

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
Modified: 8/22/2018 5:44:34 PM

Electrophoresis File Run Summary

Instrument Information:

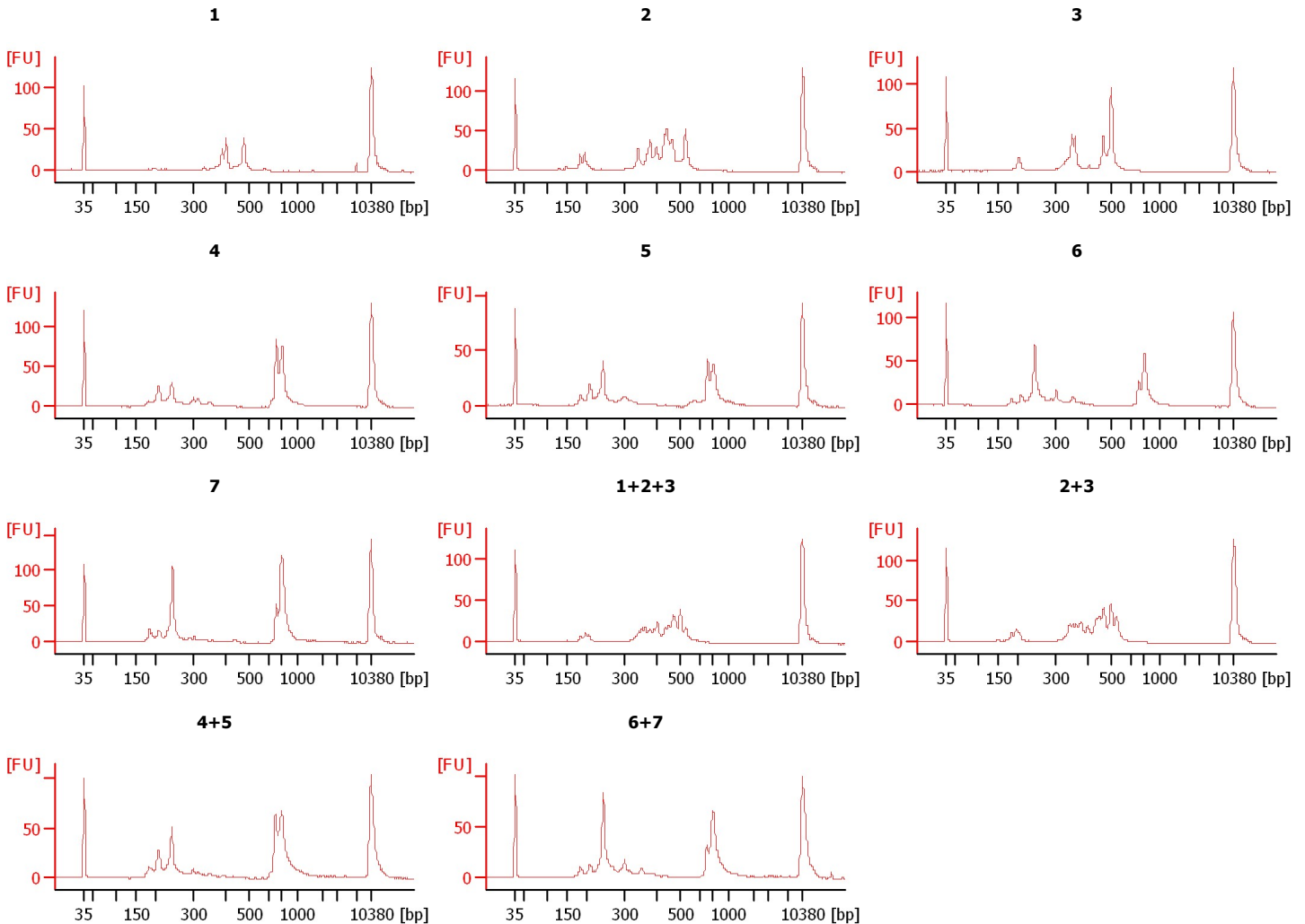
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
 Modified: 8/22/2018 5:44:34 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1		<input type="checkbox"/>	✓			
2		<input type="checkbox"/>	✓			
3		<input type="checkbox"/>	✓			
4		<input type="checkbox"/>	✓			
5		<input type="checkbox"/>	✓			
6		<input type="checkbox"/>	✓			
7		<input type="checkbox"/>	✓			
1+2+3		<input type="checkbox"/>	✓			
2+3		<input type="checkbox"/>	✓			
4+5		<input type="checkbox"/>	✓			
6+7		<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\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
Modified: 8/22/2018 5:44:34 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

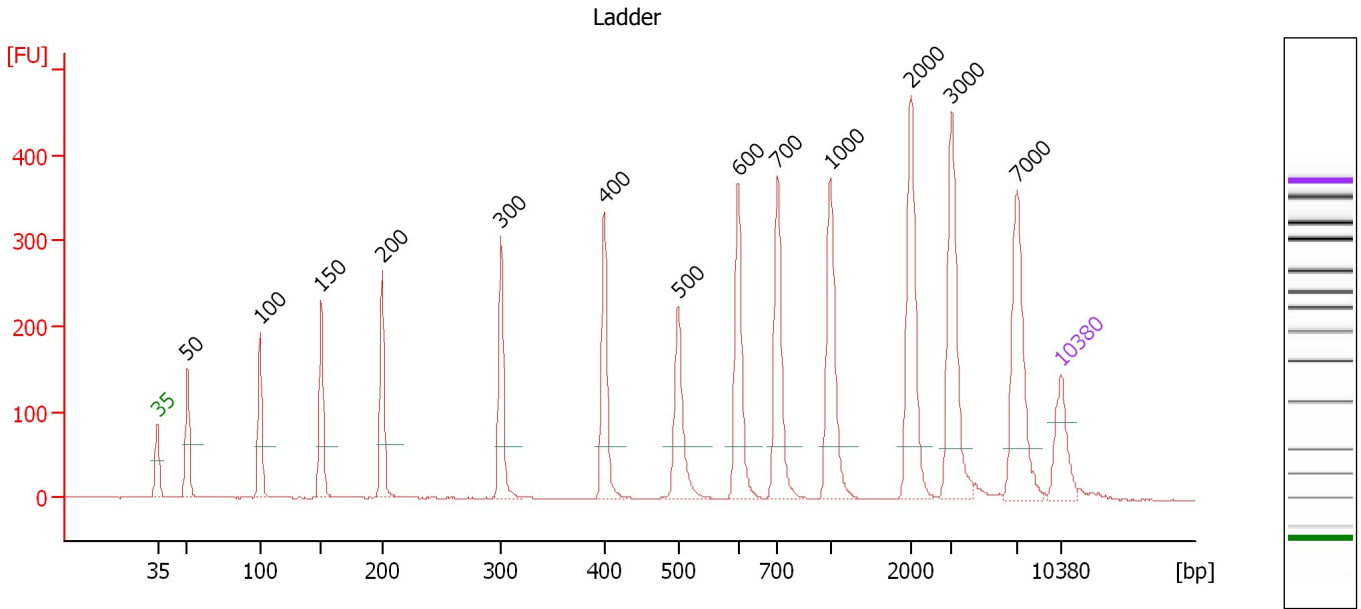
Ladder

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\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
 Modified: 8/22/2018 5:44:34 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

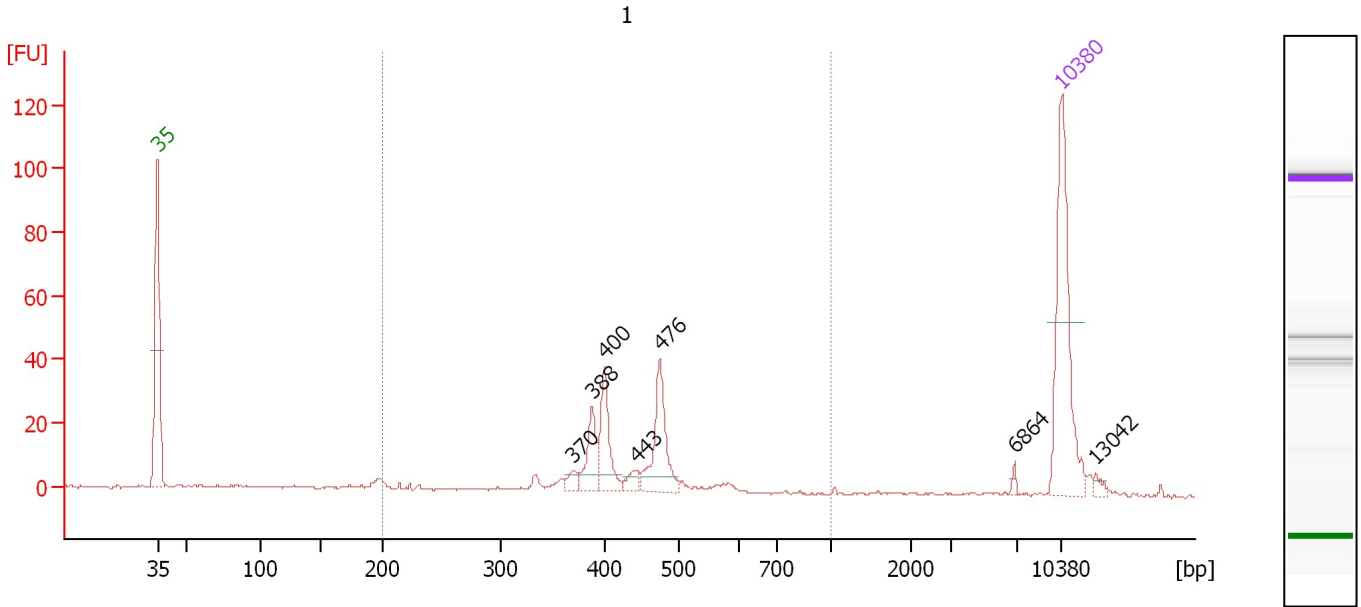
Peak table for Ladder

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	45.31
3	100	150.00	2,272.7	Ladder Peak	50.95
4	150	150.00	1,515.2	Ladder Peak	55.70
5	200	150.00	1,136.4	Ladder Peak	60.41
6	300	150.00	757.6	Ladder Peak	69.61
7	400	150.00	568.2	Ladder Peak	77.60
8	500	150.00	454.5	Ladder Peak	83.33
9	600	150.00	378.8	Ladder Peak	87.99
10	700	150.00	324.7	Ladder Peak	91.01
11	1,000	150.00	227.3	Ladder Peak	95.10
12	2,000	150.00	113.6	Ladder Peak	101.36
13	3,000	150.00	75.8	Ladder Peak	104.52
14	7,000	150.00	32.5	Ladder Peak	109.58
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
 Modified: 8/22/2018 5:44:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1

Number of peaks found: 7 Corr. Area 1: 186.0
 Noise: 0.3

Peak table for sample 1 : 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	370	6.59	27.0		75.24
3	388	24.82	96.8		76.68
4	400	34.68	131.2		77.62
5	443	7.84	26.8		80.09
6	476	46.38	147.8		81.93
7	6,864	1.91	0.4		109.41
8	10,380	75.00	10.9	Upper Marker	113.00
9	13,042	0.00	0.0		115.69

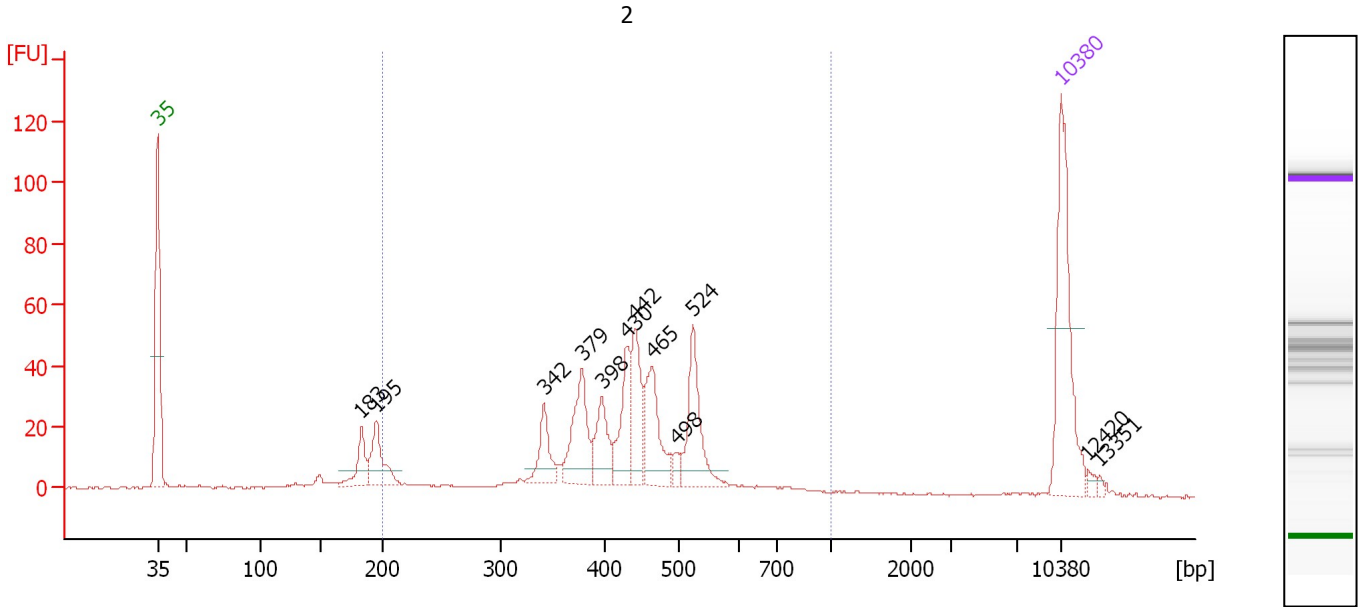
Region table for sample 1 : 1

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	428	157.53	186.0	586.6	77	18.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
 Modified: 8/22/2018 5:44:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2

Number of peaks found: 12 Corr. Area 1: 511.8
 Noise: 0.3

Peak table for sample 2 : 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	183	25.44	210.8		58.79
3	195	37.88	294.0		59.96
4	342	28.35	125.7		72.93
5	379	52.47	210.0		75.89
6	398	31.90	121.5		77.42
7	430	38.46	135.6		79.30
8	442	43.53	149.2		80.02
9	465	49.59	161.6		81.32
10	498	6.18	18.8		83.21
11	524	51.68	149.4		84.46
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,420	0.00	0.0		115.06
14	13,351	0.00	0.0		116.01

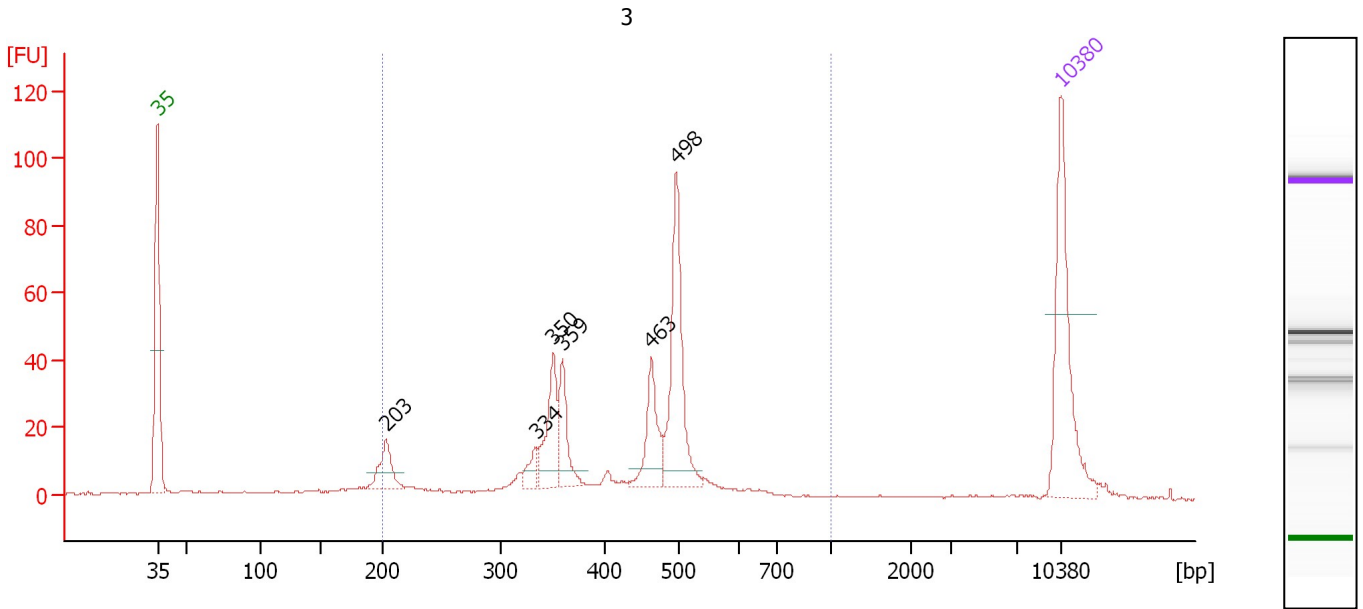
Region table for sample 2 : 2

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	433	409.72	511.8	1,553.4	80	22.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
 Modified: 8/22/2018 5:44:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3

Number of peaks found: 6 Corr. Area 1: 420.0
 Noise: 0.3

Peak table for sample 3 : 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	203	28.39	211.7		60.70
3	334	13.05	59.2		72.31
4	350	44.93	194.3		73.63
5	359	33.61	141.7		74.36
6	463	39.59	129.5		81.23
7	498	95.66	291.3		83.19
8	10,380	75.00	10.9	Upper Marker	113.00

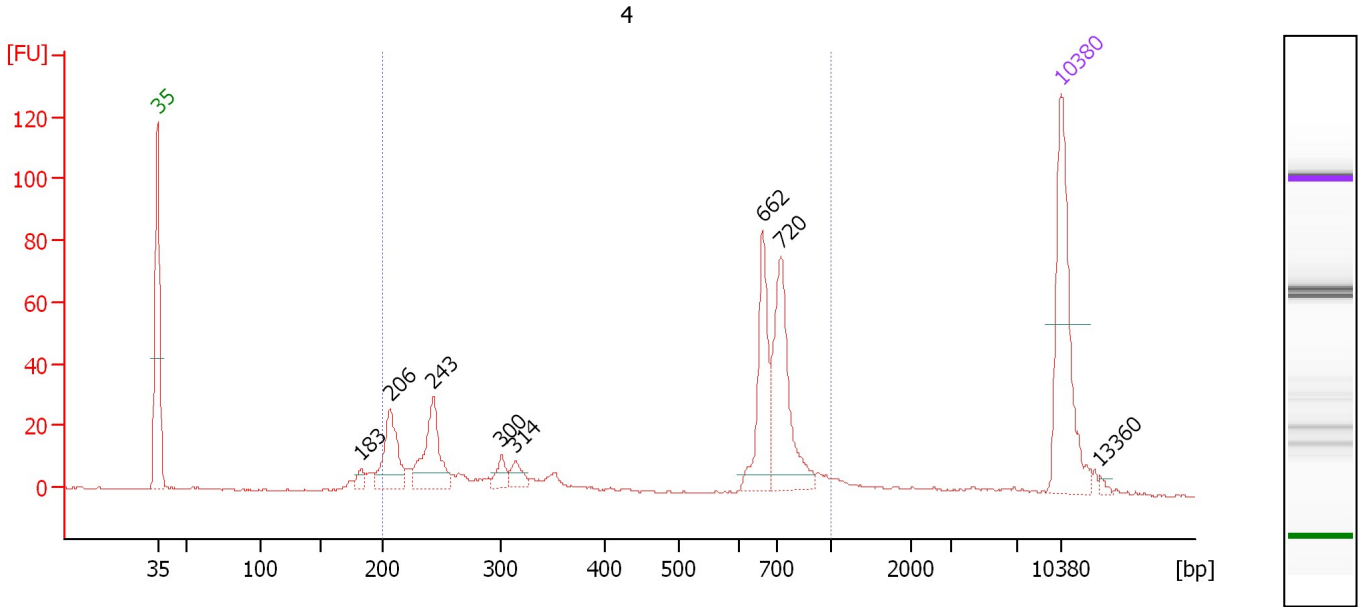
Region table for sample 3 : 3

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	425	365.11	420.0	1,460.5	82	25.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
 Modified: 8/22/2018 5:44:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 4

Number of peaks found: 8 Corr. Area 1: 424.0
 Noise: 0.4

Peak table for sample 4 : 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	183	7.77	64.5		58.77
3	206	52.27	383.7		61.00
4	243	58.23	363.5		64.34
5	300	10.83	54.7		69.63
6	314	11.23	54.2		70.74
7	662	60.60	138.8		89.85
8	720	83.32	175.3		91.29
9	10,380	75.00	10.9	Upper Marker	113.00
10	13,360	0.00	0.0		116.02

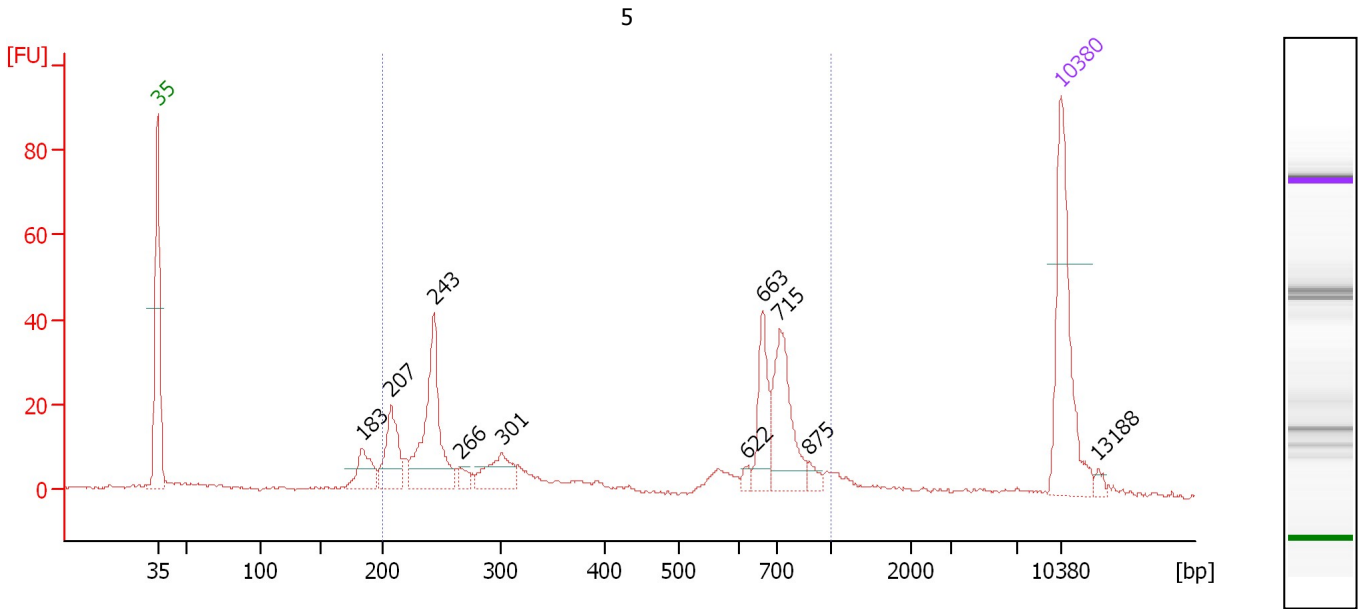
Region table for sample 4 : 4

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	536	333.25	424.0	1,395.1	84	43.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
 Modified: 8/22/2018 5:44:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 5

Number of peaks found: 10 Corr. Area 1: 363.0
 Noise: 0.4

Peak table for sample 5 : 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	183	30.14	249.5		58.82
3	207	48.12	351.5		61.09
4	243	103.99	647.2		64.41
5	266	8.18	46.7		66.44
6	301	32.36	163.0		69.66
7	622	4.78	11.6		88.66
8	663	40.30	92.1		89.89
9	715	65.61	139.1		91.21
10	875	6.20	10.7		93.39
11	10,380	75.00	10.9	Upper Marker	113.00
12	13,188	0.00	0.0		115.84

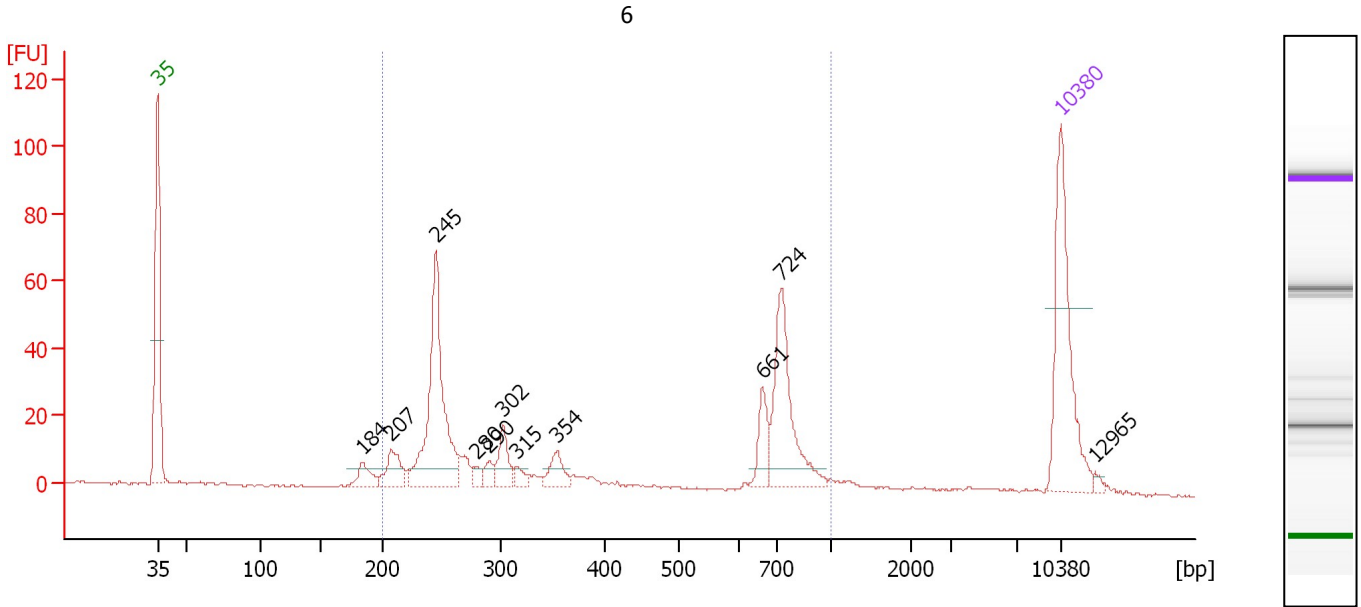
Region table for sample 5 : 5

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	488	401.54	363.0	1,817.6	76	47.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
 Modified: 8/22/2018 5:44:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 6

Number of peaks found: 11 Corr. Area 1: 408.2
 Noise: 0.3

Peak table for sample 6 : 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	184	15.37	126.6		58.89
3	207	24.35	178.1		61.07
4	245	139.54	862.6		64.56
5	280	5.51	29.8		67.75
6	290	8.20	42.8		68.67
7	302	21.66	108.6		69.79
8	315	6.82	32.8		70.81
9	354	15.53	66.4		73.96
10	661	21.07	48.3		89.84
11	724	77.92	163.0		91.35
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,965	0.00	0.0		115.62

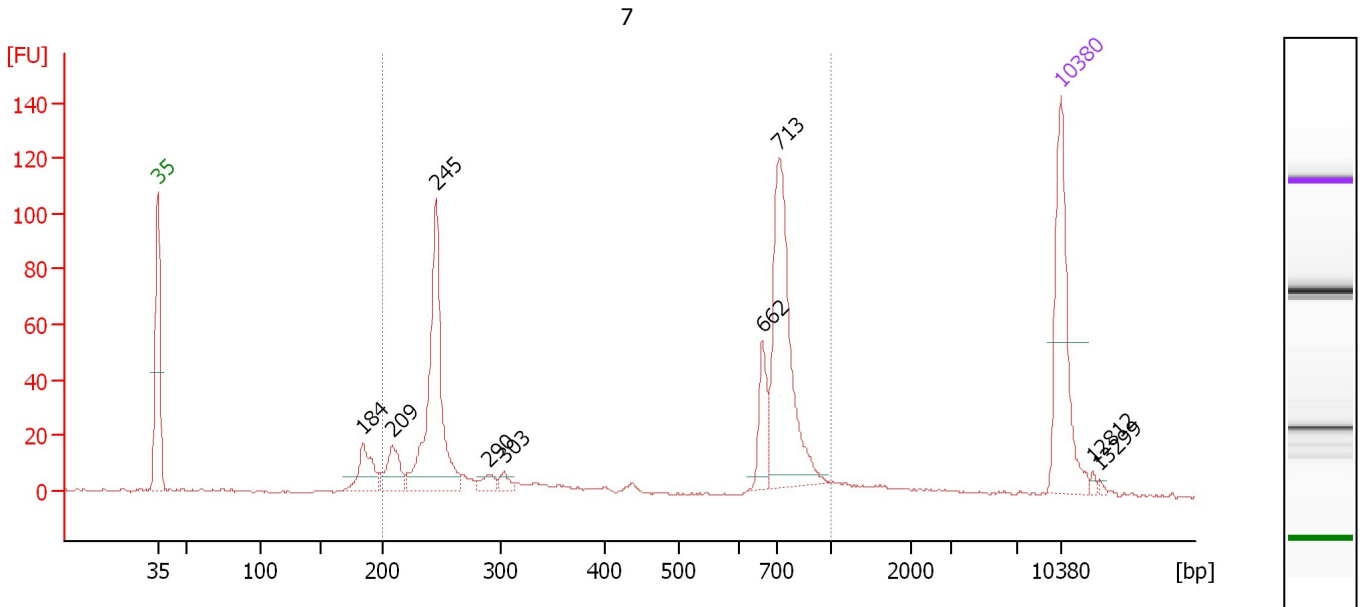
Region table for sample 6 : 6

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	374.96	408.2	1,741.3	88	50.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
 Modified: 8/22/2018 5:44:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 7

Number of peaks found: 9 Corr. Area 1: 566.3
 Noise: 0.3

Peak table for sample 7 : 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	184	35.68	293.1		58.95
3	209	30.91	224.4		61.21
4	245	166.63	1,029.9		64.56
5	290	9.48	49.6		68.65
6	303	7.09	35.5		69.83
7	662	32.41	74.2		89.86
8	713	147.87	314.2		91.19
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,812	0.00	0.0		115.46
11	13,299	0.00	0.0		115.95

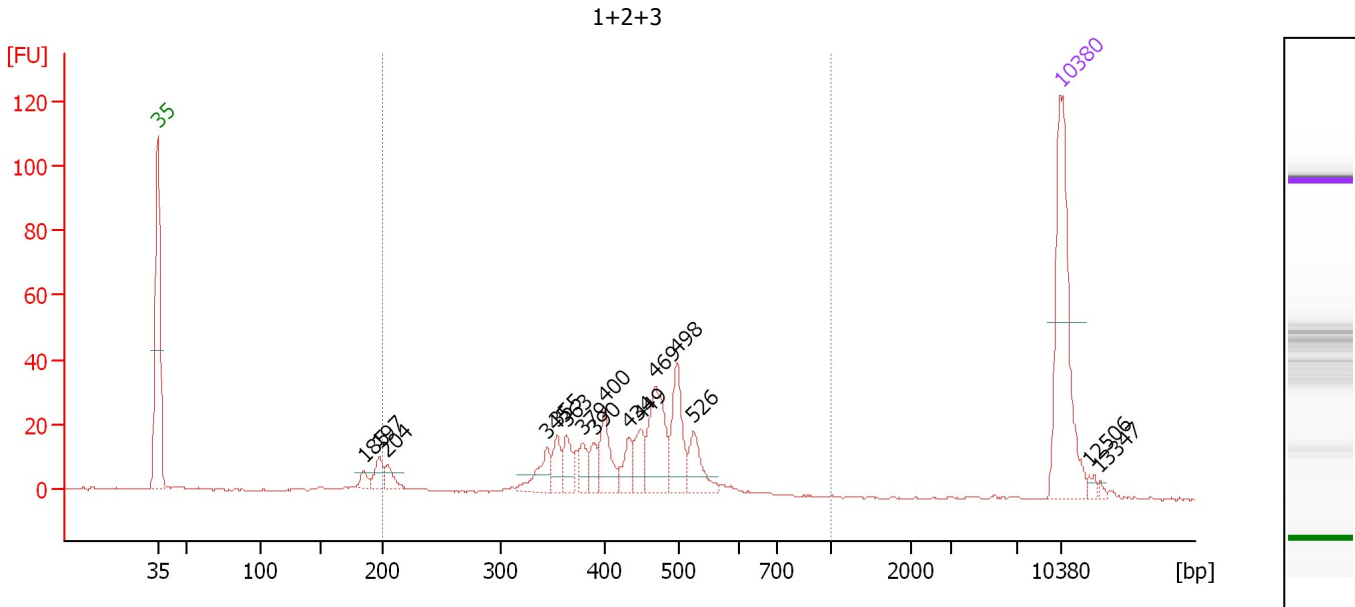
Region table for sample 7 : 7

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	529	462.27	566.3	1,992.5	83	45.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
 Modified: 8/22/2018 5:44:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 1+2+3

Number of peaks found: 16 Corr. Area 1: 323.0
 Noise: 0.2

Peak table for sample 8 : 1+2+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	185	6.58	54.0		58.96
3	197	12.14	93.2		60.16
4	204	9.50	70.4		60.81
5	345	20.15	88.4		73.22
6	355	13.50	57.7		73.97
7	363	15.19	63.3		74.67
8	379	12.85	51.3		75.92
9	390	10.79	41.9		76.82
10	400	25.61	96.9		77.62
11	434	14.42	50.4		79.53
12	449	16.56	55.9		80.43
13	469	46.62	150.7		81.53
14	498	35.08	106.7		83.23
15	526	20.95	60.4		84.53
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,506	0.00	0.0		115.15
18	13,347	0.00	0.0		116.00

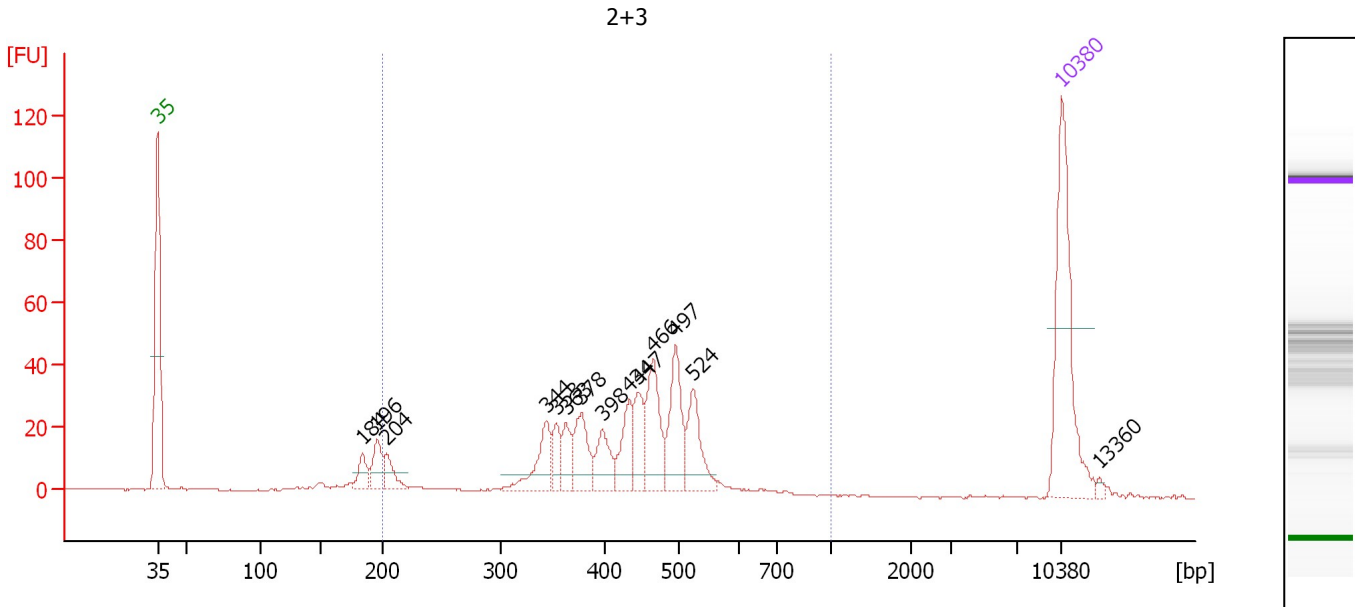
Region table for sample 8 : 1+2+3

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	431	265.21	323.0	999.9	90	18.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
 Modified: 8/22/2018 5:44:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 2+3

Number of peaks found: 14 Corr. Area 1: 468.1
 Noise: 0.3

Peak table for sample 9 : 2+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	184	13.78	113.6		58.88
3	196	20.32	157.1		60.04
4	204	15.01	111.7		60.74
5	344	29.78	131.0		73.15
6	353	15.52	66.6		73.85
7	363	16.90	70.5		74.66
8	378	30.20	121.2		75.81
9	398	22.80	86.9		77.42
10	434	26.27	91.8		79.53
11	447	21.83	74.0		80.29
12	466	43.76	142.2		81.39
13	497	43.71	133.3		83.15
14	524	32.49	93.9		84.46
15	10,380	75.00	10.9	Upper Marker	113.00
16	13,360	0.00	0.0		116.02

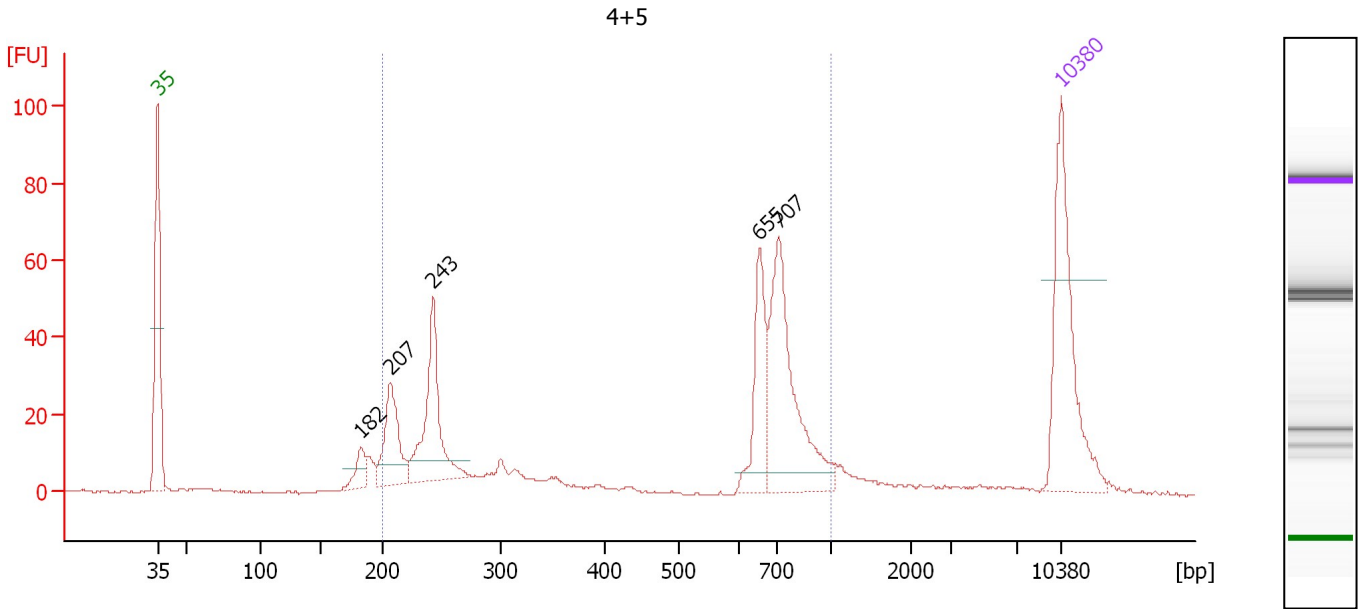
Region table for sample 9 : 2+3

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	430	349.41	468.1	1,339.9	86	21.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
 Modified: 8/22/2018 5:44:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 4+5

Number of peaks found: 5 Corr. Area 1: 471.0
 Noise: 0.3

Peak table for sample 10 : 4+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	182	16.91	140.7		58.73
3	207	52.70	385.8		61.05
4	243	82.30	512.7		64.38
5	655	51.34	118.8		89.65
6	707	113.61	243.4		91.11
7	10,380	75.00	10.9	Upper Marker	113.00

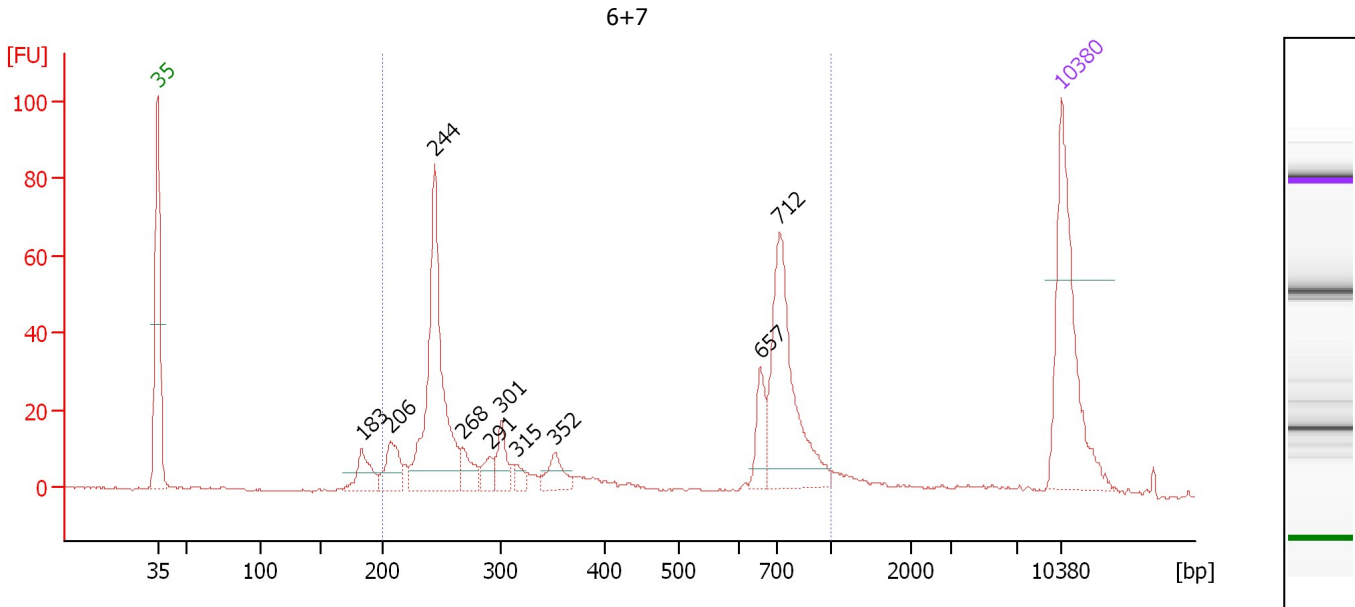
Region table for sample 10 : 4+5

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	531	381.64	471.0	1,646.1	81	45.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
 Modified: 8/22/2018 5:44:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 6+7

Number of peaks found: 10 Corr. Area 1: 499.6
 Noise: 0.3

Peak table for sample 11 : 6+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	183	23.70	196.1		58.82
3	206	26.19	192.1		61.01
4	244	149.81	929.8		64.47
5	268	14.28	80.7		66.66
6	291	10.59	55.2		68.74
7	301	18.37	92.6		69.66
8	315	6.25	30.1		70.78
9	352	15.08	64.9		73.78
10	657	20.08	46.3		89.70
11	712	101.00	215.0		91.18
12	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 6+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	484	411.60	499.6	1,866.5	84	49.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-22\2018-08-22_002.xad

Created: 8/22/2018 5:03:16 PM
Modified: 8/22/2018 5:44:34 PM

Gel Image