

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_002.xad

Created: 10/21/2014 2:50:29 PM
Modified: 10/21/2014 4:37:02 PM

Electrophoresis File Run Summary

Instrument Information:

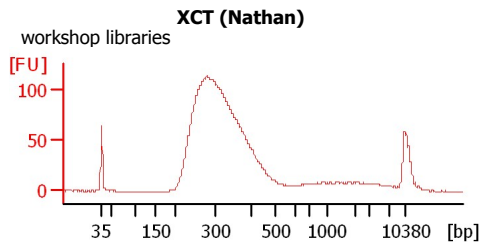
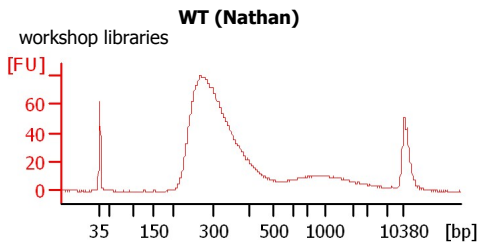
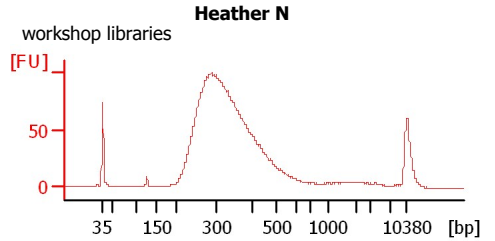
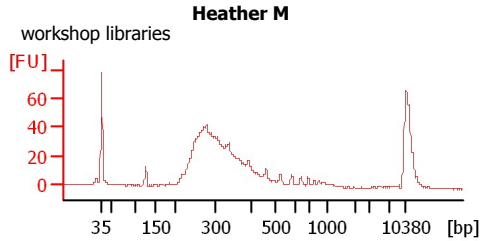
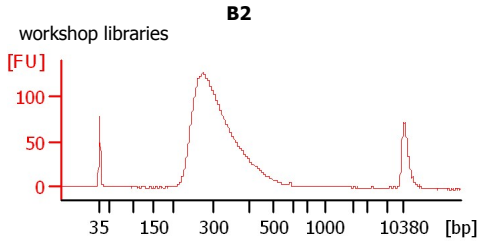
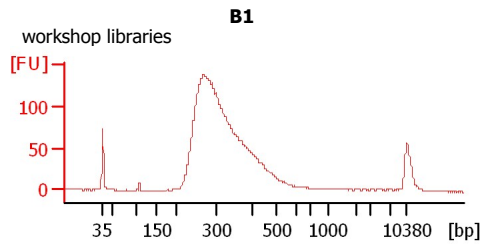
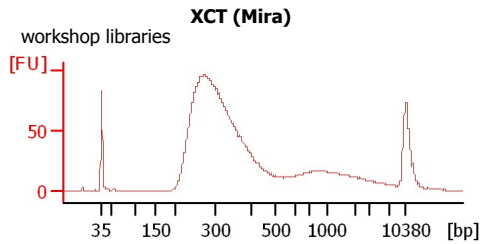
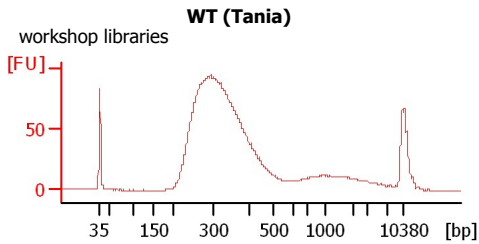
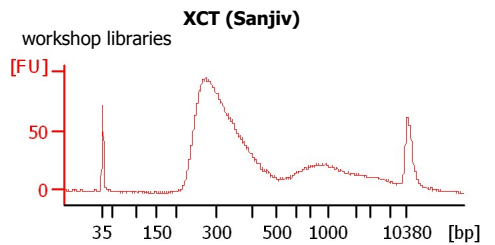
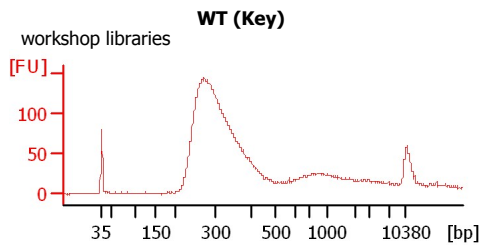
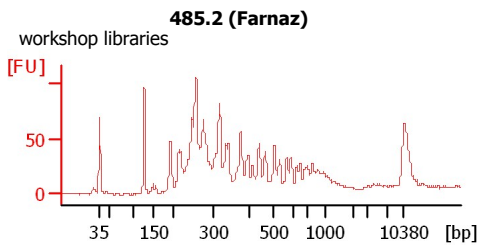
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
485.2 (Farnaz)	workshop libraries	<input type="checkbox"/>	✓			
WT (Key)	workshop libraries	<input type="checkbox"/>	✓			
XCT (Sanjiv)	workshop libraries	<input type="checkbox"/>	✓			
WT (Tania)	workshop libraries	<input type="checkbox"/>	✓			
XCT (Mira)	workshop libraries	<input type="checkbox"/>	✓			
B1	workshop libraries	<input type="checkbox"/>	✓			
B2	workshop libraries	<input type="checkbox"/>	✓			
Heather M	workshop libraries	<input type="checkbox"/>	✓			
Heather N	workshop libraries	<input type="checkbox"/>	✓			
WT (Nathan)	workshop libraries	<input type="checkbox"/>	✓			
XCT (Nathan)	workshop libraries	<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

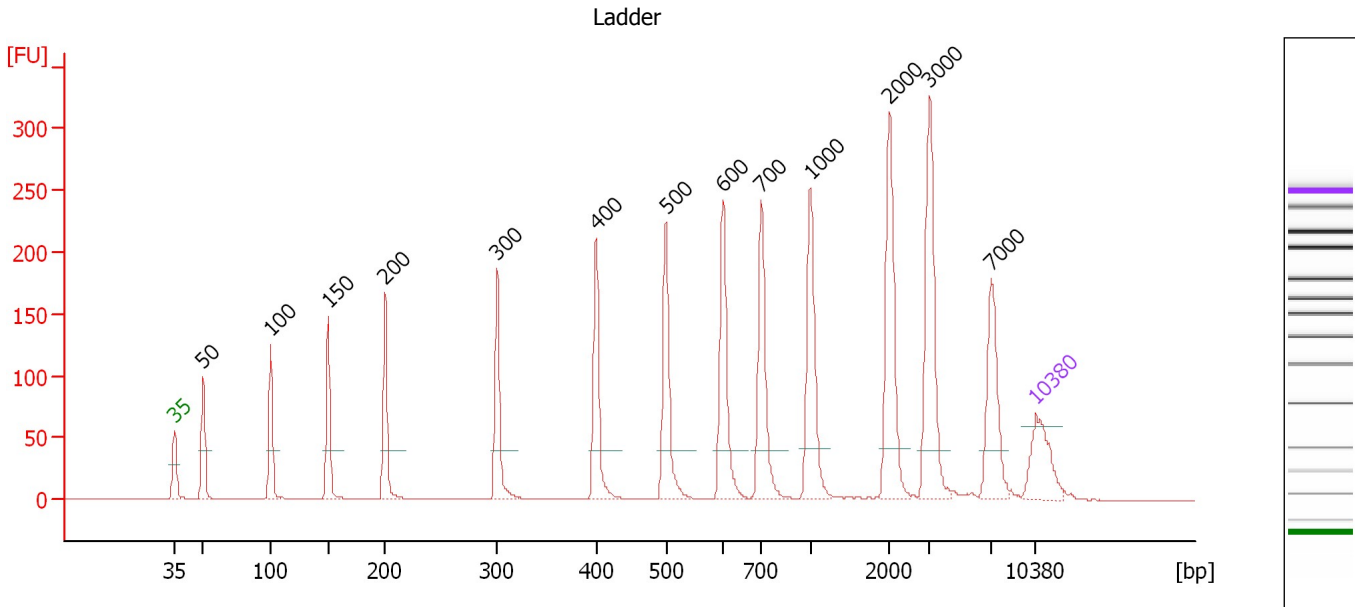
Ladder

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: 0.2

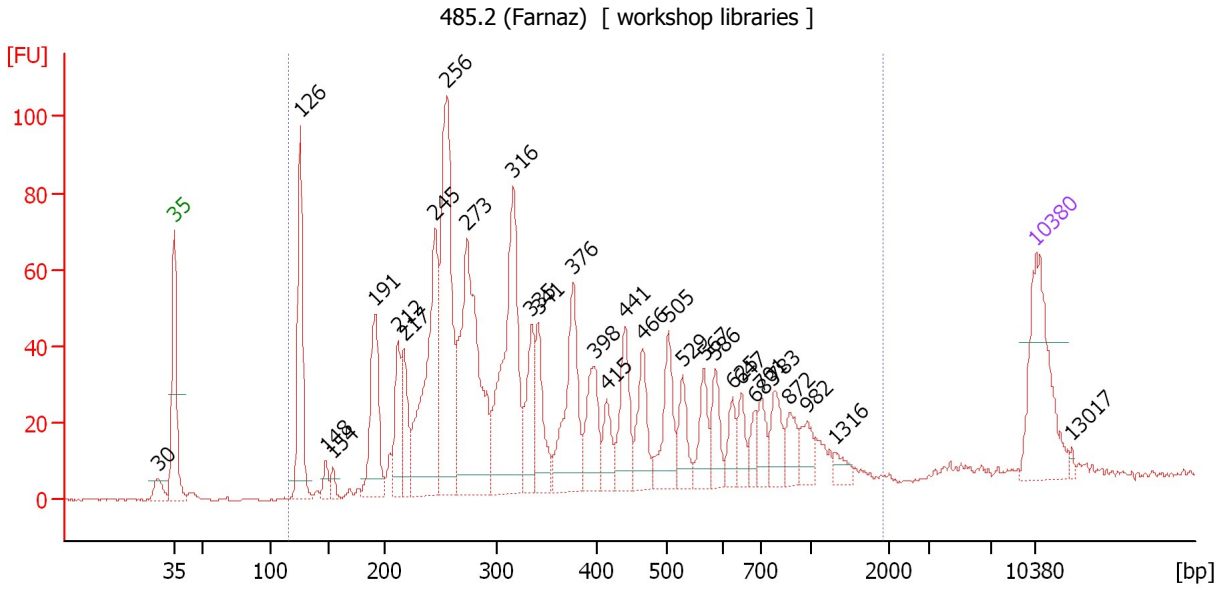
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 485.2 (Farnaz)

Number of peaks found: 31 Corr. Area 1: 1,531.1
 Noise: 0.2

Peak table for sample 1 : 485.2 (Farnaz)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	126	131.38	1,585.0	
4	148	12.56	128.6	
5	154	8.94	88.0	
6	191	92.56	733.3	
7	212	50.92	364.6	
8	217	48.77	341.2	
9	245	171.23	1,060.9	
10	256	205.02	1,215.7	
11	273	217.66	1,208.1	
12	316	181.43	868.9	
13	335	53.63	242.9	
14	341	50.77	225.4	
15	376	94.58	380.7	
16	398	51.45	195.9	
17	415	26.12	95.4	
18	441	52.65	180.8	
19	466	43.67	141.9	
20	505	50.52	151.6	
21	529	28.77	82.3	
22	567	29.49	78.9	
23	586	26.83	69.3	
24	625	18.99	46.0	
25	647	18.81	44.1	
26	683	12.63	28.0	

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Electropherogram Summary Continued ...

... Peak table for sample 1 : 485.2 (Farnaz)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	701	20.48	44.2	
28	783	26.81	51.8	
29	872	20.21	35.1	
30	982	17.95	27.7	
31	1,316	9.66	11.1	
32	10,380	75.00	10.9	Upper Marker
33	13,017	0.00	0.0	

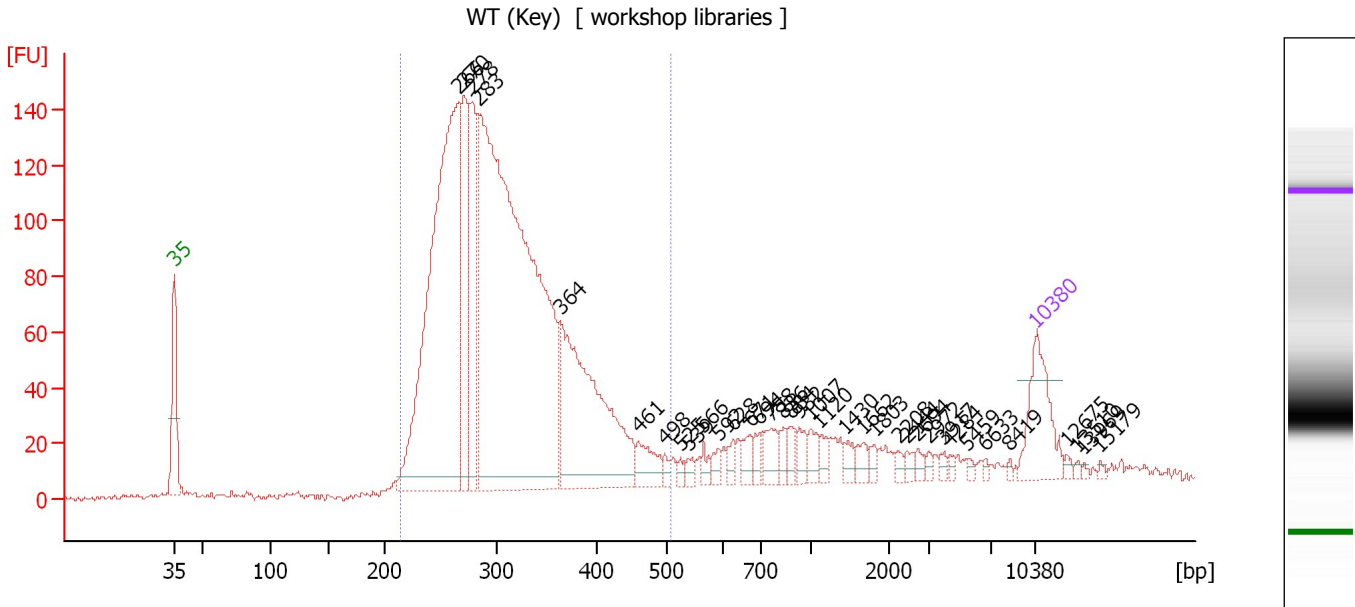
Region table for sample 1 : 485.2 (Farnaz)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
116	406	1,912	1,531.1	97	60.5	1,754.33	9,449.1	

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Electropherogram Summary Continued ...



Overall Results for sample 2 : WT (Key)

Number of peaks found: 36 Corr. Area 1: 2,199.3
 Noise: 1.1

Peak table for sample 2 : WT (Key)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	266	828.12	4,722.9	
3	270	215.87	1,210.7	
4	278	182.44	995.7	
5	283	1,302.72	6,972.5	
6	364	369.00	1,536.6	
7	461	42.80	140.7	
8	498	8.75	26.6	
9	525	7.23	20.9	
10	539	11.32	31.8	
11	566	12.44	33.3	
12	592	12.81	32.8	
13	628	13.23	32.0	
14	671	18.40	41.6	
15	694	17.43	38.0	
16	758	30.94	61.8	
17	836	14.50	26.3	
18	884	16.47	28.2	
19	932	17.98	29.2	
20	1,007	18.30	27.5	
21	1,120	14.01	19.0	
22	1,430	12.40	13.1	
23	1,662	13.01	11.9	
24	1,803	8.52	7.2	
25	2,208	7.07	4.8	
26	2,444	7.30	4.5	

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

... Peak table for sample 2 : WT (Key)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,694	7.57	4.3	
28	2,972	4.99	2.5	
29	3,917	5.85	2.3	
30	4,284	4.49	1.6	
31	5,459	4.48	1.2	
32	6,633	3.36	0.8	
33	8,419	2.68	0.5	
34	10,380	75.00	10.9	Upper Marker
35	12,675	0.00	0.0	
36	13,510	0.00	0.0	
37	13,969	0.00	0.0	
38	15,179	0.00	0.0	

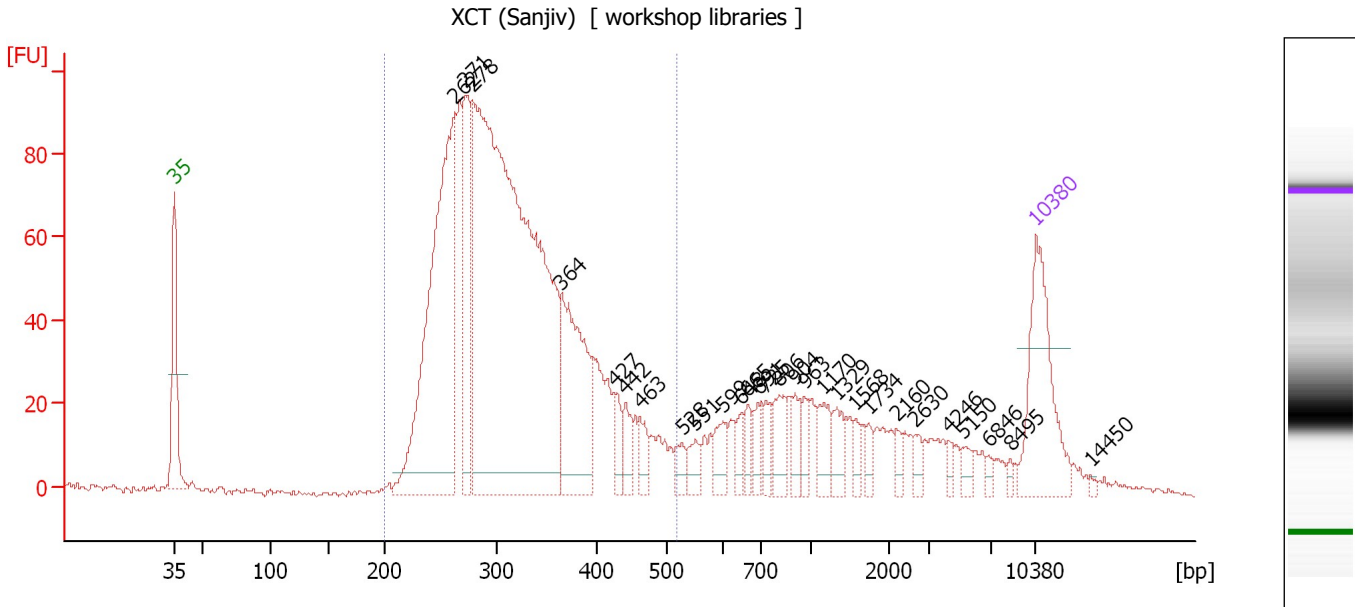
Region table for sample 2 : WT (Key)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
213	309	507	2,199.3	84	18.5	2,881.67	14,722.1	

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Electropherogram Summary Continued ...



Overall Results for sample 3 : XCT (Sanjiv)

Number of peaks found: 28 Corr. Area 1: 1,571.4
 Noise: 0.7

Peak table for sample 3 : XCT (Sanjiv)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	262	350.30	2,024.2	
3	271	100.36	560.3	
4	278	820.64	4,472.0	
5	364	138.20	574.7	
6	427	17.51	62.2	
7	442	19.36	66.3	
8	463	16.93	55.4	
9	528	11.69	33.5	
10	551	13.07	35.9	
11	599	17.90	45.2	
12	648	12.03	28.1	
13	665	12.11	27.6	
14	691	15.31	33.5	
15	725	14.75	30.8	
16	806	23.82	44.8	
17	904	16.02	26.9	
18	963	11.72	18.4	
19	1,170	20.40	26.4	
20	1,329	16.98	19.4	
21	1,568	8.47	8.2	
22	1,734	7.13	6.2	
23	2,160	6.84	4.8	
24	2,630	7.51	4.3	
25	4,246	5.11	1.8	
26	5,150	7.32	2.2	

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

... Peak table for sample 3 : XCT (Sanjiv)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	6,846	3.68	0.8	
28	8,495	3.11	0.6	
29	10,380	75.00	10.9	Upper Marker
30	14,450	0.00	0.0	

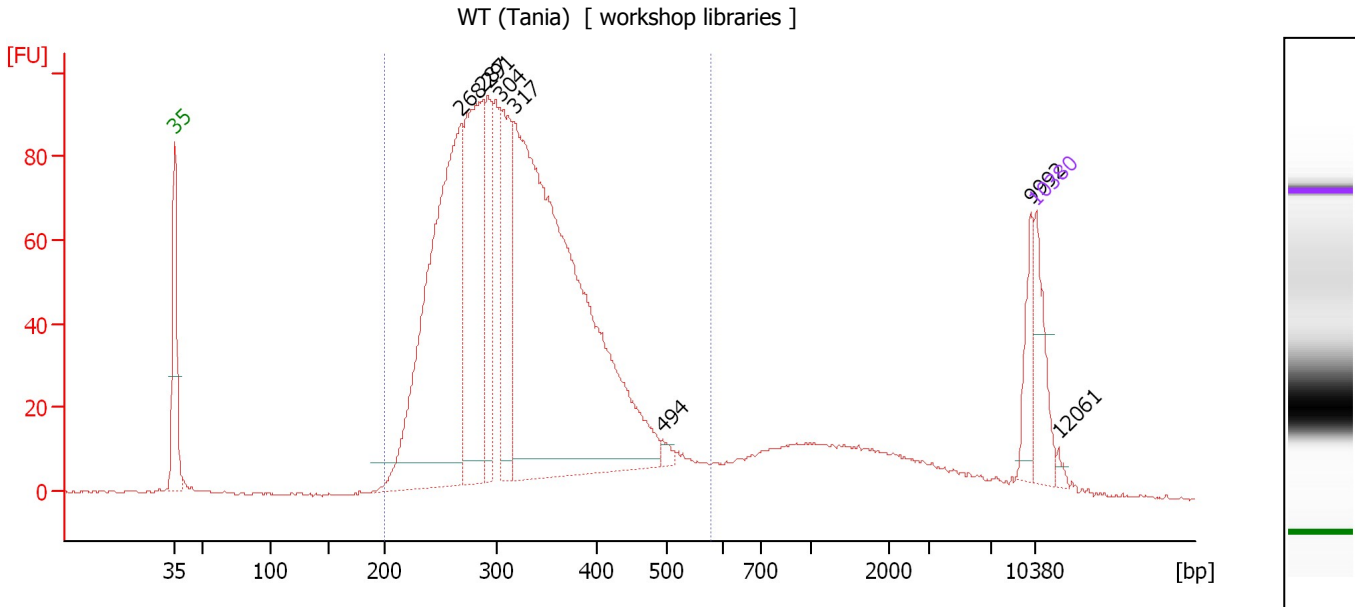
Region table for sample 3 : XCT (Sanjiv)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	318	518	1,571.4	76	19.7	1,576.30	7,879.7	

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Electropherogram Summary Continued ...



Overall Results for sample 4 : WT (Tania)

Number of peaks found: 8 Corr. Area 1: 1,870.7
 Noise: 0.3

Peak table for sample 4 : WT (Tania)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	268	925.98	5,238.5	
3	287	467.88	2,467.1	
4	291	183.63	954.6	
5	304	231.06	1,150.5	
6	317	1,498.60	7,172.8	
7	494	12.86	39.4	
8	9,992	55.65	8.4	
9	10,380	75.00	10.9	Upper Marker
10	12,061	0.00	0.0	

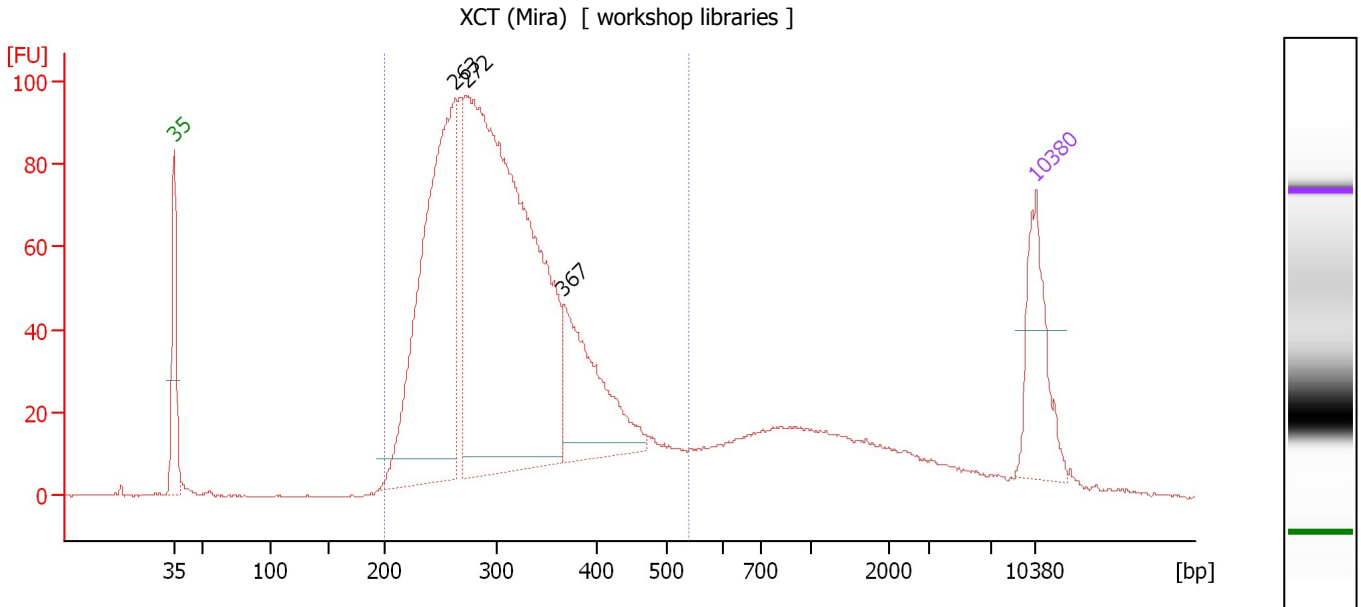
Region table for sample 4 : WT (Tania)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	326	580	1,870.7	86	21.6	3,714.57	18,306.9	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 5 : XCT (Mira)

Number of peaks found: 3 Corr. Area 1: 1,772.5
 Noise: 0.3

Peak table for sample 5 : XCT (Mira)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	263	509.83	2,941.3	
3	272	921.83	5,135.5	
4	367	168.49	696.4	
5	10,380	75.00	10.9	Upper Marker

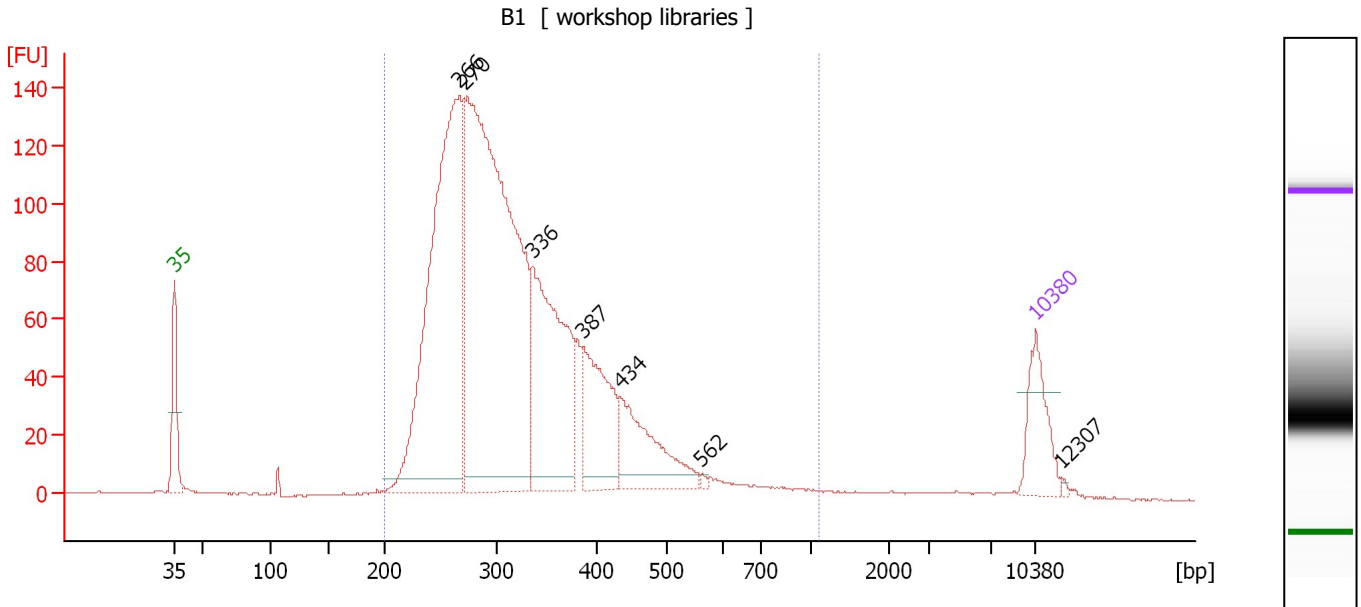
Region table for sample 5 : XCT (Mira)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	313	539	1,772.5	82	21.7	1,860.41	9,513.8	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 6 : B1

Number of peaks found: 7 Corr. Area 1: 2,303.0
 Noise: 0.1

Peak table for sample 6 : B1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	266	896.54	5,111.9	
3	270	1,285.75	7,203.7	
4	336	425.89	1,921.6	
5	387	197.81	774.8	
6	434	163.42	570.2	
7	562	3.70	10.0	
8	10,380	75.00	10.9	Upper Marker
9	12,307	0.00	0.0	

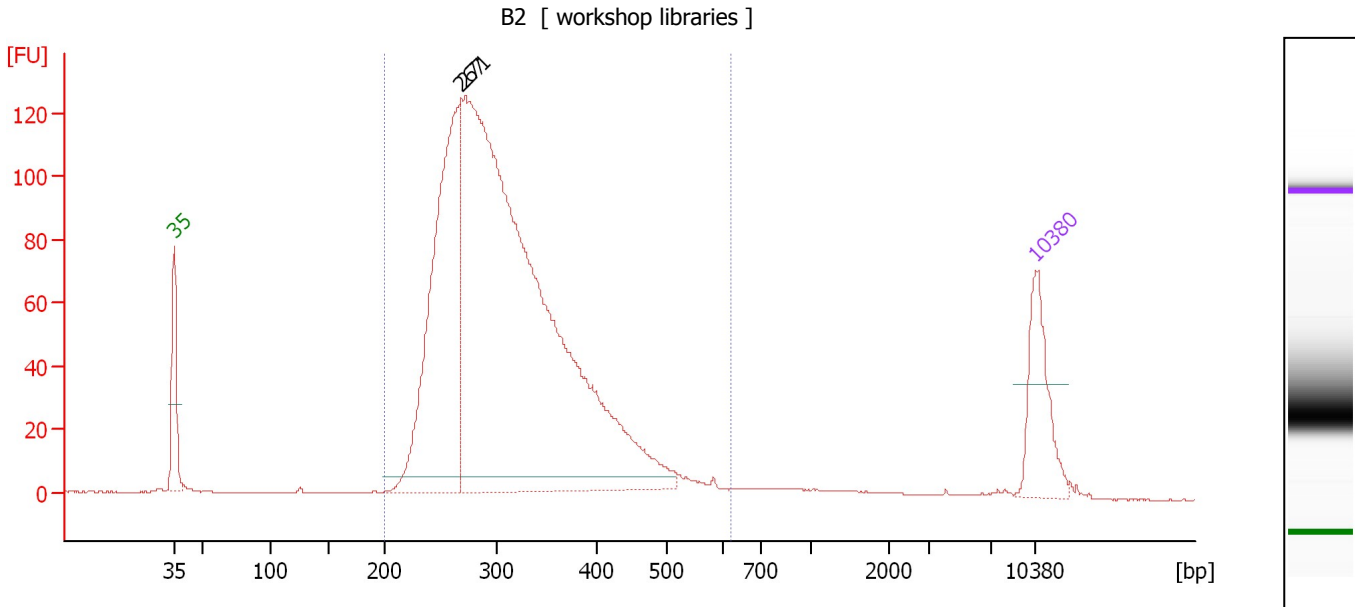
Region table for sample 6 : B1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	329	1,119	2,303.0	97	28.8	3,095.34	15,412.5	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 7 : B2

Number of peaks found: 2 Corr. Area 1: 1,906.7
 Noise: 0.2

Peak table for sample 7 : B2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	267	530.76	3,006.7	
3	271	1,500.08	8,381.9	
4	10,380	75.00	10.9	Upper Marker

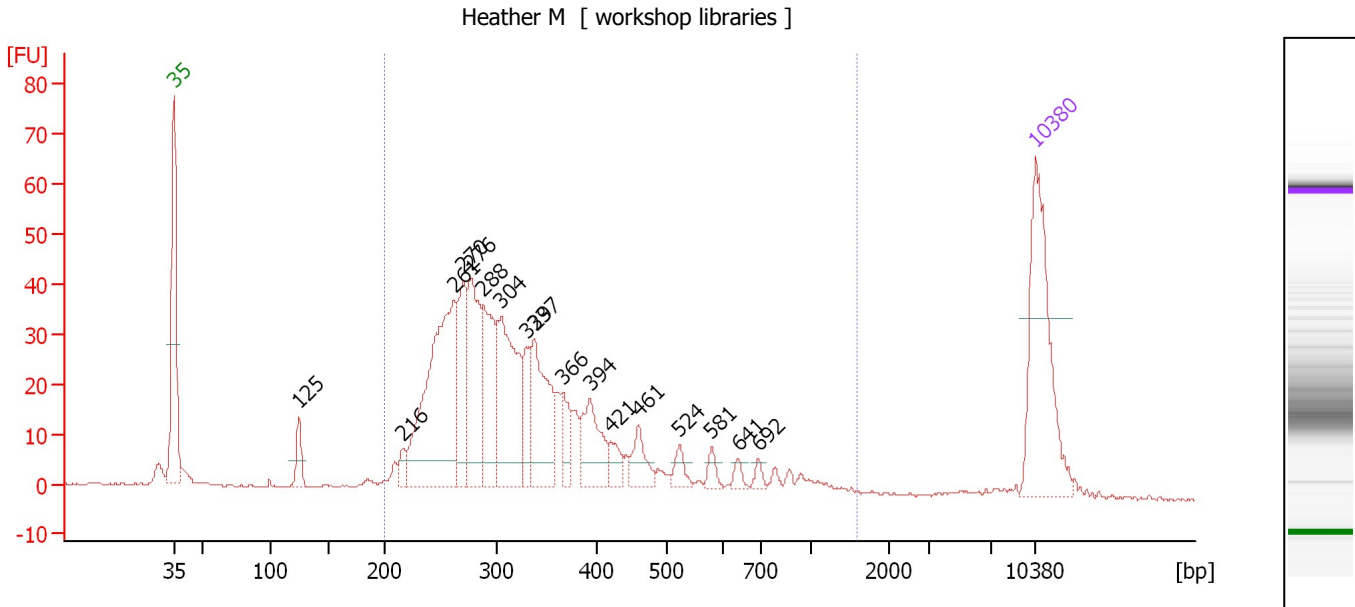
Region table for sample 7 : B2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	315	623	1,906.7	96	21.0	1,931.94	9,762.2	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 8 : Heather M

Number of peaks found: 17 Corr. Area 1: 729.8
 Noise: 0.2

Peak table for sample 8 : Heather M

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	125	16.43	199.7	
3	216	8.75	61.5	
4	261	172.02	998.2	
5	270	52.00	292.3	
6	276	75.69	414.8	
7	288	67.96	358.0	
8	304	94.44	470.7	
9	329	27.45	126.3	
10	337	69.10	310.6	
11	366	18.02	74.6	
12	394	38.72	149.0	
13	421	11.50	41.4	
14	461	17.39	57.2	
15	524	8.69	25.1	
16	581	6.14	16.0	
17	641	4.36	10.3	
18	692	3.86	8.4	
19	10,380	75.00	10.9	Upper Marker

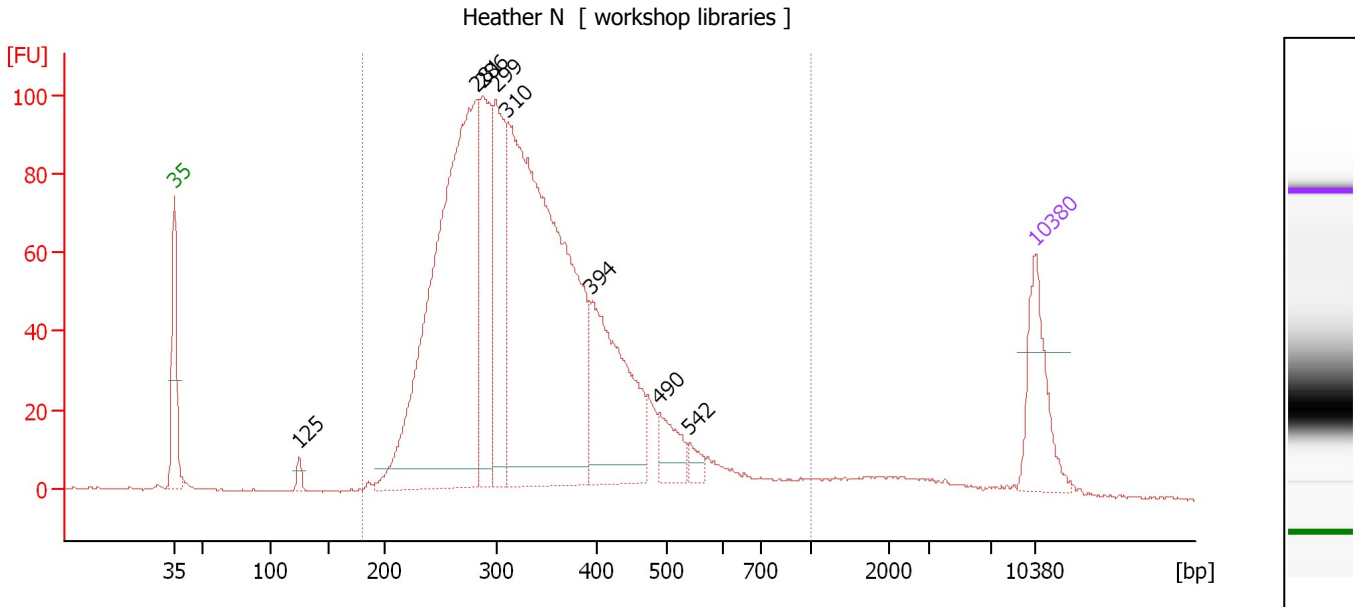
Region table for sample 8 : Heather M

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	354	1,593	729.8	93	44.1	775.20	3,800.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 9 : Heather N

Number of peaks found: 8 Corr. Area 1: 2,008.6
 Noise: 0.4

Peak table for sample 9 : Heather N

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	125	11.27	137.0	
3	281	815.08	4,396.5	
4	286	203.34	1,076.4	
5	299	191.36	969.9	
6	310	867.83	4,246.6	
7	394	237.33	912.7	
8	490	44.28	136.8	
9	542	14.41	40.3	
10	10,380	75.00	10.9	Upper Marker

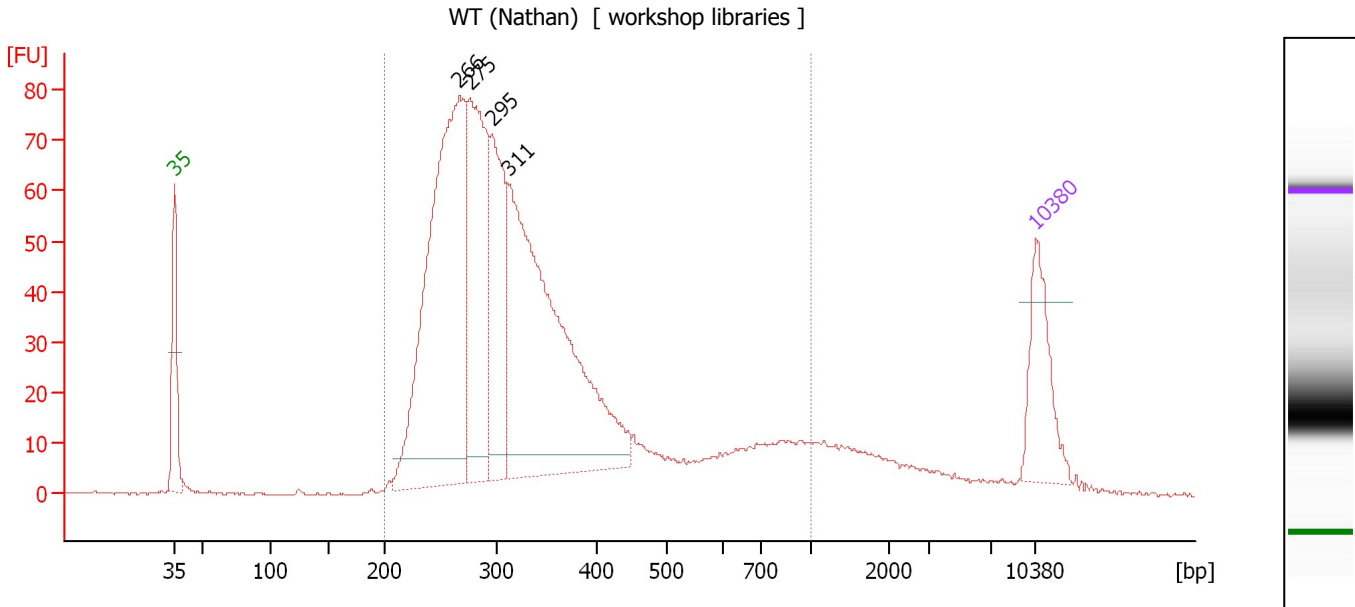
Region table for sample 9 : Heather N

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
180	342	1,000	2,008.6	96	29.3	2,515.67	12,154.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_002.xad

Created: 10/21/2014 2:50:29 PM
 Modified: 10/21/2014 4:37:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : WT (Nathan)

Number of peaks found: 4 Corr. Area 1: 1,388.3
 Noise: 0.2

Peak table for sample 10 : WT (Nathan)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	266	636.04	3,624.9	
3	275	309.59	1,702.9	
4	295	198.94	1,021.1	
5	311	604.05	2,943.8	
6	10,380	75.00	10.9	Upper Marker

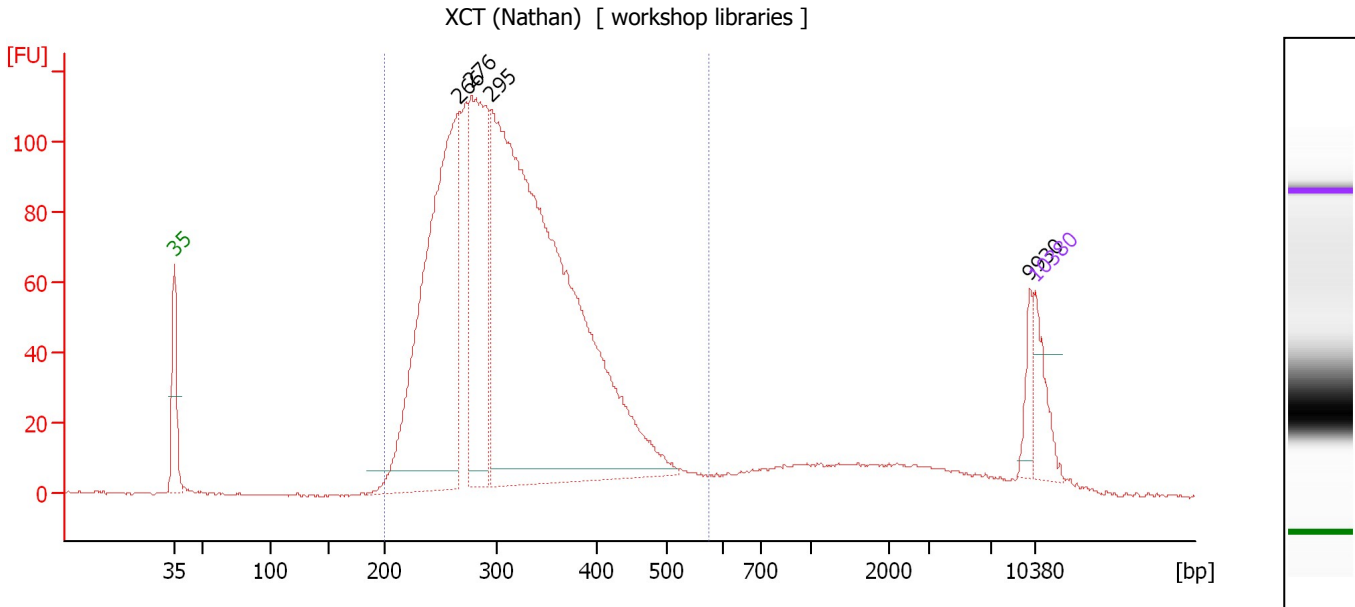
Region table for sample 10 : WT (Nathan)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	351	1,000	1,388.3	91	40.4	2,030.70	10,004.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_002.xad

Created: 10/21/2014 2:50:29 PM
 Modified: 10/21/2014 4:37:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : XCT (Nathan)

Number of peaks found: 4 Corr. Area 1: 2,092.7
 Noise: 0.3

Peak table for sample 11 : XCT (Nathan)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	266	1,183.99	6,752.5	
3	276	619.42	3,395.5	
4	295	2,369.28	12,183.9	
5	9,930	43.46	6.6	
6	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : XCT (Nathan)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	317	576	2,092.7	89	21.1	4,462.75	22,477.2	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_002.xad

Created: 10/21/2014 2:50:29 PM
Modified: 10/21/2014 4:37:02 PM

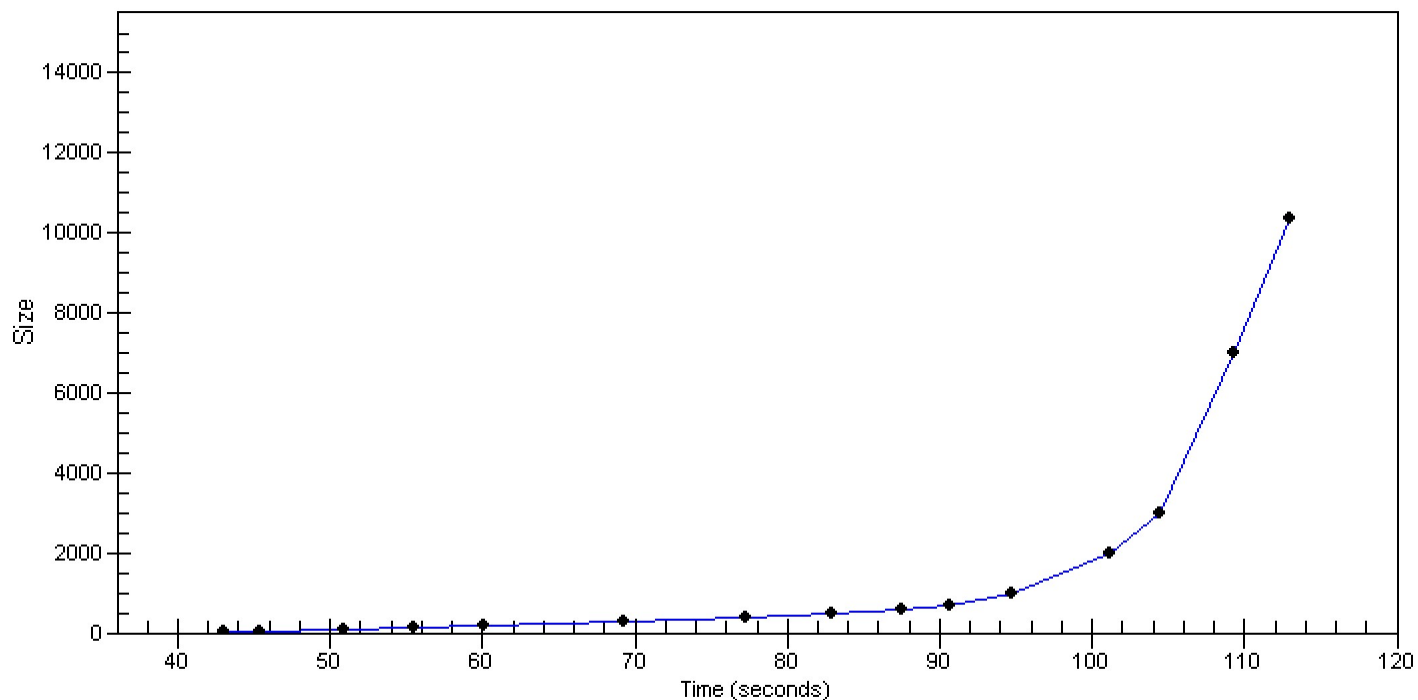
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_002.xad

Created: 10/21/2014 2:50:29 PM
Modified: 10/21/2014 4:37:02 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-21\2014-10-21_002.xad

Created: 10/21/2014 2:50:29 PM
 Modified: 10/21/2014 4:37:02 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		10/21/2014 3:31:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-21\2014-10-21_002.xad)		Instrument	Run		10/21/2014 2:50:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/21/2014 2:50:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/21/2014 2:50:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/21/2014 2:50:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/21/2014 2:50:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/21/2014 2:50:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/21/2014 2:50:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1