
15	2,879	80.57	42.4		104.02
16	3,544	30.30	13.0		105.11
17	3,968	71.43	27.3		105.68
18	7,285	6.81	1.4		110.01
19	8,353	4.63	0.8		111.04
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,087	0.00	0.0		114.65
22	13,261	0.00	0.0		115.79

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Electropherogram Summary Continued ...

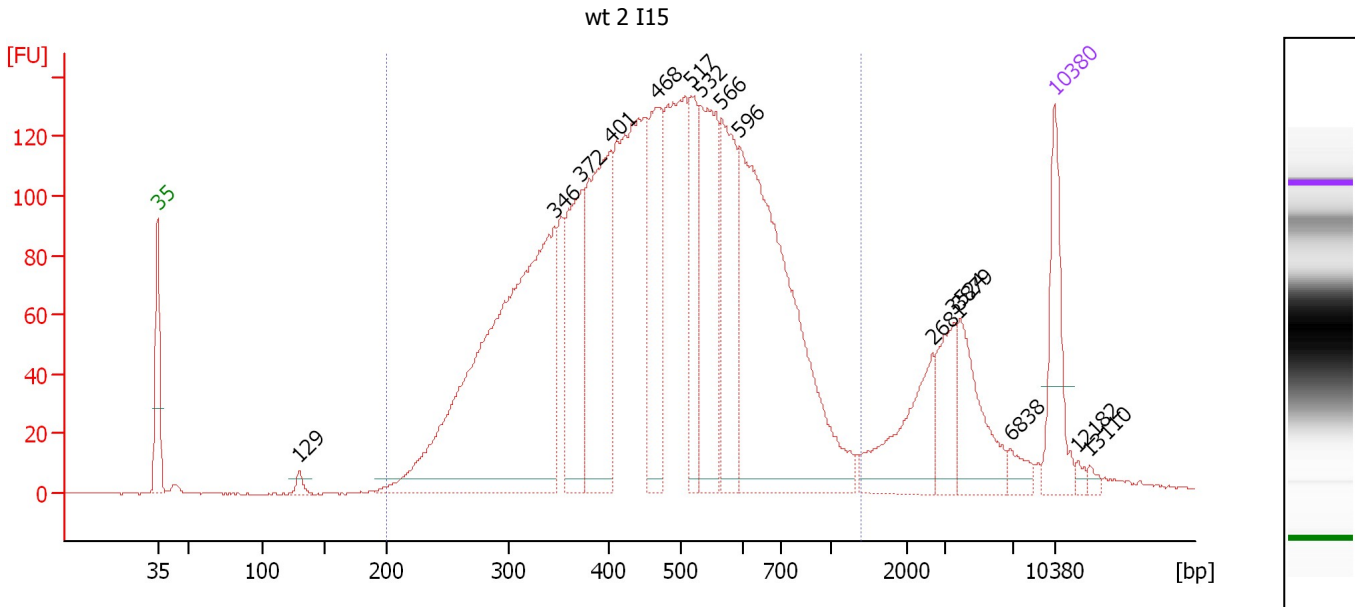
... Region table for sample 4 : T1 III 1 I13

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	1,326	471	3,682.44	4,083.3	13,518.7	 91	32.4

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Electropherogram Summary Continued ...



Overall Results for sample 5 : wt 2 I15

Number of peaks found: 15 Corr. Area 1: 3,593.0
 Noise: 0.2

Peak table for sample 5 : wt 2 I15

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	129	10.95	128.5		54.03
3	346	706.06	3,095.3		73.94
4	372	174.16	708.8		76.05
5	401	257.80	973.0		78.32
6	468	162.51	526.6		82.01
7	517	103.85	304.2		84.65
8	532	197.05	561.6		85.34
9	566	159.12	426.1		86.97
10	596	496.53	1,263.1		88.40
11	2,681	90.25	51.0		103.44
12	3,524	54.46	23.4		105.08
13	3,879	76.45	29.9		105.56
14	6,838	15.27	3.4		109.52
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,182	0.00	0.0		114.74
17	13,110	0.00	0.0		115.64

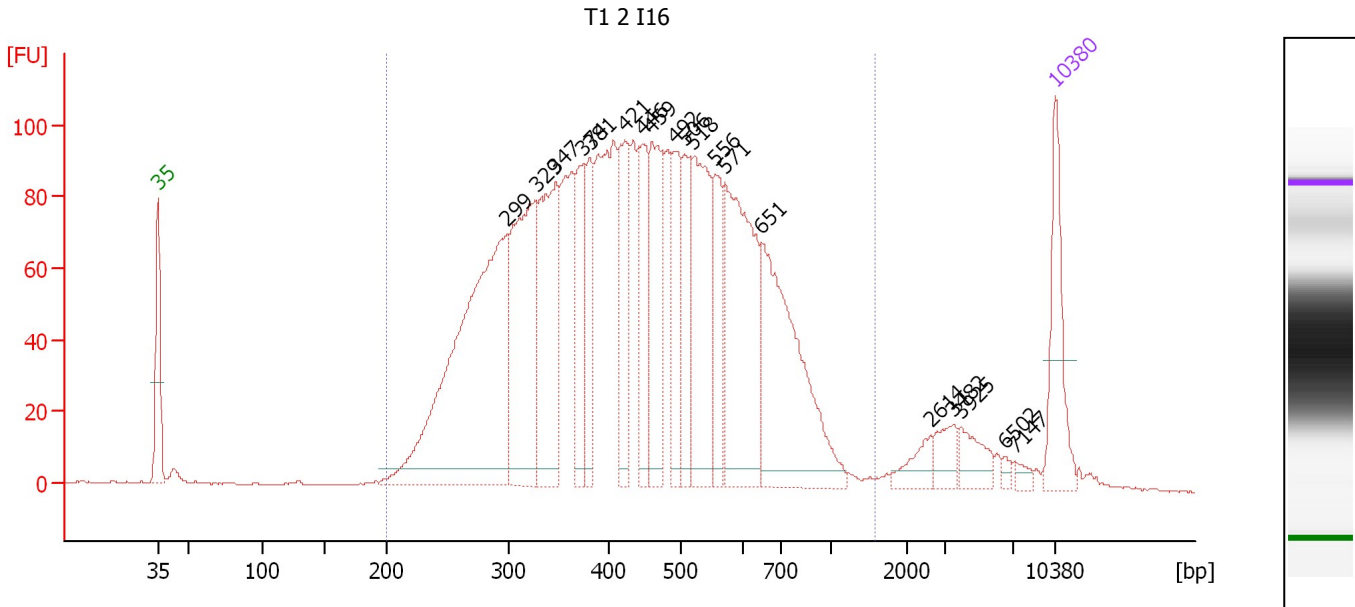
Region table for sample 5 : wt 2 I15

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,397	486	3,078.39	3,593.0	11,166.7	88	34.8

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Electropherogram Summary Continued ...



Overall Results for sample 6 : T1 2 I16

Number of peaks found: 19 Corr. Area 1: 2,945.5
 Noise: 0.2

Peak table for sample 6 : T1 2 I16

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	299	556.50	2,816.6		70.27
3	329	273.86	1,263.0		72.58
4	347	216.34	944.8		74.04
5	374	97.08	393.1		76.19
6	381	90.31	359.1		76.73
7	421	104.05	374.2		79.43
8	446	108.01	366.6		80.83
9	459	126.80	418.6		81.53
10	492	89.58	276.0		83.36
11	506	81.25	243.3		84.12
12	518	190.72	557.3		84.71
13	556	86.49	235.8		86.49
14	571	245.17	650.1		87.24
15	651	258.60	602.1		90.10
16	2,614	22.79	13.2		103.25
17	3,482	23.83	10.4		105.02
18	3,925	28.29	10.9		105.62
19	6,502	4.83	1.1		109.07
20	7,147	7.34	1.6		109.87
21	10,380	75.00	10.9	Upper Marker	113.00

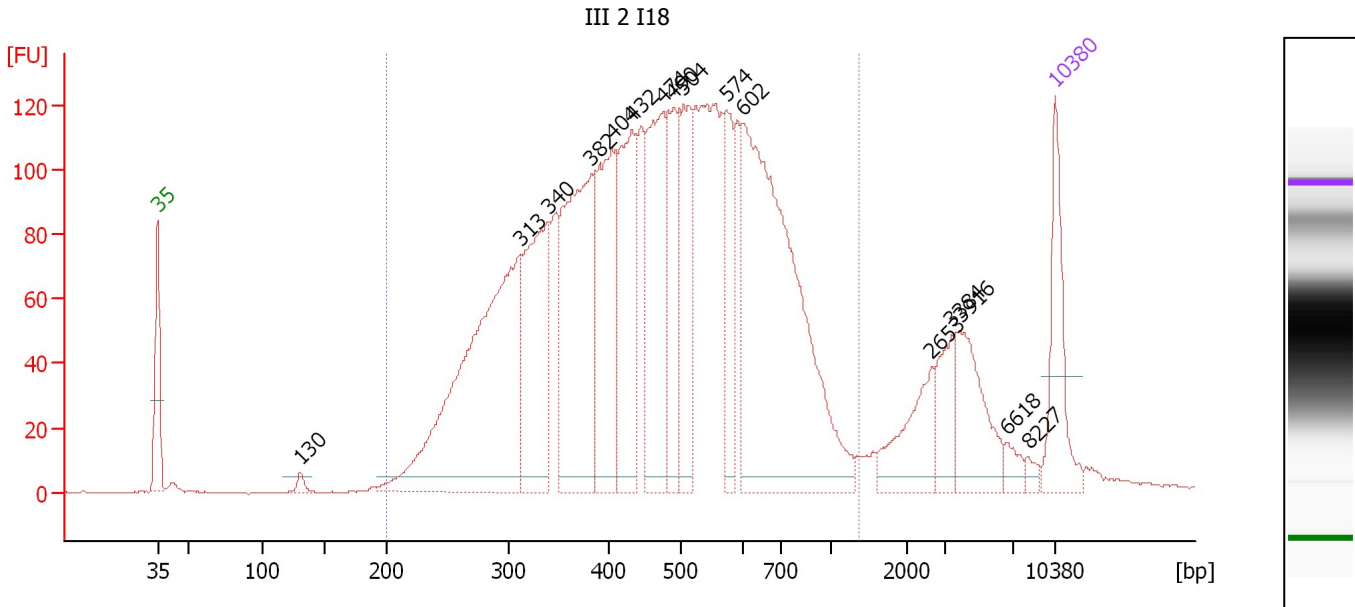
Region table for sample 6 : T1 2 I16

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,590	459	3,199.96	2,945.5	12,329.4	94	35.8

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Electropherogram Summary Continued ...



Overall Results for sample 7 : III 2 I18

Number of peaks found: 16 Corr. Area 1: 3,441.2
 Noise: 0.2

Peak table for sample 7 : III 2 I18

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	130	10.09	117.6		54.12
3	313	518.55	2,514.0		71.32
4	340	226.63	1,011.4		73.45
5	382	309.81	1,227.3		76.85
6	404	206.87	776.6		78.44
7	432	194.13	680.8		80.03
8	474	199.12	636.3		82.38
9	490	132.23	409.0		83.26
10	504	124.75	374.9		84.03
11	574	79.32	209.4		87.37
12	602	514.59	1,294.2		88.68
13	2,653	68.15	38.9		103.36
14	3,384	45.23	20.3		104.89
15	3,916	81.15	31.4		105.61
16	6,618	12.96	3.0		109.22
17	8,227	6.78	1.2		110.92
18	10,380	75.00	10.9	Upper Marker	113.00

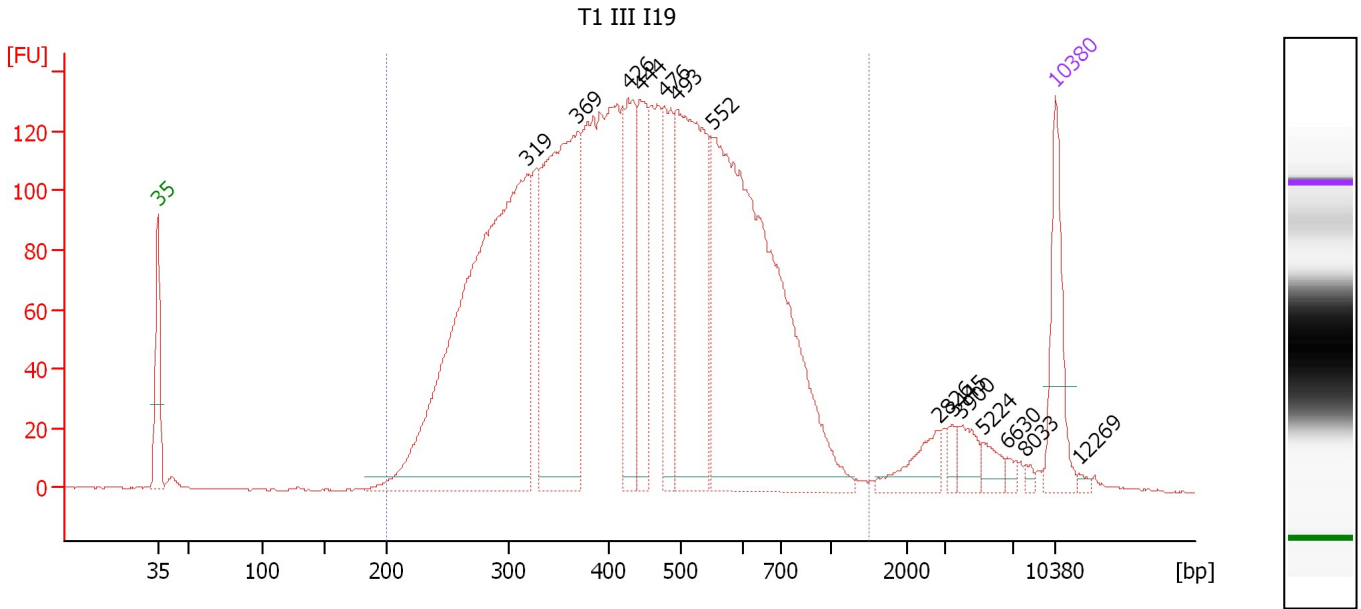
Region table for sample 7 : III 2 I18

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,367	487	3,130.10	3,441.2	11,434.4	88	35.4

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Electropherogram Summary Continued ...



Overall Results for sample 8 : T1 III I19

Number of peaks found: 14 Corr. Area 1: 3,942.9
 Noise: 0.3

Peak table for sample 8 : T1 III I19

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	319	864.21	4,104.8		71.83
3	369	449.43	1,847.0		75.76
4	426	158.01	562.1		79.69
5	444	125.04	426.9		80.68
6	476	127.33	404.9		82.51
7	493	351.37	1,079.2		83.45
8	552	681.89	1,870.6		86.33
9	2,826	34.99	18.8		103.87
10	3,445	9.95	4.4		104.98
11	3,900	23.19	9.0		105.58
12	5,224	15.55	4.5		107.36
13	6,630	5.70	1.3		109.24
14	8,033	3.89	0.7		110.73
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,269	0.00	0.0		114.83

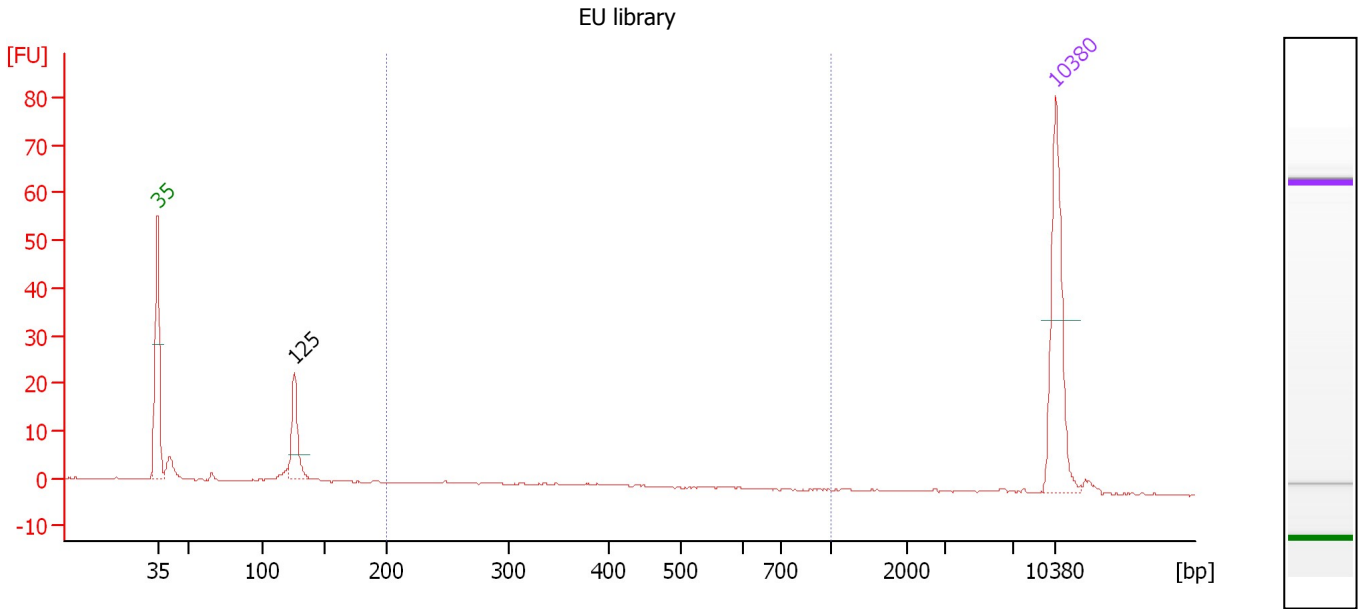
Region table for sample 8 : T1 III I19

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,490	454	3,540.42	3,942.9	13,737.1	95	34.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-31\2019-07-31_002.xad

Created: 7/31/2019 11:14:52 AM
 Modified: 7/31/2019 11:56:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : EU library

Number of peaks found: 1 Corr. Area 1: 6.3
 Noise: 0.1

Peak table for sample 9 : EU library

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	125	46.76	565.9		53.65
3	10,380	75.00	10.9	Upper Marker	113.00

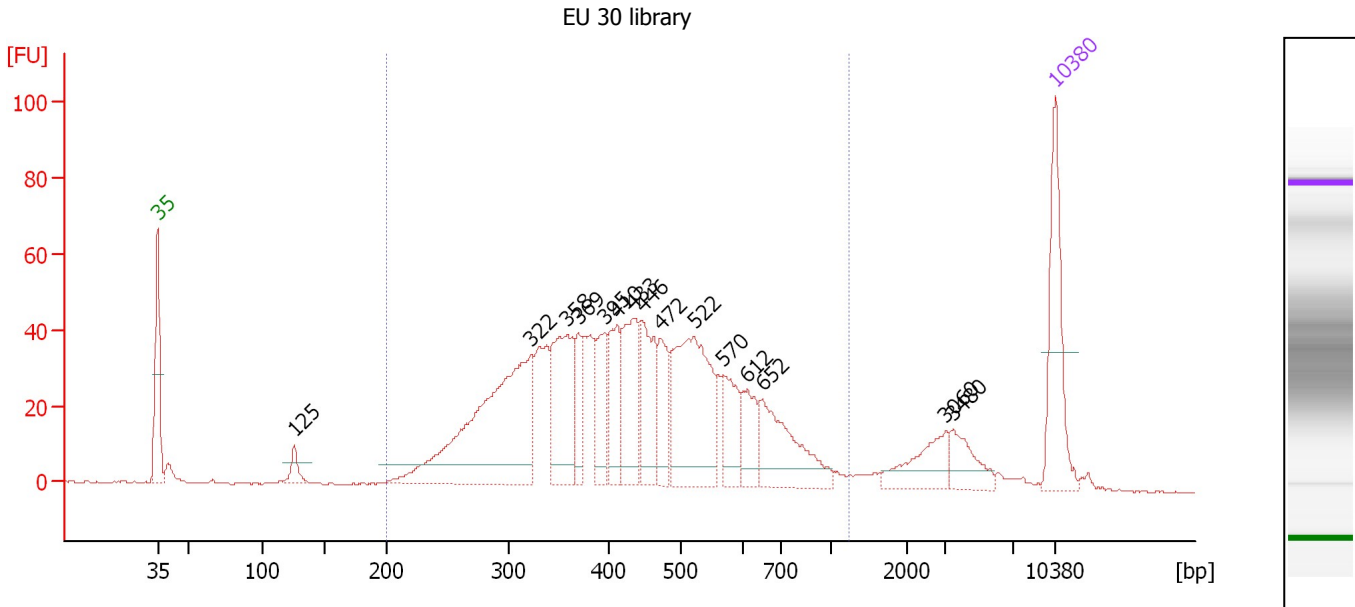
Region table for sample 9 : EU library

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	358	10.35	6.3	48.3	13	27.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-31\2019-07-31_002.xad

Created: 7/31/2019 11:14:52 AM
 Modified: 7/31/2019 11:56:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : EU 30 library

Number of peaks found: 15 Corr. Area 1: 1,152.3
 Noise: 0.2

Peak table for sample 10 : EU 30 library

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	125	18.00	217.4		53.67
3	322	295.16	1,387.0		72.10
4	358	112.40	475.8		74.91
5	369	44.07	180.8		75.81
6	395	48.42	185.8		77.83
7	410	55.99	207.0		78.79
8	433	81.12	283.9		80.08
9	446	75.22	255.5		80.81
10	472	48.60	156.0		82.27
11	522	169.11	491.3		84.85
12	570	44.35	117.9		87.16
13	612	37.60	93.1		88.96
14	652	86.55	201.1		90.13
15	3,060	38.58	19.1		104.46
16	3,480	28.39	12.4		105.02
17	10,380	75.00	10.9	Upper Marker	113.00

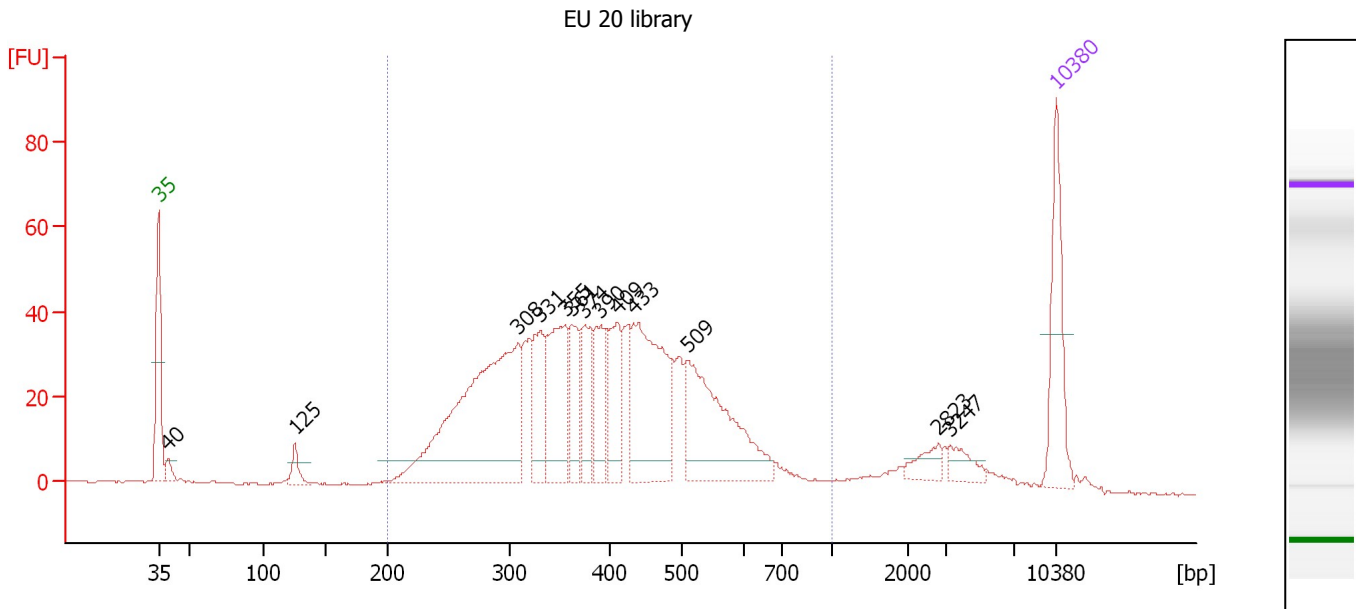
Region table for sample 10 : EU 30 library

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,247	449	1,348.75	1,152.3	5,216.8	88	33.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-31\2019-07-31_002.xad

Created: 7/31/2019 11:14:52 AM
 Modified: 7/31/2019 11:56:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : EU 20 library

Number of peaks found: 13 Corr. Area 1: 1,016.4
 Noise: 0.2

Peak table for sample 11 : EU 20 library

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	40	14.85	567.2		43.74
3	125	20.85	253.1		53.62
4	308	391.77	1,925.0		70.99
5	331	78.88	361.5		72.75
6	355	117.98	503.5		74.68
7	361	57.12	239.4		75.19
8	374	63.37	257.0		76.15
9	390	57.14	221.9		77.46
10	409	70.61	261.3		78.77
11	433	192.47	673.7		80.07
12	509	184.38	548.5		84.27
13	2,823	17.61	9.4		103.86
14	3,247	18.67	8.7		104.71
15	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : EU 20 library

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	404	1,528.75	1,016.4	6,396.2	89	29.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-31\2019-07-31_002.xad

Created: 7/31/2019 11:14:52 AM
Modified: 7/31/2019 11:56:14 AM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-31\2019-07-31_002.xad

Created: 7/31/2019 11:14:52 AM
 Modified: 7/31/2019 11:56:14 AM

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		7/31/2019 11:56:11 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\2019-07-31\2019-07-31_002.xad)		Instrument	Run		7/31/2019 11:14:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/31/2019 11:14:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/31/2019 11:14:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/31/2019 11:14:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/31/2019 11:14:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/31/2019 11:14:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/31/2019 11:14:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1