

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20\_005.xad

Created: 1/20/2015 2:28:31 PM  
Modified: 1/20/2015 3:07:03 PM

**Electrophoresis File Run Summary**

Instrument Information:

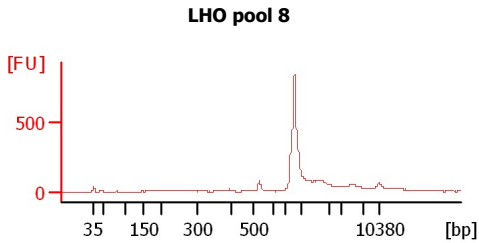
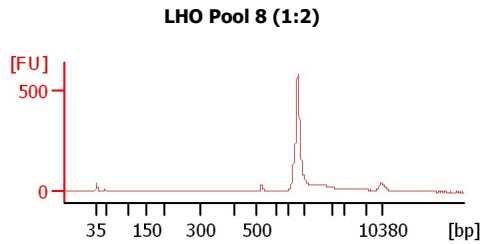
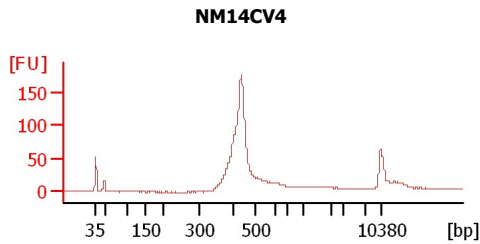
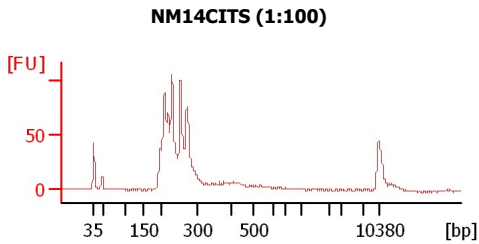
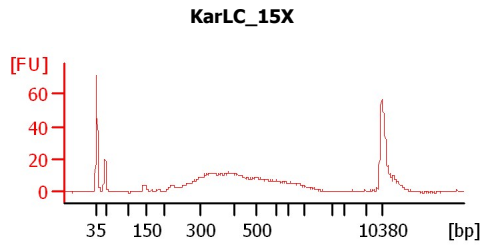
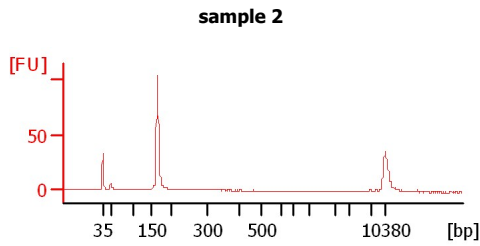
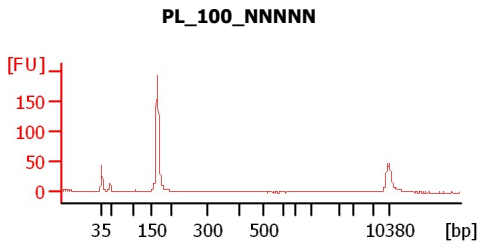
Instrument Name: DE13701086                      Firmware: C.01.069  
Serial#: DE13701086                                Type: G2938B

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
PL_100_NNNNN		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
KarLC_15X		<input type="checkbox"/>	✓			
NM14CITS (1:100)		<input type="checkbox"/>	✓			
NM14CV4		<input type="checkbox"/>	✓			
LHO Pool 8 (1:2)		<input type="checkbox"/>	✓			
LHO pool 8		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<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

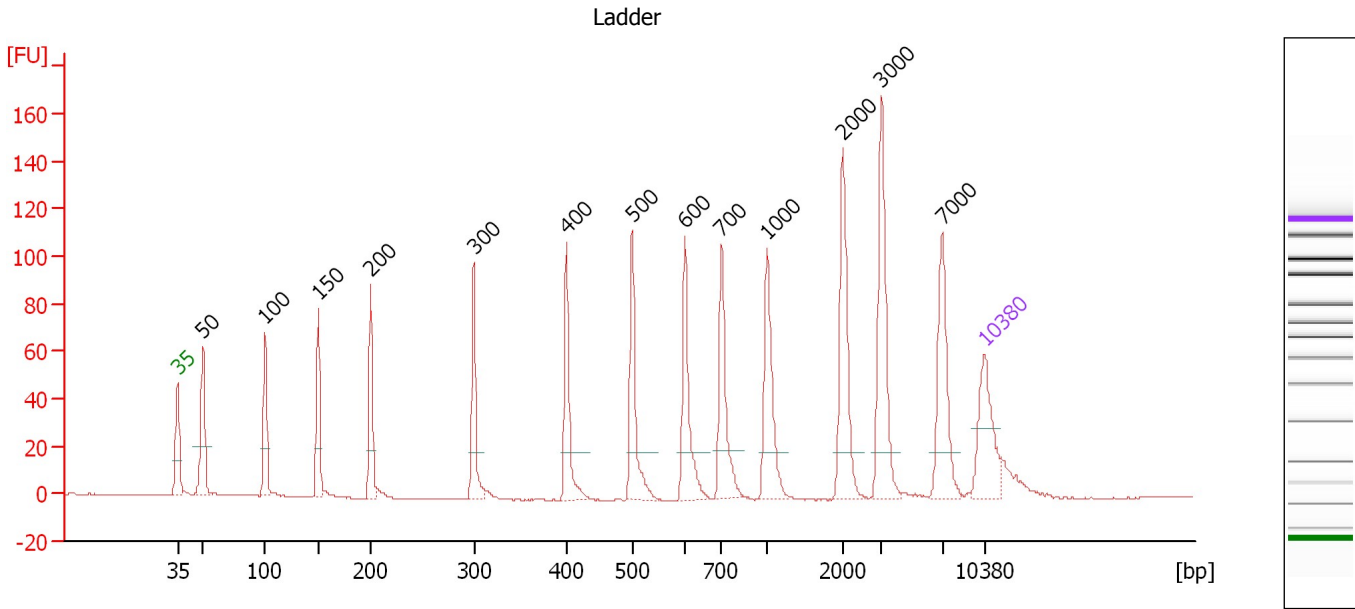
**Ladder**

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: 0.1

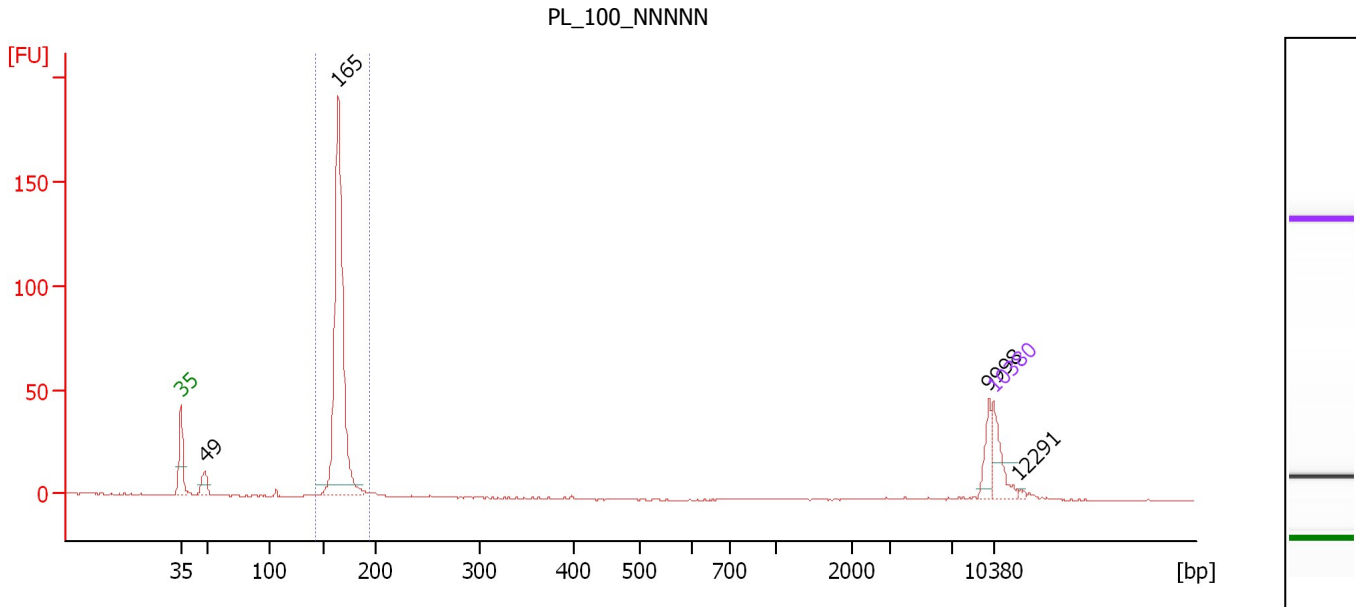
**Peak table for Ladder**

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	45.22
3	100	150.00	2,272.7	Ladder Peak	50.59
4	150	150.00	1,515.2	Ladder Peak	55.21
5	200	150.00	1,136.4	Ladder Peak	59.79
6	300	150.00	757.6	Ladder Peak	68.72
7	400	150.00	568.2	Ladder Peak	76.77
8	500	150.00	454.5	Ladder Peak	82.46
9	600	150.00	378.8	Ladder Peak	87.04
10	700	150.00	324.7	Ladder Peak	90.24
11	1,000	150.00	227.3	Ladder Peak	94.17
12	2,000	150.00	113.6	Ladder Peak	100.74
13	3,000	150.00	75.8	Ladder Peak	104.12
14	7,000	150.00	32.5	Ladder Peak	109.35
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : PL\_100\_NNNNN**

Number of peaks found: 4                      Corr. Area 1: 298.1  
 Noise: 0.2

**Peak table for sample 1 : PL\_100\_NNNNN**

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	49	63.37	1,961.2		45.07
3	165	1,058.38	9,743.6		56.55
4	9,998	52.74	8.0		112.59
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,291	0.00	0.0		115.07

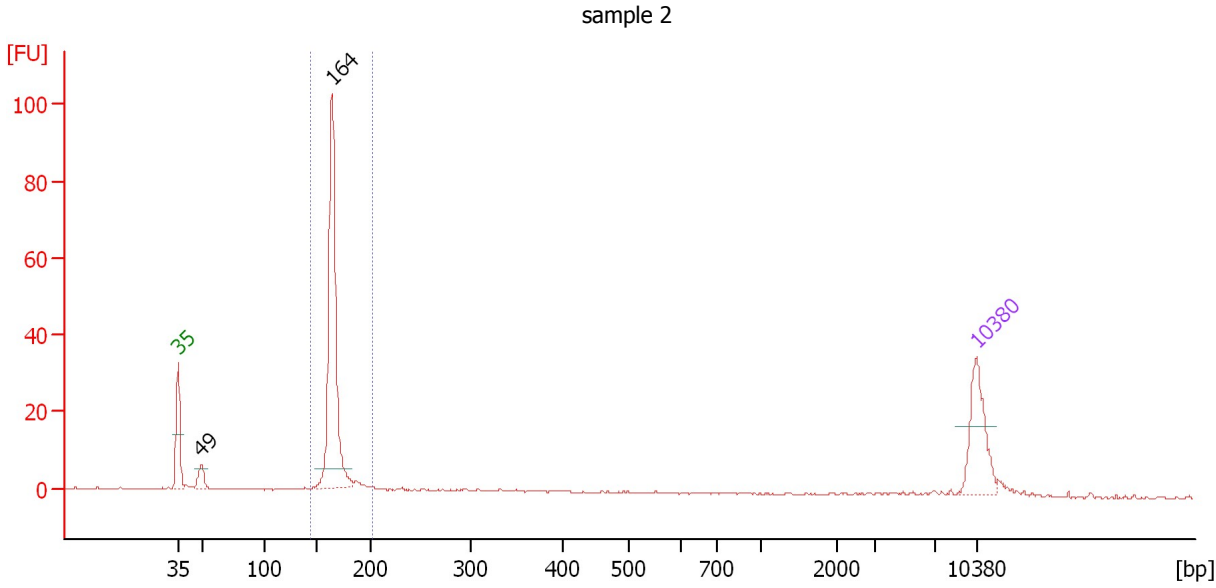
**Region table for sample 1 : PL\_100\_NNNNN**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
143	166	194	298.1	85	3.1	1,060.23	9,691.9	Blue

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 2**

Number of peaks found: 2                      Corr. Area 1: 148.4  
 Noise: 0.2

**Peak table for sample 2 : sample 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	49	25.83	800.6		45.06
3	164	403.62	3,726.9		56.50
4	10,380	75.00	10.9	Upper Marker	113.00

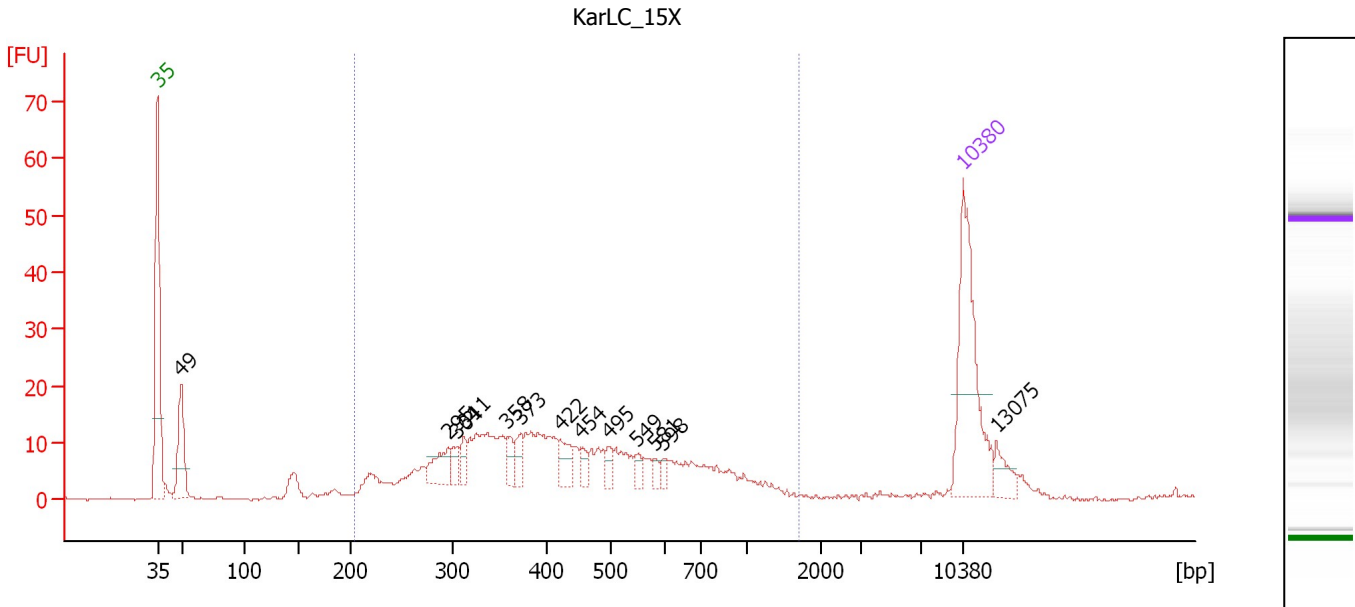
**Region table for sample 2 : sample 2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
143	166	203	148.4	85	4.1	427.61	3,909.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : KarLC\_15X**

Number of peaks found: 13                      Corr. Area 1: 329.7  
 Noise: 0.2

**Peak table for sample 3 : KarLC\_15X**

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	49	52.17	1,620.5		45.04
3	295	22.11	113.6		68.26
4	304	9.58	47.8		69.04
5	311	10.20	49.7		69.62
6	358	10.84	45.9		73.36
7	373	11.59	47.1		74.58
8	422	17.15	61.6		78.02
9	454	7.54	25.2		79.82
10	495	7.65	23.4		82.15
11	549	5.94	16.4		84.73
12	581	4.97	12.9		86.19
13	598	4.96	12.6		86.96
14	10,380	75.00	10.9	Upper Marker	113.00
15	13,075	0.00	0.0		115.91

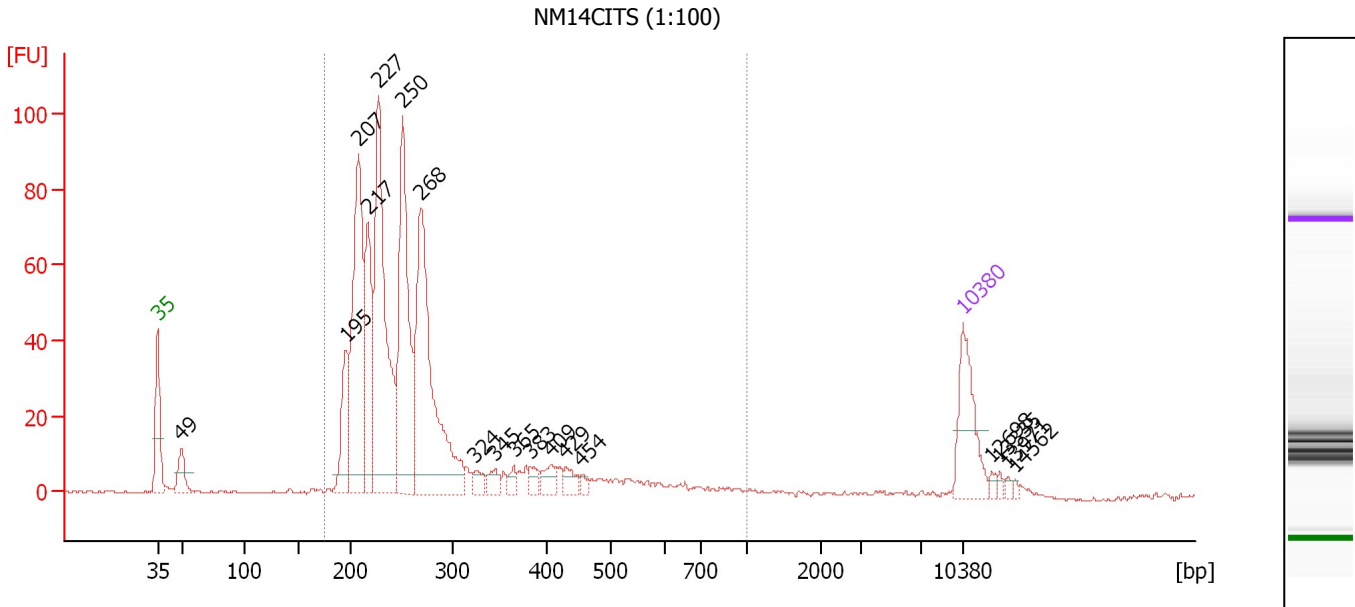
**Region table for sample 3 : KarLC\_15X**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
203	461	1,700	329.7	85	43.5	438.49	1,743.9	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : NM14CITS (1:100)**

Number of peaks found: 18                      Corr. Area 1: 961.7  
 Noise: 0.3

**Peak table for sample 4 : NM14CITS (1:100)**

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	49	43.31	1,340.6		45.06
3	195	98.46	763.6		59.37
4	207	323.09	2,360.9		60.45
5	217	162.62	1,137.0		61.29
6	227	387.75	2,586.2		62.22
7	250	295.28	1,787.5		64.29
8	268	392.20	2,213.5		65.91
9	324	15.77	73.8		70.63
10	345	16.57	72.8		72.35
11	365	12.27	50.9		73.97
12	383	14.33	56.7		75.39
13	409	21.01	77.9		77.26
14	429	17.80	62.8		78.44
15	454	6.60	22.0		79.87
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,698	0.00	0.0		115.51
18	13,335	0.00	0.0		116.20
19	13,971	0.00	0.0		116.88
20	14,562	0.00	0.0		117.52

**Region table for sample 4 : NM14CITS (1:100)**

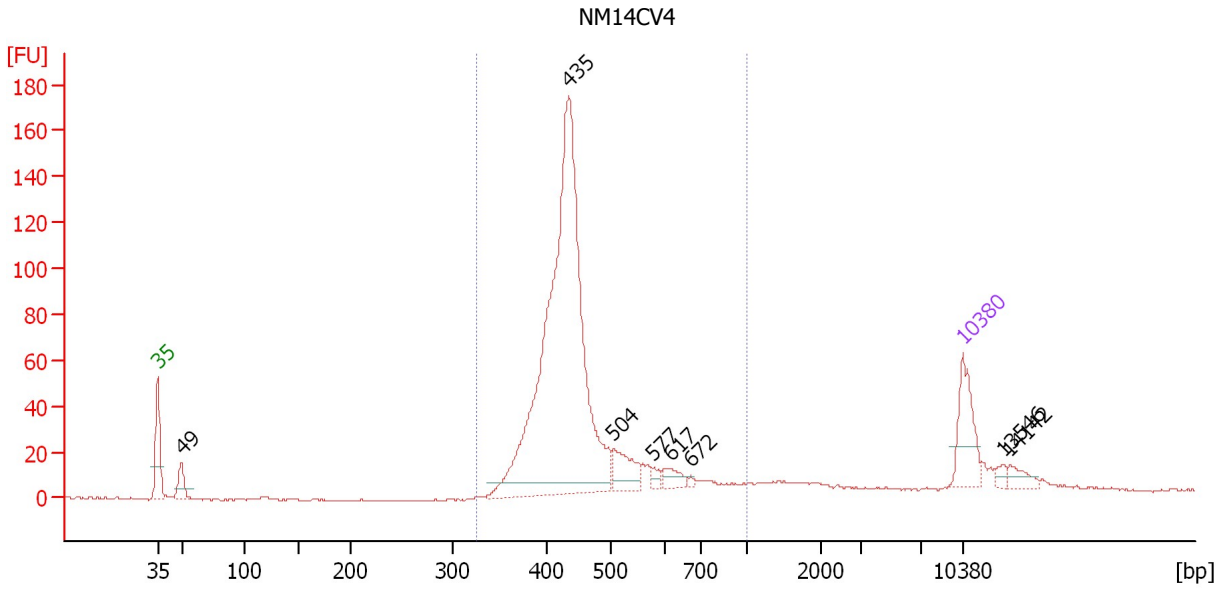
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
175	278	1,000	961.7	93	38.4	1,887.26	11,396.9	Blue



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 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : NM14CV4**

Number of peaks found: 8                      Corr. Area 1: 902.9  
 Noise: 0.3

**Peak table for sample 5 : NM14CV4**

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	49	47.31	1,460.8		45.08
3	435	1,106.42	3,853.3		78.77
4	504	64.66	194.4		82.64
5	577	11.79	30.9		86.01
6	617	24.67	60.5		87.60
7	672	4.13	9.3		89.34
8	10,380	75.00	10.9	Upper Marker	113.00
9	13,546	0.00	0.0		116.42
10	14,142	0.00	0.0		117.07

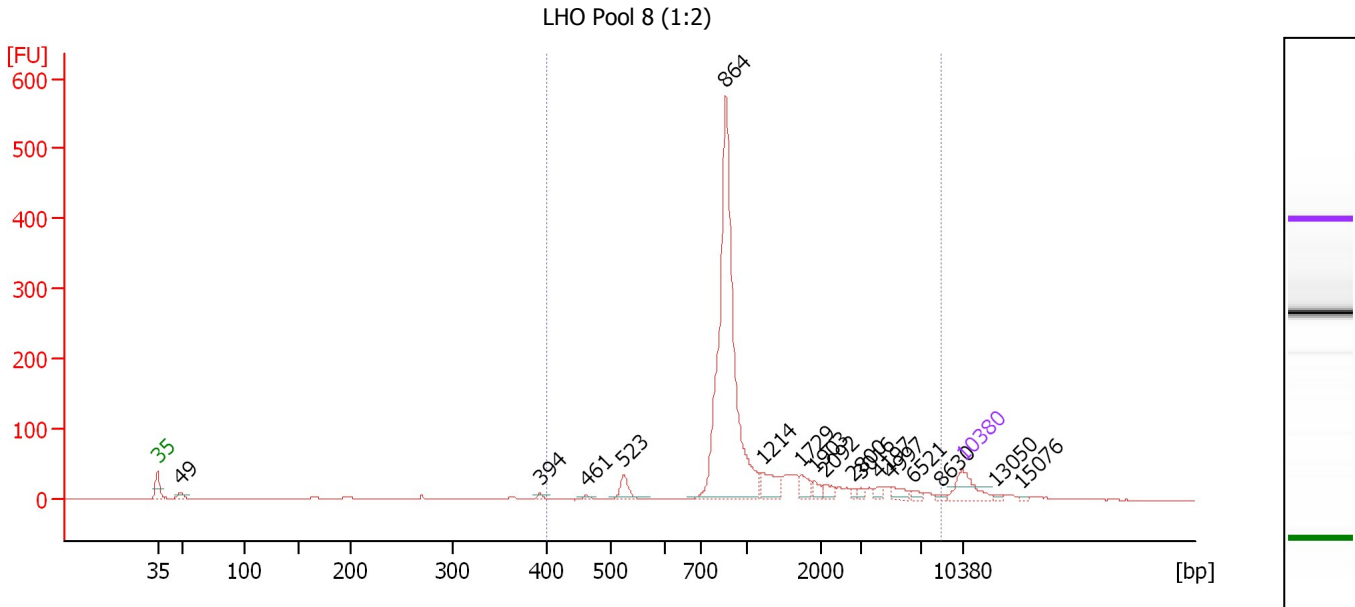
**Region table for sample 5 : NM14CV4**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
325	457	1,000	902.9	86	19.7	1,309.44	4,487.9	Blue

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 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20\_005.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : LHO Pool 8 (1:2)**

Number of peaks found: 17                      Corr. Area 1: 1,323.5  
 Noise: 0.4

**Peak table for sample 6 : LHO Pool 8 (1:2)**

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	49	25.62	795.7		45.04
3	394	9.57	36.9		76.26
4	461	8.11	26.7		80.24
5	523	53.44	154.8		83.53
6	864	1,180.70	2,070.3		92.39
7	1,214	77.45	96.7		95.57
8	1,729	36.59	32.1		98.96
9	1,903	25.10	20.0		100.11
10	2,092	21.63	15.7		101.05
11	2,800	11.00	6.0		103.44
12	3,016	11.08	5.6		104.14
13	4,197	14.63	5.3		105.68
14	4,997	27.62	8.4		106.73
15	6,521	13.28	3.1		108.72
16	8,630	8.83	1.6		111.11
17	10,380	75.00	10.9	Upper Marker	113.00
18	13,050	0.00	0.0		115.89
19	15,076	0.00	0.0		118.08

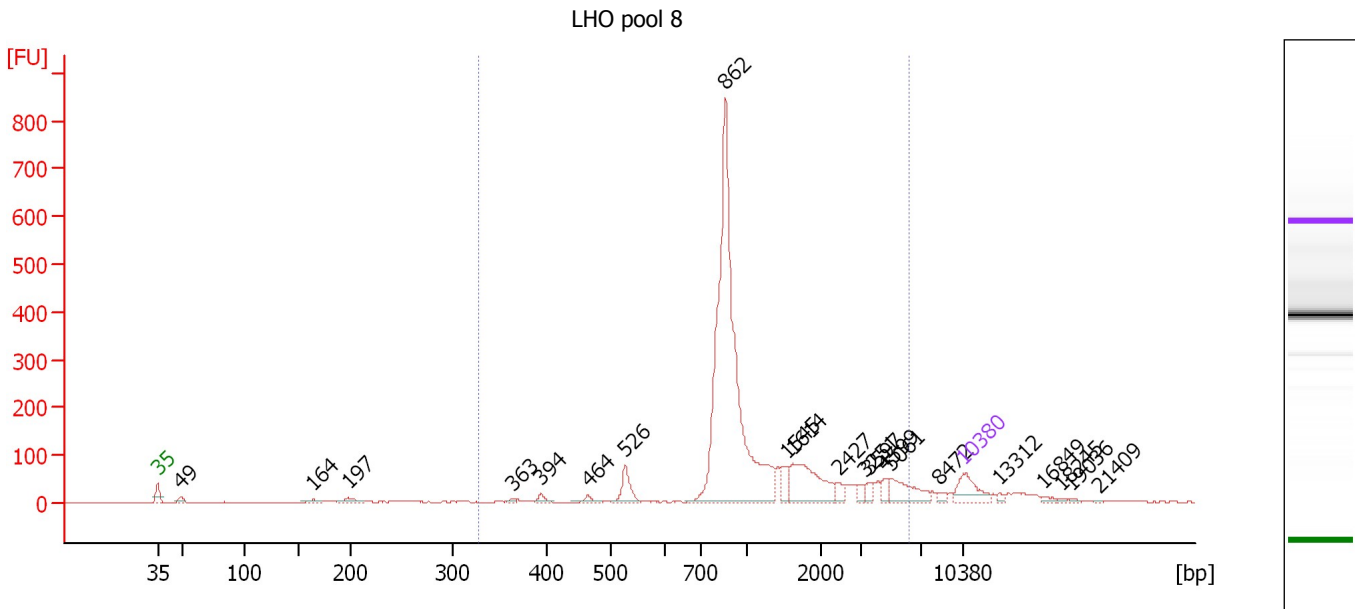
**Region table for sample 6 : LHO Pool 8 (1:2)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
402	1,416	8,597	1,323.5	93	93.4	1,621.77	2,498.4	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : LHO pool 8**

Number of peaks found: 21                      Corr. Area 1: 2,410.8  
 Noise: 0.4

**Peak table for sample 7 : LHO pool 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	49	21.37	666.3		45.01
3	164	16.17	148.9		56.54
4	197	28.31	217.3		59.56
5	363	7.09	29.6		73.80
6	394	17.37	66.7		76.31
7	464	17.83	58.2		80.44
8	526	76.93	221.5		83.66
9	862	1,385.23	2,433.4		92.37
10	1,545	41.39	40.6		97.75
11	1,614	192.28	180.5		98.20
12	2,427	22.75	14.2		102.18
13	3,251	21.47	10.0		104.45
14	3,597	20.39	8.6		104.90
15	4,599	25.13	8.3		106.21
16	5,061	89.68	26.8		106.81
17	8,472	10.83	1.9		110.94
18	10,380	75.00	10.9	Upper Marker	113.00
19	13,312	0.00	0.0		116.17
20	16,849	0.00	0.0		119.99
21	18,245	0.00	0.0		121.50
22	19,036	0.00	0.0		122.36
23	21,409	0.00	0.0		124.93

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**Electropherogram Summary Continued ...**

... Region table for sample 7 : LHO pool 8

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Color
326	1,390	6,266	2,410.8	87	80.2	1,980.11	3,130.3	

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**Gel Image**

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Created: 1/20/2015 2:28:31 PM  
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**Invalid Samples**

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

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Created: 1/20/2015 2:28:31 PM  
 Modified: 1/20/2015 3:07:03 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		1/20/2015 2:58:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-20\2015-01-20_005.xad)		Instrument	Run		1/20/2015 2:28:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/20/2015 2:28:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/20/2015 2:28:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/20/2015 2:28:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/20/2015 2:28:36 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/20/2015 2:28:36 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/20/2015 2:28:36 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1