

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-16\2019-05-16_001.xad

Created: 5/16/2019 2:25:28 PM
Modified: 5/16/2019 3:07:25 PM

Electrophoresis File Run Summary

Instrument Information:

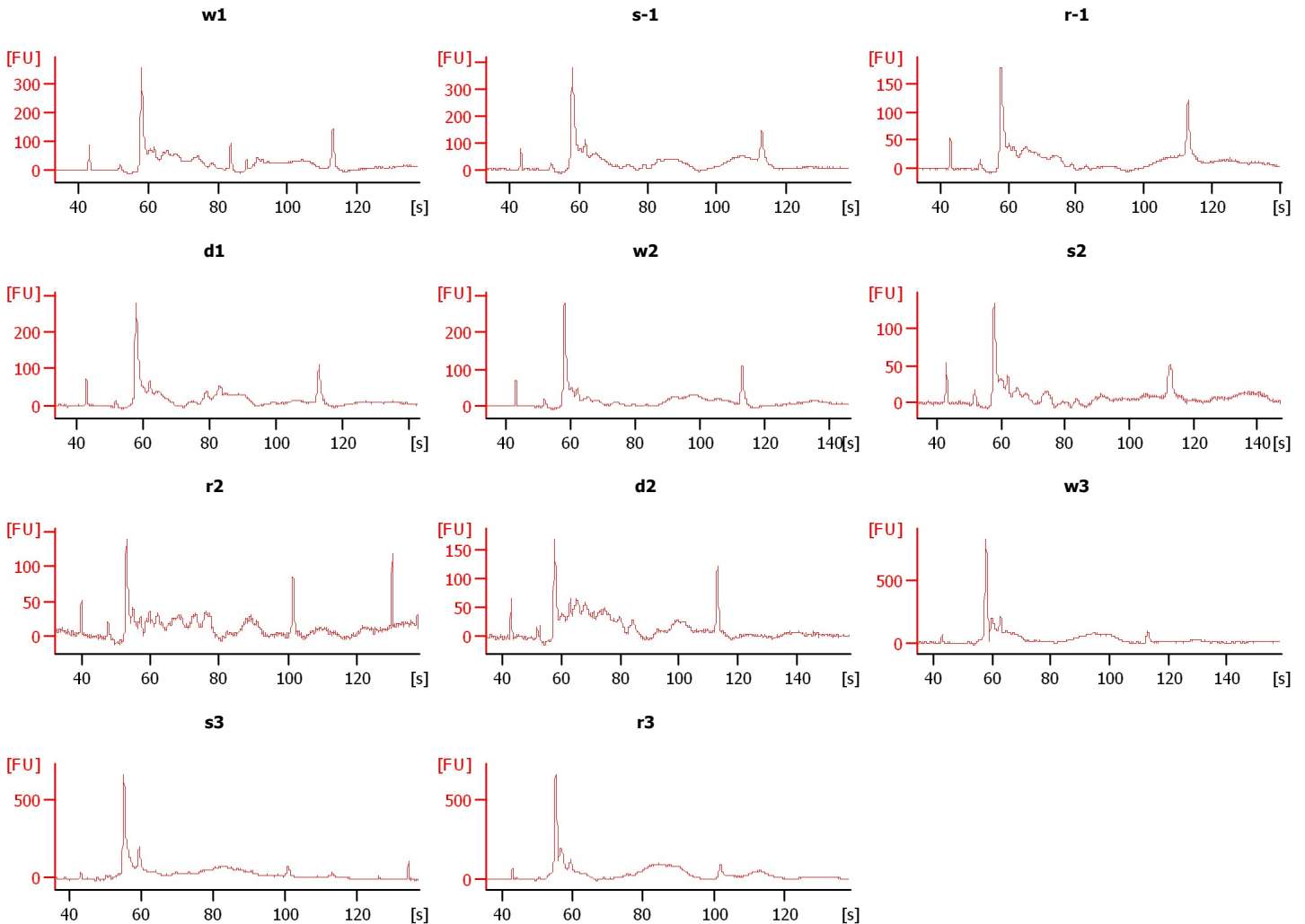
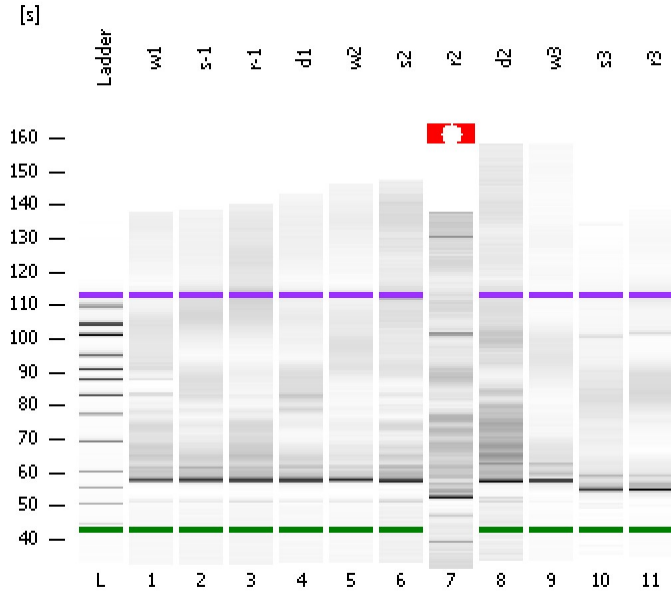
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
w1		<input type="checkbox"/>	✓			
s-1		<input type="checkbox"/>	✓			
r-1		<input type="checkbox"/>	✓			
d1		<input type="checkbox"/>	✓			
w2		<input type="checkbox"/>	✓			
s2		<input type="checkbox"/>	✓			
r2		<input type="checkbox"/>	✓			
d2		<input type="checkbox"/>	✓			
w3		<input type="checkbox"/>	✓			
s3		<input type="checkbox"/>	✓			
r3		<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/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

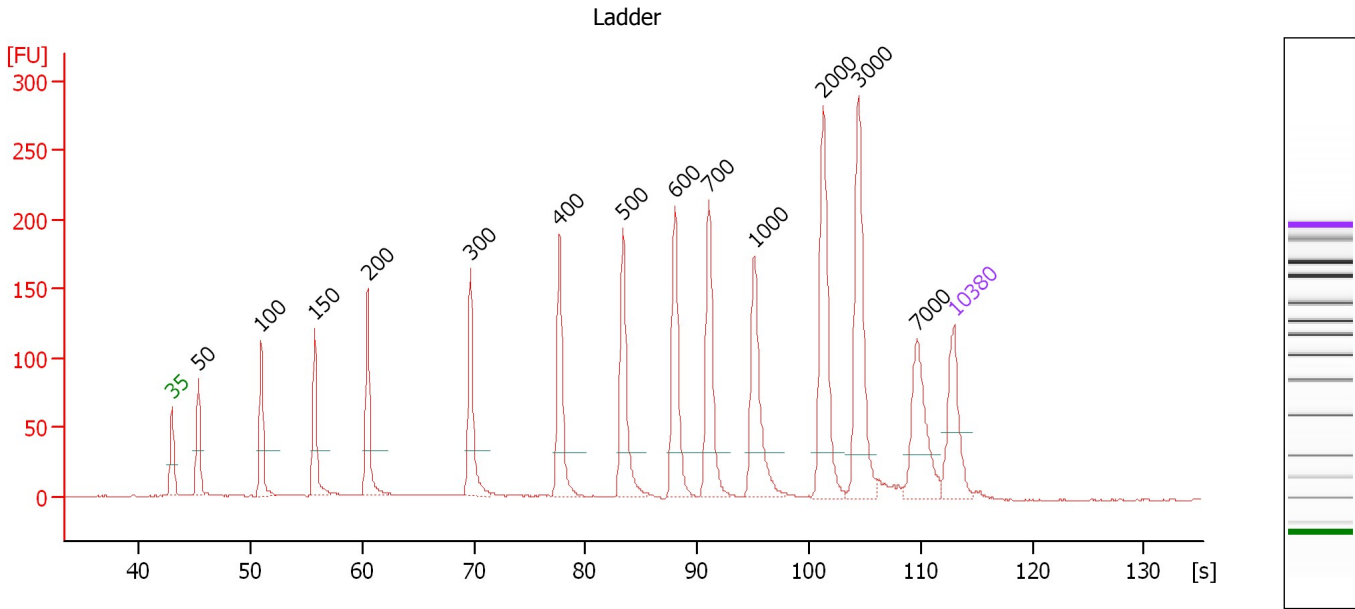
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

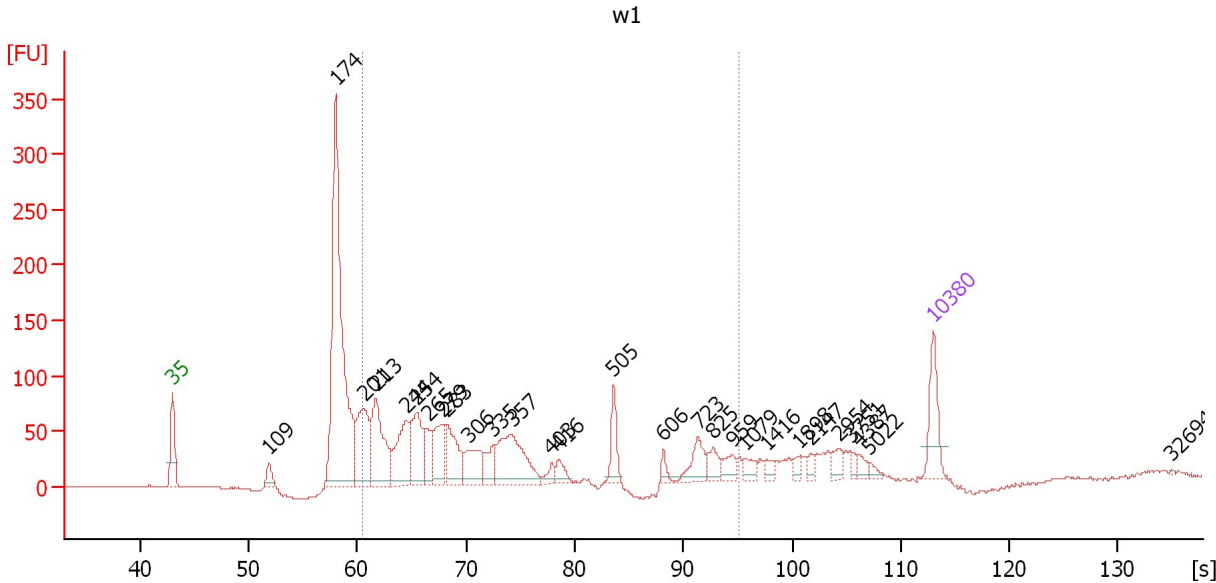
Peak table for Ladder

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	50.98
4	150	150.00	1,515.2	Ladder Peak	55.74
5	200	150.00	1,136.4	Ladder Peak	60.50
6	300	150.00	757.6	Ladder Peak	69.68
7	400	150.00	568.2	Ladder Peak	77.66
8	500	150.00	454.5	Ladder Peak	83.34
9	600	150.00	378.8	Ladder Peak	88.00
10	700	150.00	324.7	Ladder Peak	91.03
11	1,000	150.00	227.3	Ladder Peak	95.12
12	2,000	150.00	113.6	Ladder Peak	101.27
13	3,000	150.00	75.8	Ladder Peak	104.39
14	7,000	150.00	32.5	Ladder Peak	109.68
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : w1

Number of peaks found: 28 Corr. Area 1: 1,243.8
 Noise: 0.4

Peak table for sample 1 : w1

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	109	37.90	526.2		51.85
3	174	891.97	7,788.7		57.98
4	201	201.02	1,514.7		60.60
5	213	225.11	1,601.9		61.69
6	244	156.94	976.1		64.50
7	254	153.26	914.8		65.44
8	265	65.72	375.6		66.48
9	279	118.90	645.4		67.77
10	283	123.24	658.8		68.16
11	306	94.34	467.6		70.14
12	335	51.32	232.2		72.46
13	357	192.76	817.8		74.24
14	403	20.21	75.9		77.85
15	416	27.81	101.4		78.54
16	505	63.13	189.3		83.59
17	606	16.81	42.0		88.18
18	723	59.82	125.3		91.35
19	825	34.08	62.6		92.73
20	959	29.27	46.2		94.56
21	1,079	23.22	32.6		95.60
22	1,416	14.81	15.8		97.68
23	1,898	13.13	10.5		100.64
24	2,147	12.29	8.7		101.73
25	2,954	22.11	11.3		104.25

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Electropherogram Summary Continued ...

... Peak table for sample 1 : w1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,751	11.57	4.7		105.39
27	4,387	15.25	5.3		106.23
28	5,022	10.25	3.1		107.07
29	10,380	75.00	10.9	Upper Marker	113.00
30	32,694	0.00	0.0		134.90

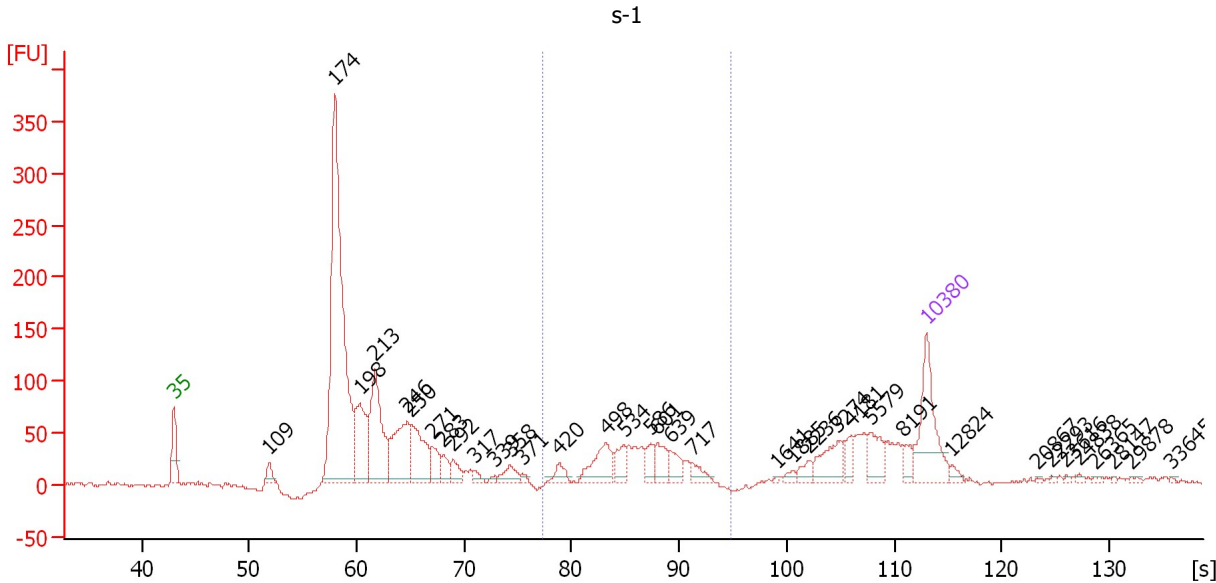
Region table for sample 1 : w1

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	370	1,458.36	1,243.8	7,543.2	56	52.6

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Electropherogram Summary Continued ...



Overall Results for sample 2 : s-1

Number of peaks found: 36 Corr. Area 1: 419.7
 Noise: 1.8

Peak table for sample 2 : s-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	109	17.47	242.7		51.84
3	174	586.48	5,117.9		57.99
4	198	104.74	802.4		60.29
5	213	154.36	1,095.6		61.74
6	246	111.48	686.3		64.73
7	250	83.65	507.1		65.08
8	271	30.83	172.3		67.03
9	283	19.33	103.7		68.08
10	292	18.93	98.1		68.98
11	317	8.14	38.9		71.03
12	339	3.82	17.0		72.83
13	358	19.18	81.3		74.28
14	371	4.69	19.1		75.38
15	420	15.14	54.6		78.82
16	498	51.44	156.5		83.22
17	534	25.42	72.1		84.92
18	586	17.94	46.4		87.37
19	601	26.17	66.0		88.02
20	639	22.02	52.3		89.17
21	717	14.54	30.7		91.27
22	1,641	1.39	1.3		99.06
23	1,885	5.02	4.0		100.56
24	2,236	10.40	7.0		102.01
25	3,274	36.32	16.8		104.76

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Electropherogram Summary Continued ...

... Peak table for sample 2 : s-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,181	15.39	5.6		105.96
27	5,579	27.78	7.5		107.80
28	8,191	13.51	2.5		110.85
29	10,380	75.00	10.9	Upper Marker	113.00
30	12,824	0.00	0.0		115.40
31	20,867	0.00	0.0		123.29
32	22,293	0.00	0.0		124.69
33	23,616	0.00	0.0		125.99
34	24,838	0.00	0.0		127.19
35	26,365	0.00	0.0		128.69
36	28,147	0.00	0.0		130.44
37	29,878	0.00	0.0		132.14
38	33,645	0.00	0.0		135.83

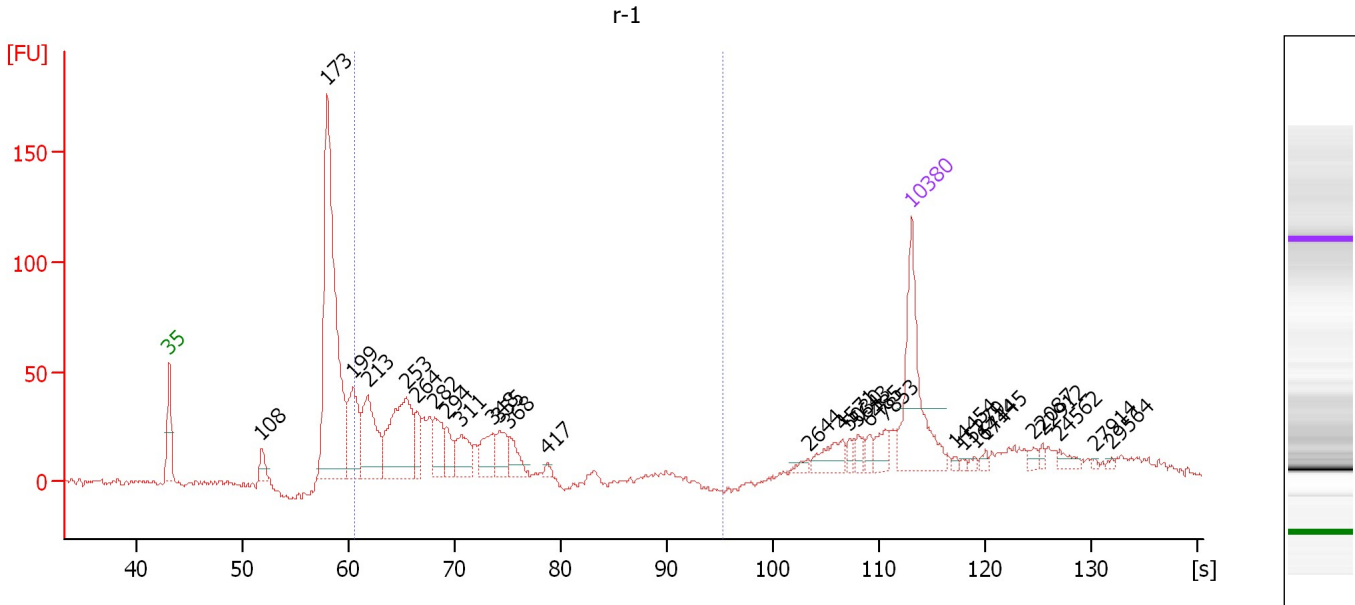
Region table for sample 2 : s-1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
396	982	570	222.65	419.7	608.7	16	15.4

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Electropherogram Summary Continued ...



Overall Results for sample 3 : r-1

Number of peaks found: 28 Corr. Area 1: 592.4
 Noise: 1.4

Peak table for sample 3 : r-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	108	15.59	219.5		51.71
3	173	348.30	3,050.1		57.93
4	199	70.28	536.3		60.36
5	213	82.20	583.7		61.73
6	253	114.16	683.6		65.37
7	264	23.46	134.6		66.38
8	282	32.12	172.7		68.00
9	294	18.77	96.8		69.12
10	311	32.77	159.8		70.53
11	348	30.24	131.6		73.52
12	355	23.88	101.9		74.08
13	368	18.17	74.9		75.09
14	417	3.29	11.9		78.63
15	2,644	3.87	2.2		103.28
16	4,571	17.77	5.9		106.47
17	5,030	4.95	1.5		107.08
18	5,643	6.97	1.9		107.89
19	6,485	5.51	1.3		109.00
20	7,853	12.04	2.3		110.52
21	10,380	75.00	10.9	Upper Marker	113.00
22	14,454	0.00	0.0		117.00
23	15,279	0.00	0.0		117.81
24	16,414	0.00	0.0		118.92
25	17,445	0.00	0.0		119.93

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Electropherogram Summary Continued ...

... Peak table for sample 3 : r-1

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	22,087	0.00	0.0		124.49
27	22,912	0.00	0.0		125.30
28	24,562	0.00	0.0		126.92
29	27,914	0.00	0.0		130.21
30	29,564	0.00	0.0		131.83

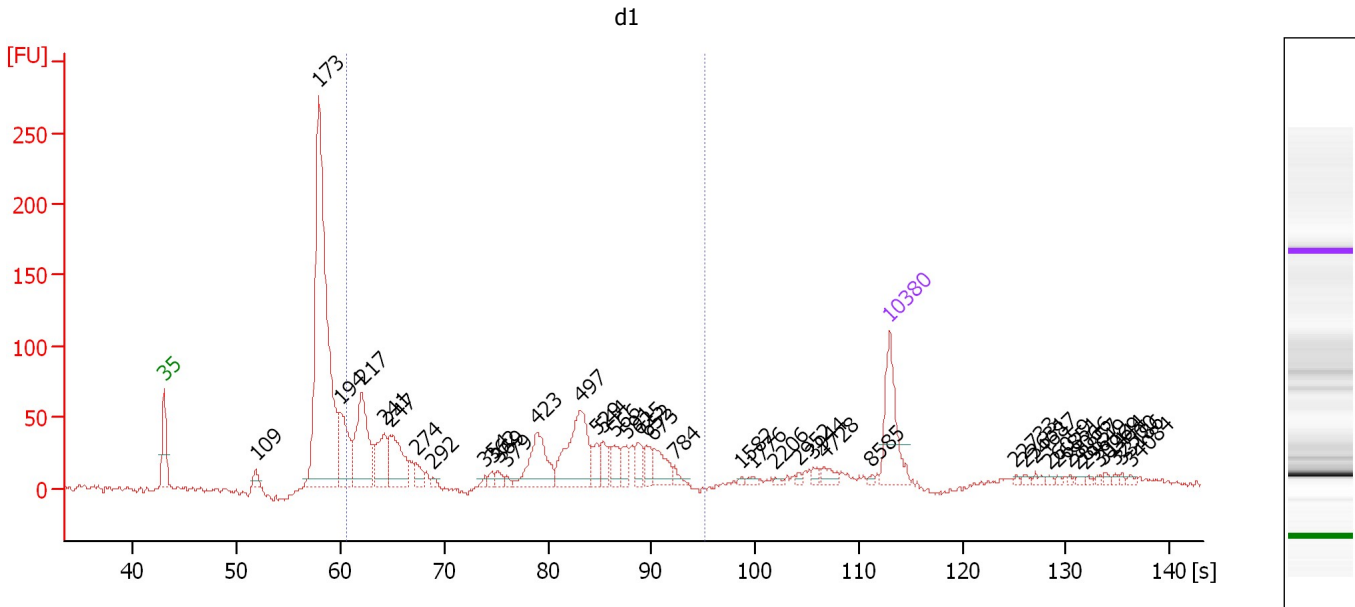
Region table for sample 3 : r-1

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	284	475.66	592.4	2,671.6	45	23.6

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Electropherogram Summary Continued ...



Overall Results for sample 4 : d1

Number of peaks found: 42 Corr. Area 1: 932.0
 Noise: 2.3

Peak table for sample 4 : d1

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	109	16.72	233.1		51.81
3	173	748.49	6,558.3		57.92
4	194	112.13	875.1		59.94
5	217	166.01	1,158.8		62.07
6	241	77.55	488.0		64.24
7	247	101.40	622.1		64.81
8	274	19.16	105.9		67.30
9	292	5.68	29.5		68.96
10	354	4.90	21.0		73.98
11	362	8.43	35.3		74.61
12	369	10.67	43.8		75.18
13	379	5.22	20.9		76.01
14	423	88.18	316.0		78.96
15	497	136.39	416.0		83.16
16	529	23.70	67.8		84.71
17	544	25.17	70.1		85.38
18	566	25.70	68.8		86.42
19	591	23.19	59.5		87.56
20	625	24.48	59.4		88.75
21	652	20.44	47.5		89.58
22	673	39.06	88.0		90.20
23	784	10.55	20.4		92.17
24	1,582	2.90	2.8		98.70
25	1,776	4.55	3.9		99.89

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Electropherogram Summary Continued ...

... Peak table for sample 4 : d1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,206	3.31	2.3		101.91
27	2,952	3.44	1.8		104.24
28	3,944	5.98	2.3		105.64
29	4,728	12.93	4.1		106.68
30	8,585	2.90	0.5		111.24
31	10,380	75.00	10.9	Upper Marker	113.00
32	22,733	0.00	0.0		125.12
33	23,631	0.00	0.0		126.01
34	24,687	0.00	0.0		127.04
35	26,059	0.00	0.0		128.39
36	26,851	0.00	0.0		129.17
37	28,066	0.00	0.0		130.36
38	28,857	0.00	0.0		131.13
39	29,649	0.00	0.0		131.91
40	30,969	0.00	0.0		133.21
41	31,444	0.00	0.0		133.67
42	32,500	0.00	0.0		134.71
43	33,186	0.00	0.0		135.38
44	34,084	0.00	0.0		136.26

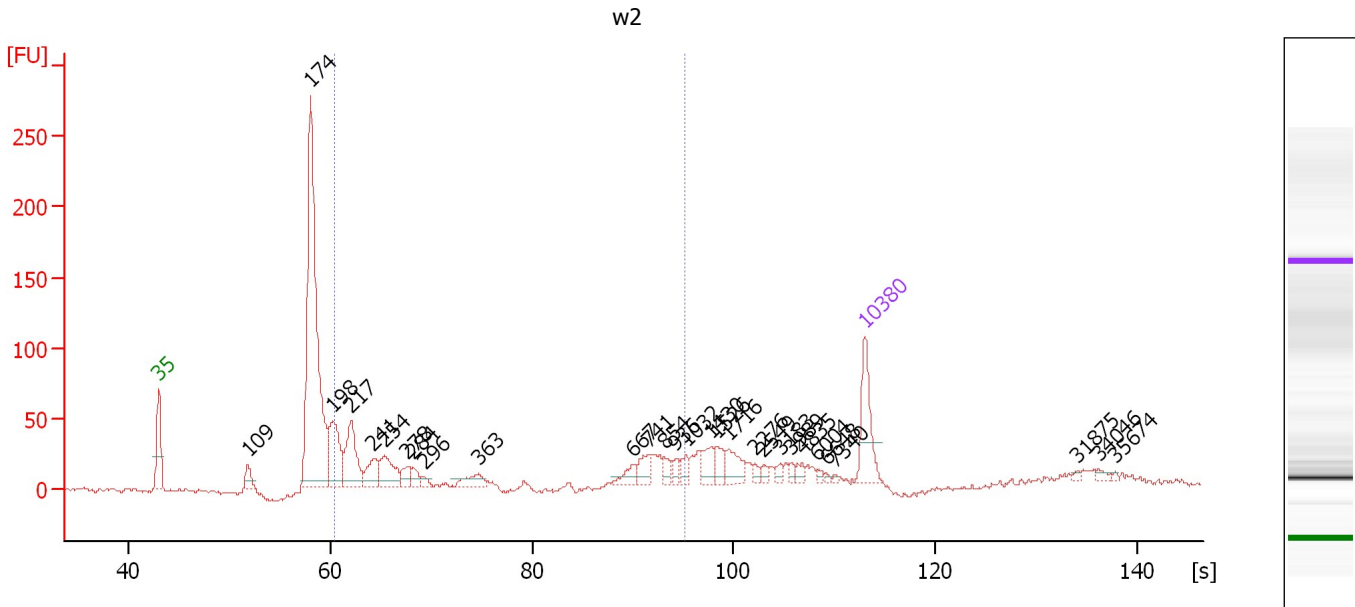
Region table for sample 4 : d1

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	425	929.88	932.0	4,335.0	52	39.4

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Electropherogram Summary Continued ...



Overall Results for sample 5 : w2

Number of peaks found: 29 Corr. Area 1: 449.5
 Noise: 1.7

Peak table for sample 5 : w2

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	109	31.35	437.8		51.79
3	174	760.71	6,624.9		58.02
4	198	127.60	976.2		60.31
5	217	129.64	904.7		62.07
6	241	49.85	313.5		64.26
7	254	72.36	432.2		65.43
8	278	25.56	139.3		67.67
9	284	20.39	108.8		68.20
10	296	9.45	48.4		69.32
11	363	26.63	111.2		74.70
12	667	23.36	53.0		90.04
13	741	29.85	61.1		91.58
14	854	17.57	31.2		93.13
15	936	13.47	21.8		94.25
16	1,032	16.72	24.5		95.31
17	1,430	27.81	29.5		97.76
18	1,526	23.91	23.7		98.35
19	1,716	35.52	31.4		99.52
20	2,276	7.78	5.2		102.13
21	2,549	7.91	4.7		102.98
22	3,183	8.14	3.9		104.64
23	3,989	7.64	2.9		105.70
24	4,835	9.59	3.0		106.82
25	6,004	5.18	1.3		108.37

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Electropherogram Summary Continued ...

... Peak table for sample 5 : w2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,648	3.17	0.7		109.22
27	7,340	3.21	0.7		110.02
28	10,380	75.00	10.9	Upper Marker	113.00
29	31,875	0.00	0.0		134.10
30	34,046	0.00	0.0		136.23
31	35,674	0.00	0.0		137.82

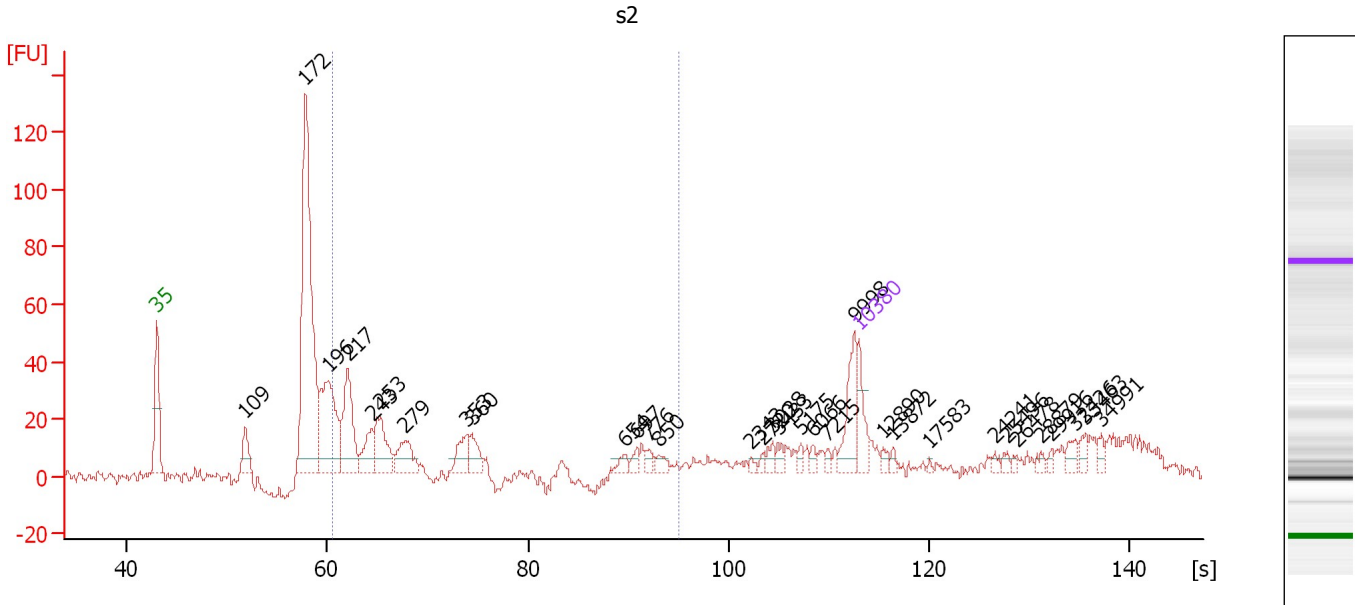
Region table for sample 5 : w2

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	447	566.34	449.5	2,924.5	33	59.8

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Electropherogram Summary Continued ...



Overall Results for sample 6 : s2

Number of peaks found: 32 Corr. Area 1: 270.1
 Noise: 2.7

Peak table for sample 6 : s2

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	109	108.08	1,502.4		51.84
3	172	1,271.71	11,201.9		57.84
4	196	448.11	3,470.4		60.08
5	217	309.73	2,162.0		62.07
6	243	116.59	726.0		64.48
7	253	187.13	1,122.3		65.33
8	279	129.26	702.3		67.74
9	353	92.37	396.6		73.90
10	360	75.32	316.8		74.49
11	654	28.71	66.5		89.65
12	697	23.91	52.0		90.93
13	776	22.06	43.1		92.06
14	850	25.71	45.8		93.08
15	2,343	9.68	6.3		102.34
16	2,720	10.31	5.7		103.52
17	3,028	24.53	12.3		104.43
18	3,433	20.36	9.0		104.97
19	5,175	16.15	4.7		107.27
20	6,066	16.14	4.0		108.45
21	7,215	13.86	2.9		109.89
22	9,998	128.86	19.5		112.63
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,890	0.00	0.0		115.46
25	13,872	0.00	0.0		116.43

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-16\2019-05-16_001.xad

Created: 5/16/2019 2:25:28 PM
 Modified: 5/16/2019 3:07:25 PM

Electropherogram Summary Continued ...

... Peak table for sample 6 : s2

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	17,583	0.00	0.0		120.07
27	24,241	0.00	0.0		126.60
28	25,496	0.00	0.0		127.84
29	26,478	0.00	0.0		128.80
30	28,879	0.00	0.0		131.16
31	29,916	0.00	0.0		132.17
32	32,426	0.00	0.0		134.64
33	33,463	0.00	0.0		135.65
34	34,991	0.00	0.0		137.15

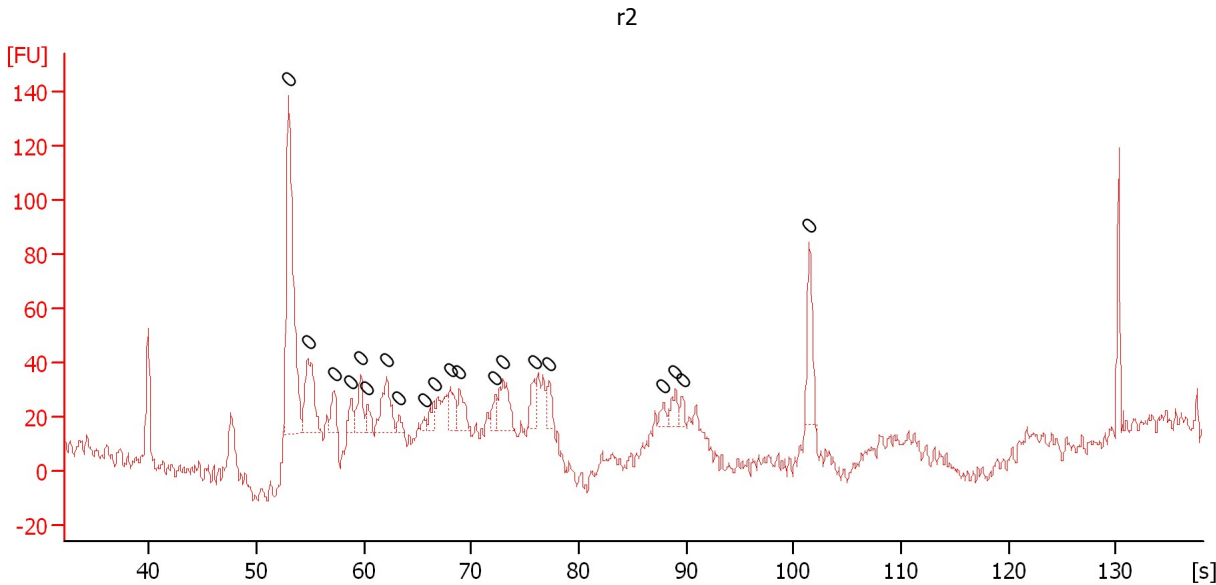
Region table for sample 6 : s2

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	344	1,193.21	270.1	6,724.8	 33	56.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-16\2019-05-16_001.xad

Created: 5/16/2019 2:25:28 PM
 Modified: 5/16/2019 3:07:25 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : r2

Height Threshold [FU] : 0.5

Overall Results for sample 7 : r2

Number of peaks found: 0 Noise: 3.6

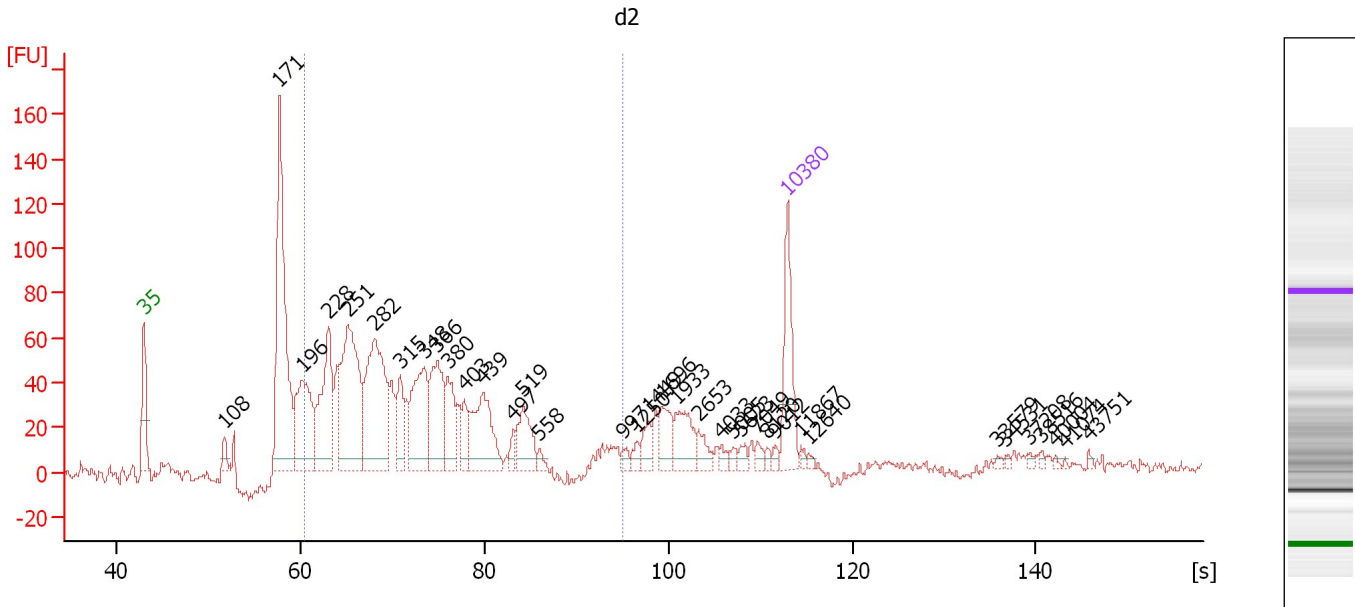
Peak table for sample 7 : r2

Pea k	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		53.00
2	0	0.00	0.0		54.75
3	0	0.00	0.0		57.20
4	0	0.00	0.0		58.80
5	0	0.00	0.0		59.70
6	0	0.00	0.0		60.30
7	0	0.00	0.0		62.10
8	0	0.00	0.0		63.30
9	0	0.00	0.0		65.60
10	0	0.00	0.0		66.50
11	0	0.00	0.0		68.05
12	0	0.00	0.0		68.90
13	0	0.00	0.0		72.25
14	0	0.00	0.0		73.00
15	0	0.00	0.0		75.80
16	0	0.00	0.0		77.25
17	0	0.00	0.0		87.85
18	0	0.00	0.0		89.00
19	0	0.00	0.0		89.60
20	0	0.00	0.0		101.45

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-16\2019-05-16_001.xad

Created: 5/16/2019 2:25:28 PM
 Modified: 5/16/2019 3:07:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : d2

Number of peaks found: 36 Corr. Area 1: 1,343.5
 Noise: 2.6

Peak table for sample 8 : d2

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	108	20.02	280.5		51.76
3	171	387.03	3,435.0		57.71
4	196	162.99	1,256.9		60.16
5	228	166.09	1,103.1		63.08
6	251	246.92	1,490.4		65.19
7	282	233.32	1,252.8		68.05
8	315	52.56	253.1		70.85
9	348	128.33	559.5		73.48
10	366	110.17	456.3		74.93
11	380	58.60	233.8		76.04
12	403	27.95	105.0		77.85
13	439	104.60	360.7		79.90
14	497	13.23	40.3		83.17
15	519	53.74	156.9		84.22
16	558	7.19	19.5		86.03
17	997	7.60	11.5		95.08
18	1,250	8.99	10.9		96.65
19	1,449	18.90	19.8		97.88
20	1,696	32.16	28.7		99.40
21	1,933	43.11	33.8		100.86
22	2,653	15.99	9.1		103.31
23	4,033	6.89	2.6		105.76
24	5,005	5.60	1.7		107.05
25	5,623	7.92	2.1		107.86

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-16\2019-05-16_001.xad

Created: 5/16/2019 2:25:28 PM
 Modified: 5/16/2019 3:07:25 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : d2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	7,049	7.25	1.6		109.73
27	8,120	4.40	0.8		110.78
28	9,012	5.07	0.9		111.66
29	10,380	75.00	10.9	Upper Marker	113.00
30	11,867	0.00	0.0		114.46
31	12,640	0.00	0.0		115.22
32	33,579	0.00	0.0		135.77
33	34,531	0.00	0.0		136.70
34	37,208	0.00	0.0		139.33
35	38,516	0.00	0.0		140.61
36	40,004	0.00	0.0		142.07
37	41,074	0.00	0.0		143.13
38	43,751	0.00	0.0		145.75

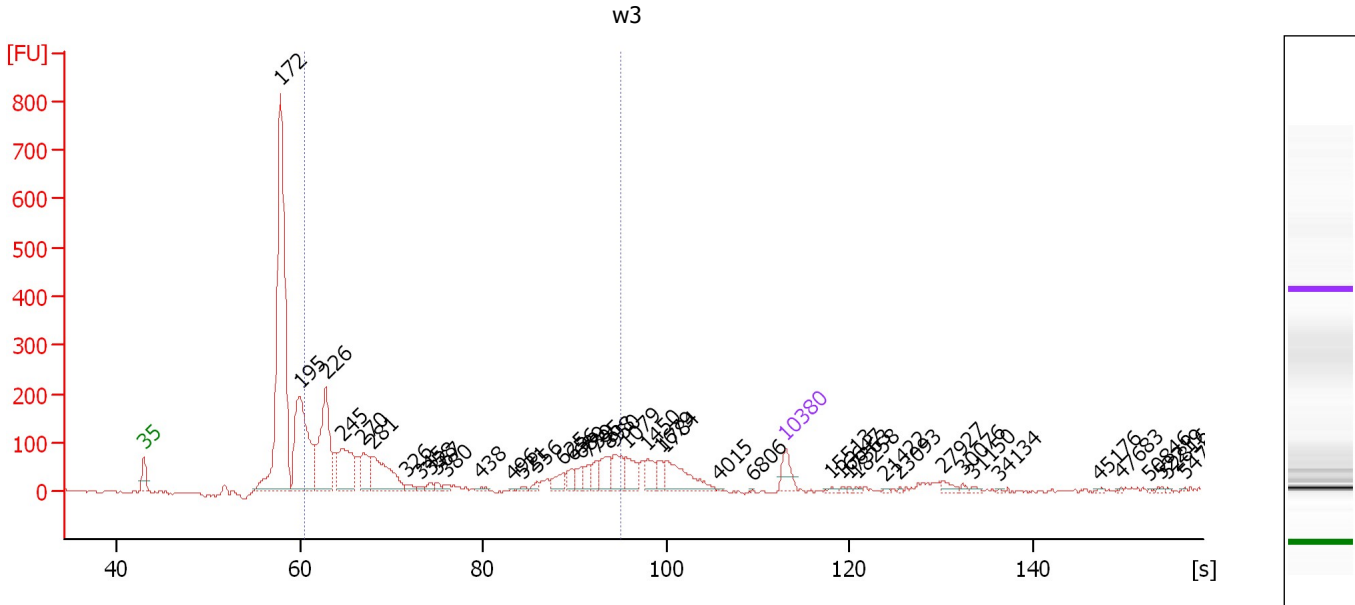
Region table for sample 8 : d2

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	349	1,538.01	1,343.5	7,668.0	62	39.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-16\2019-05-16_001.xad

Created: 5/16/2019 2:25:28 PM
 Modified: 5/16/2019 3:07:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : w3

Number of peaks found: 44 Corr. Area 1: 1,833.0
 Noise: 2.2

Peak table for sample 9 : w3

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	172	2,200.07	19,328.5		57.88
3	195	825.28	6,425.1		59.99
4	226	603.57	4,052.3		62.86
5	245	340.61	2,102.5		64.67
6	270	168.43	944.0		66.96
7	281	354.66	1,911.1		67.95
8	326	30.97	143.9		71.76
9	345	14.89	65.4		73.28
10	358	22.30	94.5		74.28
11	367	20.32	83.9		75.04
12	380	21.19	84.4		76.10
13	438	17.24	59.6		79.85
14	496	6.56	20.0		83.13
15	521	13.50	39.3		84.30
16	556	20.38	55.6		85.94
17	625	62.45	151.5		88.75
18	656	50.11	115.8		89.69
19	689	59.72	131.4		90.68
20	739	49.27	101.0		91.56
21	795	57.87	110.3		92.32
22	898	106.24	179.2		93.73
23	950	104.77	167.1		94.43
24	1,079	108.52	152.4		95.60
25	1,450	69.95	73.1		97.89

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-16\2019-05-16_001.xad

Created: 5/16/2019 2:25:28 PM
 Modified: 5/16/2019 3:07:25 PM

Electropherogram Summary Continued ...

... Peak table for sample 9 : w3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,679	53.72	48.5		99.29
27	1,784	173.61	147.5		99.94
28	4,015	2.84	1.1		105.74
29	6,806	1.32	0.3		109.43
30	10,380	75.00	10.9	Upper Marker	113.00
31	15,513	0.00	0.0		118.04
32	16,647	0.00	0.0		119.15
33	17,363	0.00	0.0		119.85
34	18,258	0.00	0.0		120.73
35	21,422	0.00	0.0		123.84
36	23,093	0.00	0.0		125.48
37	27,927	0.00	0.0		130.22
38	30,076	0.00	0.0		132.33
39	31,150	0.00	0.0		133.38
40	34,134	0.00	0.0		136.31
41	45,176	0.00	0.0		147.15
42	47,683	0.00	0.0		149.61
43	50,846	0.00	0.0		152.72
44	52,219	0.00	0.0		154.06
45	52,816	0.00	0.0		154.65
46	54,785	0.00	0.0		156.58

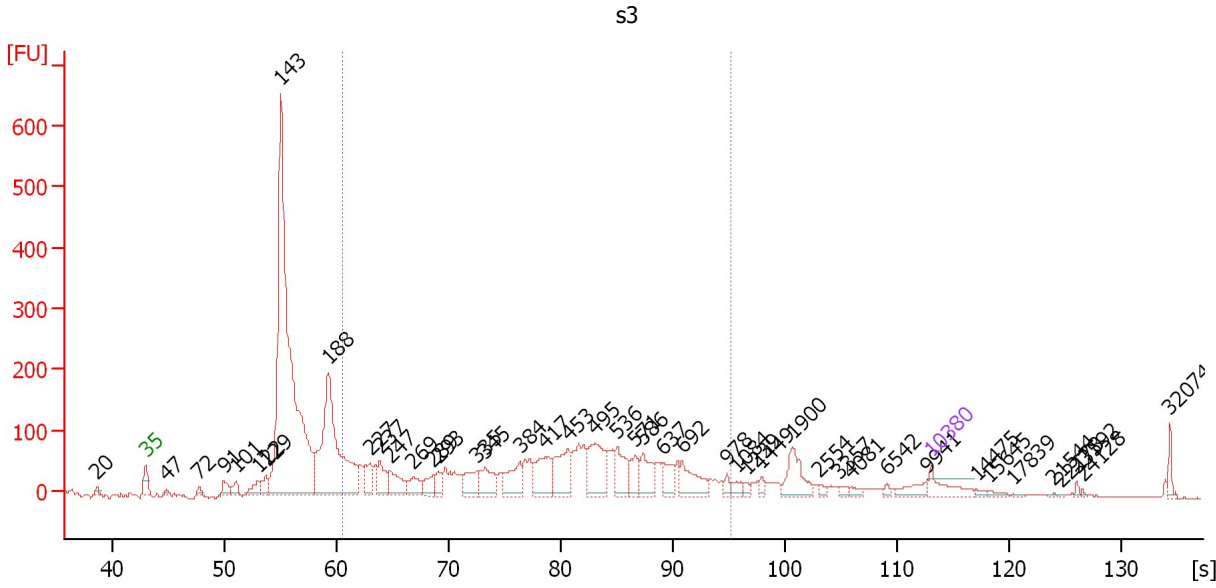
Region table for sample 9 : w3

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	414	2,488.48	1,833.0	13,112.9	45	60.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-16\2019-05-16_001.xad

Created: 5/16/2019 2:25:28 PM
 Modified: 5/16/2019 3:07:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : s3

Number of peaks found: 44 Corr. Area 1: 2,332.9
 Noise: 1.0

Peak table for sample 10 : s3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	20	0.00	0.0		38.69
2	35	125.00	5,411.3	Lower Marker	43.00
3	47	13.78	442.9		44.87
4	72	22.88	482.6		47.78
5	91	59.54	988.9		49.99
6	101	51.08	769.3		51.04
7	122	83.12	1,034.8		53.05
8	129	64.39	757.8		53.72
9	143	2,911.01	30,881.1		55.06
10	188	1,048.13	8,467.0		59.32
11	227	109.67	731.3		63.00
12	237	122.95	787.3		63.86
13	247	132.67	813.8		64.82
14	269	88.56	498.0		66.88
15	289	66.57	349.4		68.65
16	293	60.69	313.4		69.08
17	335	108.54	491.0		72.47
18	345	131.79	578.5		73.29
19	384	138.55	547.3		76.35
20	417	182.18	661.4		78.65
21	453	200.21	670.0		80.66
22	495	224.02	685.8		83.05
23	536	142.10	401.8		85.01
24	571	83.23	221.0		86.64
25	586	121.45	313.9		87.35

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-16\2019-05-16_001.xad

Created: 5/16/2019 2:25:28 PM
 Modified: 5/16/2019 3:07:25 PM

Electropherogram Summary Continued ...

... Peak table for sample 10 : s3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	637	77.79	185.0		89.12
27	692	137.03	299.9		90.80
28	978	26.33	40.8		94.82
29	1,084	27.50	38.4		95.63
30	1,239	16.37	20.0		96.59
31	1,449	20.11	21.0		97.88
32	1,900	121.58	96.9		100.66
33	2,554	13.01	7.7		103.00
34	3,357	13.56	6.1		104.87
35	4,081	19.14	7.1		105.82
36	6,542	11.54	2.7		109.08
37	9,941	46.36	7.1		112.57
38	10,380	75.00	10.9	Upper Marker	113.00
39	14,475	0.00	0.0		117.02
40	15,645	0.00	0.0		118.17
41	17,839	0.00	0.0		120.32
42	21,544	0.00	0.0		123.96
43	22,178	0.00	0.0		124.58
44	23,592	0.00	0.0		125.97
45	24,128	0.00	0.0		126.49
46	32,074	0.00	0.0		134.29

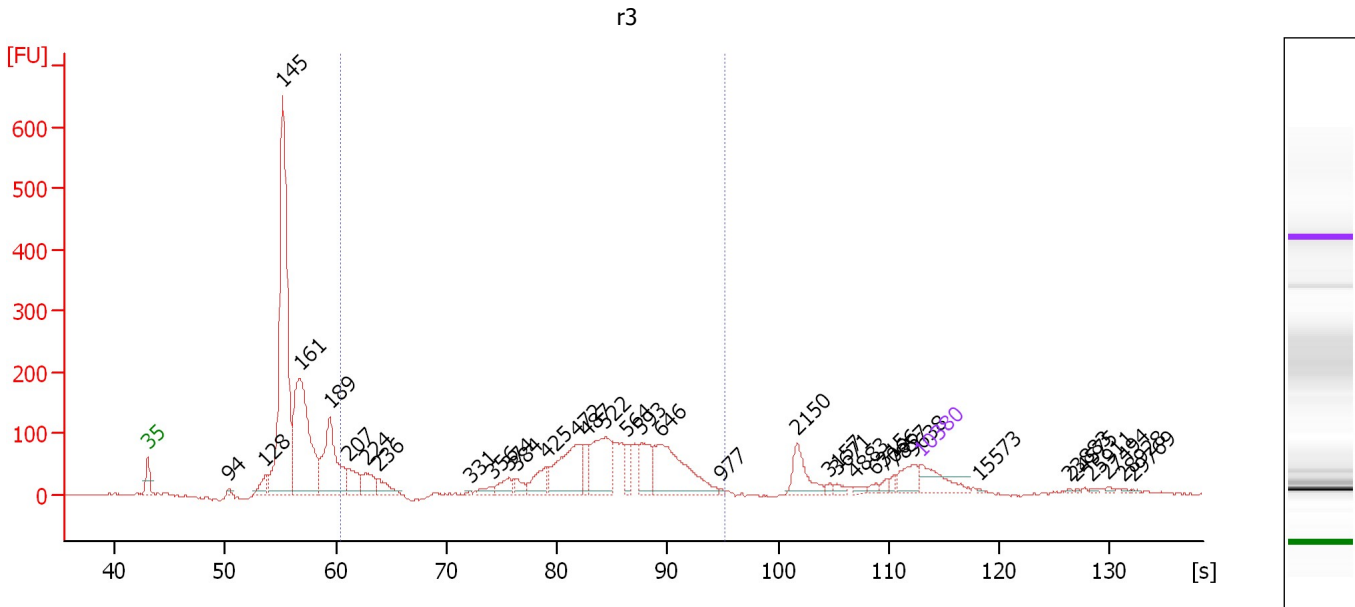
Region table for sample 10 : s3

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	454	3,123.60	2,332.9	12,985.6	46	37.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-16\2019-05-16_001.xad

Created: 5/16/2019 2:25:28 PM
 Modified: 5/16/2019 3:07:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : r3

Number of peaks found: 35 Corr. Area 1: 1,738.7
 Noise: 1.2

Peak table for sample 11 : r3

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	94	11.46	184.1		50.33
3	128	58.11	688.7		53.63
4	145	1,327.48	13,902.9		55.23
5	161	714.47	6,724.2		56.79
6	189	360.26	2,887.6		59.46
7	207	94.93	694.4		61.16
8	224	81.50	551.2		62.71
9	236	59.77	383.4		63.83
10	331	3.97	18.2		72.17
11	356	21.76	92.6		74.17
12	374	45.39	184.0		75.57
13	384	29.82	117.8		76.35
14	425	73.65	262.7		79.07
15	472	226.20	726.4		81.74
16	487	57.86	179.9		82.61
17	522	214.15	621.7		84.36
18	564	56.57	152.1		86.30
19	593	99.98	255.6		87.66
20	646	274.57	643.5		89.41
21	977	3.79	5.9		94.80
22	2,150	78.47	55.3		101.74
23	3,157	8.20	3.9		104.60
24	3,671	10.18	4.2		105.28
25	4,883	10.55	3.3		106.88

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-16\2019-05-16_001.xad

Created: 5/16/2019 2:25:28 PM
 Modified: 5/16/2019 3:07:25 PM

Electropherogram Summary Continued ...

... Peak table for sample 11 : r3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,315	10.42	2.5		108.78
27	7,066	10.40	2.2		109.75
28	7,857	10.98	2.1		110.52
29	9,638	49.92	7.8		112.27
30	10,380	75.00	10.9	Upper Marker	113.00
31	15,573	0.00	0.0		118.10
32	23,883	0.00	0.0		126.25
33	24,575	0.00	0.0		126.93
34	25,911	0.00	0.0		128.24
35	27,494	0.00	0.0		129.80
36	28,928	0.00	0.0		131.20
37	29,769	0.00	0.0		132.03

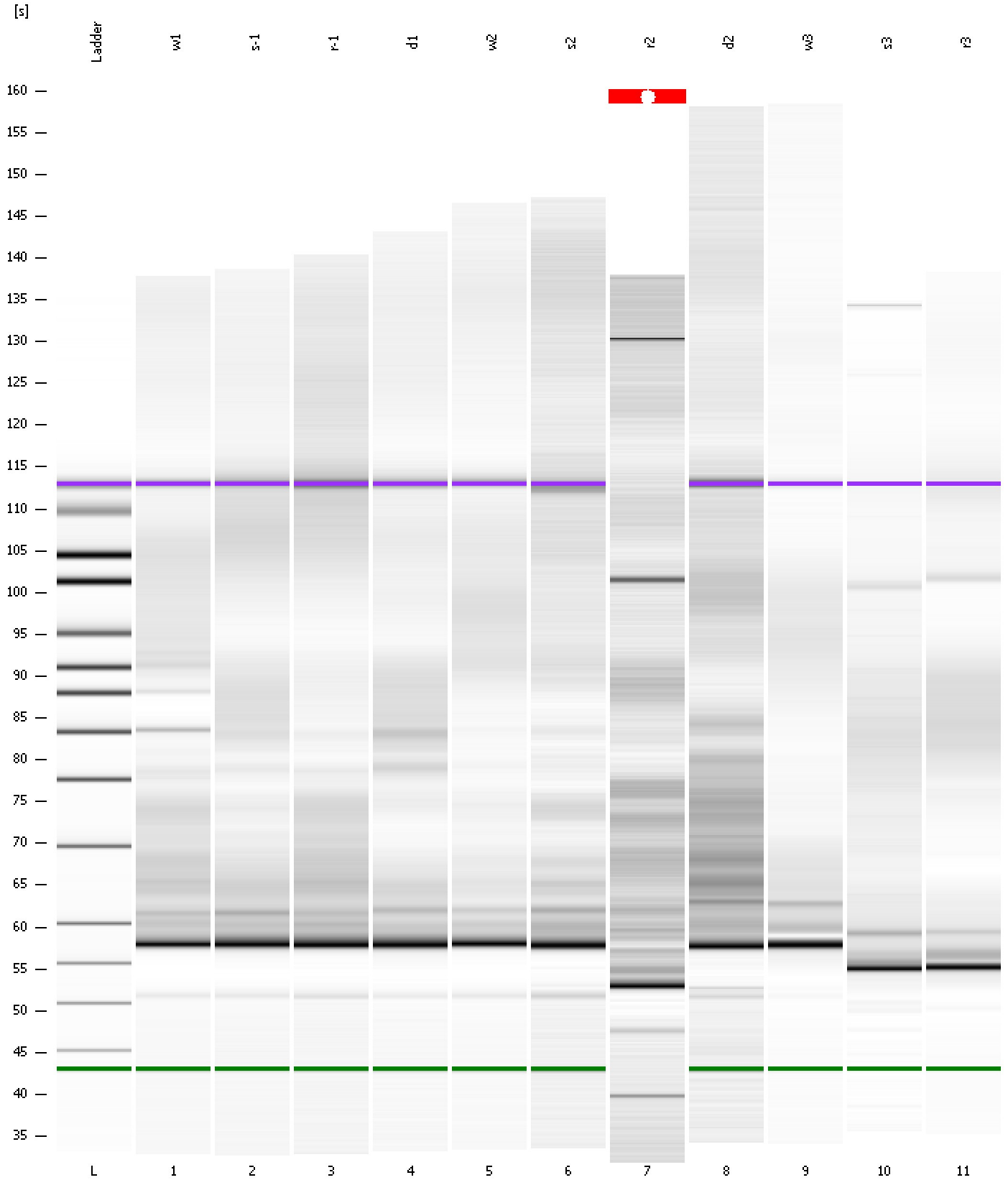
Region table for sample 11 : r3

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	514	1,560.40	1,738.7	5,670.2	42	30.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-16\2019-05-16_001.xad

Created: 5/16/2019 2:25:28 PM
Modified: 5/16/2019 3:07:25 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-16\2019-05-16_001.xad

Created: 5/16/2019 2:25:28 PM
 Modified: 5/16/2019 3:07:25 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		5/16/2019 3:06:46 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\2019-05-16\2019-05-16_001.xad)		Instrument	Run		5/16/2019 2:25:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		5/16/2019 2:25:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/16/2019 2:25:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/16/2019 2:25:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		5/16/2019 2:25:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/16/2019 2:25:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/16/2019 2:25:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1