

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-05\2017-09-05_003.xad

Created: 9/5/2017 3:17:28 PM
Modified: 9/5/2017 3:53:03 PM

Electrophoresis File Run Summary

Instrument Information:

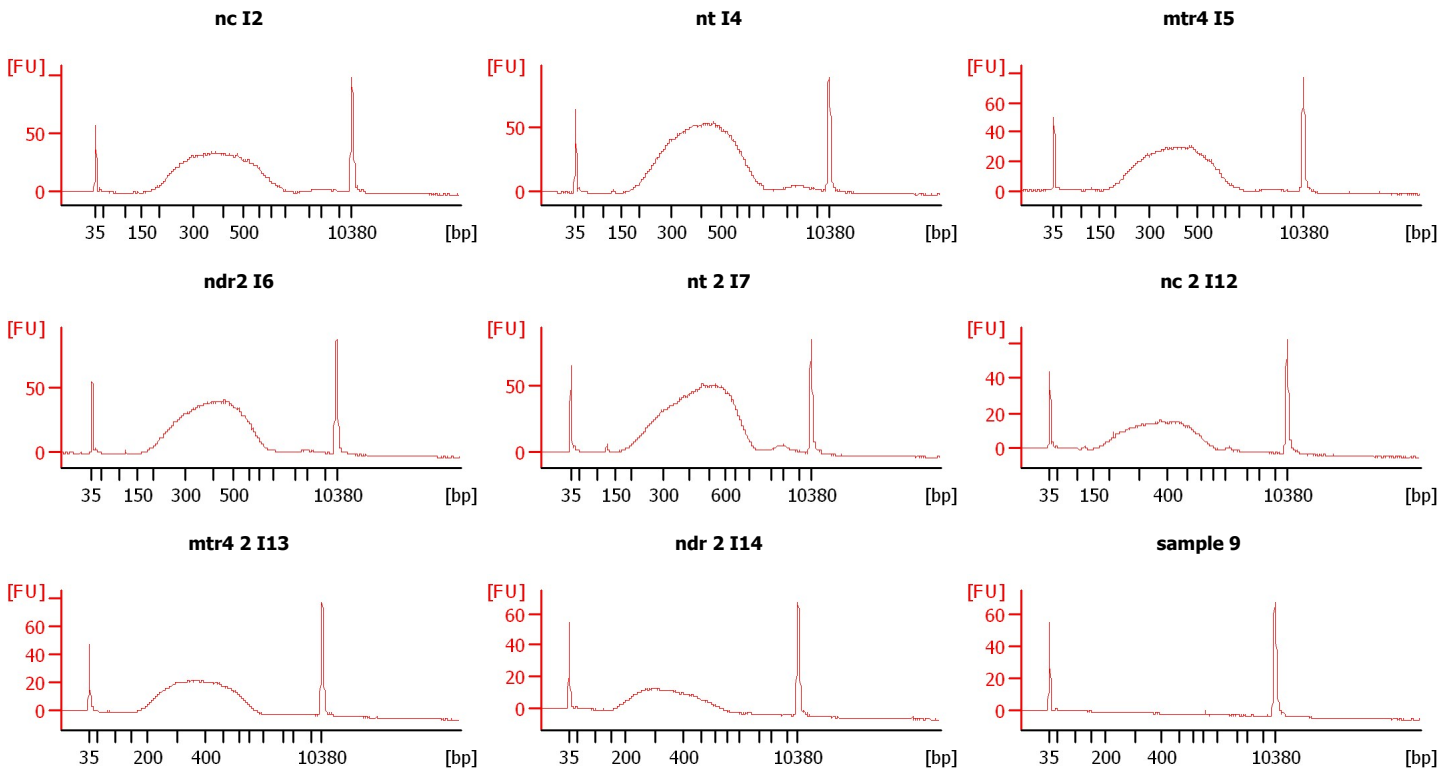
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
nc I2		<input type="checkbox"/>	✓			
nt I4		<input type="checkbox"/>	✓			
mtr4 I5		<input type="checkbox"/>	✓			
ndr2 I6		<input type="checkbox"/>	✓			
nt 2 I7		<input type="checkbox"/>	✓			
nc 2 I12		<input type="checkbox"/>	✓			
mtr4 2 I13		<input type="checkbox"/>	✓			
ndr 2 I14		<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

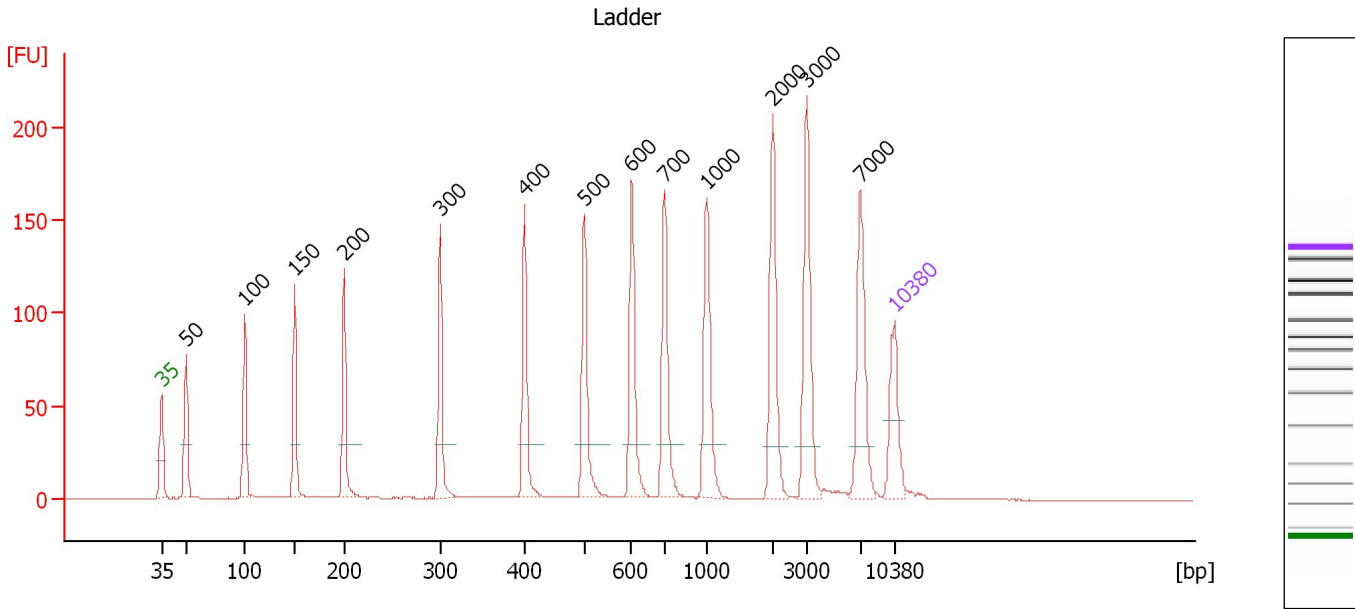
Ladder

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

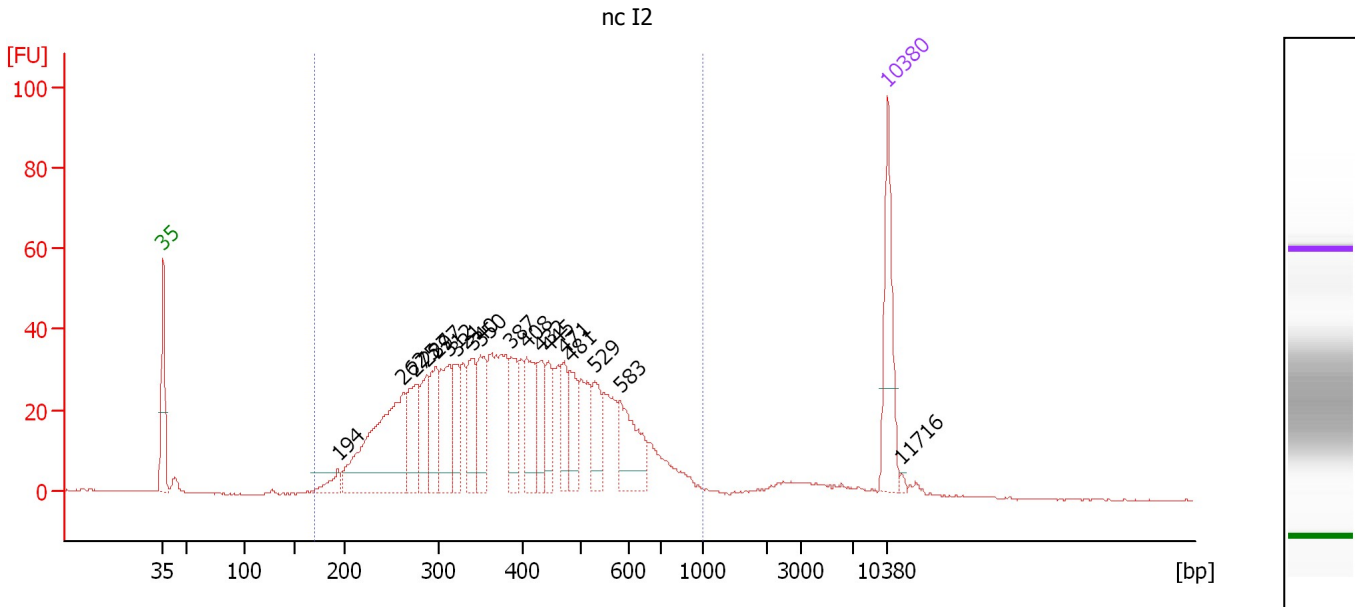
Peak table for Ladder

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	45.34
3	100	150.00	2,272.7	Ladder Peak	50.94
4	150	150.00	1,515.2	Ladder Peak	55.73
5	200	150.00	1,136.4	Ladder Peak	60.46
6	300	150.00	757.6	Ladder Peak	69.63
7	400	150.00	568.2	Ladder Peak	77.67
8	500	150.00	454.5	Ladder Peak	83.37
9	600	150.00	378.8	Ladder Peak	87.90
10	700	150.00	324.7	Ladder Peak	91.06
11	1,000	150.00	227.3	Ladder Peak	95.08
12	2,000	150.00	113.6	Ladder Peak	101.34
13	3,000	150.00	75.8	Ladder Peak	104.60
14	7,000	150.00	32.5	Ladder Peak	109.74
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : nc I2

Number of peaks found: 18 Corr. Area 1: 1,091.5
 Noise: 0.2

Peak table for sample 1 : nc I2

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	194	23.35	182.3		59.89
3	262	241.19	1,392.7		66.18
4	275	79.53	438.6		67.31
5	287	62.21	328.3		68.45
6	297	68.96	351.5		69.37
7	312	86.05	417.6		70.61
8	321	50.39	237.7		71.33
9	340	63.74	284.3		72.82
10	350	70.42	304.8		73.65
11	387	51.64	202.1		76.64
12	408	67.26	249.7		78.13
13	432	47.66	167.3		79.47
14	445	40.59	138.2		80.24
15	471	39.46	126.9		81.73
16	481	46.82	147.4		82.30
17	529	44.10	126.4		84.67
18	583	69.72	181.1		87.14
19	10,380	75.00	10.9	Upper Marker	113.00
20	11,716	0.00	0.0		114.29

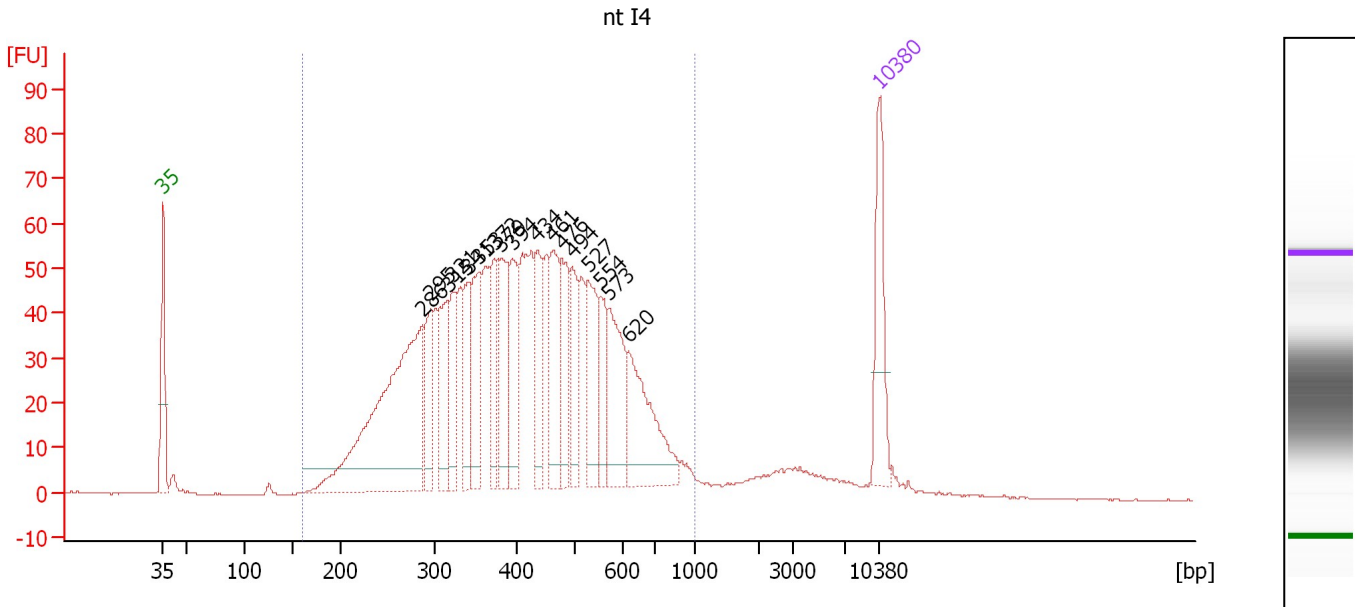
Region table for sample 1 : nc I2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
170	1,000	407	1,091.5	7,087.0	1,642.22	95	33.0

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Electropherogram Summary Continued ...



Overall Results for sample 2 : nt I4

Number of peaks found: 17 Corr. Area 1: 1,625.8
 Noise: 0.1

Peak table for sample 2 : nt I4

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	286	440.01	2,330.4		68.35
3	295	81.72	420.3		69.13
4	315	97.20	467.1		70.85
5	321	65.78	310.4		71.32
6	341	81.06	359.9		72.94
7	353	97.47	418.5		73.88
8	372	73.11	298.0		75.39
9	379	98.30	393.2		75.97
10	394	89.59	344.8		77.17
11	434	78.99	275.6		79.62
12	461	91.63	301.4		81.13
13	476	82.49	262.4		82.02
14	494	69.40	213.0		83.01
15	527	92.19	265.3		84.57
16	554	58.28	159.3		85.82
17	573	104.96	277.7		86.66
18	620	126.10	308.1		88.54
19	10,380	75.00	10.9	Upper Marker	113.00

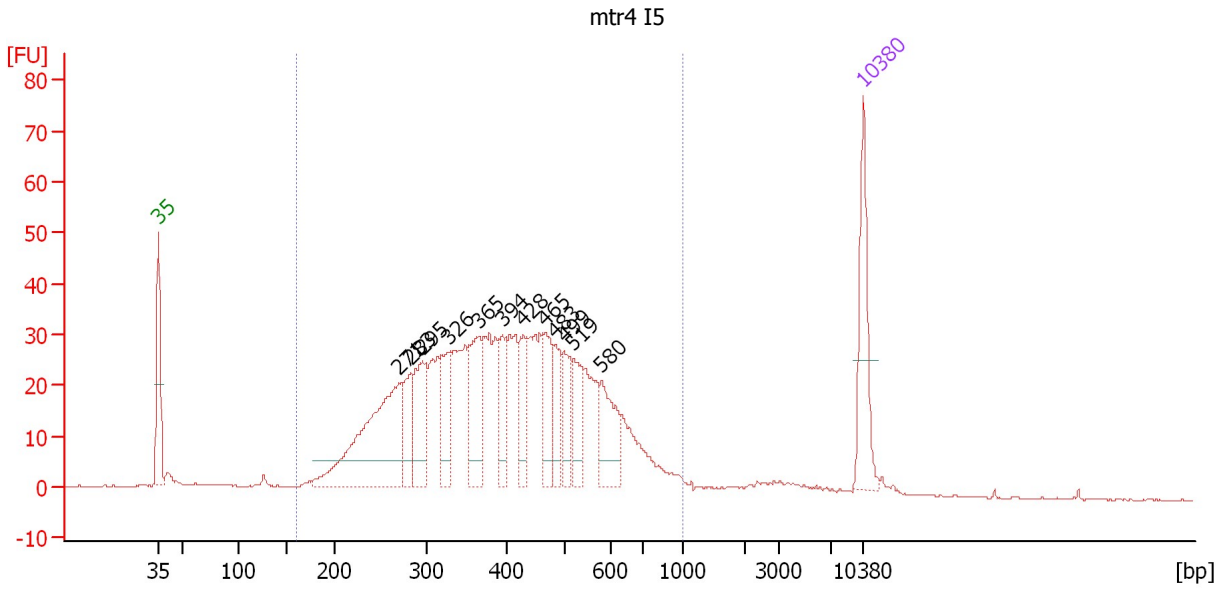
Region table for sample 2 : nt I4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
160	1,000	424	1,625.8	10,161.5	2,456.51	95	32.2

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Electropherogram Summary Continued ...



Overall Results for sample 3 : mtr4 I5

Number of peaks found: 12 Corr. Area 1: 948.5
 Noise: 0.1

Peak table for sample 3 : mtr4 I5

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	271	264.02	1,478.2		66.93
3	283	58.54	313.7		68.05
4	295	90.87	466.0		69.21
5	326	75.19	349.0		71.75
6	365	93.83	389.9		74.82
7	394	44.90	172.6		77.21
8	428	50.20	177.7		79.27
9	465	58.49	190.5		81.39
10	483	44.90	140.9		82.39
11	499	41.90	127.3		83.30
12	519	51.08	149.0		84.25
13	580	63.26	165.2		87.00
14	10,380	75.00	10.9	Upper Marker	113.00

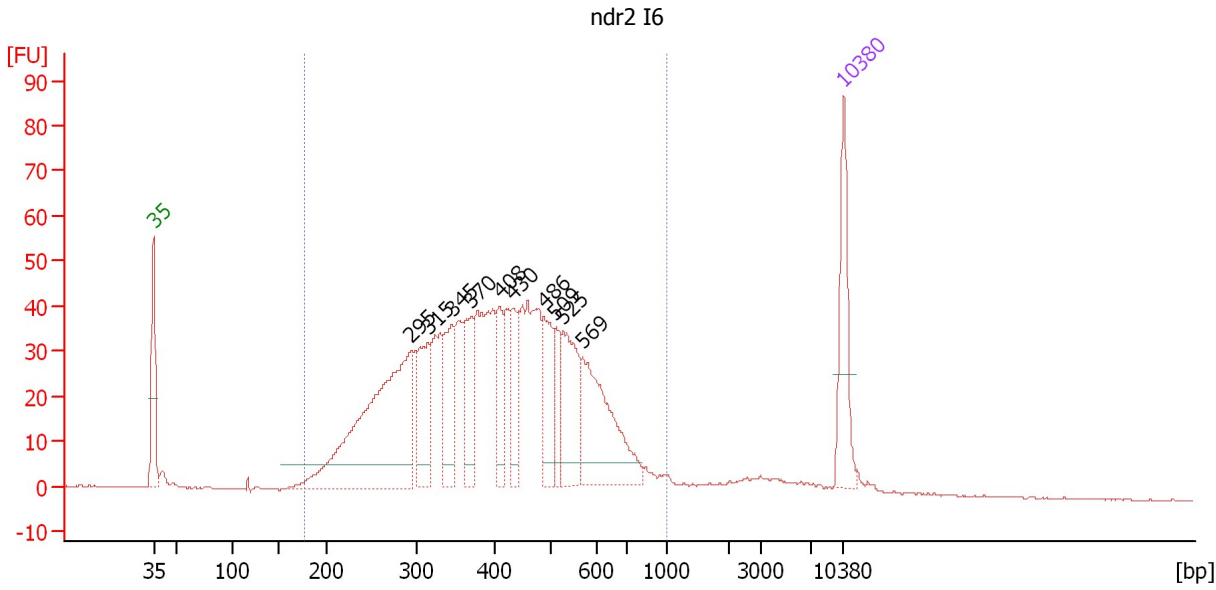
Region table for sample 3 : mtr4 I5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
161	1,000	415	948.5	7,244.9	1,707.95	94	32.7

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Electropherogram Summary Continued ...



Overall Results for sample 4 : ndr2 I6

Number of peaks found: 10 Corr. Area 1: 1,206.5
 Noise: 0.1

Peak table for sample 4 : ndr2 I6

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	295	415.32	2,133.5		69.16
3	315	97.54	469.1		70.84
4	345	85.86	376.7		73.27
5	370	78.09	320.2		75.22
6	408	60.30	223.8		78.14
7	430	55.28	194.8		79.38
8	486	70.05	218.4		82.57
9	509	42.52	126.7		83.76
10	525	105.41	304.1		84.51
11	569	162.86	433.4		86.51
12	10,380	75.00	10.9	Upper Marker	113.00

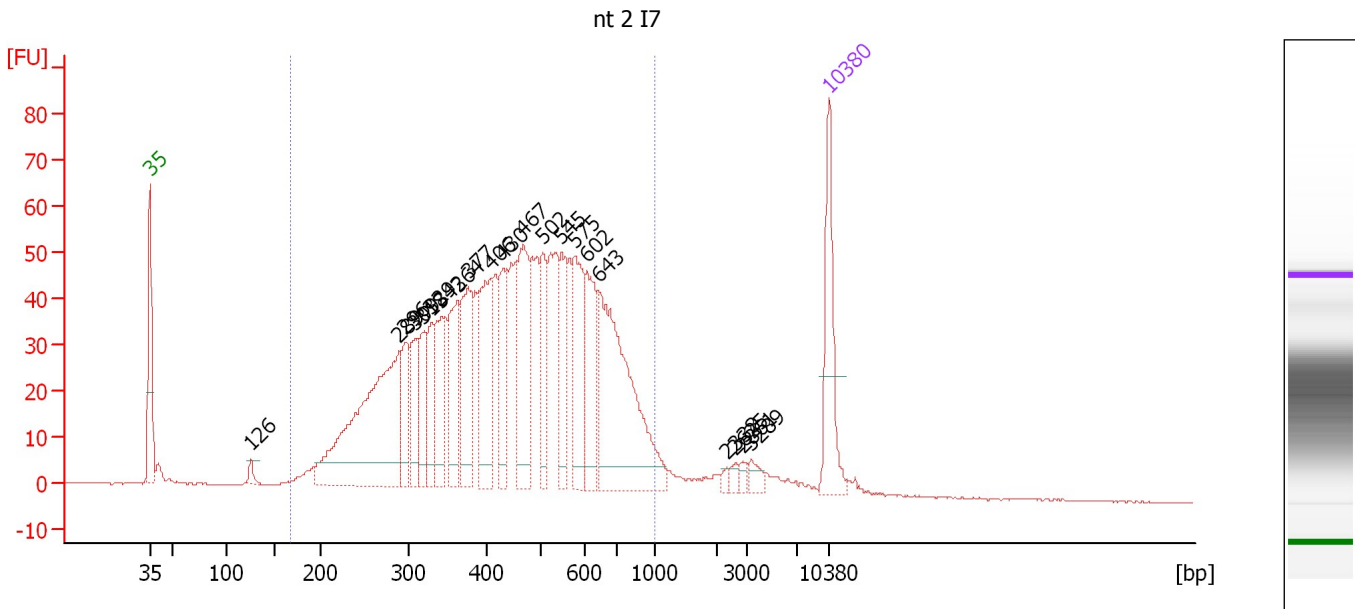
Region table for sample 4 : ndr2 I6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
178	1,000	418	1,206.5	7,883.4	1,887.59	94	31.6

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Electropherogram Summary Continued ...



Overall Results for sample 5 : nt 2 I7

Number of peaks found: 21 Corr. Area 1: 1,513.6
 Noise: 0.2

Peak table for sample 5 : nt 2 I7

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	126	10.45	126.0		53.39
3	289	349.87	1,833.8		68.62
4	296	56.19	287.3		69.28
5	309	60.46	296.7		70.33
6	318	61.89	295.2		71.04
7	329	54.83	252.3		71.98
8	342	85.33	377.8		73.02
9	364	95.76	398.5		74.78
10	377	105.13	422.4		75.83
11	406	113.55	423.5		78.03
12	430	80.65	283.9		79.40
13	467	120.33	390.4		81.49
14	502	67.14	202.6		83.47
15	545	72.18	200.8		85.40
16	575	92.81	244.5		86.77
17	602	90.32	227.1		87.98
18	643	251.84	593.8		89.25
19	2,338	3.92	2.5		102.44
20	2,625	6.11	3.5		103.38
21	2,861	5.19	2.8		104.15
22	3,289	10.20	4.7		104.97
23	10,380	75.00	10.9	Upper Marker	113.00

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

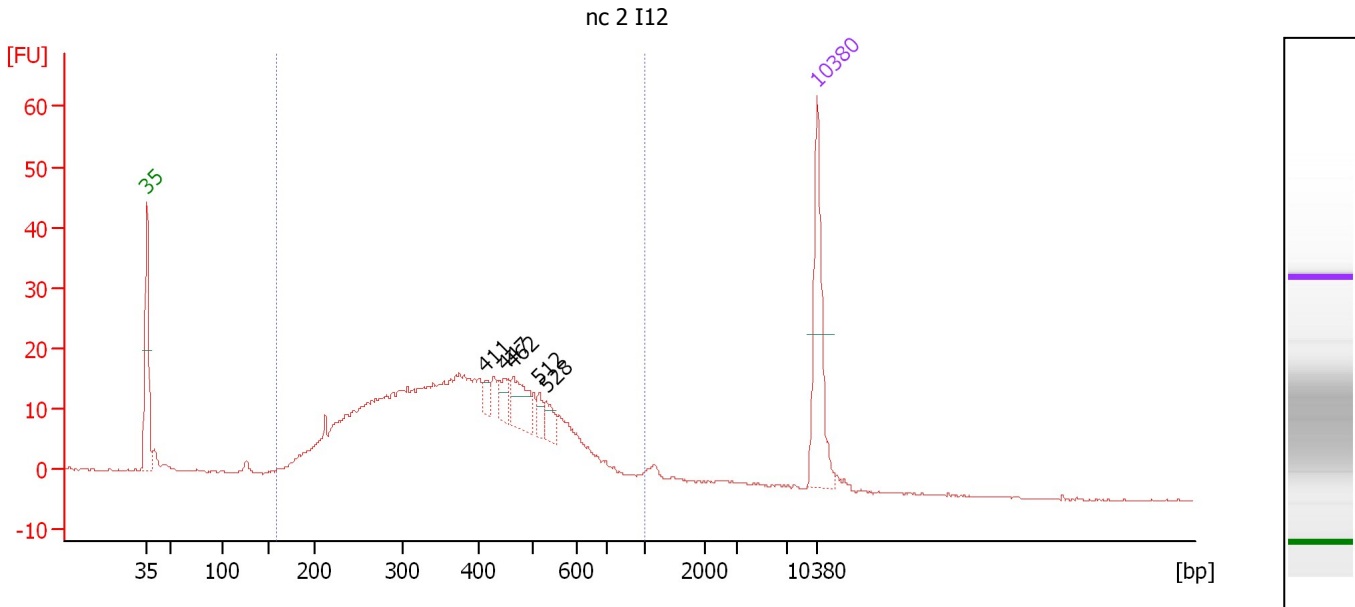
... Region table for sample 5 : nt 2 I7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
169	1,000	464	1,513.6	8,908.7	■ 2,300.45	94	33.9

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Electropherogram Summary Continued ...



Overall Results for sample 6 : nc 2 I12

Number of peaks found: 5 Corr. Area 1: 541.8
 Noise: 0.1

Peak table for sample 6 : nc 2 I12

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	411	9.27	34.2		78.31
3	447	19.34	65.5		80.37
4	462	37.72	123.7		81.20
5	512	10.64	31.5		83.93
6	528	16.38	47.0		84.65
7	10,380	75.00	10.9	Upper Marker	113.00

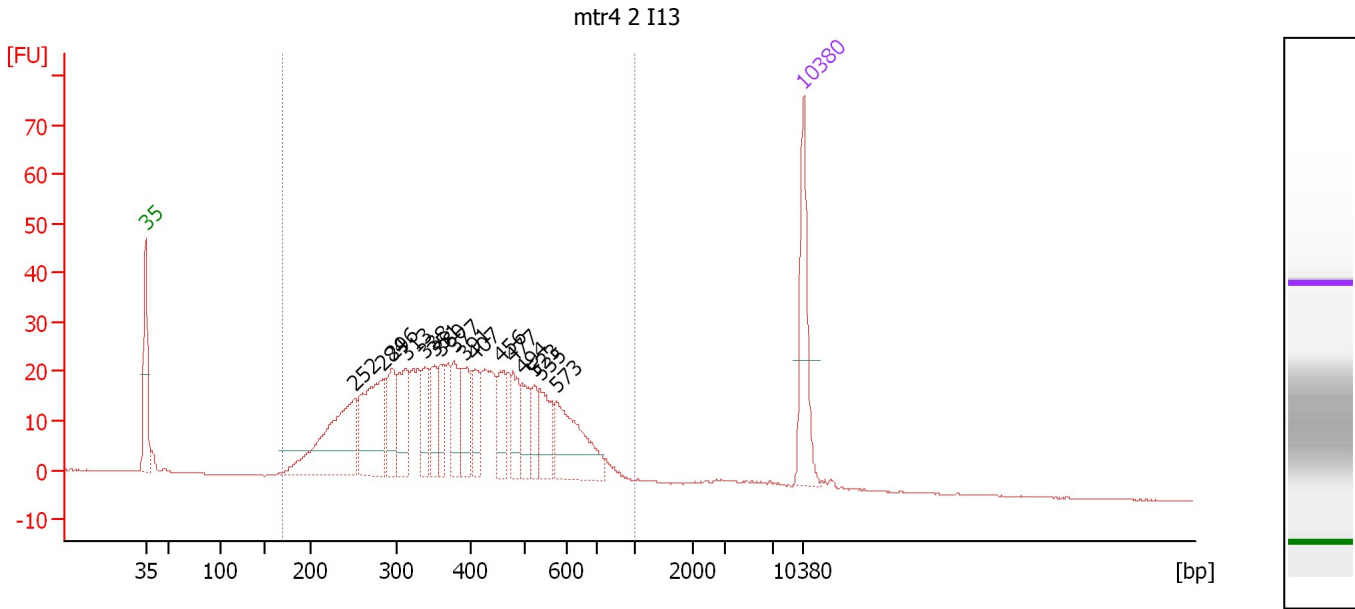
Region table for sample 6 : nc 2 I12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
159	1,000	393	541.8	4,908.3	1,085.92	93	33.5

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Electropherogram Summary Continued ...



Overall Results for sample 7 : mtr4 2 I13

Number of peaks found: 16 Corr. Area 1: 745.6
 Noise: 0.1

Peak table for sample 7 : mtr4 2 I13

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	252	178.97	1,075.6		65.24
3	284	142.49	759.4		68.19
4	296	57.76	295.6		69.26
5	313	74.34	359.7		70.68
6	338	39.44	176.9		72.67
7	351	44.92	193.8		73.75
8	360	38.75	162.9		74.48
9	377	48.72	195.6		75.84
10	391	48.62	188.2		76.98
11	407	39.05	145.4		78.06
12	456	41.85	139.2		80.84
13	477	43.97	139.5		82.08
14	494	33.76	103.5		83.05
15	523	25.82	74.8		84.41
16	535	44.13	124.9		84.98
17	573	96.84	256.1		86.68
18	10,380	75.00	10.9	Upper Marker	113.00

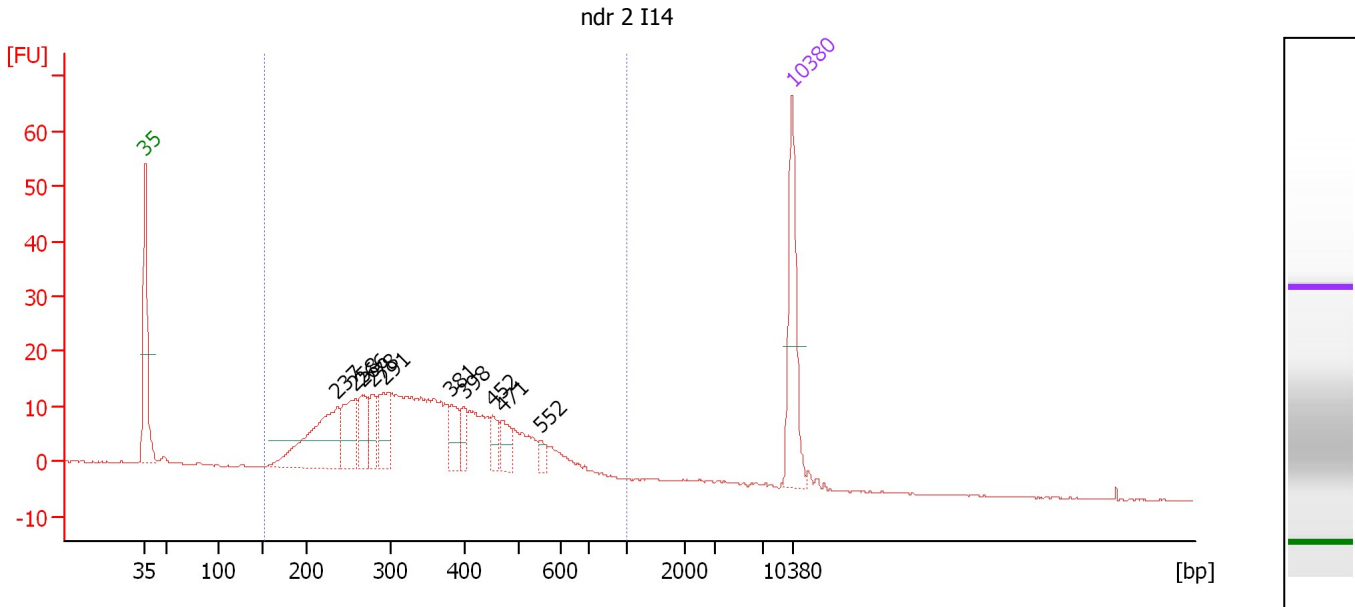
Region table for sample 7 : mtr4 2 I13

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
170	1,000	403	745.6	5,846.5	1,336.06	96	33.0

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Electropherogram Summary Continued ...



Overall Results for sample 8 : ndr 2 I14

Number of peaks found: 10 Corr. Area 1: 434.4
 Noise: 0.1

Peak table for sample 8 : ndr 2 I14

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	237	136.29	872.8		63.82
3	258	62.10	364.7		65.78
4	266	42.19	240.7		66.47
5	278	30.60	166.7		67.62
6	291	48.25	251.0		68.83
7	381	30.14	119.8		76.15
8	398	18.38	70.0		77.48
9	452	16.38	54.9		80.65
10	471	22.64	72.9		81.69
11	552	8.75	24.0		85.73
12	10,380	75.00	10.9	Upper Marker	113.00

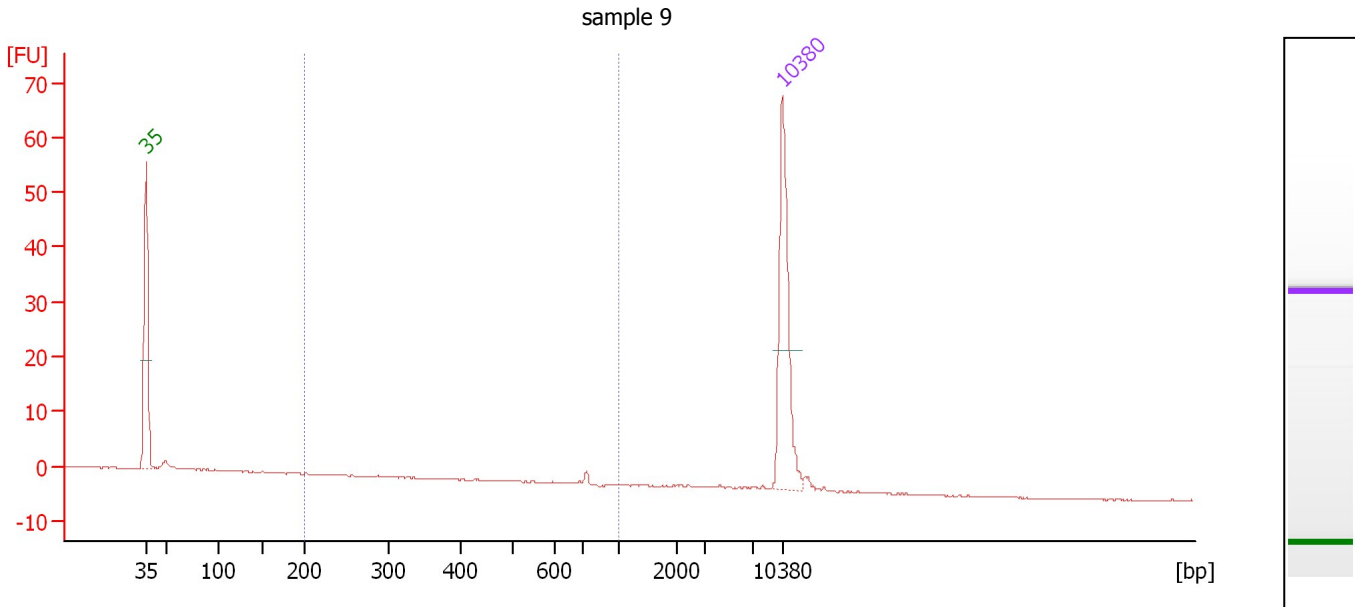
Region table for sample 8 : ndr 2 I14

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
152	1,000	361	434.4	4,035.0	828.48	97	33.3

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Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 0 Corr. Area 1: 1.0
 Noise: 0.1

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

Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	696	1.0	3.7	1.45	11	18.1

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Gel Image

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Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.