Assay Class:	High Sensitivity DNA Assay	Created:	7/5/2016 10:36:20 AM
Data Path:	C:\Users\Amy\Desktop\C. Nelson re-amp libraries.xad	Modified:	7/5/2016 11:41:45 AM

Electrophoresis File Run Summary

Instrument Information:

Instrument Name:	DE13804163	Firmware:	C.01.069
Serial#:	DE13804163	Type:	G2939A

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:

R020 re-amp   **R023 re-amp**   **R060 re-amp**
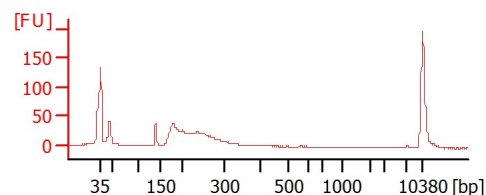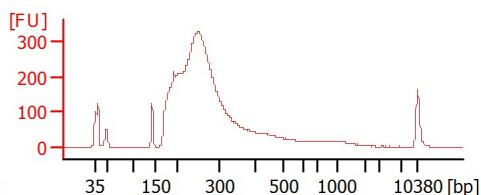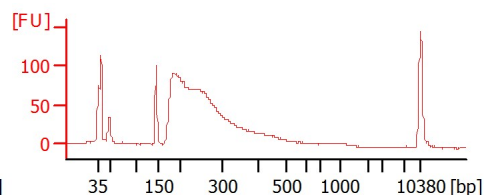
Assay Class:	High Sensitivity DNA Assay
Data Path:	C:\Users\Amy\Desktop\C. Nelson re-amp libraries.xad

Created:	7/5/2016 10:36:20 AM
Modified:	7/5/2016 11:41:45 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
R020 re-amp		☐	✔			
R023 re-amp		☐	✔			
R060 re-amp		☐	✔			
Ladder		☐	✔			

Chip Lot #   **Reagent Kit Lot #**

Chip Comments :

| Assay Class: | High Sensitivity DNA Assay | | Created: | 7/5/2016 10:36:20 AM |
| Data Path: | C:\Users\Amy\Desktop\C. Nelson re-amp libraries.xad | | Modified: | 7/5/2016 11:41:45 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　　　　　　　　　　　　　Created:　7/5/2016 10:36:20 AM
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Electropherogram Summary
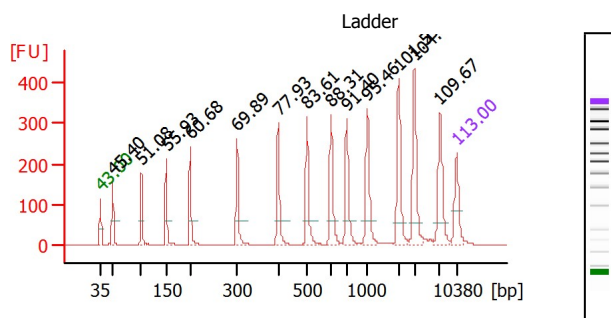
Ladder

Overall Results for Ladder

Noise:　　　　　　　　　　　　　　　0.3

Peak table for Ladder

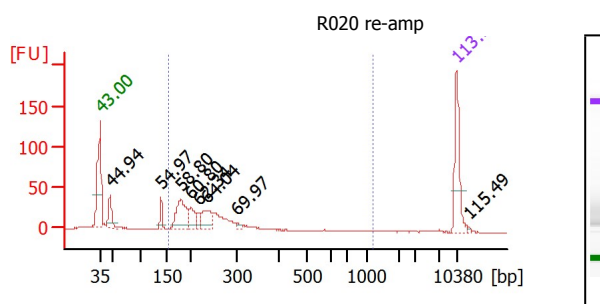| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2	L	50	150.00	4,545.5	Ladder Peak
3	L	100	150.00	2,272.7	Ladder Peak
4	L	150	150.00	1,515.2	Ladder Peak
5	L	200	150.00	1,136.4	Ladder Peak
6	L	300	150.00	757.6	Ladder Peak
7	L	400	150.00	568.2	Ladder Peak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

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
14	L	7,000	150.00	32.5	Ladder Peak
15	▶	10,380	75.00	10.9	Upper Marker

R020 re-amp

Overall Results for sample 1 :　　　R020 re-amp

Number of peaks found:　　　　　　8
Noise:　　　　　　　　　　　　　　0.4
Corr. Area 1:　　　　　　　　　　442.3

Region table for sample 1 :　　　R020 re-amp

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
156	1,200	442.3	77	229	20.7	317.35	2,199.2	▪

Electropherogram Summary Continued ...

Peak table for sample 1 :   <u>R020 re-amp</u>

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		47	59.56	1,913.8	
3		140	27.30	295.4	
4		180	115.80	973.5	
5		201	36.85	277.4	
6		218	16.76	116.5	
7		236	56.41	361.5	
8		301	7.50	37.8	
9	▶	10,380	75.00	10.9	Upper Marker
10		12,910	0.00	0.0	
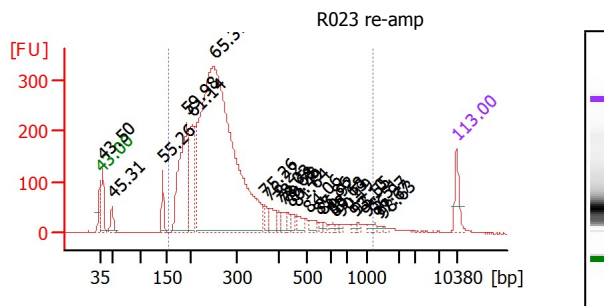
R023 re-amp

Overall Results for sample 2 :   <u>R023 re-amp</u>

Number of peaks found:	25
Noise:	0.3
Corr. Area 1:	5,751.8

Region table for sample 2 :   <u>R023 re-amp</u>

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
155	1,200	5,751.8	92	296	46.0	5,057.08	30,186.1	▬

Peak table for sample 2 :   <u>R023 re-amp</u>

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		38	170.13	6,758.4	
3		49	90.89	2,785.2	
4		143	108.58	1,149.8	
5		193	696.31	5,476.4	
6		205	341.23	2,522.5	
7		250	3,411.78	20,656.6	
8		367	37.07	153.1	
9		379	77.48	310.0	
10		402	25.66	96.8	
11		413	35.57	130.4	
12		433	24.73	86.6	
13		445	37.74	128.5	
14		465	48.81	158.9	
15		509	33.18	98.7	
16		548	15.60	43.1	
17		570	8.89	23.6	
18		612	11.31	28.0	
19		627	9.40	22.7	
20		661	8.02	18.4	
21		826	11.66	21.4	
22		859	7.96	14.0	
23		1,008	11.70	17.6	
24		1,246	6.31	7.7	
25		1,361	7.33	8.2	

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
26		1,517	5.96	5.9	
27	▶	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...
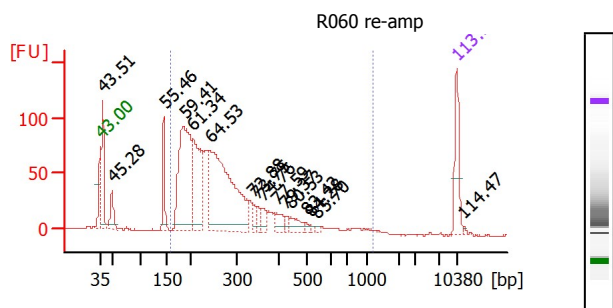
R060 re-amp

Overall Results for sample 3 :   R060 re-amp

Number of peaks found:	16
Noise:	0.4
Corr. Area 1:	1,716.0

Region table for sample 3 :   R060 re-amp

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
159	1,200	1,716.0	84	281	42.5	1,665.80	10,353.5	▪

Peak table for sample 3 :   R060 re-amp

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		38	178.89	7,102.0	
3		49	71.53	2,200.8	
4		145	97.98	1,022.9	
5		187	467.58	3,796.5	
6		207	272.74	1,995.6	
7		242	615.83	3,860.0	
8		337	26.81	120.4	
9		348	17.42	75.9	
10		361	29.42	123.6	
11		396	29.93	114.6	
12		425	12.28	43.7	
13		446	32.89	111.8	
14		497	7.07	21.6	
15		514	5.27	15.5	
16		544	5.55	15.5	
17	▶	10,380	75.00	10.9	Upper Marker
18		11,870	0.00	0.0	

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Gel Image