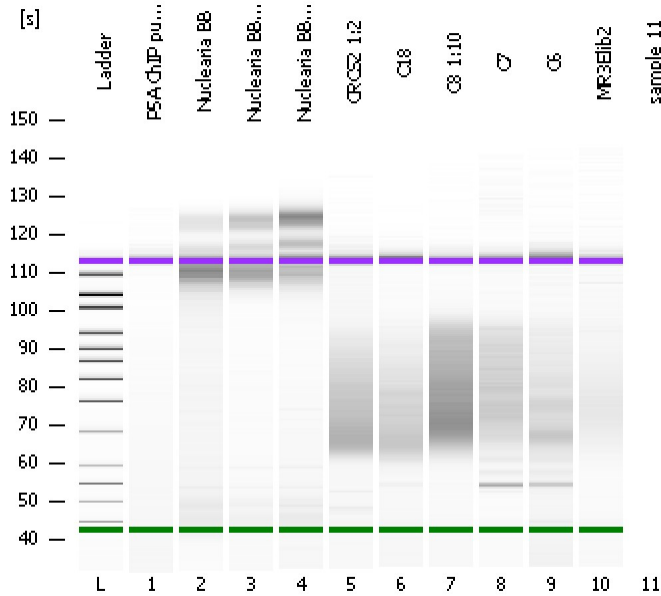


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
Modified: 1/16/2015 11:26:42 AM

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

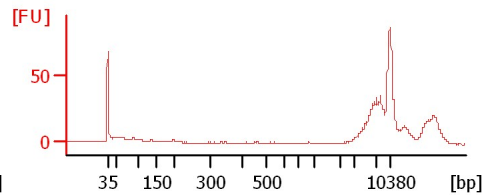
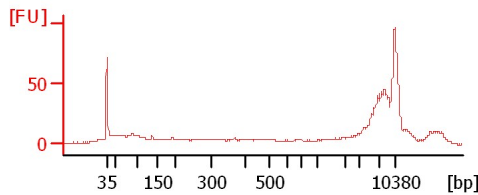
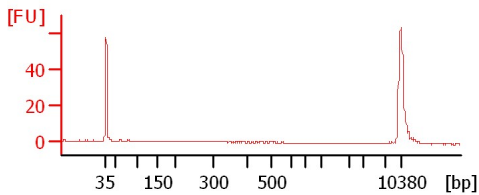
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

P5A ChIP purified

Nuclearia BB

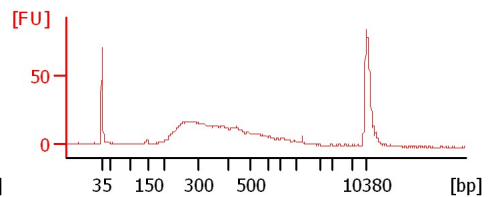
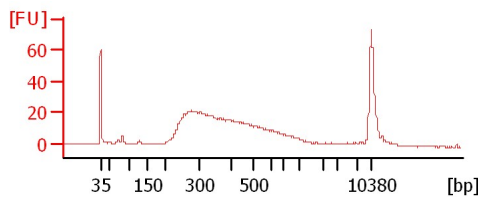
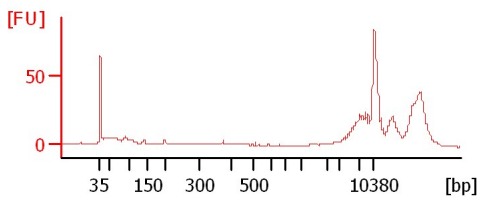
Nuclearia BB Lyso + SDS



Nuclearia BB Lyso + SDS +ALP

CRCS2 1:2

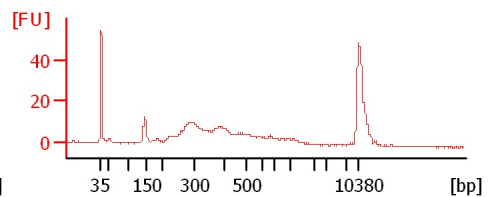
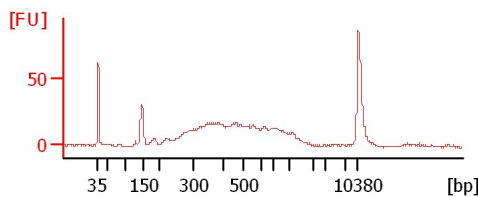
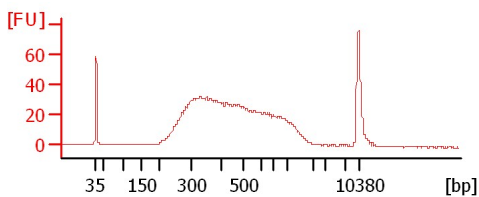
C18



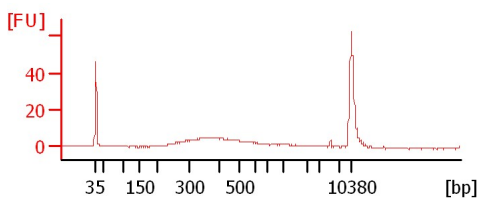
C8 1:10

C7

C6



MR3Elib2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
Modified: 1/16/2015 11:26:42 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P5A ChIP purified		<input type="checkbox"/>	✓			
Nuclearia BB		<input type="checkbox"/>	✓			
Nuclearia BB Lyso + SDS		<input type="checkbox"/>	✓			
Nuclearia BB Lyso + SDS +ALP		<input type="checkbox"/>	✓			
CRCS2 1:2		<input type="checkbox"/>	✓			
C18		<input type="checkbox"/>	✓			
C8 1:10		<input type="checkbox"/>	✓			
C7		<input type="checkbox"/>	✓			
C6		<input type="checkbox"/>	✓			
MR3Elib2		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
Modified: 1/16/2015 11:26:42 AM

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

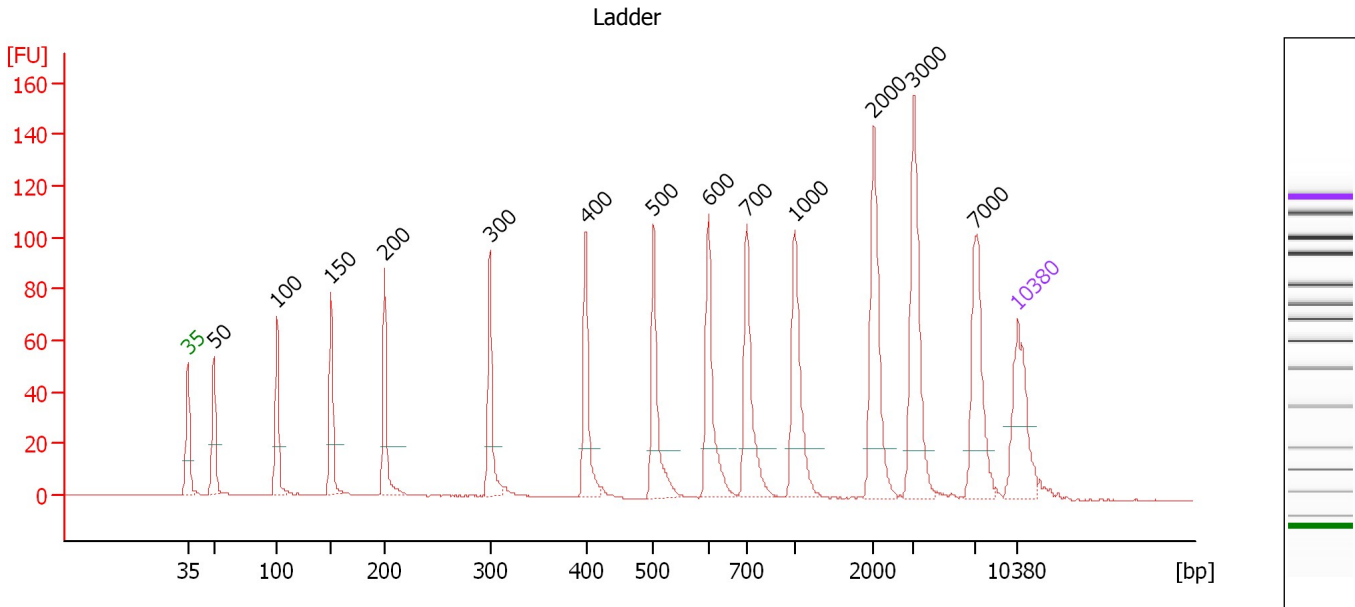
Ladder

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:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
 Modified: 1/16/2015 11:26:42 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

Peak table for Ladder

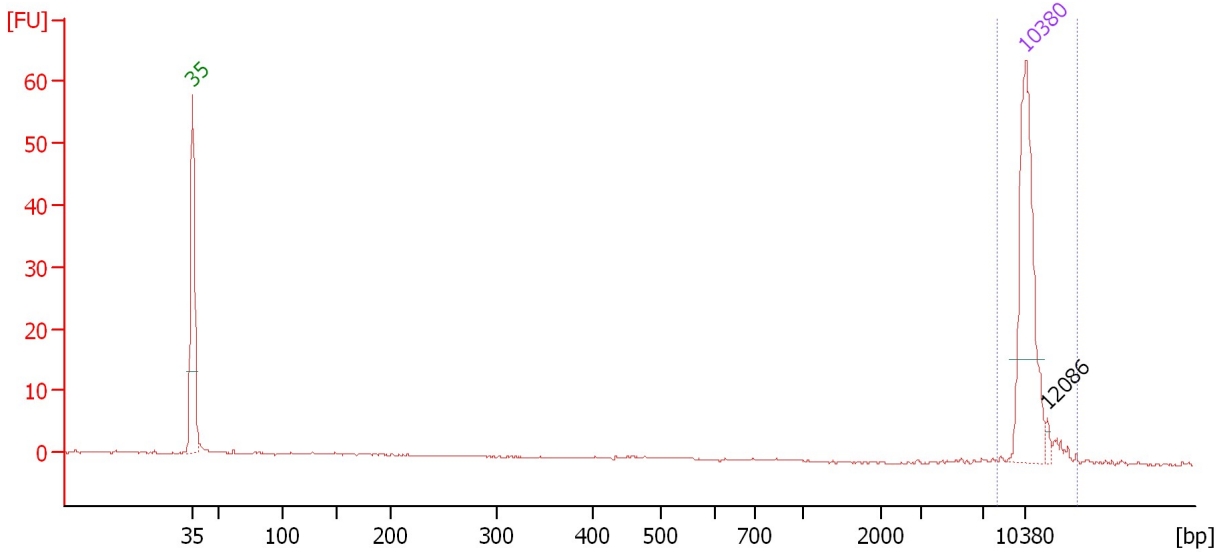
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.20
3	100	150.00	2,272.7	Ladder Peak	50.55
4	150	150.00	1,515.2	Ladder Peak	55.09
5	200	150.00	1,136.4	Ladder Peak	59.63
6	300	150.00	757.6	Ladder Peak	68.49
7	400	150.00	568.2	Ladder Peak	76.58
8	500	150.00	454.5	Ladder Peak	82.29
9	600	150.00	378.8	Ladder Peak	86.92
10	700	150.00	324.7	Ladder Peak	90.16
11	1,000	150.00	227.3	Ladder Peak	94.21
12	2,000	150.00	113.6	Ladder Peak	100.86
13	3,000	150.00	75.8	Ladder Peak	104.23
14	7,000	150.00	32.5	Ladder Peak	109.45
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
 Modified: 1/16/2015 11:26:42 AM

Electropherogram Summary Continued ...

P5A ChIP purified



Overall Results for sample 1 : P5A ChIP purified

Number of peaks found: 1 Corr. Area 1: 7.1
 Noise: 0.1

Peak table for sample 1 : P5A ChIP purified

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	12,086	0.00	0.0		114.79

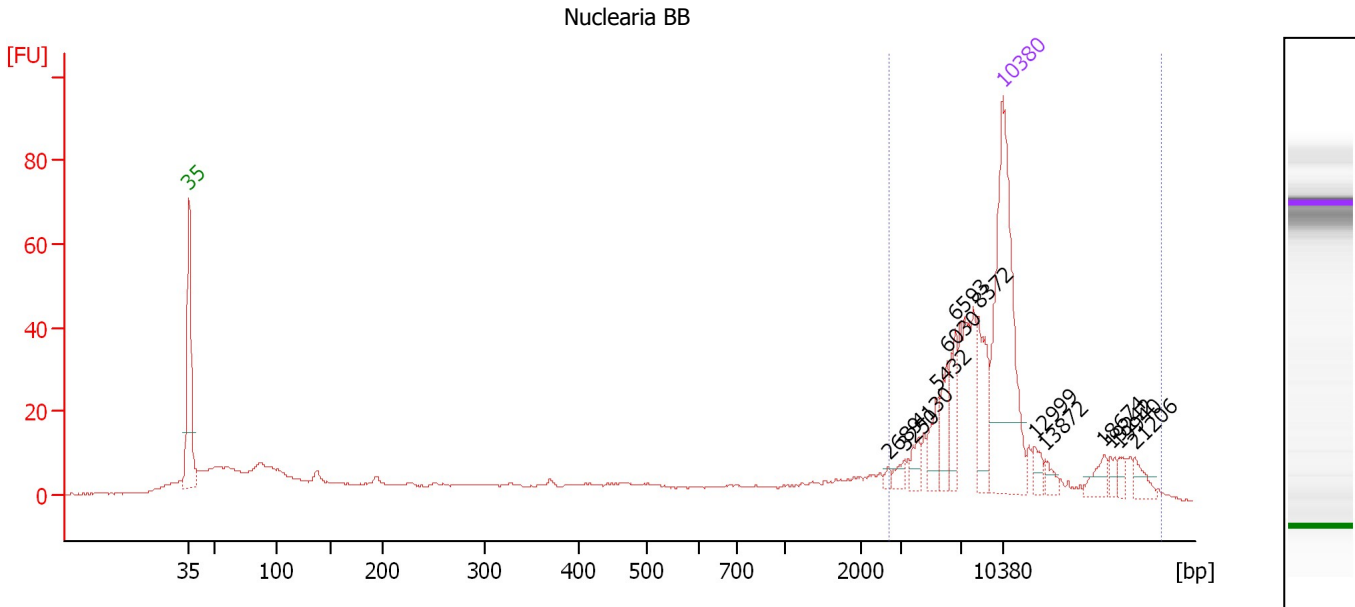
Region table for sample 1 : P5A ChIP purified

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
8,125	10,664	14,452	7.1	58	7.6	6.51	0.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
 Modified: 1/16/2015 11:26:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Nuclearia BB

Number of peaks found: 13 Corr. Area 1: 274.2
 Noise: 0.2

Peak table for sample 2 : Nuclearia BB

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	2,689	1.55	0.9		103.18
3	3,250	3.68	1.7		104.56
4	4,130	5.79	2.1		105.71
5	5,432	9.07	2.5		107.40
6	6,030	11.23	2.8		108.18
7	6,593	13.47	3.1		108.92
8	8,372	21.36	3.9		110.89
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,999	0.00	0.0		115.75
11	13,872	0.00	0.0		116.67
12	18,674	0.00	0.0		121.72
13	19,242	0.00	0.0		122.31
14	19,940	0.00	0.0		123.05
15	21,206	0.00	0.0		124.38

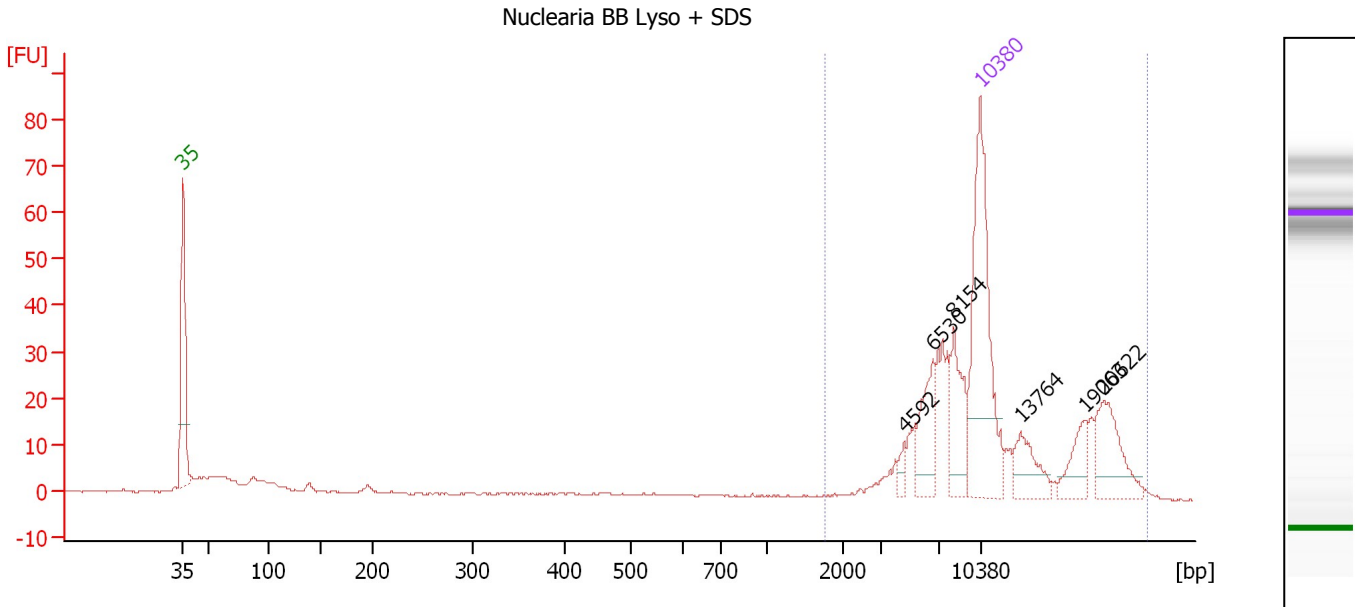
Region table for sample 2 : Nuclearia BB

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
2,684	9,945	23,426	274.2	44	43.9	147.16	30.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
 Modified: 1/16/2015 11:26:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Nuclearia BB Lyso + SDS

Number of peaks found: 6 Corr. Area 1: 263.8
 Noise: 0.1

Peak table for sample 3 : Nuclearia BB Lyso + SDS

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	4,592	4.24	1.4		106.31
3	6,530	24.98	5.8		108.84
4	8,154	25.56	4.7		110.66
5	10,380	75.00	10.9	Upper Marker	113.00
6	13,764	0.00	0.0		116.56
7	19,063	0.00	0.0		122.12
8	20,622	0.00	0.0		123.76

Region table for sample 3 : Nuclearia BB Lyso + SDS

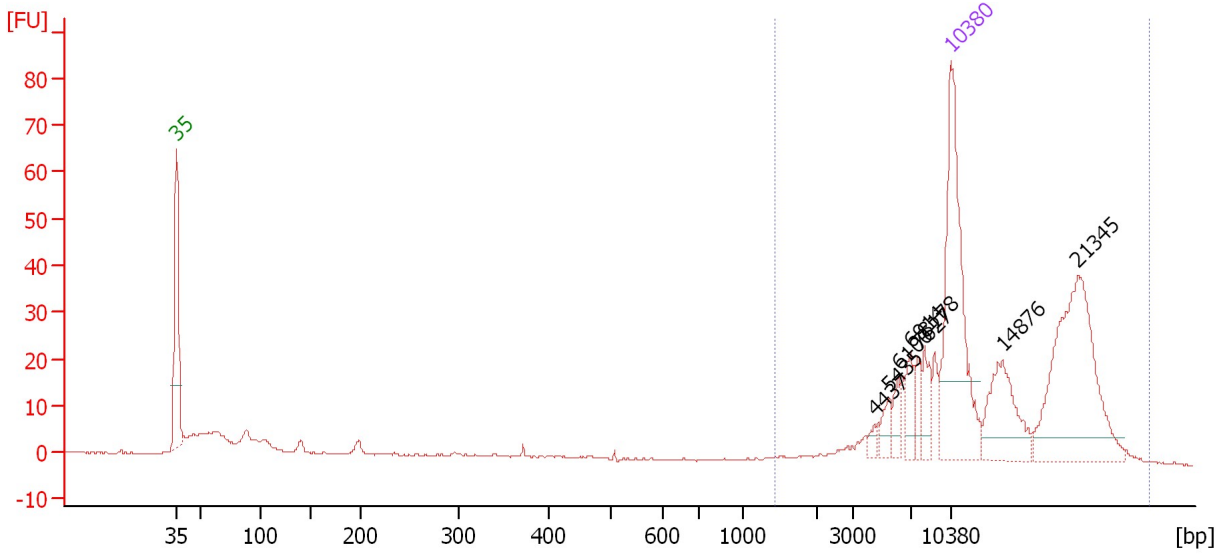
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
1,766	11,572	24,308	263.8	77	46.0	156.73	28.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
 Modified: 1/16/2015 11:26:42 AM

Electropherogram Summary Continued ...

Nuclearia BB Lyso + SDS +ALP



Overall Results for sample 4 : Nuclearia BB Lyso + SDS +ALP

Number of peaks found: 8 Corr. Area 1: 310.0
 Noise: 0.2

Peak table for sample 4 : Nuclearia BB Lyso + SDS +ALP

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	4,437	3.19	1.1		106.11
3	5,435	7.30	2.0		107.41
4	6,100	7.09	1.8		108.28
5	6,914	10.74	2.4		109.34
6	7,627	7.97	1.6		110.11
7	8,178	10.03	1.9		110.69
8	10,380	75.00	10.9	Upper Marker	113.00
9	14,876	0.00	0.0		117.72
10	21,345	0.00	0.0		124.52

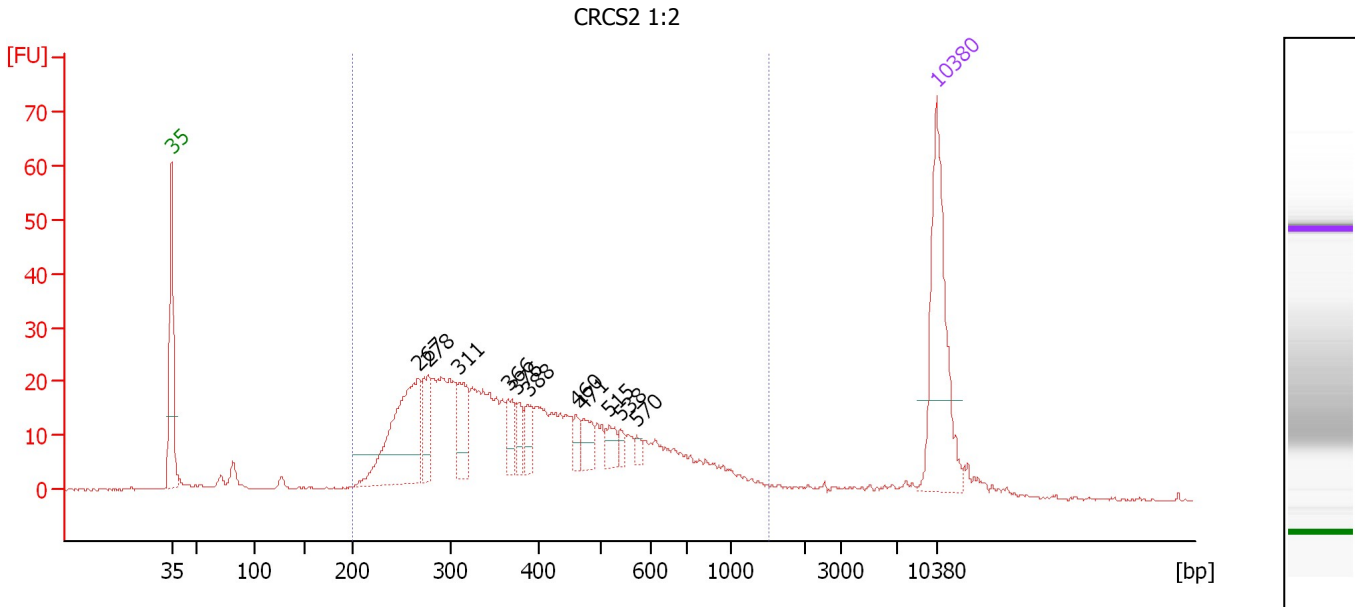
Region table for sample 4 : Nuclearia BB Lyso + SDS +ALP

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
1,442	13,943	27,484	310.0	78	43.4	171.10	27.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
 Modified: 1/16/2015 11:26:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : CRCS2 1:2

Number of peaks found: 11 Corr. Area 1: 645.4
 Noise: 0.2

Peak table for sample 5 : CRCS2 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	267	112.95	640.5		65.59
3	278	31.92	174.2		66.51
4	311	34.12	166.5		69.34
5	366	18.48	76.5		73.83
6	376	12.23	49.3		74.61
7	388	14.24	55.6		75.63
8	460	8.37	27.5		80.02
9	471	15.70	50.5		80.66
10	515	10.31	30.3		83.00
11	538	5.09	14.3		84.07
12	570	4.29	11.4		85.54
13	10,380	75.00	10.9	Upper Marker	113.00

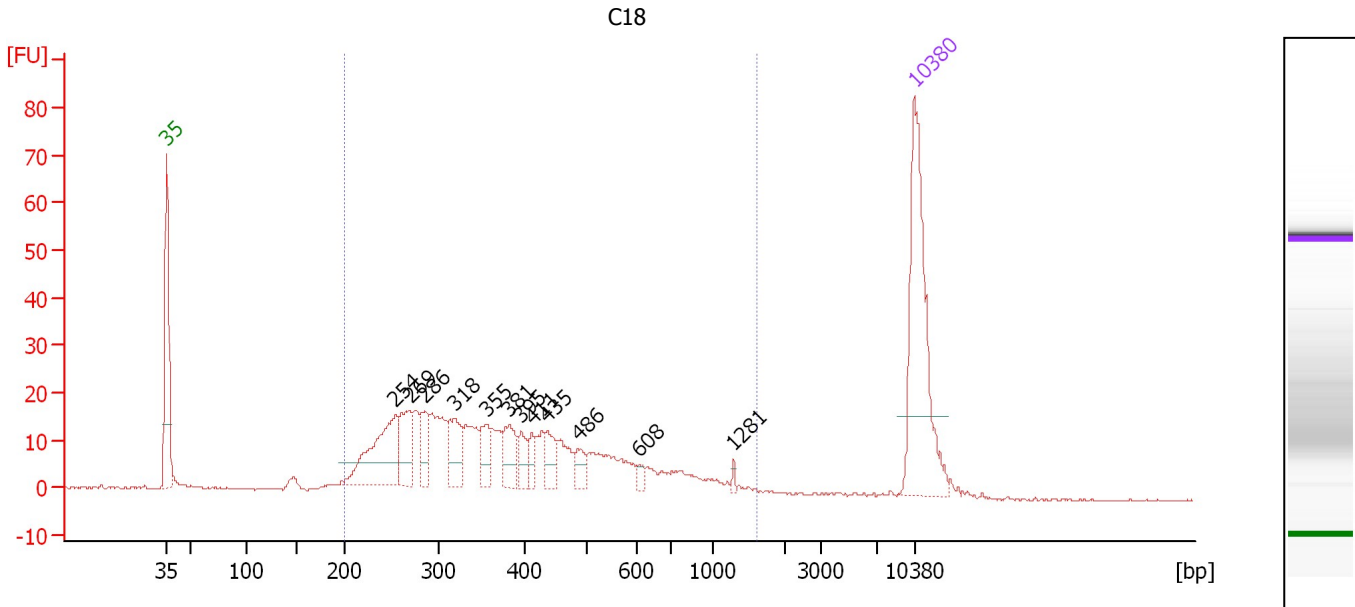
Region table for sample 5 : CRCS2 1:2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	429	1,516	645.4	88	45.8	725.03	3,121.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
 Modified: 1/16/2015 11:26:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : C18

Number of peaks found: 12 Corr. Area 1: 498.1
 Noise: 0.2

Peak table for sample 6 : C18

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	254	65.77	392.3		64.42
3	269	30.46	171.4		65.77
4	286	18.03	95.7		67.22
5	318	24.79	118.0		69.96
6	355	17.22	73.5		72.96
7	381	19.82	78.8		75.05
8	395	11.12	42.6		76.20
9	411	7.79	28.7		77.20
10	435	13.25	46.1		78.60
11	486	7.93	24.7		81.50
12	608	3.22	8.0		87.19
13	1,281	1.61	1.9		96.07
14	10,380	75.00	10.9	Upper Marker	113.00

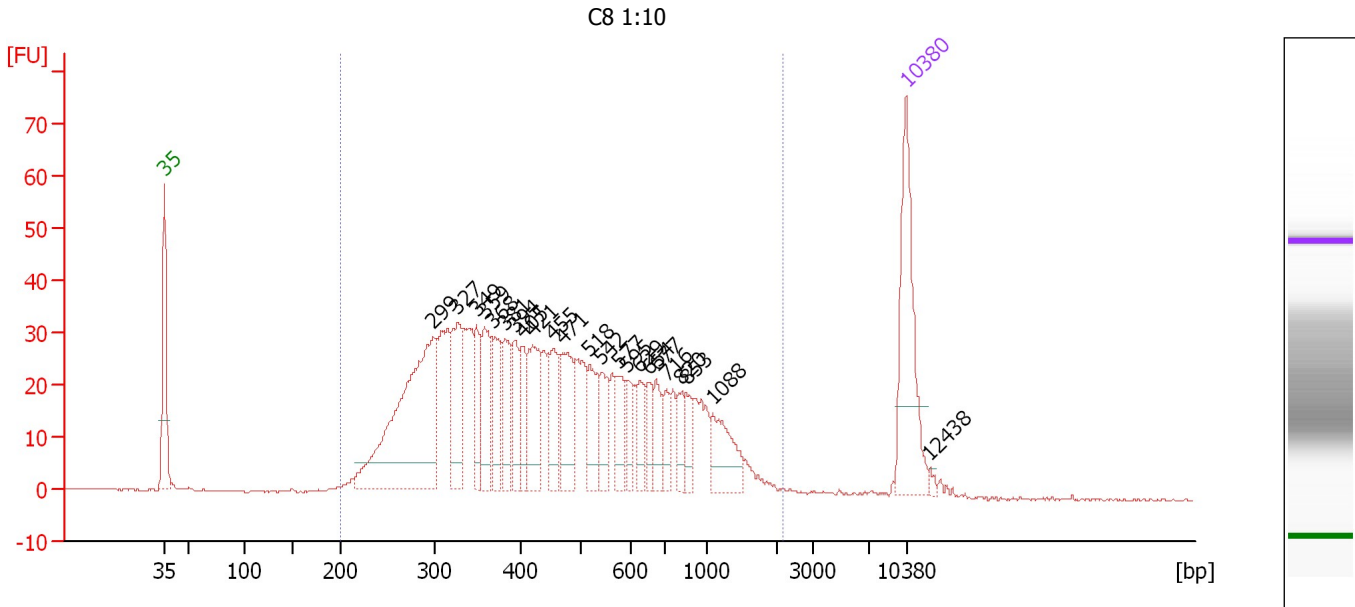
Region table for sample 6 : C18

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	416	1,596	498.1	94	48.4	443.67	1,982.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
 Modified: 1/16/2015 11:26:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : C8 1:10

Number of peaks found: 23 Corr. Area 1: 1,078.9
 Noise: 0.1

Peak table for sample 7 : C8 1:10


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	299	227.32	1,152.2		68.40
3	327	61.72	286.2		70.66
4	349	33.73	146.4		72.47
5	359	47.79	201.6		73.27
6	368	42.51	175.1		73.98
7	381	38.38	152.4		75.08
8	394	30.20	116.2		76.09
9	405	26.75	100.2		76.84
10	421	48.58	174.7		77.80
11	455	36.80	122.6		79.71
12	471	46.55	149.9		80.61
13	518	37.73	110.3		83.13
14	542	26.35	73.7		84.24
15	577	23.21	61.0		85.84
16	595	16.72	42.6		86.70
17	629	18.91	45.6		87.86
18	654	16.29	37.8		88.66
19	677	19.51	43.7		89.42
20	716	16.10	34.1		90.37
21	820	14.97	27.7		91.78
22	853	13.34	23.7		92.23
23	1,088	34.24	47.7		94.80
24	10,380	75.00	10.9	Upper Marker	113.00
25	12,438	0.00	0.0		115.16

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
Modified: 1/16/2015 11:26:42 AM

Electropherogram Summary Continued ...

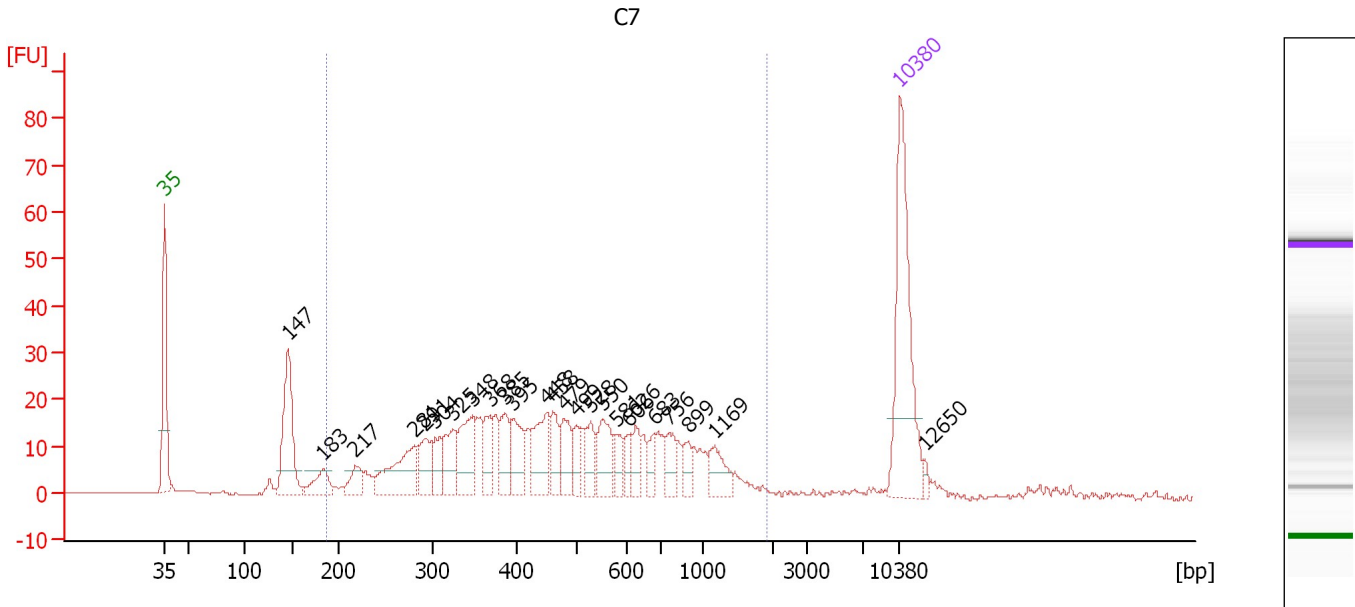
... Region table for sample 7 : C8 1:10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Molarity [pmol/l]	Color
200	519	2,173	1,078.9	98	54.8	1,252.25	4,759.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : C7

Number of peaks found: 25 Corr. Area 1: 582.9
 Noise: 0.2

Peak table for sample 8 : C7

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	147	74.47	770.2		54.78
3	183	18.71	155.0		58.08
4	217	14.56	101.5		61.17
5	281	46.91	253.0		66.81
6	291	24.17	125.7		67.72
7	304	16.96	84.6		68.79
8	325	24.86	115.9		70.51
9	348	37.58	163.8		72.34
10	368	19.17	79.0		73.96
11	385	21.83	85.9		75.39
12	395	26.17	100.5		76.15
13	448	33.60	113.5		79.35
14	458	18.21	60.2		79.90
15	479	20.33	64.4		81.07
16	499	11.97	36.3		82.24
17	528	15.56	44.6		83.61
18	550	24.87	68.5		84.62
19	581	12.04	31.4		86.05
20	606	8.51	21.3		87.11
21	626	12.69	30.7		87.77
22	683	8.95	19.9		89.60
23	756	14.00	28.0		90.92
24	899	9.06	15.3		92.85
25	1,169	15.39	19.9		95.34

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
Modified: 1/16/2015 11:26:42 AM

Electropherogram Summary Continued ...**... Peak table for sample 8 : C7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00
27	12,650	0.00	0.0		115.39

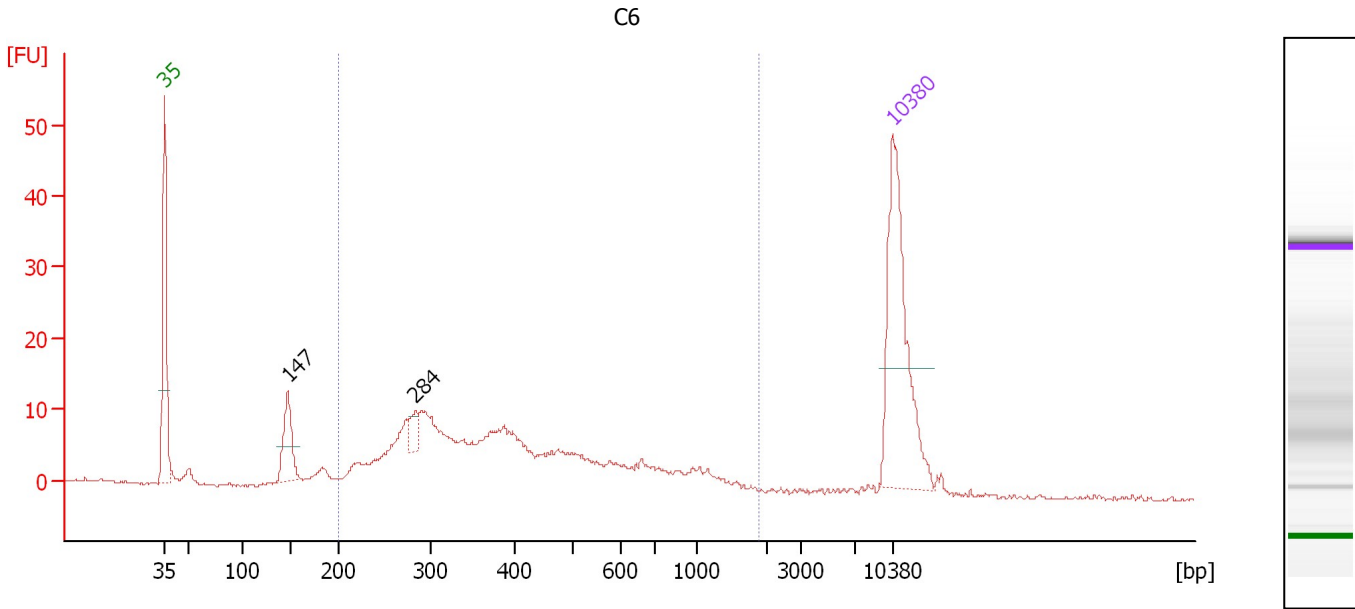
Region table for sample 8 : C7

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
186	530	1,918	582.9	85	52.5	555.21	2,084.2	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
 Modified: 1/16/2015 11:26:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : C6

Number of peaks found: 2 Corr. Area 1: 249.1
 Noise: 0.2

Peak table for sample 9 : C6

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	147	34.09	350.7		54.85
3	284	9.12	48.6		67.10
4	10,380	75.00	10.9	Upper Marker	113.00

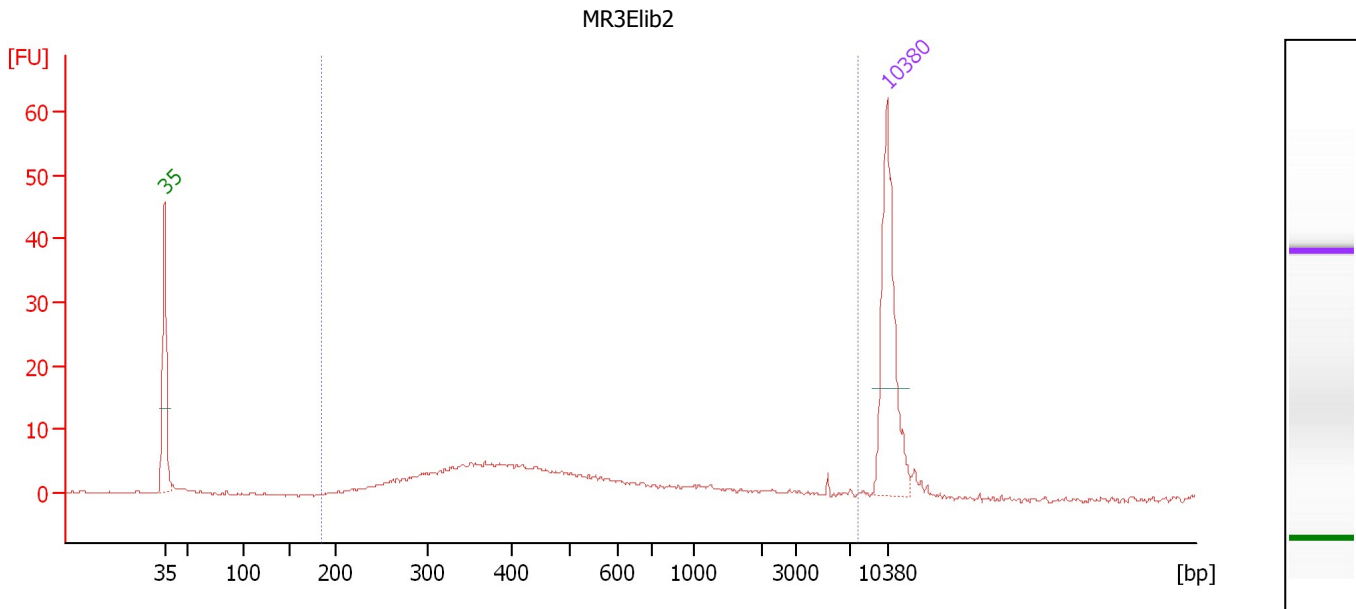
Region table for sample 9 : C6

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	455	1,883	249.1	85	55.0	303.93	1,288.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
 Modified: 1/16/2015 11:26:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : MR3Elib2

Number of peaks found: 0 Corr. Area 1: 132.7
 Noise: 0.2

Peak table for sample 10 : MR3Elib2

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

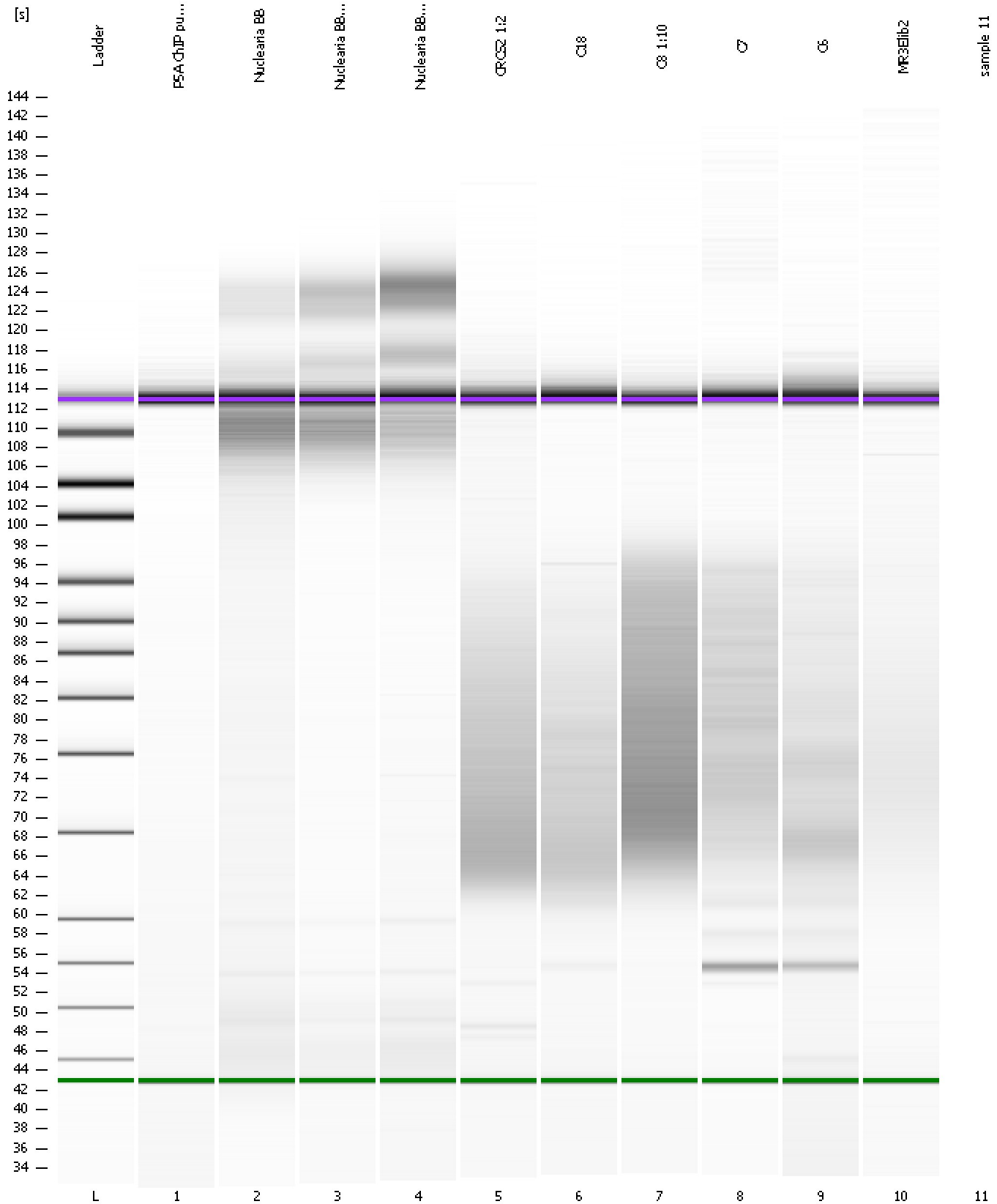
Region table for sample 10 : MR3Elib2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
184	625	7,652	132.7	94	100.0	185.95	711.2	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
Modified: 1/16/2015 11:26:42 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
Modified: 1/16/2015 11:26:42 AM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad

Created: 1/16/2015 10:47:15 AM
 Modified: 1/16/2015 11:26:42 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		1/16/2015 11:25:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-16\2015-01-16_001.xad)		Instrument	Run		1/16/2015 10:47:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/16/2015 10:47:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/16/2015 10:47:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/16/2015 10:47:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/16/2015 10:47:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/16/2015 10:47:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/16/2015 10:47:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1