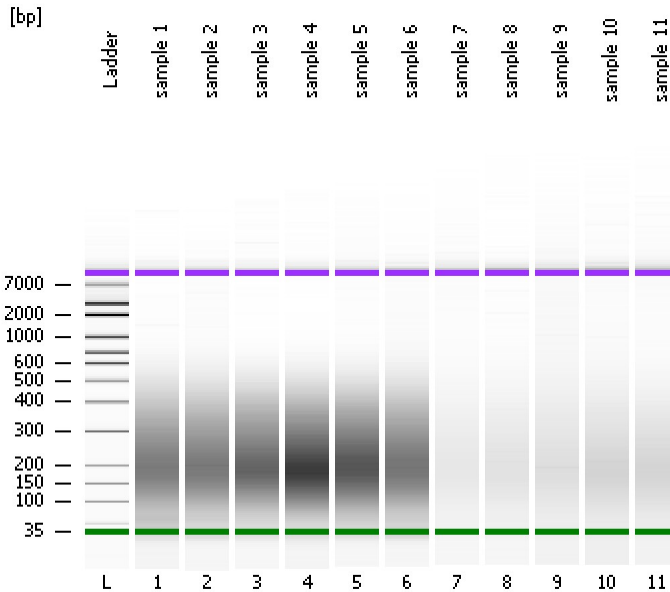


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
Modified: 8/1/2018 4:39:44 PM

Electrophoresis File Run Summary



Instrument Information:

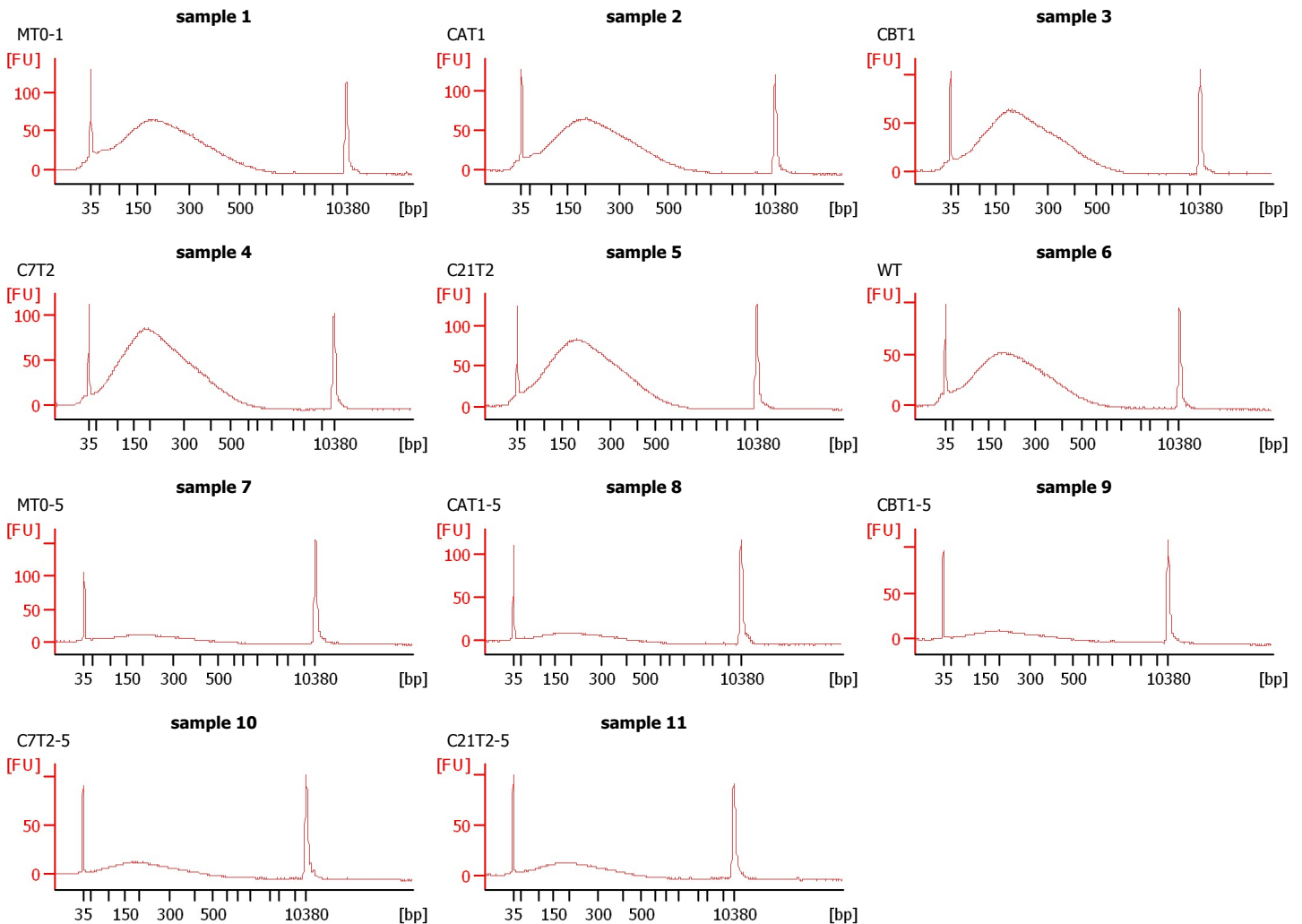
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
Modified: 8/1/2018 4:39:44 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1	MT0-1	<input type="checkbox"/>	✓			
sample 2	CAT1	<input type="checkbox"/>	✓			
sample 3	CBT1	<input type="checkbox"/>	✓			
sample 4	C7T2	<input type="checkbox"/>	✓			
sample 5	C21T2	<input type="checkbox"/>	✓			
sample 6	WT	<input type="checkbox"/>	✓			
sample 7	MT0-5	<input type="checkbox"/>	✓			
sample 8	CAT1-5	<input type="checkbox"/>	✓			
sample 9	CBT1-5	<input type="checkbox"/>	✓			
sample 10	C7T2-5	<input type="checkbox"/>	✓			
sample 11	C21T2-5	<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\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
Modified: 8/1/2018 4:39:44 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

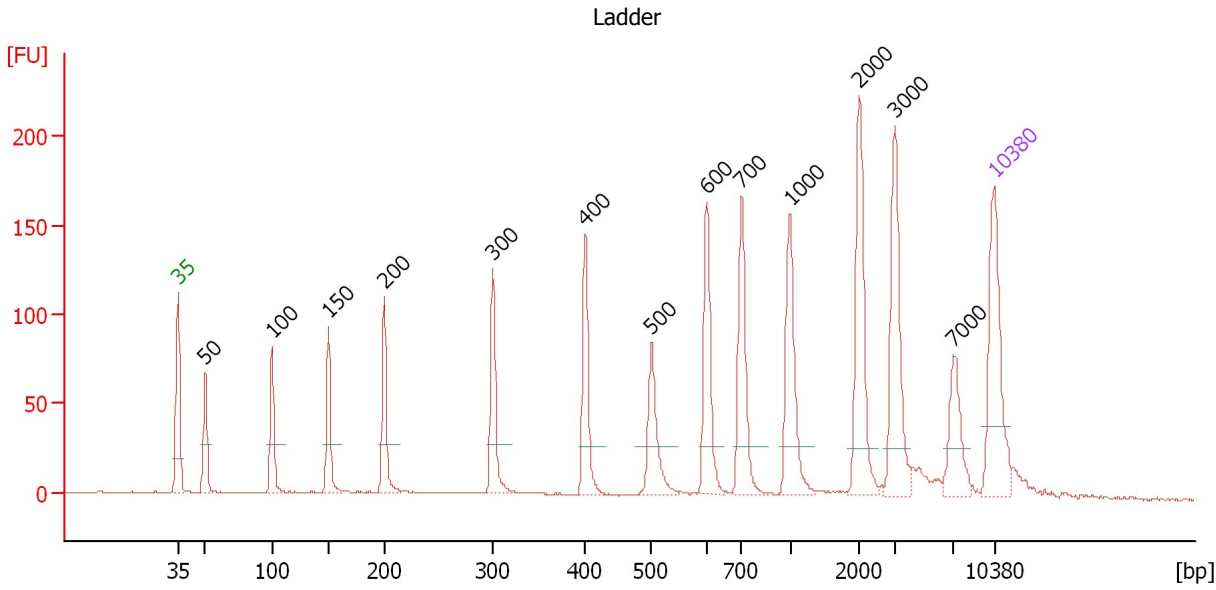
Ladder

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\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
 Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

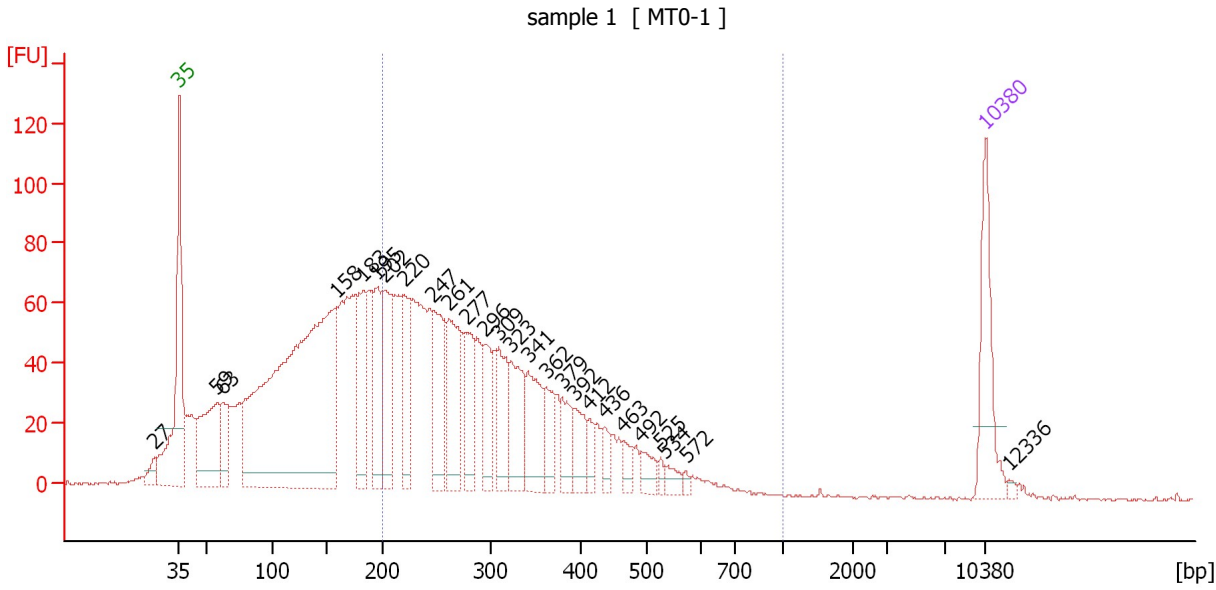
Peak table for Ladder

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	45.33
3	100	150.00	2,272.7	Ladder Peak	51.09
4	150	150.00	1,515.2	Ladder Peak	55.89
5	200	150.00	1,136.4	Ladder Peak	60.69
6	300	150.00	757.6	Ladder Peak	70.02
7	400	150.00	568.2	Ladder Peak	77.93
8	500	150.00	454.5	Ladder Peak	83.60
9	600	150.00	378.8	Ladder Peak	88.36
10	700	150.00	324.7	Ladder Peak	91.33
11	1,000	150.00	227.3	Ladder Peak	95.49
12	2,000	150.00	113.6	Ladder Peak	101.43
13	3,000	150.00	75.8	Ladder Peak	104.45
14	7,000	150.00	32.5	Ladder Peak	109.48
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
 Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 26 Corr. Area 1: 1,493.4
 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	27	0.00	0.0		40.82
2	35	125.00	5,411.3	Lower Marker	43.00
3	59	163.40	4,218.2		46.33
4	63	64.17	1,550.4		46.80
5	158	879.87	8,439.9		56.66
6	183	126.46	1,049.7		59.02
7	195	110.24	856.2		60.22
8	202	125.57	942.4		60.87
9	220	99.20	684.0		62.54
10	247	118.30	725.5		65.08
11	261	130.72	757.5		66.43
12	277	73.38	400.9		67.91
13	296	61.25	313.9		69.62
14	309	75.63	370.9		70.73
15	323	86.74	406.9		71.84
16	341	87.62	389.1		73.28
17	362	45.41	190.3		74.90
18	379	40.36	161.3		76.29
19	392	39.61	153.1		77.31
20	412	20.77	76.4		78.60
21	436	20.27	70.5		79.94
22	463	19.14	62.6		81.52
23	492	22.04	67.9		83.14
24	525	7.34	21.2		84.81
25	534	14.31	40.6		85.22

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
 Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	572	4.31	11.4		87.03
27	10,380	75.00	10.9	Upper Marker	113.00
28	12,336	0.00	0.0		115.04

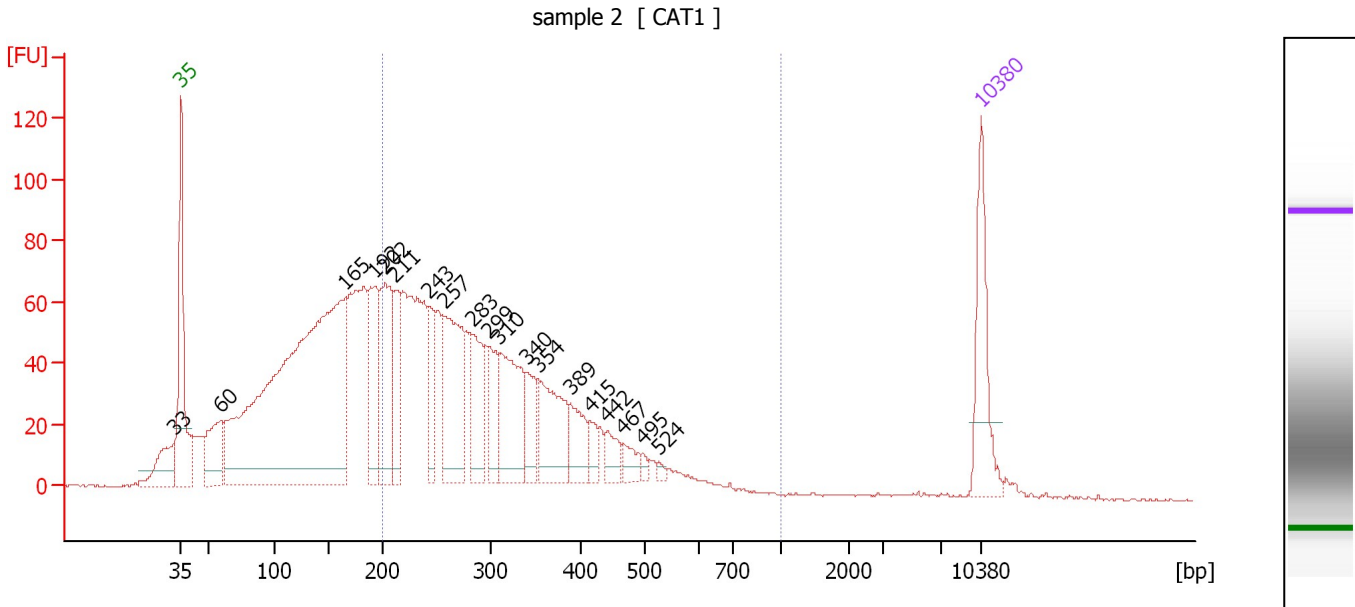
Region table for sample 1 : sample 1

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	312	1,597.44	1,493.4	8,540.9	49	29.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
 Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 19 Corr. Area 1: 1,466.4
 Noise: 0.4

Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.39
2	35	125.00	5,411.3	Lower Marker	43.00
3	60	96.77	2,439.0		46.50
4	165	975.77	8,943.3		57.36
5	192	136.23	1,074.9		59.93
6	202	150.33	1,128.8		60.86
7	211	80.49	578.5		61.70
8	243	62.19	388.1		64.69
9	257	174.13	1,027.4		65.99
10	283	88.65	474.1		68.46
11	299	59.90	303.3		69.96
12	310	136.87	668.2		70.84
13	340	46.05	205.0		73.22
14	354	104.70	448.1		74.29
15	389	48.86	190.4		77.04
16	415	20.69	75.6		78.77
17	442	25.38	87.0		80.31
18	467	19.27	62.6		81.71
19	495	6.23	19.0		83.34
20	524	4.75	13.7		84.74
21	10,380	75.00	10.9	Upper Marker	113.00

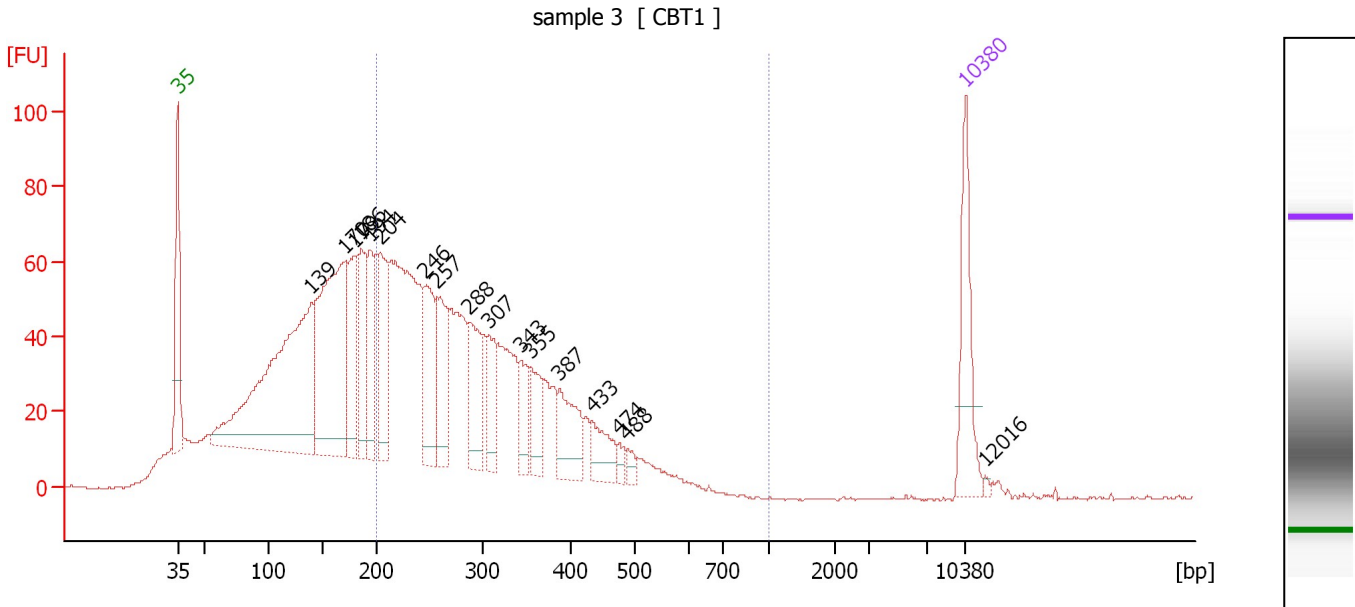
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	312	1,538.12	1,466.4	8,240.7	51	30.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
 Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 17 Corr. Area 1: 1,335.4
 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	139	551.25	5,989.8		54.88
3	170	381.04	3,386.2		57.86
4	179	112.58	950.9		58.71
5	186	113.91	929.1		59.33
6	194	91.45	715.5		60.09
7	204	118.30	880.3		61.03
8	246	114.46	704.2		65.01
9	257	100.30	590.4		66.05
10	288	90.99	478.9		68.89
11	307	55.91	275.7		70.59
12	343	45.34	200.2		73.43
13	355	49.60	211.6		74.38
14	387	70.64	276.7		76.89
15	433	44.68	156.2		79.82
16	474	10.21	32.6		82.14
17	488	10.98	34.0		82.95
18	10,380	75.00	10.9	Upper Marker	113.00
19	12,016	0.00	0.0		114.70

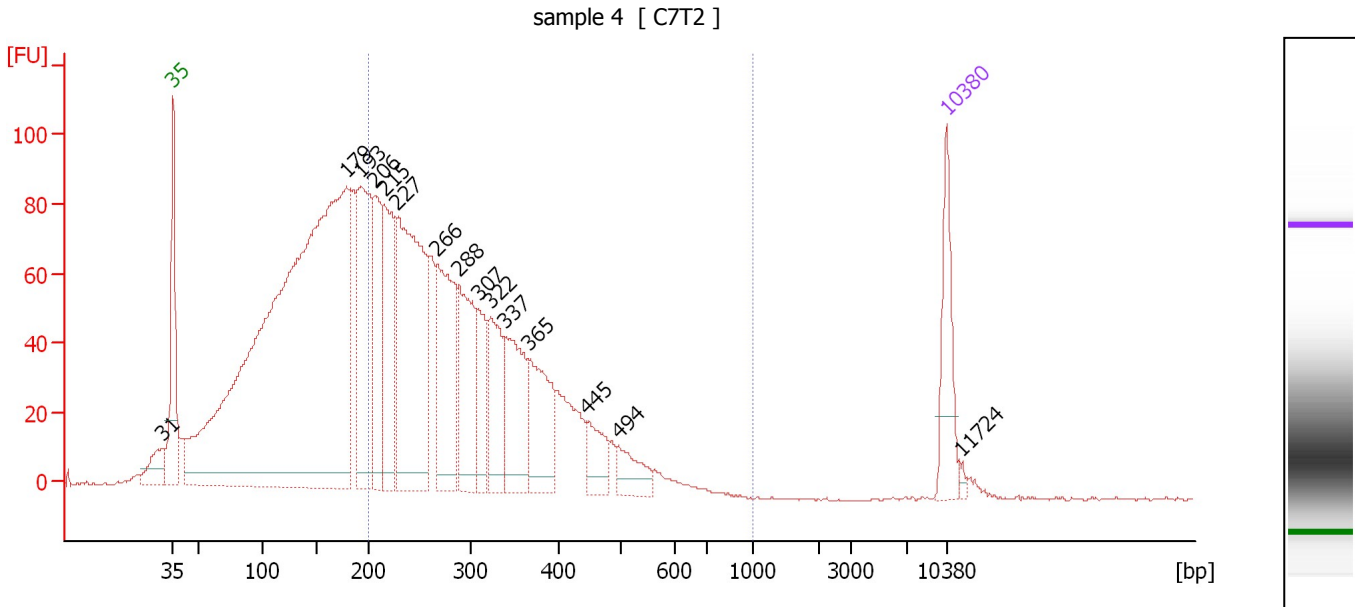
Region table for sample 3 : sample 3

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	308	1,714.81	1,335.4	9,229.6	51	28.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
 Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 15 Corr. Area 1: 1,697.7
 Noise: 0.4

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.94
2	35	125.00	5,411.3	Lower Marker	43.00
3	179	1,864.50	15,771.4		58.69
4	193	310.82	2,444.0		59.99
5	206	168.83	1,242.1		61.25
6	215	201.99	1,425.2		62.07
7	227	470.75	3,139.9		63.23
8	266	231.51	1,316.2		66.90
9	288	172.25	907.1		68.88
10	307	88.84	437.8		70.61
11	322	120.33	567.0		71.72
12	337	153.12	687.6		72.98
13	365	133.36	552.9		75.20
14	445	51.80	176.2		80.51
15	494	45.41	139.3		83.26
16	10,380	75.00	10.9	Upper Marker	113.00
17	11,724	0.00	0.0		114.40

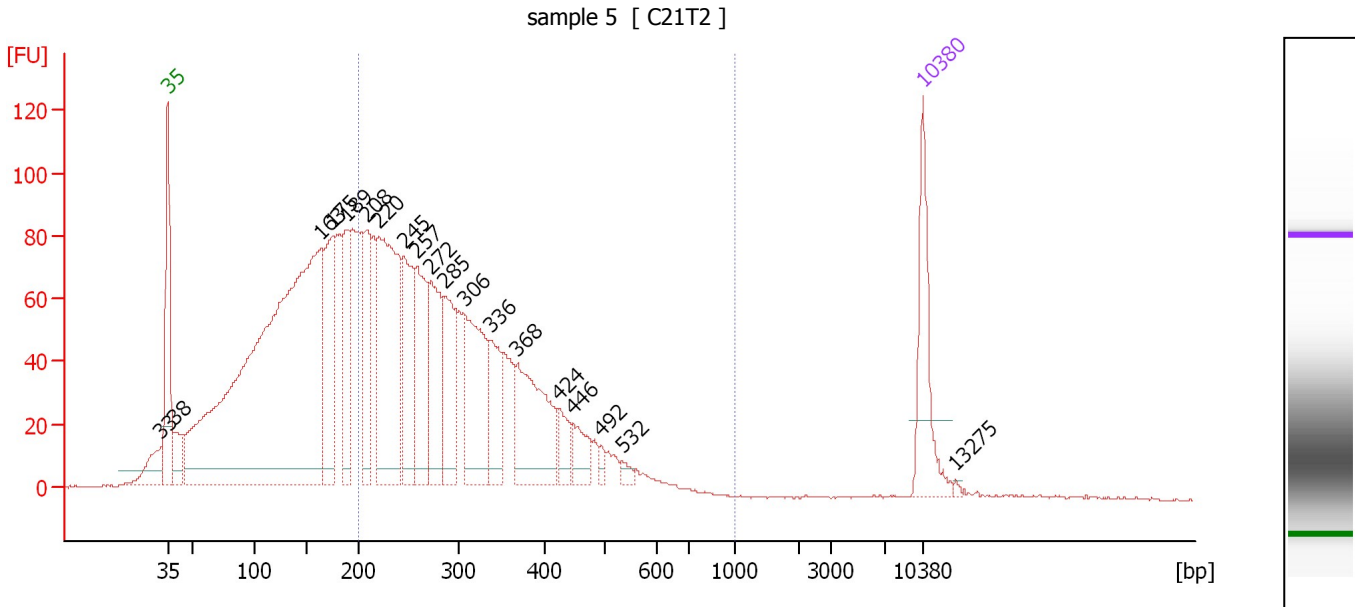
Region table for sample 4 : sample 4

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	305	2,115.15	1,697.7	11,473.9	49	28.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
 Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 19 Corr. Area 1: 1,761.4
 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	33	0.00	0.0		42.36
2	35	125.00	5,411.3	Lower Marker	43.00
3	38	42.59	1,676.1		43.54
4	163	1,214.66	11,257.6		57.19
5	175	163.70	1,414.7		58.32
6	189	108.27	866.9		59.66
7	208	116.36	847.7		61.44
8	220	312.36	2,149.5		62.58
9	245	139.17	860.4		64.90
10	257	132.92	782.8		66.04
11	272	124.75	695.9		67.37
12	285	108.35	576.4		68.61
13	306	166.53	824.9		70.49
14	336	69.84	315.0		72.86
15	368	149.13	613.4		75.43
16	424	28.31	101.2		79.29
17	446	34.64	117.8		80.52
18	492	8.17	25.2		83.14
19	532	8.61	24.5		85.12
20	10,380	75.00	10.9	Upper Marker	113.00
21	13,275	0.00	0.0		116.02

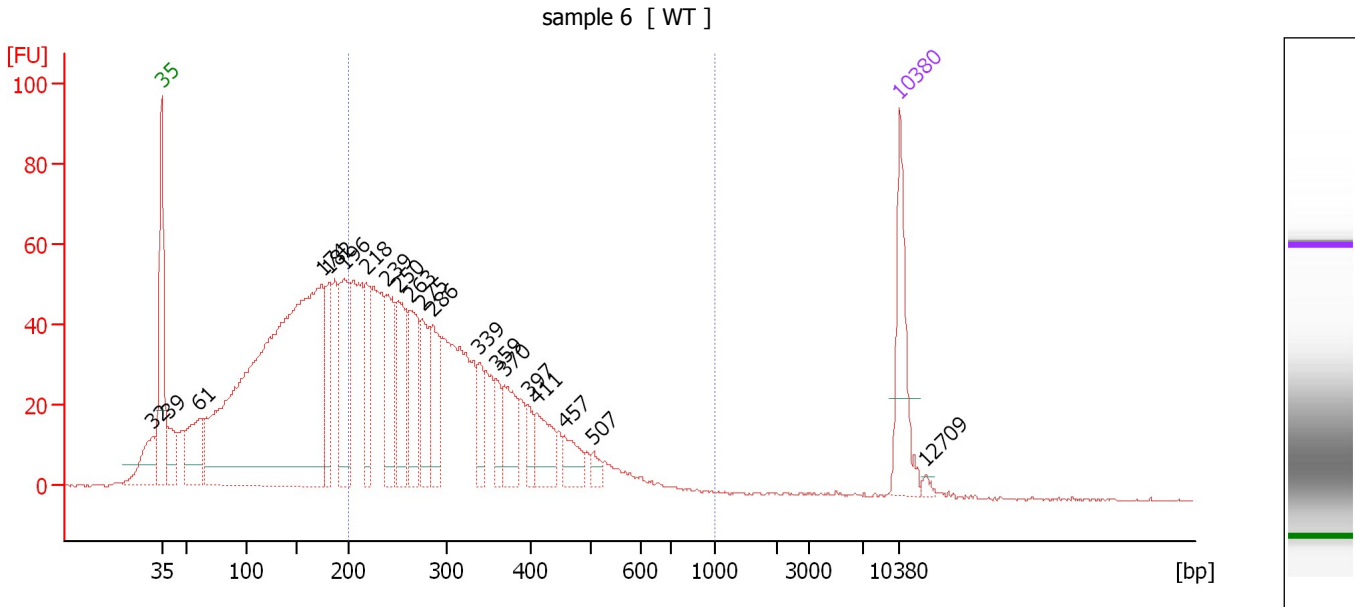
Region table for sample 5 : sample 5

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	308	1,747.27	1,761.4	9,404.7	51	29.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
 Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 20 Corr. Area 1: 1,163.9
 Noise: 0.3

Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.14
2	35	125.00	5,411.3	Lower Marker	43.00
3	39	51.61	2,010.2		43.61
4	61	106.09	2,639.3		46.59
5	174	1,115.04	9,700.7		58.21
6	182	92.73	774.0		58.92
7	196	145.14	1,123.5		60.29
8	218	82.57	572.9		62.41
9	239	107.06	678.8		64.33
10	250	110.71	670.0		65.39
11	263	92.29	532.1		66.55
12	275	80.19	442.3		67.66
13	286	78.60	417.0		68.68
14	339	39.41	176.1		73.12
15	359	30.27	127.7		74.69
16	370	66.27	271.5		75.55
17	397	20.61	78.6		77.72
18	411	53.42	197.1		78.53
19	457	34.00	112.8		81.16
20	507	11.43	34.2		83.94
21	10,380	75.00	10.9	Upper Marker	113.00
22	12,709	0.00	0.0		115.43

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary Continued ...

... Region table for sample 6 :

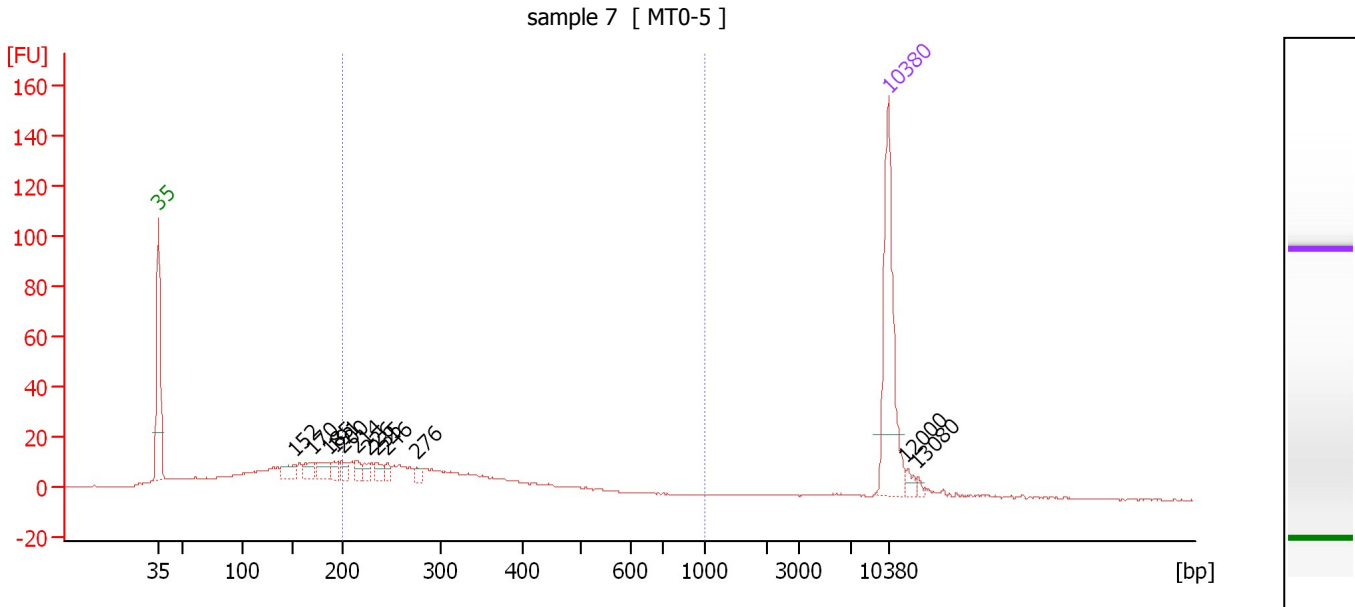
sample 6

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	316	1,638.80	1,163.9	8,730.5	 50	31.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
 Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 12 Corr. Area 1: 236.8
 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	152	13.22	132.2		56.04
3	170	12.63	112.5		57.83
4	185	14.51	118.8		59.26
5	191	7.35	58.1		59.87
6	200	8.89	67.4		60.69
7	214	6.95	49.2		62.02
8	226	8.86	59.3		63.15
9	235	8.49	54.7		63.96
10	246	5.84	36.0		64.99
11	276	5.32	29.2		67.80
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,000	0.00	0.0		114.69
14	13,080	0.00	0.0		115.81

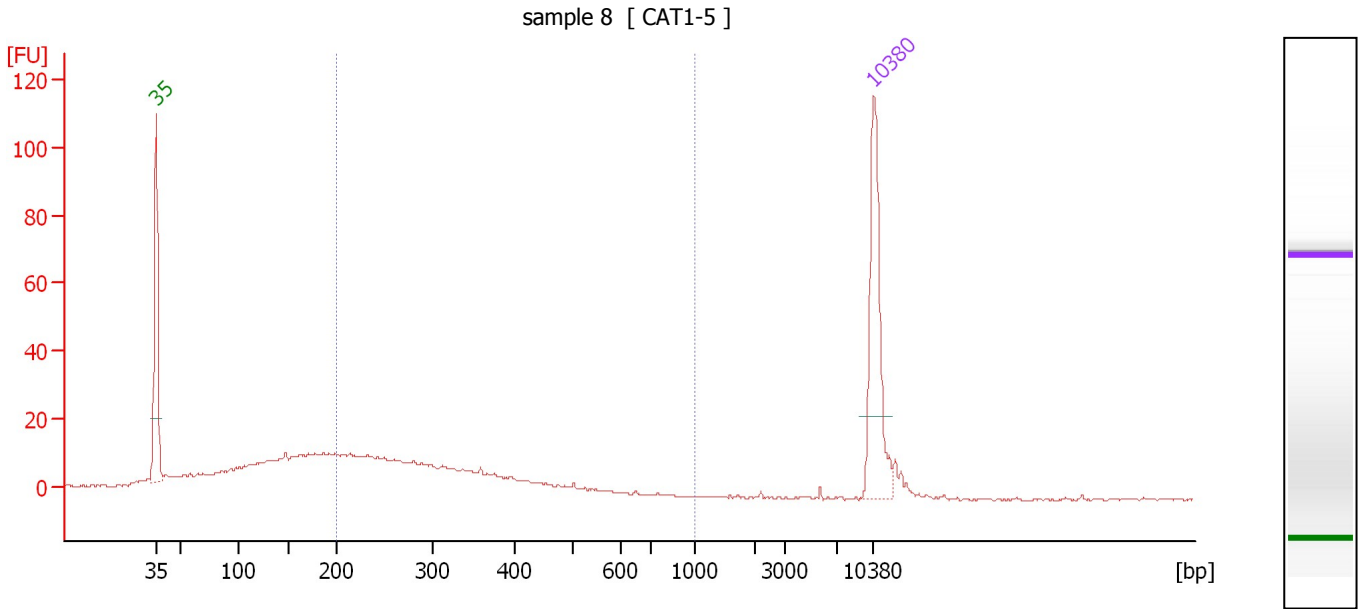
Region table for sample 7 : sample 7

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	307	194.07	236.8	1,046.1	48	28.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
 Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 0 Corr. Area 1: 220.1
 Noise: 0.3

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	10,380	75.00	10.9	Upper Marker	113.00

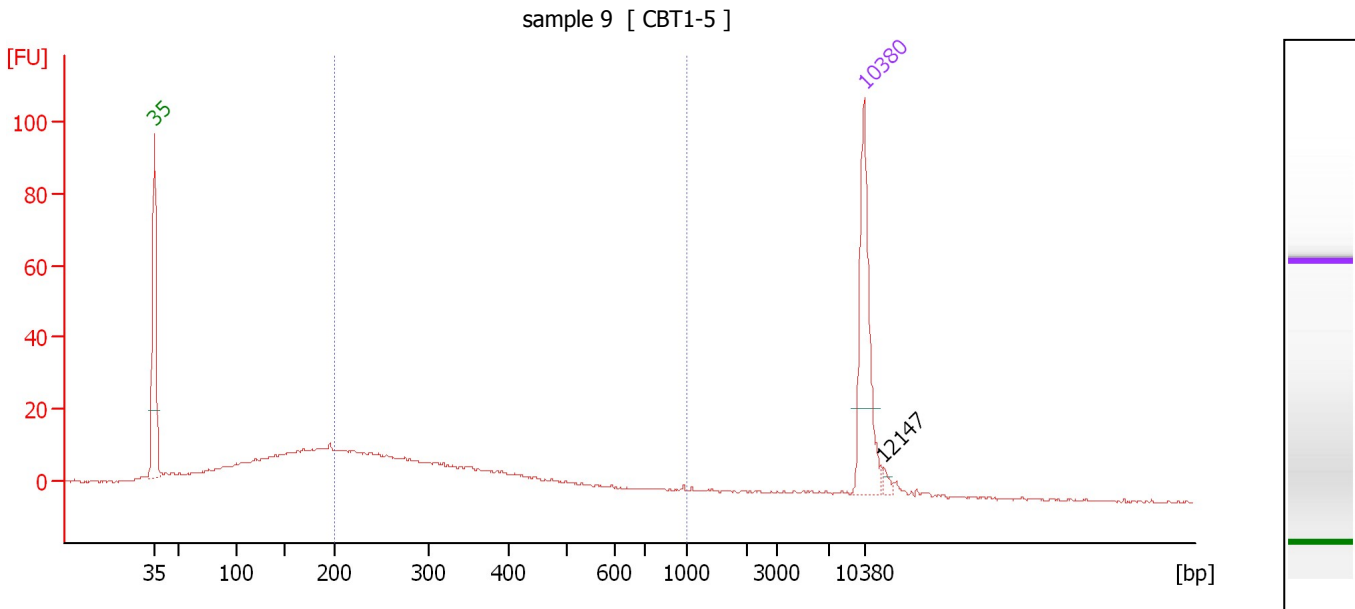
Region table for sample 8 : sample 8

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	304	216.59	220.1	1,171.6	47	26.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
 Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 1 Corr. Area 1: 210.6
 Noise: 0.2

Peak table for sample 9 : sample 9

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	10,380	75.00	10.9	Upper Marker	113.00
3	12,147	0.00	0.0		114.84

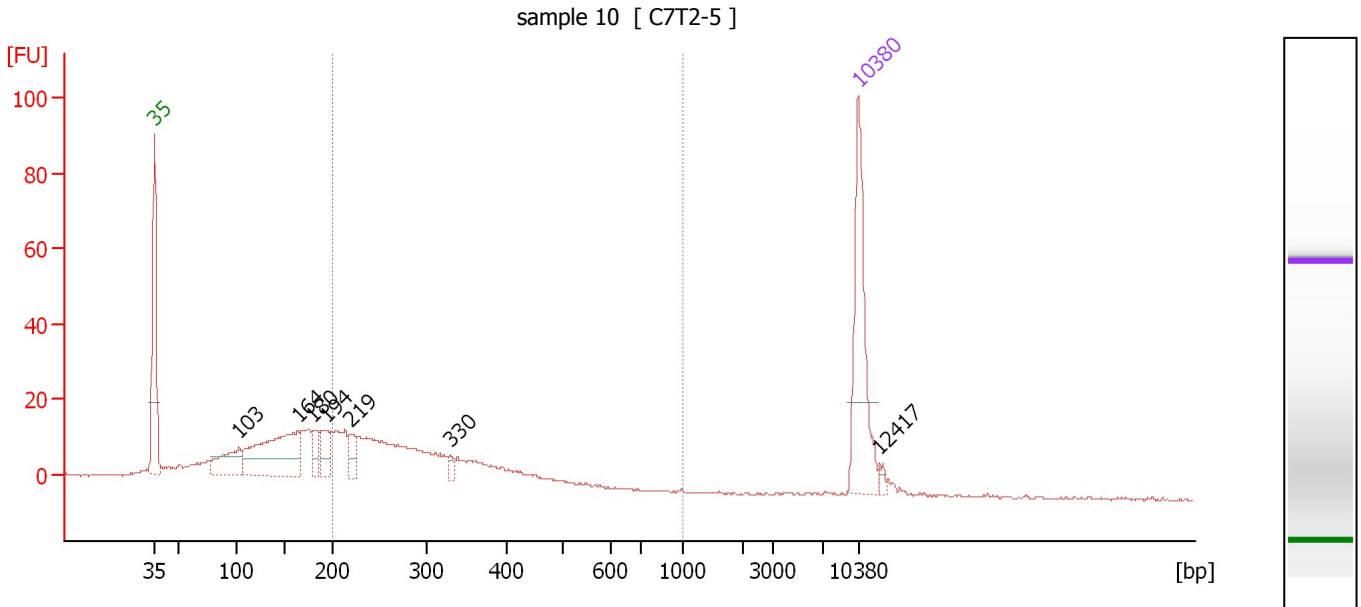
Region table for sample 9 : sample 9

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	323	240.06	210.6	1,271.9	51	35.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
 Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 7 Corr. Area 1: 245.9
 Noise: 0.3

Peak table for sample 10 : sample 10

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	103	47.79	703.2		51.38
3	164	122.96	1,134.0		57.27
4	180	18.15	153.0		58.75
5	194	25.46	199.3		60.08
6	219	14.97	103.6		62.46
7	330	6.10	27.9		72.43
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,417	0.00	0.0		115.12

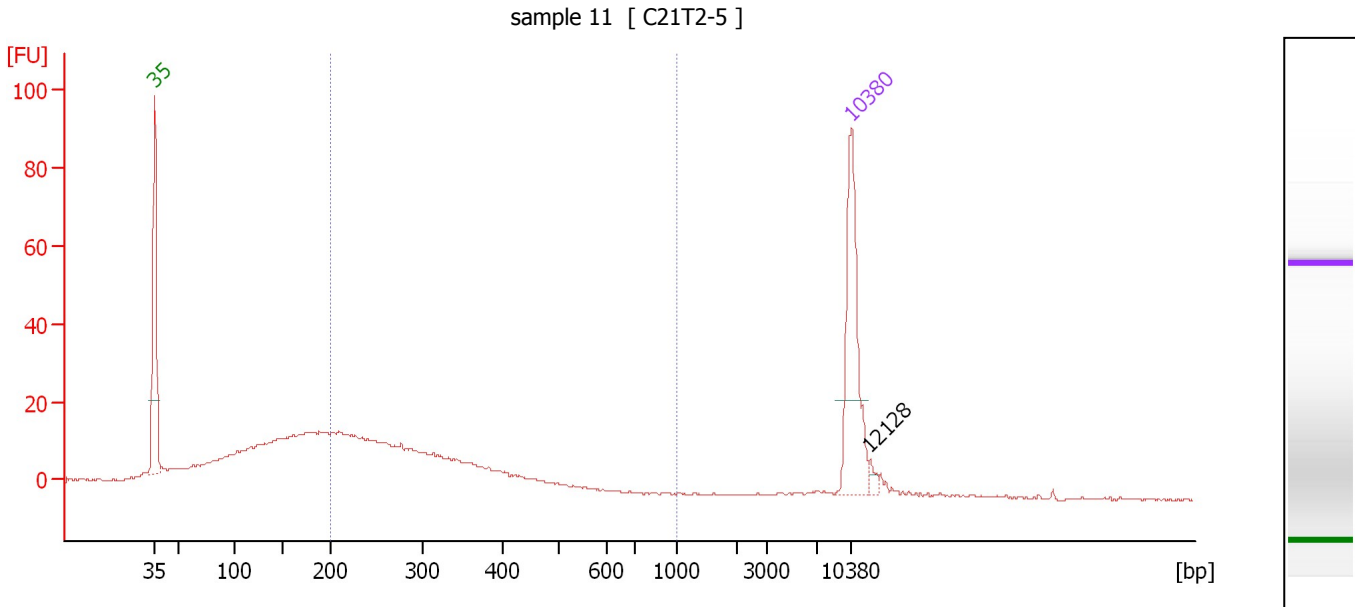
Region table for sample 10 : sample 10

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	296	271.75	245.9	1,494.7	47	25.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
 Modified: 8/1/2018 4:39:44 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 1 Corr. Area 1: 243.9
 Noise: 0.3

Peak table for sample 11 : sample 11

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	10,380	75.00	10.9	Upper Marker	113.00
3	12,128	0.00	0.0		114.82

Region table for sample 11 : sample 11

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	292	274.87	243.9	1,523.4	47	24.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-01\2018-08-01_003.xad

Created: 8/1/2018 3:58:26 PM
Modified: 8/1/2018 4:39:44 PM

Gel Image

