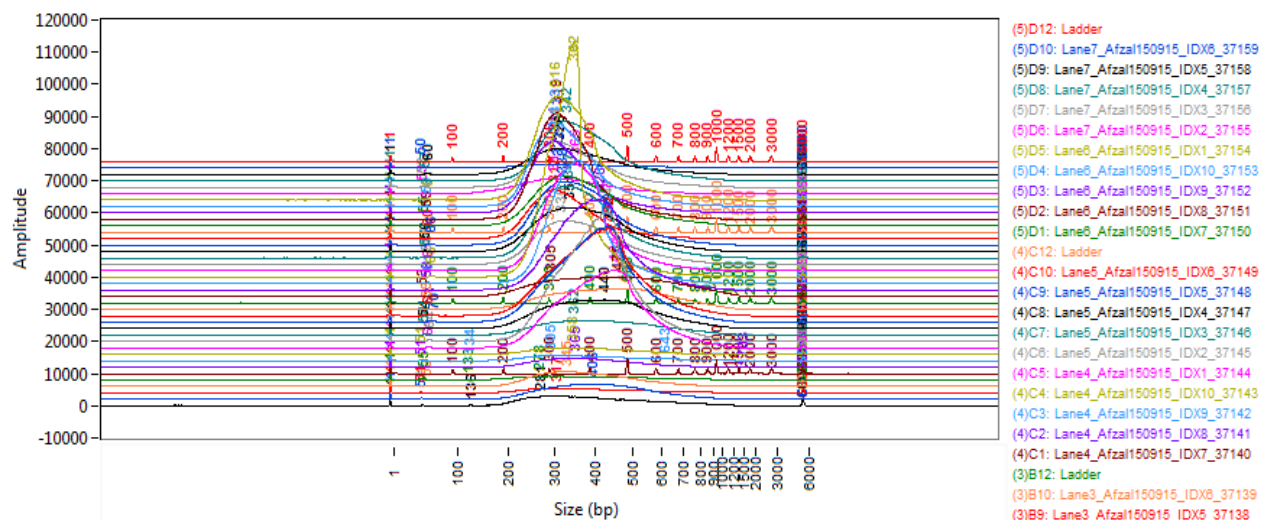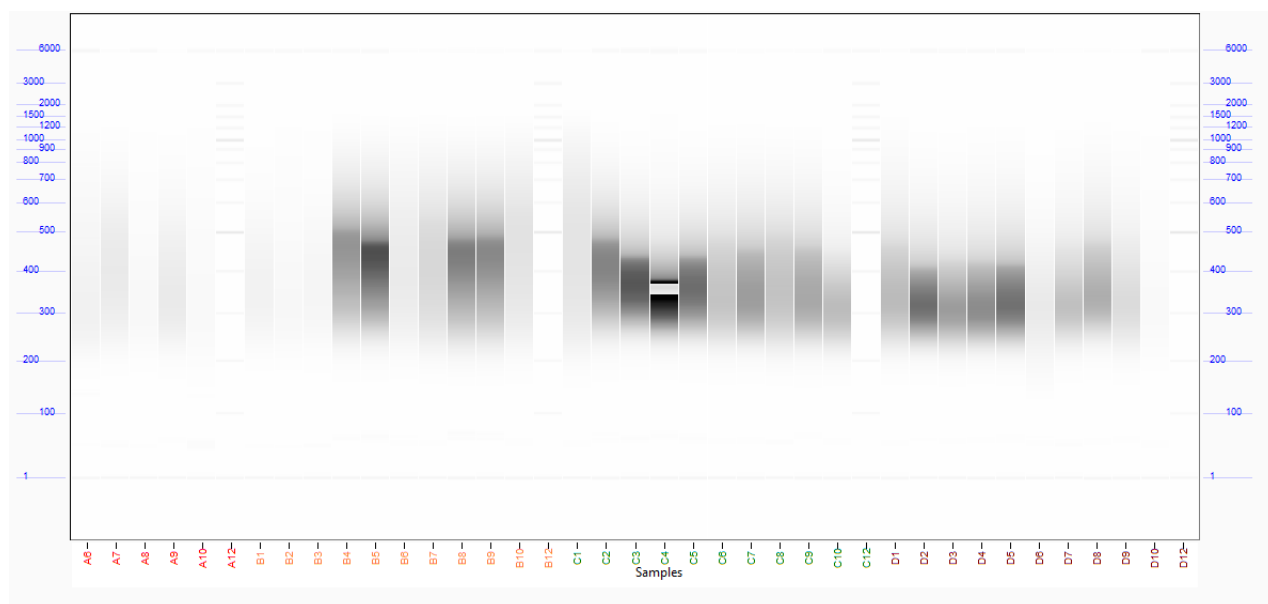# *Fragment Analyzer^{TM}* Overlay Summary:

Data Files: 2015 09 16 18H 33M.raw, 2015 09 16 15H 15M.raw, 2015 09 16 16H 21M.raw, 2015 09 16 17H 27M.raw, 2015 09 16 18H

Filename and Data Path: C:\AATI\Data\2015 09 16\18-33-48\2015 09 16 18H 33M.raw

Created: 16 September, 2015 18:49:36
# of Capillaries: 12
Array Serial #: 061113-02SFS
Effect Length: 33 cm
Array Usage Count: 1615
FA Version #: 1.0.2.9
Device Serial #: 2764

METHOD INFORMATION
Method Name: DNF-474-33 - HS NGS Fragment 1-6000bp.mthds
Gel Prime: No
Full Conditioning: Yes
Gel Prime to Bufer: No
Gel Selection: Gel 1
Perform Prerun: 6.0 kV, 30 sec.
Rinse: No
Marker 1: No
Rinse: Tray: 3, Row: A, # Dips: 1
Sample Injection: 5.0 kV, 30 sec.
Separation: 6.0 kV, 50.0 min.
Tray Name: Tray-2

Analysis Mode: NGS

NOTE

Filename and Data Path: C:\AATI\Data\2015 09 16\15-15-59\2015 09 16 15H 15M.raw

Created: 16 September, 2015 15:31:45
# of Capillaries: 12
Array Serial #: 061113-02SFS
Effect Length: 33 cm
Array Usage Count: 1612
FA Version #: 1.0.2.9
Device Serial #: 2764

METHOD INFORMATION
Method Name: DNF-474-33 - HS NGS Fragment 1-6000bp.mthds
Gel Prime: No
Full Conditioning: Yes
Gel Prime to Bufer: No
Gel Selection: Gel 1
Perform Prerun: 6.0 kV, 30 sec.
Rinse: No
Marker 1: No
Rinse: Tray: 3, Row: A, # Dips: 1
Sample Injection: 5.0 kV, 30 sec.
Separation: 6.0 kV, 50.0 min.
Tray Name: Tray-2

Analysis Mode: NGS

NOTE

Filename and Data Path: C:\AATI\Data\2015 09 16\16-21-56\2015 09 16 16H 21M.raw

Created: 16 September, 2015 16:37:42
# of Capillaries: 12
Array Serial #: 061113-02SFS
Effect Length: 33 cm
Array Usage Count: 1613
FA Version #: 1.0.2.9
Device Serial #: 2764

METHOD INFORMATION
Method Name: DNF-474-33 - HS NGS Fragment 1-6000bp.mthds
Gel Prime: No
Full Conditioning: Yes
Gel Prime to Bufer: No
Gel Selection: Gel 1
Perform Prerun: 6.0 kV, 30 sec.
Rinse: No
Marker 1: No
Rinse: Tray: 3, Row: A, # Dips: 1
Sample Injection: 5.0 kV, 30 sec.
Separation: 6.0 kV, 50.0 min.
Tray Name: Tray-2

Analysis Mode: NGS

NOTE

Filename and Data Path: C:\AATI\Data\2015 09 16\17-27-52\2015 09 16 17H 27M.raw

Created: 16 September, 2015 17:43:38
# of Capillaries: 12
Array Serial #: 061113-02SFS
Effect Length: 33 cm
Array Usage Count: 1614
FA Version #: 1.0.2.9
Device Serial #: 2764

METHOD INFORMATION
Method Name: DNF-474-33 - HS NGS Fragment 1-6000bp.mthds
Gel Prime: No
Full Conditioning: Yes
Gel Prime to Bufer: No
Gel Selection: Gel 1
Perform Prerun: 6.0 kV, 30 sec.
Rinse: No
Marker 1: No
Rinse: Tray: 3, Row: A, # Dips: 1
Sample Injection: 5.0 kV, 30 sec.
Separation: 6.0 kV, 50.0 min.
Tray Name: Tray-2

Analysis Mode: NGS

NOTE

Filename and Data Path: C:\AATI\Data\2015 09 16\18-33-48\2015 09 16 18H 33M.raw

Created: 16 September, 2015 18:49:36
# of Capillaries: 12
Array Serial #: 061113-02SFS
Effect Length: 33 cm
Array Usage Count: 1615
FA Version #: 1.0.2.9
Device Serial #: 2764

METHOD INFORMATION
Method Name: DNF-474-33 - HS NGS Fragment 1-6000bp.mthds
Gel Prime: No
Full Conditioning: Yes
Gel Prime to Bufer: No
Gel Selection: Gel 1
Perform Prerun: 6.0 kV, 30 sec.
Rinse: No
Marker 1: No
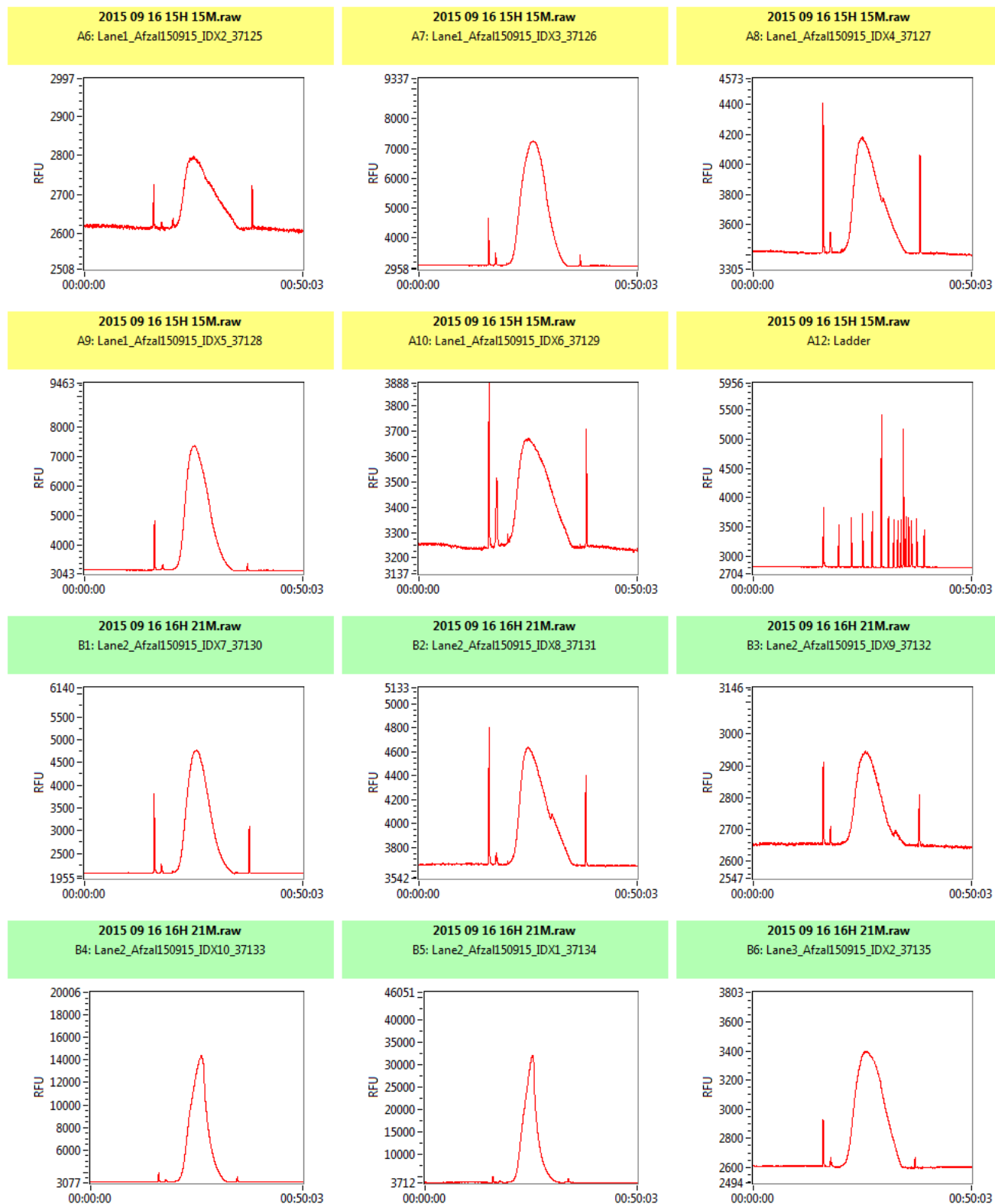**Rinse:** Tray: 3, Row: A, # Dips: 1
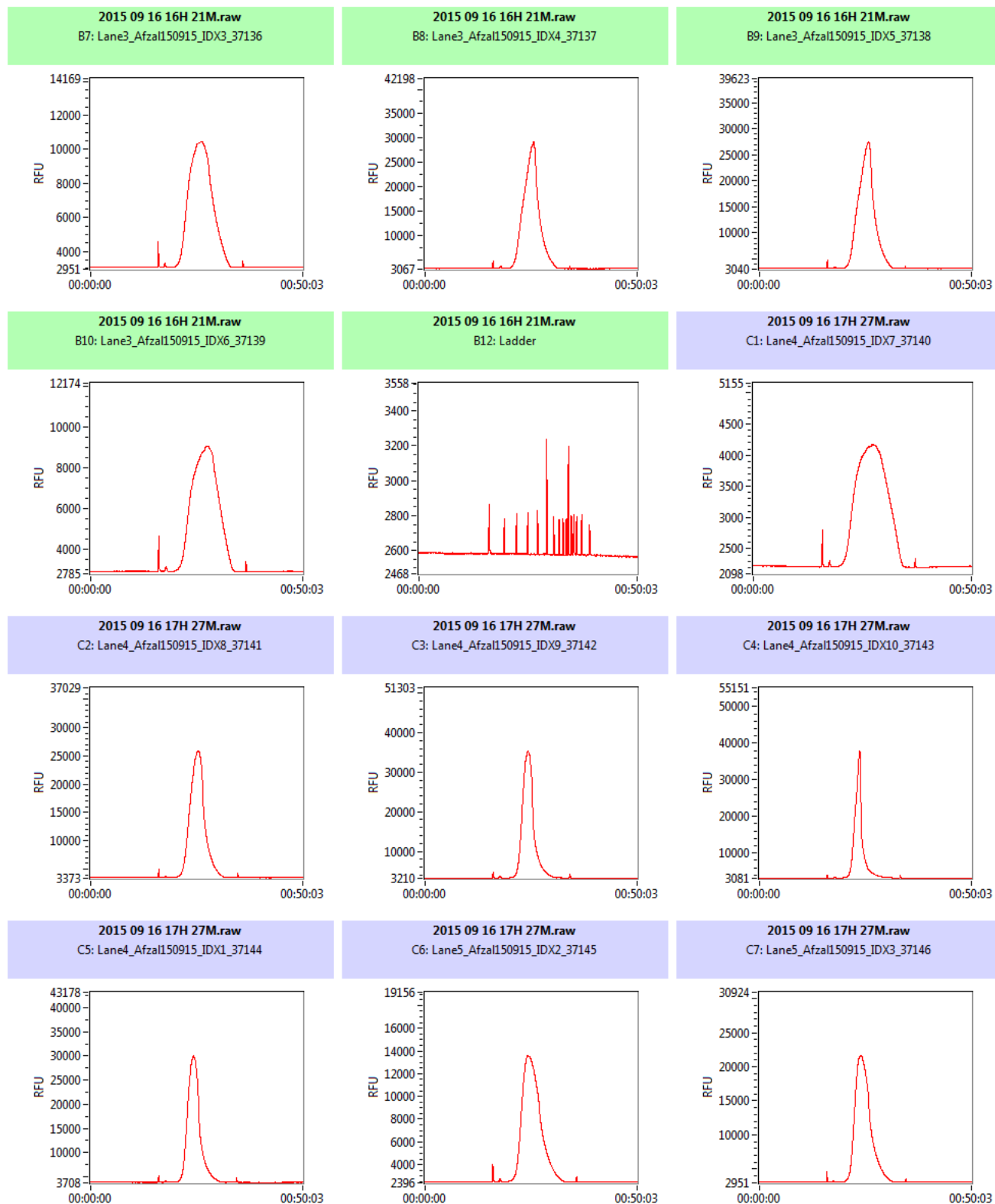**Sample Injection:** 5.0 kV, 30 sec.
Separation: 6.0 kV, 50.0 min.
Tray Name: Tray-2

Analysis Mode: NGS

NOTE

2015 09 16 15H 15M.raw
A6: Lane1_Afzal150915_IDX2_37125

2015 09 16 15H 15M.raw
A7: Lane1_Afzal150915_IDX3_37126

2015 09 16 15H 15M.raw
A8: Lane1_Afzal150915_IDX4_37127

2015 09 16 15H 15M.raw
A9: Lane1_Afzal150915_IDX5_37128

2015 09 16 15H 15M.raw
A10: Lane1_Afzal150915_IDX6_37129

2015 09 16 15H 15M.raw
A12: Ladder

2015 09 16 16H 21M.raw
B1: Lane2_Afzal150915_IDX7_37130

2015 09 16 16H 21M.raw
B2: Lane2_Afzal150915_IDX8_37131

2015 09 16 16H 21M.raw
B3: Lane2_Afzal150915_IDX9_37132

2015 09 16 16H 21M.raw
B4: Lane2_Afzal150915_IDX10_37133

2015 09 16 16H 21M.raw
B5: Lane2_Afzal150915_IDX1_37134

2015 09 16 16H 21M.raw
B6: Lane3_Afzal150915_IDX2_37135

2015 09 16 16H 21M.raw
B7: Lane3_Afzal150915_IDX3_37136

2015 09 16 16H 21M.raw
B8: Lane3_Afzal150915_IDX4_37137

2015 09 16 16H 21M.raw
B9: Lane3_Afzal150915_IDX5_37138

2015 09 16 16H 21M.raw
B10: Lane3_Afzal150915_IDX6_37139

2015 09 16 16H 21M.raw
B12: Ladder

2015 09 16 17H 27M.raw
C1: Lane4_Afzal150915_IDX7_37140

2015 09 16 17H 27M.raw
C2: Lane4_Afzal150915_IDX8_37141

2015 09 16 17H 27M.raw
C3: Lane4_Afzal150915_IDX9_37142

2015 09 16 17H 27M.raw
C4: Lane4_Afzal150915_IDX10_37143

2015 09 16 17H 27M.raw
C5: Lane4_Afzal150915_IDX1_37144

2015 09 16 17H 27M.raw
C6: Lane5_Afzal150915_IDX2_37145

2015 09 16 17H 27M.raw
C7: Lane5_Afzal150915_IDX3_37146

2015 09 16 17H 27M.raw
C8: Lane5_Afzal150915_IDX4_37147

2015 09 16 17H 27M.raw
C9: Lane5_Afzal150915_IDX5_37148

2015 09 16 17H 27M.raw
C10: Lane5_Afzal150915_IDX6_37149

**2015 09 16 17H 27M.raw**
C12: Ladder

2015 09 16 18H 33M.raw
D1: Lane6_Afzal150915_IDX7_37150

2015 09 16 18H 33M.raw
D2: Lane6_Afzal150915_IDX8_37151

2015 09 16 18H 33M.raw
D3: Lane6_Afzal150915_IDX9_37152

2015 09 16 18H 33M.raw
D4: Lane6_Afzal150915_IDX10_37153

2015 09 16 18H 33M.raw
D5: Lane6_Afzal150915_IDX1_37154

2015 09 16 18H 33M.raw
D6: Lane7_Afzal150915_IDX2_37155

2015 09 16 18H 33M.raw
D7: Lane7_Afzal150915_IDX3_37156

2015 09 16 18H 33M.raw
D8: Lane7_Afzal150915_IDX4_37157

2015 09 16 18H 33M.raw
D9: Lane7_Afzal150915_IDX5_37158
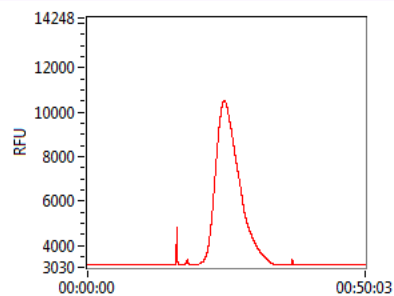
2015 09 16 18H 33M.raw
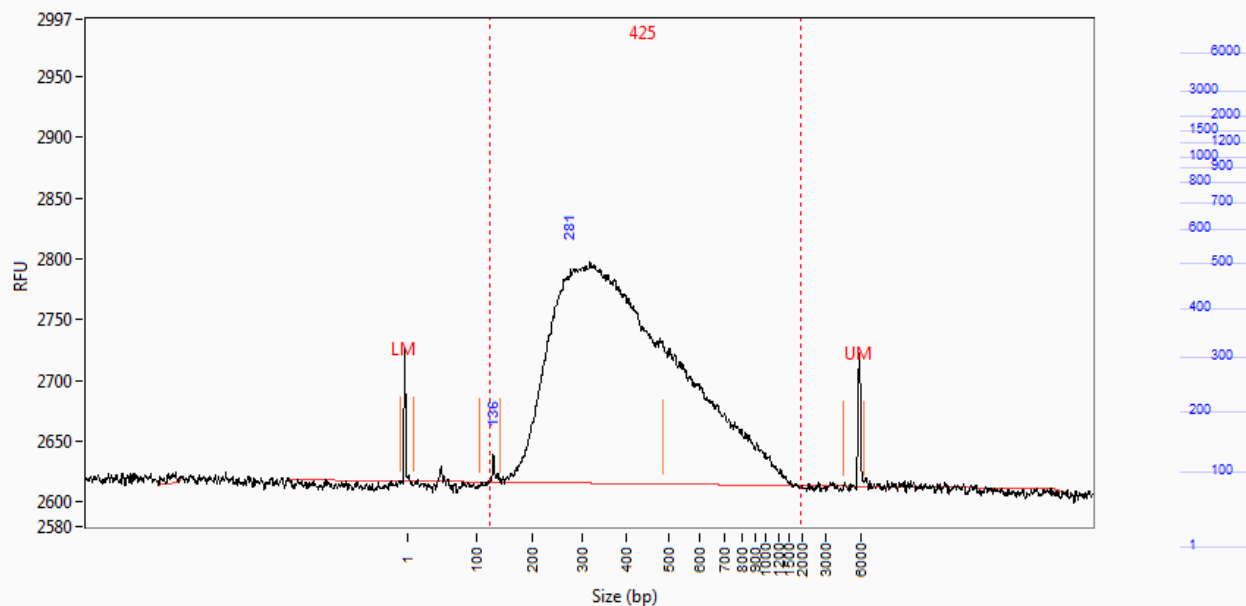D10: Lane7_Afzal150915_IDX6_37159
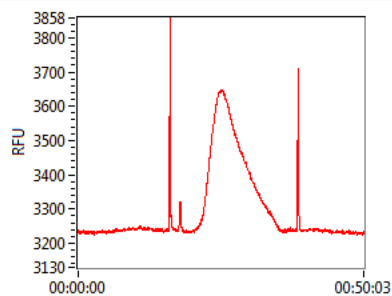
2015 09 16 18H 33M.raw
D12: Ladder
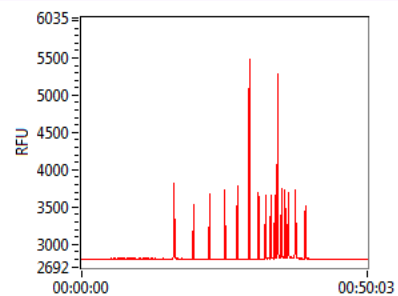
Data File: 2015 09 16 15H 15M.raw
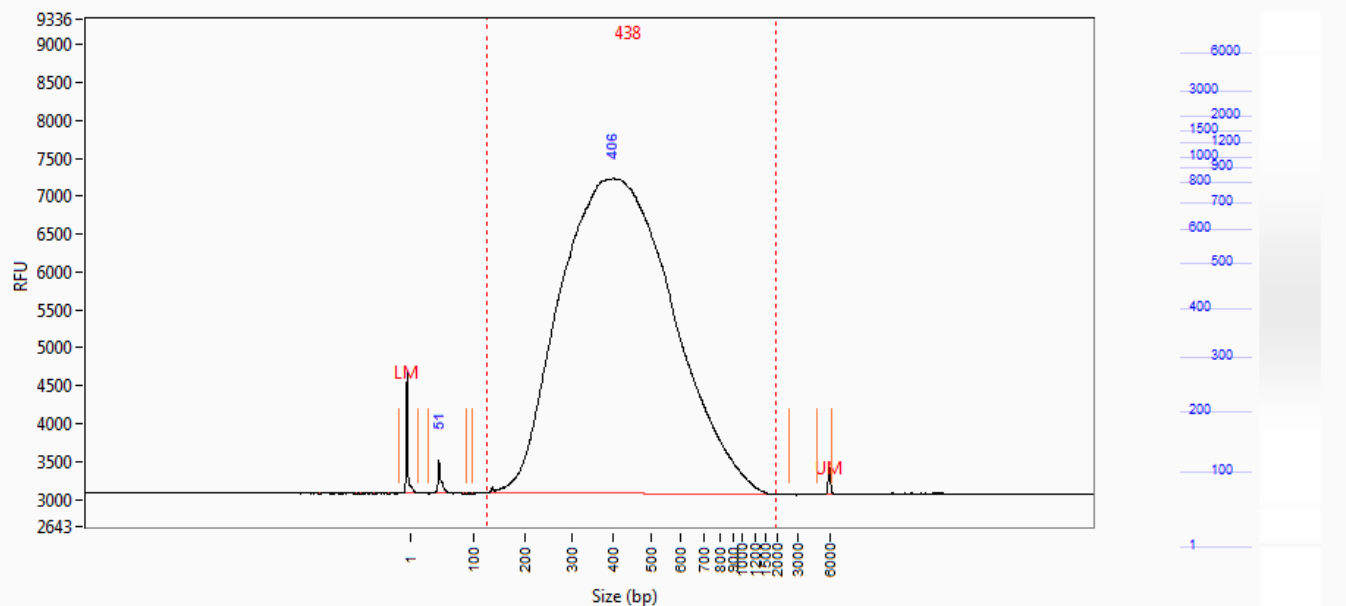**Sample:** Lane1_Afzal150915_IDX2_37125
Well Location: A6

Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.553	0	14	1	201.16	109	0.599
2	136	0.454	113	149	137	3.10	23	0.181
3	281	47.143	149	501	343	23.43	182	38.807
4	6000 (UM)	0.002	5038	6870	6015	2.81	109	0.427

TIC:	8.1015	ng/uL
TIM:	47.597	nmole/L
Total Conc.:	10.3923	ng/uL

Smear Analysis	130 bp to 2000 bp	10.360 ng/ul	99.7 %Total	40.0844 nmole/L	425 Avg. Size (b.p.)	42.13 %CV

Data File: 2015 09 16 15H 15M.raw
Sample: Lane1_Afzal150915_IDX3_37126
Well Location: A7

Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.553	0	20	2	171.95	1595	9.852
2	51	1.730	35	94	53	7.82	429	4.302
3	406	52.930	104	2855	439	33.69	4164	1033.140
4	6000 (UM)	0.000	5321	6618	5968	1.65	350	1.272

TIC:	13.1063	ng/uL
TIM:	54.660	nmole/L
Total Conc.:	13.1072	ng/uL

Smear Analysis	130 bp to 2000 bp	13.042 ng/ul	99.5 %Total	48.9904 nmole/L	438 Avg. Size (b.p.)	33.64 %CV

Sample Peak Width (sec): 50   Sample Min Peak Height: 25   Sample Baseline V to V?: Y   Sample Baseline V to V pts: 3
Sample Filter: Binomial   # of Pts for Filter: 3   Sample Start Region (min): 0 Sample End Region (min): 50
Manual Baseline Start (min): 10   Manual Baseline End (min): 48
Marker Peak Width (sec): 5   Marker Min Peak Height: 200   Marker Baseline V to V?: Y   Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 200 RFU   Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder   Final Concentration (ng/uL): 0.0830   Dilution Factor: 12.0

Data File: 2015 09 16 15H 15M.raw
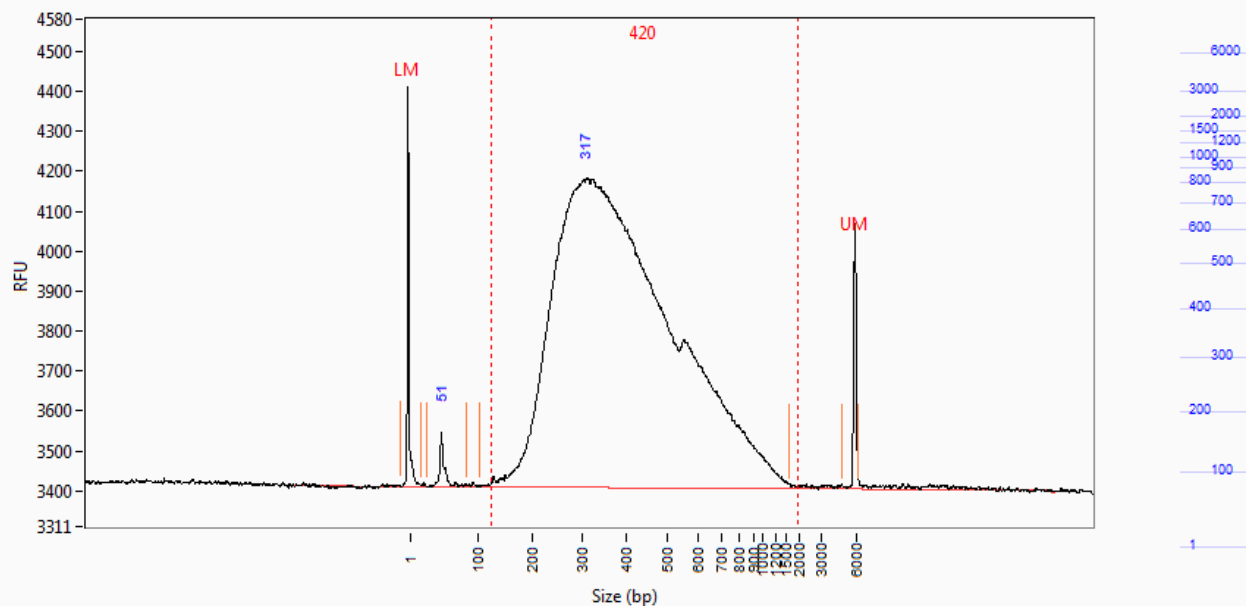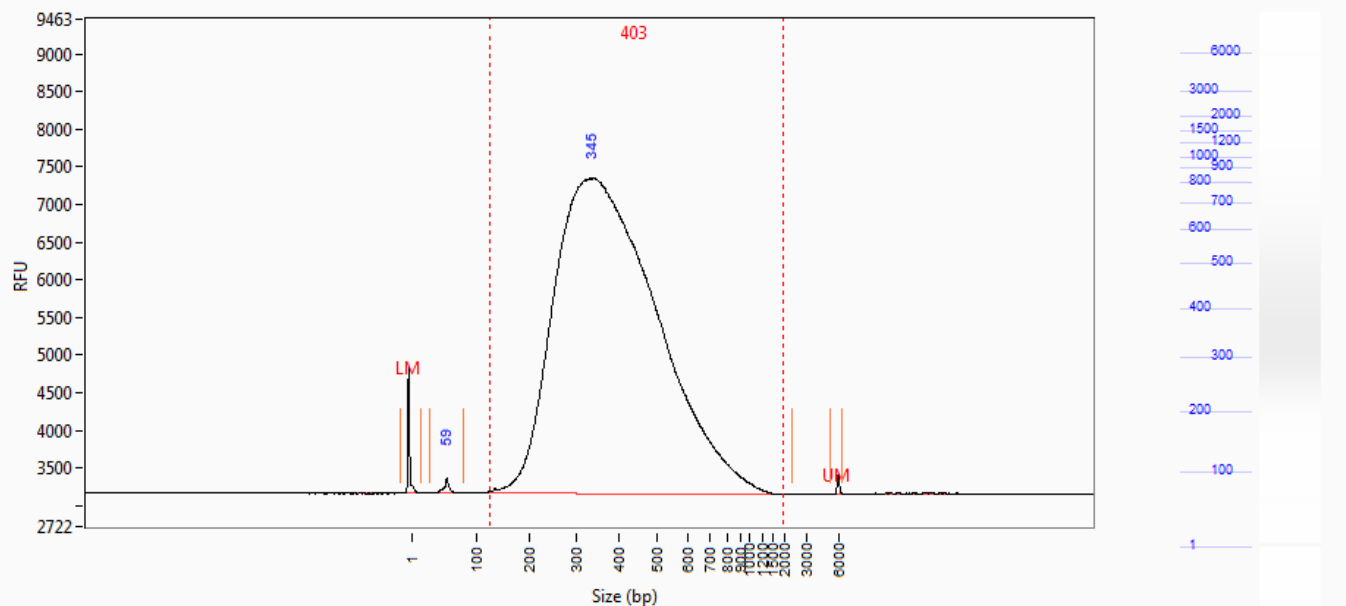**Sample:** Lane1_Afzal150915_IDX4_37127
Well Location: A8

Peak	Size	Molarity	From	To	Avg. Size	CV%	RFU	Corr. Peak Area
	(bp)	(nmole/L)	(bp)	(bp)	(bp)			
1	1 (LM)	13.553	0	20	2	168.99	999	6.356
2	51	1.182	29	87	54	16.45	136	1.863
3	317	20.365	109	1829	420	41.47	774	200.101
4	6000 (UM)	0.001	5321	6730	5995	2.30	662	2.591

TIC:	3.9548	ng/uL
TIM:	21.547	nmole/L
Total Conc.:	3.9676	ng/uL

Smear Analysis	130 bp to 2000 bp	3.915 ng/ul	98.7 %Total	15.3484 nmole/L	420 Avg. Size (b.p.)	41.73 %CV

Data File: 2015 09 16 15H 15M.raw
Sample: Lane1_Afzal150915_IDX5_37128
Well Location: A9

Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.553	0	20	2	178.34	1662	10.407
2	59	1.113	34	87	58	12.61	195	3.378
3	345	55.074	87	2624	403	33.42	4196	966.631
4	6000 (UM)	0.000	5689	6786	5990	1.62	247	0.890

TIC:	11.6009	ng/uL
TIM:	56.187	nmole/L
Total Conc.:	11.6024	ng/uL

Smear Analysis	130 bp to 2000 bp	11.549 ng/ul	99.5 %Total	47.1721 nmole/L	403 Avg. Size (b.p.)	33.34 %CV

Sample Peak Width (sec): 50   Sample Min Peak Height: 25   Sample Baseline V to V?: Y   Sample Baseline V to V pts: 3
Sample Filter: Binomial   # of Pts for Filter: 3   Sample Start Region (min): 0 Sample End Region (min): 50
Manual Baseline Start (min): 10   Manual Baseline End (min): 48
Marker Peak Width (sec): 5   Marker Min Peak Height: 200   Marker Baseline V to V?: Y   Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 200 RFU   Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder   Final Concentration (ng/uL): 0.0830   Dilution Factor: 12.0

Data File: 2015 09 16 15H 15M.raw
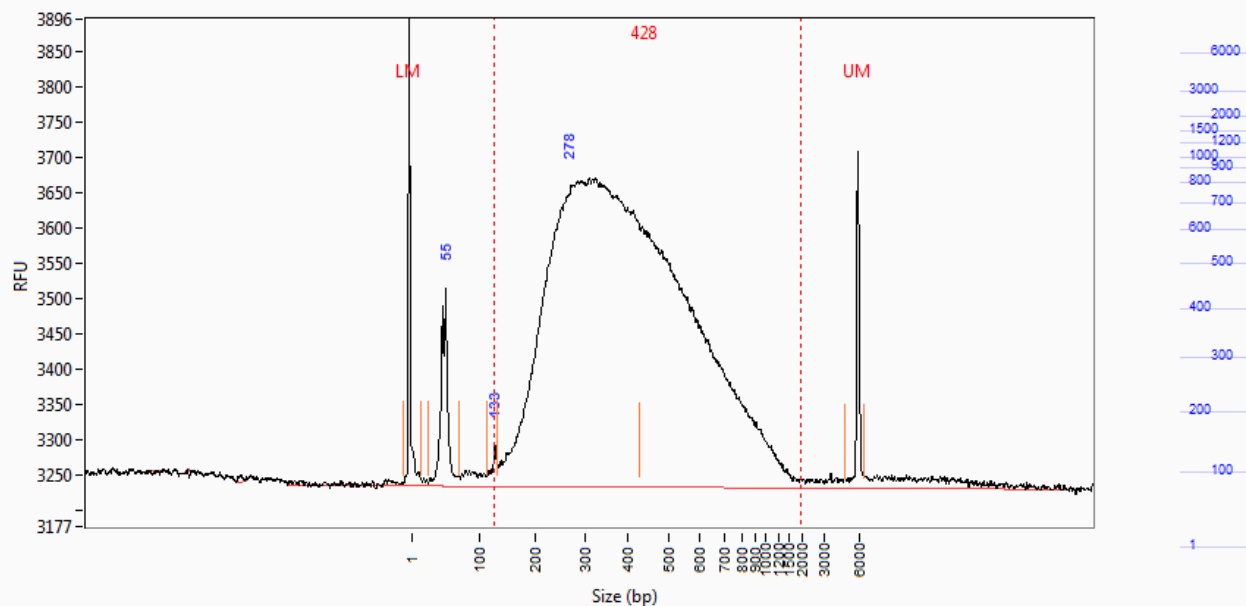**Sample:** Lane1_Afzal150915_IDX6_37129
Well Location: A10

Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.553	0	20	2	204.49	697	4.857
2	55	4.559	29	76	52	12.97	281	5.947
3	133	0.255	120	139	131	3.88	58	0.805
4	278	13.409	139	437	312	22.63	438	88.479
5	6000 (UM)	0.001	5293	7011	6018	3.94	476	2.075

TIC:	2.4405	ng/uL
TIM:	18.223	nmole/L
Total Conc.:	3.6968	ng/uL

Smear Analysis	130 bp to 2000 bp	3.482 ng/ul	94.2 %Total	13.3829 nmole/L	428 Avg. Size (b.p.)	45.85 %CV

```
Sample Peak Width (sec): 50    Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial        # of Pts for Filter: 3        Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10    Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 200    Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 200 RFU           Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder        Final Concentration (ng/uL): 0.0830        Dilution Factor: 12.0
```

Data File: 2015 09 16 15H 15M.raw
Sample: Ladder
Well Location: A12
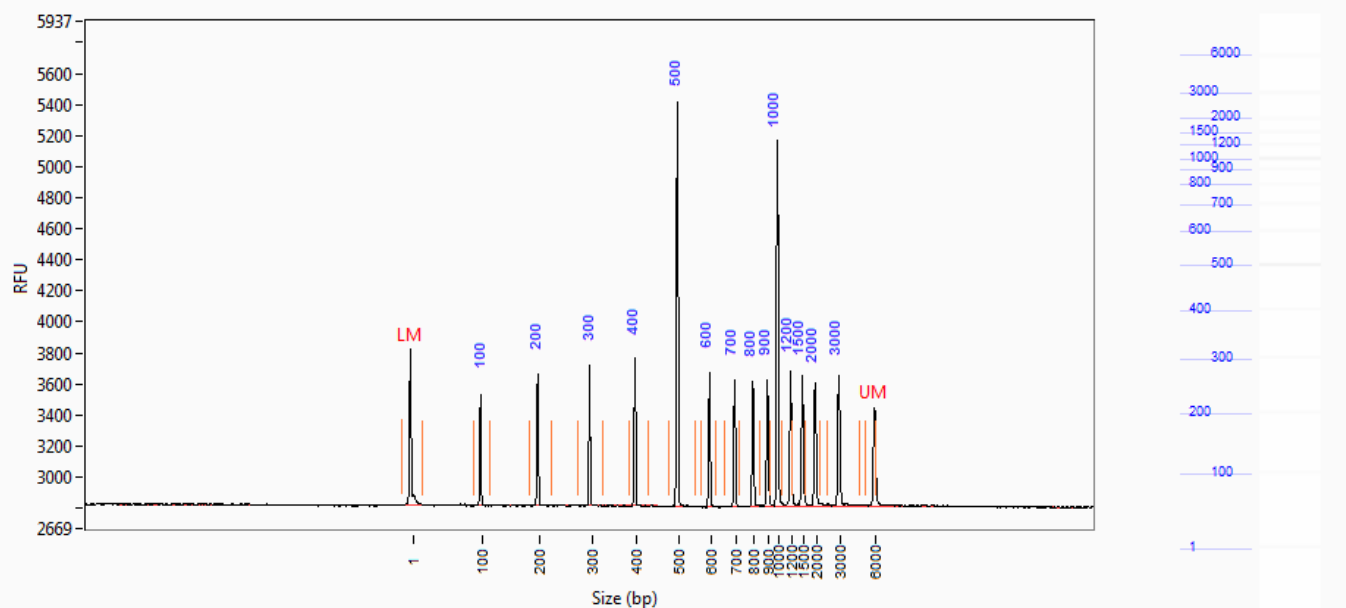
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.553	0	18	2	200.84	1008	6.321
2	100	0.933	92	119	100	1.15	715	2.885
3	200	0.491	188	231	200	0.90	845	3.030
4	300	0.330	281	334	300	0.66	905	3.055
5	400	0.253	392	440	400	0.56	947	3.127
6	500	0.535	487	564	499	0.44	2598	8.257
7	600	0.146	582	638	599	0.42	858	2.702
8	700	0.117	672	743	699	0.50	810	2.533
9	800	0.105	743	869	798	0.81	801	2.584
10	900	0.095	869	966	899	0.84	812	2.625
11	1000	0.249	966	1129	997	1.35	2355	7.691
12	1200	0.079	1129	1319	1193	1.54	865	2.920
13	1500	0.064	1319	1790	1497	3.00	846	2.977
14	2000	0.046	1790	2406	1990	3.50	793	2.826
15	3000	0.034	2696	5180	3082	11.17	839	3.104
16	6000 (UM)	0.001	5660	6505	5984	1.84	635	2.381

TIC:	0.9908	ng/uL
TIM:	3.476	nmole/L
Total Conc.:	0.9960	ng/uL

```
Sample Peak Width (sec): 50    Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial        # of Pts for Filter: 3        Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10    Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 200   Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 200 RFU              Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder        Final Concentration (ng/uL): 0.0830        Dilution Factor: 12.0
```

Data File: 2015 09 16 16H 21M.raw
Sample: Lane2_Afzal150915_IDX7_37130
Well Location: B1
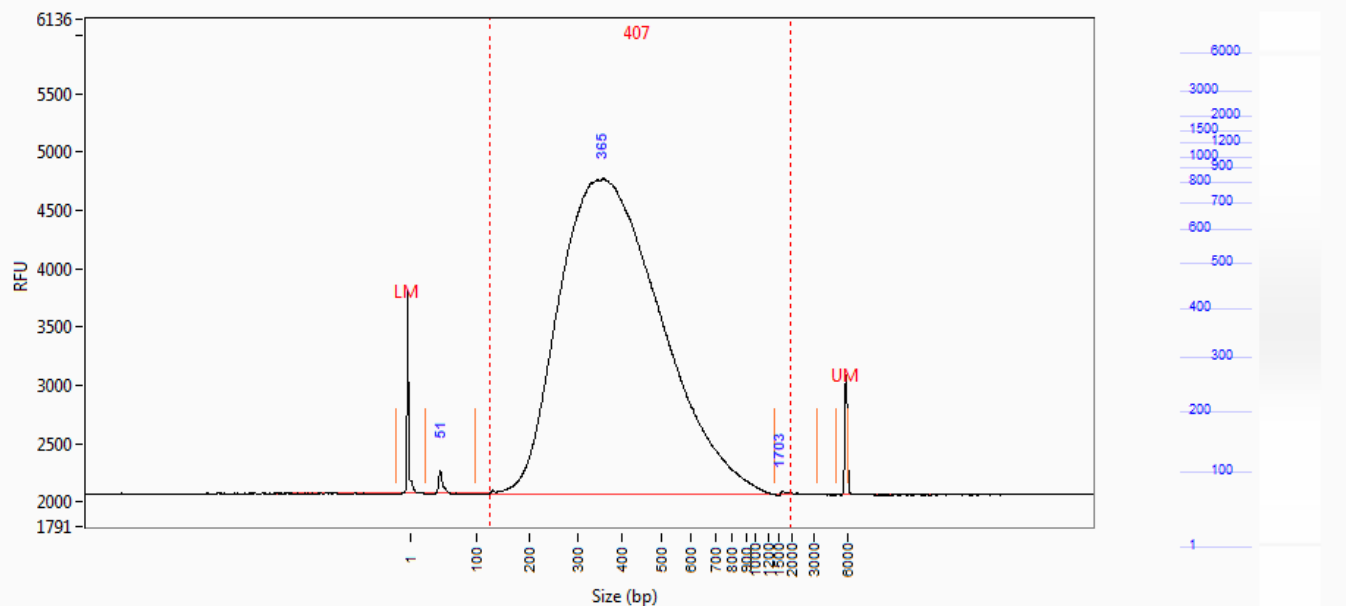
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.700	0	29	2	171.26	1732	10.663
2	51	0.861	29	105	51	7.00	197	2.427
3	365	29.992	105	1528	403	31.23	2705	607.553
4	1703	0.002	1528	3772	1864	11.29	19	0.221
5	6000 (UM)	0.001	5572	6624	5973	1.75	1022	4.064

TIC:	6.6746	ng/uL
TIM:	30.855	nmole/L
Total Conc.:	6.6746	ng/uL

Smear Analysis	130 bp to 2000 bp	6.644 ng/ul	99.5 %Total	26.8505 nmole/L	407 Avg. Size (b.p.)	31.83 %CV

Sample Peak Width (sec): 50   Sample Min Peak Height: 25   Sample Baseline V to V?: Y   Sample Baseline V to V pts: 3
Sample Filter: Binomial   # of Pts for Filter: 3   Sample Start Region (min): 0   Sample End Region (min): 50
Manual Baseline Start (min): 10   Manual Baseline End (min): 48
Marker Peak Width (sec): 5   Marker Min Peak Height: 200   Marker Baseline V to V?: Y   Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 200 RFU   Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder   Final Concentration (ng/uL): 0.0830   Dilution Factor: 12.0

Data File: 2015 09 16 16H 21M.raw
**Sample:** Lane2_Afzal150915_IDX8_37131
Well Location: B2
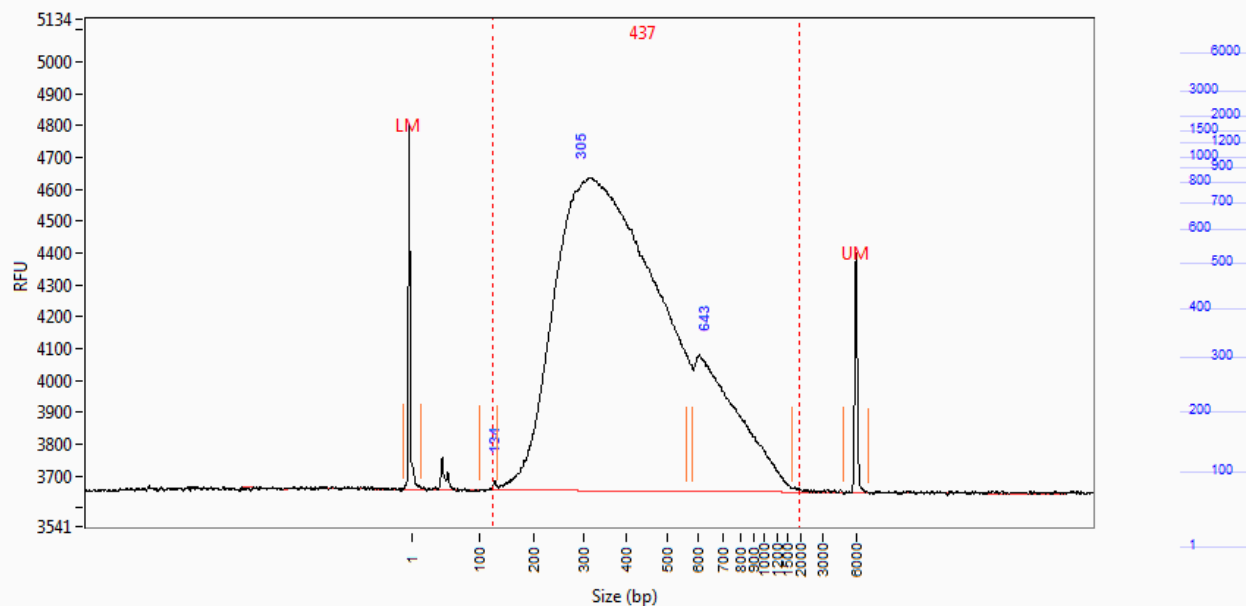
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.700	0	20	1	220.39	1141	7.214
2	134	0.052	107	140	133	3.66	29	0.259
3	305	19.181	140	577	367	25.70	982	220.283
4	643	1.374	597	1906	770	22.96	428	33.216
5	6000 (UM)	0.001	5257	7559	5979	2.37	754	3.094

TIC:	4.1028	ng/uL
TIM:	20.607	nmole/L
Total Conc.:	4.1943	ng/uL

Smear Analysis	130 bp to 2000 bp	4.164 ng/ul	99.3 %Total	15.6905 nmole/L	437 Avg. Size (b.p.)	42.84 %CV

Sample Peak Width (sec): 50   Sample Min Peak Height: 25   Sample Baseline V to V?: Y   Sample Baseline V to V pts: 3
Sample Filter: Binomial   # of Pts for Filter: 3   Sample Start Region (min): 0 Sample End Region (min): 50
Manual Baseline Start (min): 10   Manual Baseline End (min): 48
Marker Peak Width (sec): 5   Marker Min Peak Height: 200   Marker Baseline V to V?: Y   Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 200 RFU   Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder   Final Concentration (ng/uL): 0.0830   Dilution Factor: 12.0

Data File: 2015 09 16 16H 21M.raw
**Sample:** Lane2_Afzal150915_IDX9_37132
Well Location: B3
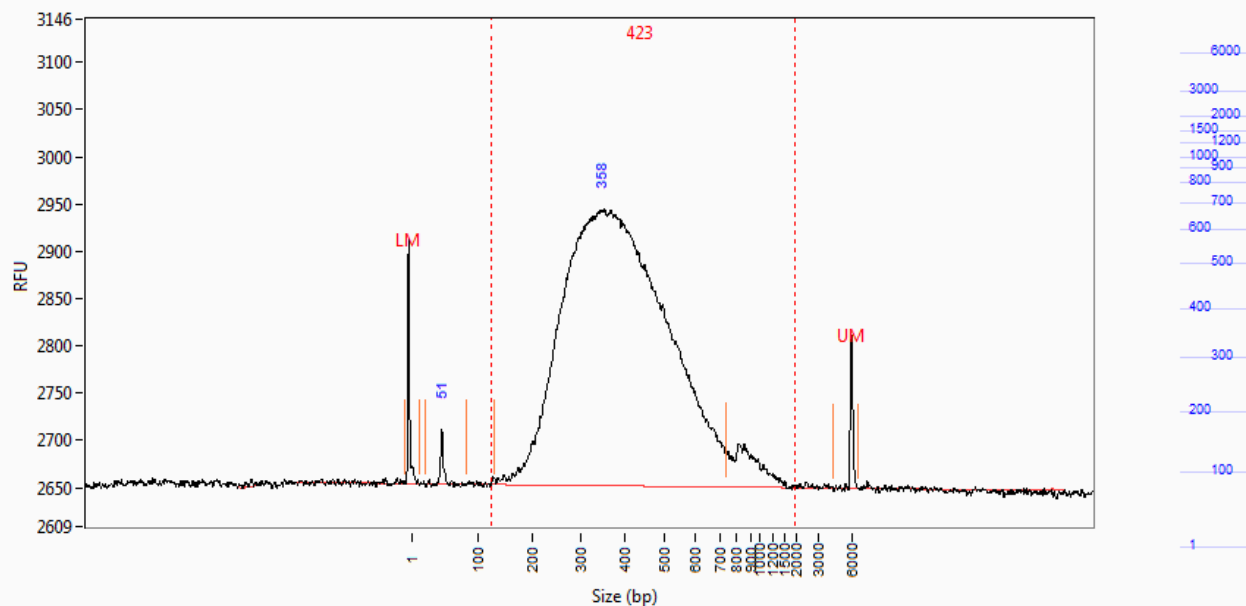
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.700	0	18	2	169.79	258	1.623
2	1	12.700	0	18	2	169.79	258	1.623
3	51	1.257	26	89	51	11.83	57	0.540
4	358	22.545	139	765	399	28.94	294	68.224
5	6000 (UM)	0.001	4743	6964	5986	2.77	161	0.662

TIC:	4.9528	ng/uL
TIM:	36.502	nmole/L
Total Conc.:	5.1098	ng/uL

Smear Analysis	130 bp to 2000 bp	5.060 ng/ul	99.0 %Total	19.6681 nmole/L	423 Avg. Size (b.p.)	37.61 %CV

```
Sample Peak Width (sec): 50    Sample Min Peak Height: 25    Sample Baseline V to V?: Y    Sample Baseline V to V pts: 3
Sample Filter: Binomial        # of Pts for Filter: 3        Sample Start Region (min): 0  Sample End Region (min): 50
Manual Baseline Start (min): 10    Manual Baseline End (min): 48
Marker Peak Width (sec): 5    Marker Min Peak Height: 200    Marker Baseline V to V?: Y    Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 200 RFU            Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder        Final Concentration (ng/uL): 0.0830        Dilution Factor: 12.0
```

        Date Printed: 17-Sep-15 10:04

Data File: 2015 09 16 16H 21M.raw
Sample: Lane2_Afzal150915_IDX10_37133
Well Location: B4
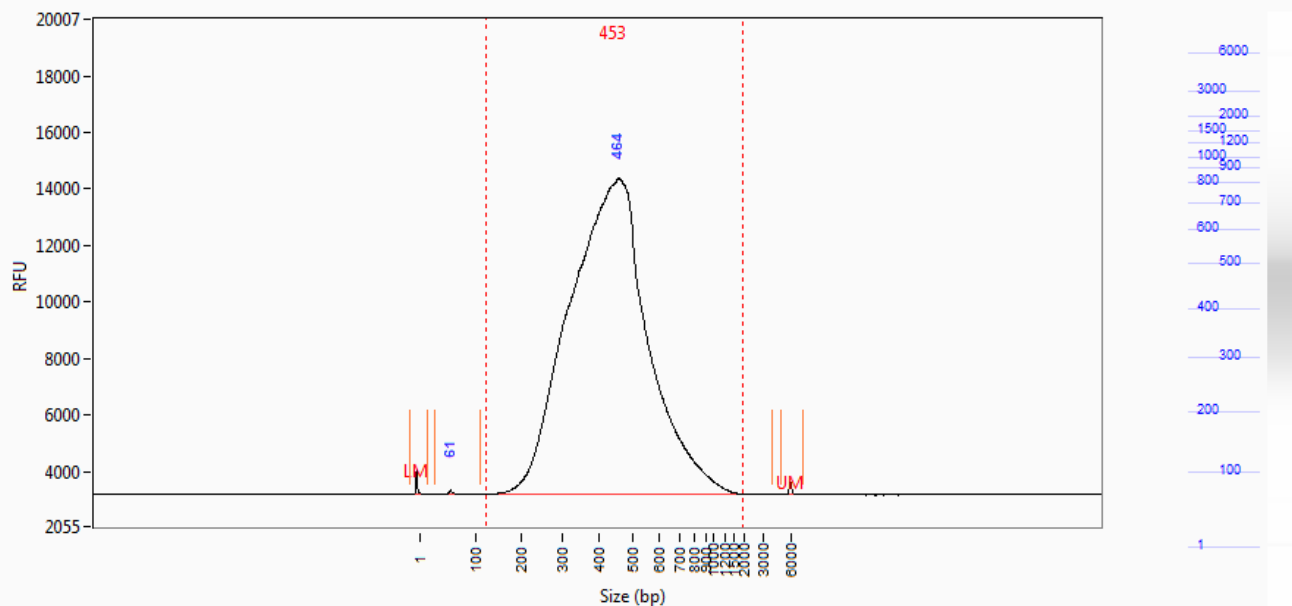
Peak	Size	Molarity	From	To	Avg. Size	CV%	RFU	Corr. Peak Area
	(bp)	(nmole/L)	(bp)	(bp)	(bp)			
1	1 (LM)	12.700	0	22	1	194.00	832	4.817
2	61	1.209	35	120	62	8.33	169	1.858
3	464	171.488	120	4515	449	30.17	11206	1995.503
4	6000 (UM)	0.001	5400	7757	5982	2.20	430	1.880
	TIC:	48.3581	ng/uL					
	TIM:	172.697	nmole/L					
	Total Conc.:	48.3581	ng/uL					

Smear Analysis	130 bp to 2000 bp	48.282 ng/ul	99.8 %Total	175.4509 nmole/L	453 Avg. Size (b.p.)	30.32 %CV

Sample Peak Width (sec): 50   Sample Min Peak Height: 25   Sample Baseline V to V?: Y   Sample Baseline V to V pts: 3
Sample Filter: Binomial   # of Pts for Filter: 3   Sample Start Region (min): 0 Sample End Region (min): 50
Manual Baseline Start (min): 10   Manual Baseline End (min): 48
Marker Peak Width (sec): 5   Marker Min Peak Height: 200   Marker Baseline V to V?: Y   Marker Baseline V to V pts: 3
Lower Marker Selection: First Peak > 200 RFU   Upper Marker Selection: Last Peak > 200 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Ladder   Final Concentration (ng/uL): 0.0830   Dilution Factor: 12.0

Data File: 2015 09 16 16H 21M.raw
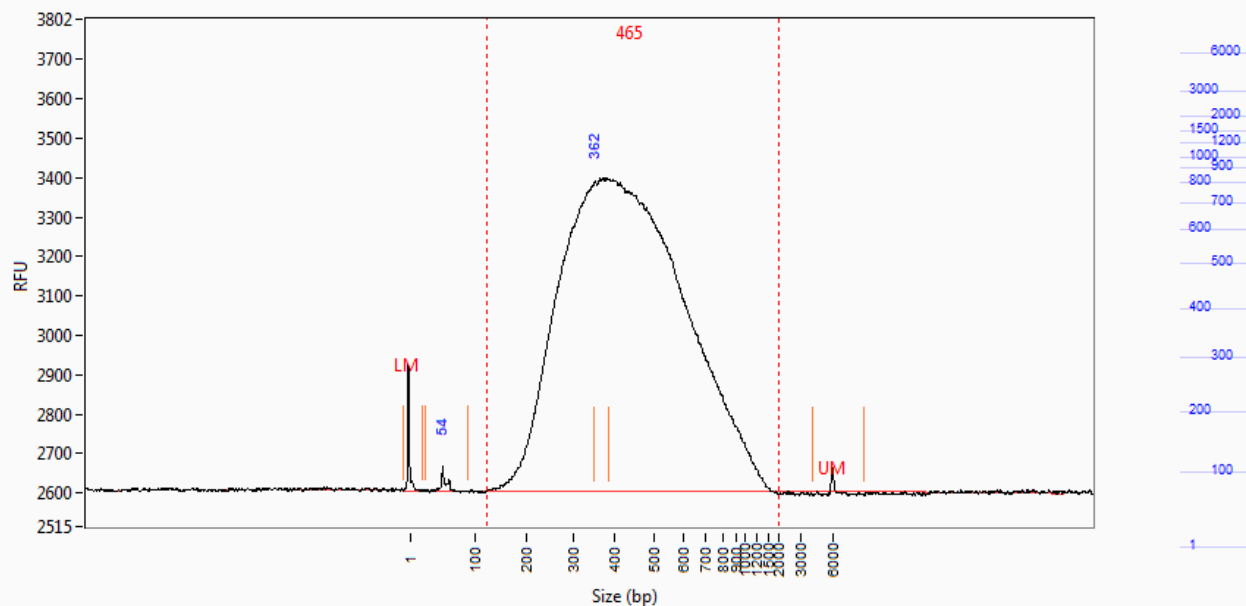**Sample:** Lane2_Afzal150915_IDX1_37134
Well Location: B5
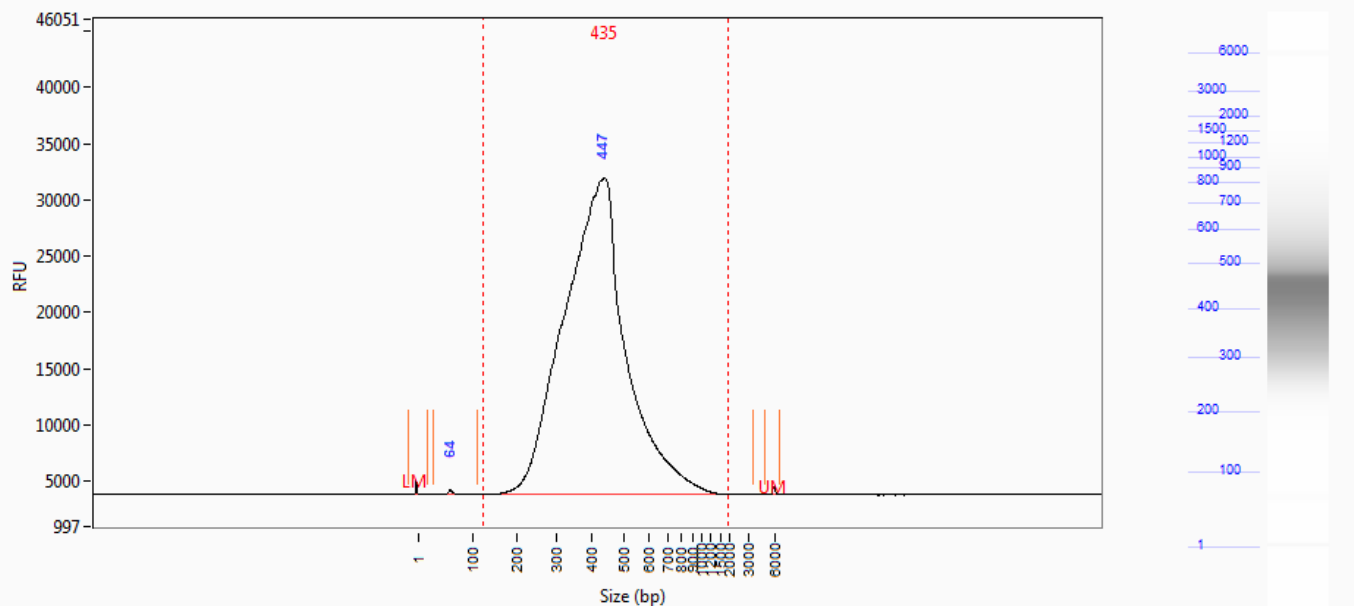
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.700	0	22	1	205.43	1263	7.377
2	64	2.723	33	120	65	7.93	437	6.707
3	447	234.902	120	4086	431	27.64	28145	4035.712
4	6000 (UM)	0.001	5457	7105	5992	3.06	733	3.611

TIC:	63.9118	ng/uL
TIM:	237.625	nmole/L
Total Conc.:	63.9139	ng/uL

Smear Analysis	130 bp to 2000 bp	63.781 ng/ul	99.8 %Total	241.2723 nmole/L	435 Avg. Size (b.p.)	27.74 %CV

Data File: 2015 09 16 16H 21M.raw
Sample: Lane3_Afzal150915_IDX2_37135
Well Location: B6

Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.700	0	25	2	161.40	318	2.064
2	54	1.306	28	94	57	10.00	60	0.767
3	362	5.774	362	397	379	2.70	795	22.461
4	6000 (UM)	0.000	4629	9316	5992	1.58	62	0.223

TIC:	1.3123	ng/uL
TIM:	7.080	nmole/L
Total Conc.:	12.4234	ng/uL

Smear Analysis	130 bp to 2000 bp	12.372 ng/ul	99.6 %Total	43.8032 nmole/L	465 Avg. Size (b.p.)	38.25 %CV

Data File: 2015 09 16 16H 21M.raw
Sample: Lane3_Afzal150915_IDX3_37136
Well Location: B7
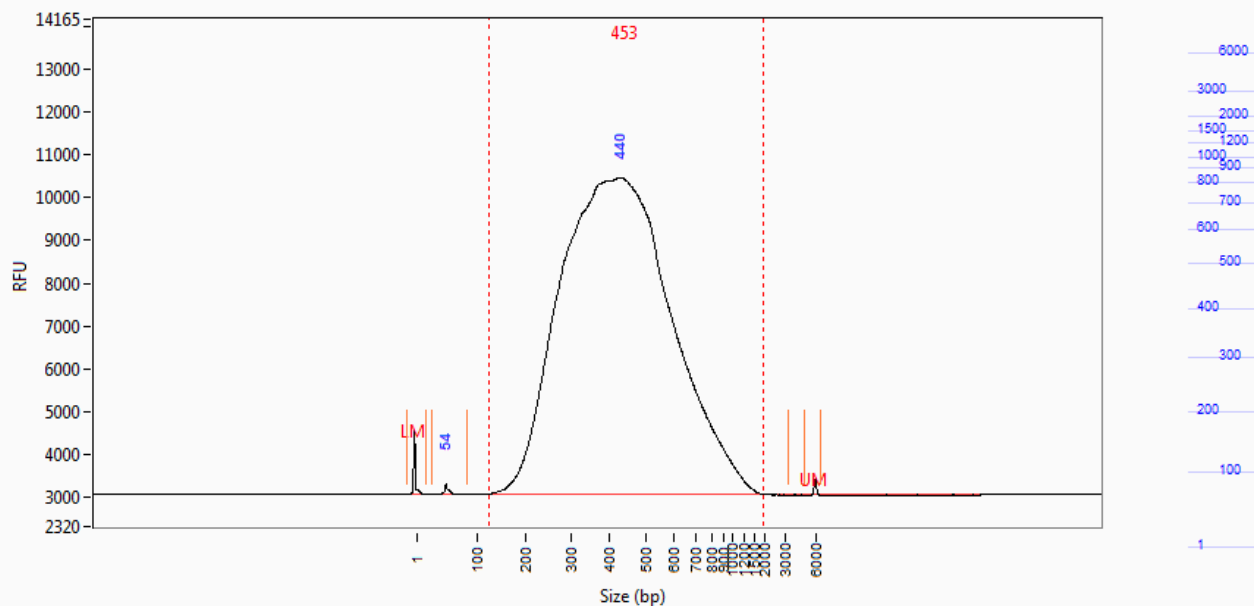
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.700	0	21	2	171.32	1488	9.009
2	54	0.995	31	89	55	6.30	252	2.526
3	440	90.181	89	3715	449	35.83	7385	1861.804
4	6000 (UM)	0.000	5372	6992	5974	1.69	353	1.329

TIC:	24.1379	ng/uL
TIM:	91.176	nmole/L
Total Conc.:	24.1379	ng/uL

Smear Analysis	130 bp to 2000 bp	24.091 ng/ul	99.8 %Total	87.5126 nmole/L	453 Avg. Size (b.p.)	36.07 %CV

```
Sample Peak Width (sec): 0    Sample Min Peak Height: 0     Sample Baseline V to V?: N    Sample Baseline V to V pts: 0
Sample Filter: None           # of Pts for Filter: 0        Sample Start Region (min): 0  Sample End Region (min): 50
Marker Peak Width (sec): 0    Marker Min Peak Height: 0     Marker Baseline V to V?: N    Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU                  Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker          Final Concentration (ng/uL): 0.0000          Dilution Factor: 0.0
```

Data File: 2015 09 16 16H 21M.raw
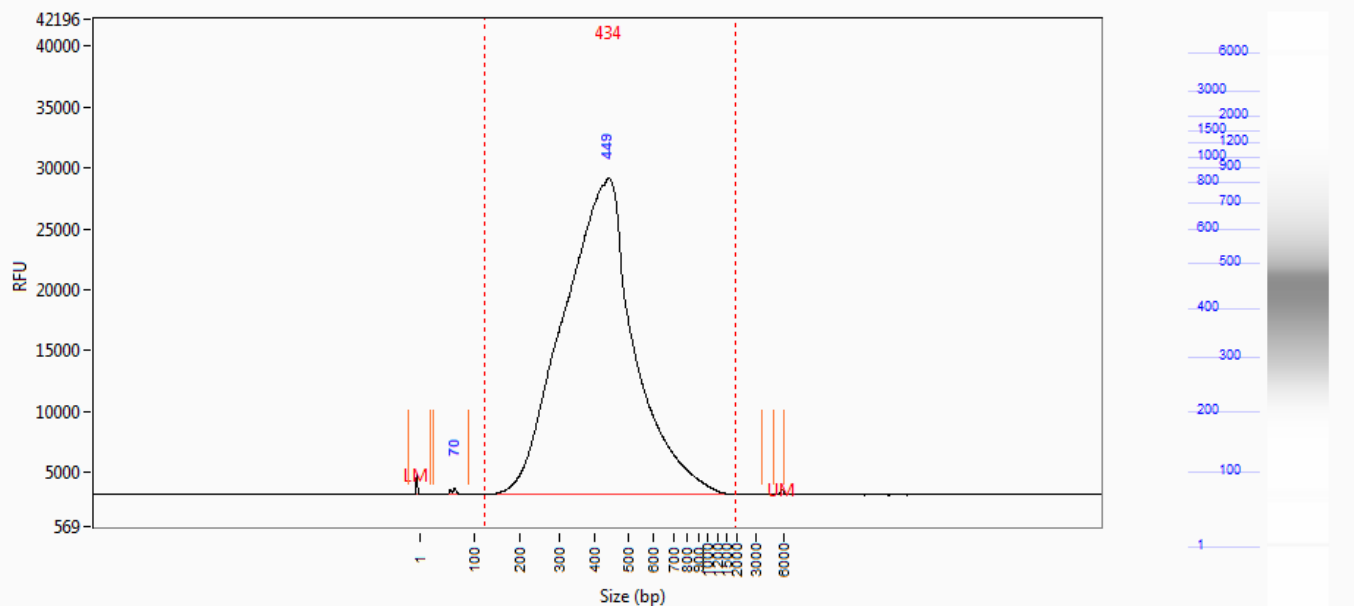**Sample:** Lane3_Afzal150915_IDX4_37137
Well Location: B8

Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.700	0	26	1	248.09	1574	9.639
2	70	2.454	33	96	66	8.90	500	8.598
3	449	188.549	96	4201	430	29.73	26000	4247.640
4	6000 (UM)	0.001	5572	6709	6002	2.03	448	1.881

TIC:	51.5005	ng/uL
TIM:	191.003	nmole/L
Total Conc.:	51.5005	ng/uL

Smear Analysis	130 bp to 2000 bp	51.373 ng/ul	99.8 %Total	194.7379 nmole/L	434 Avg. Size (b.p.)	29.85 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 16H 21M.raw
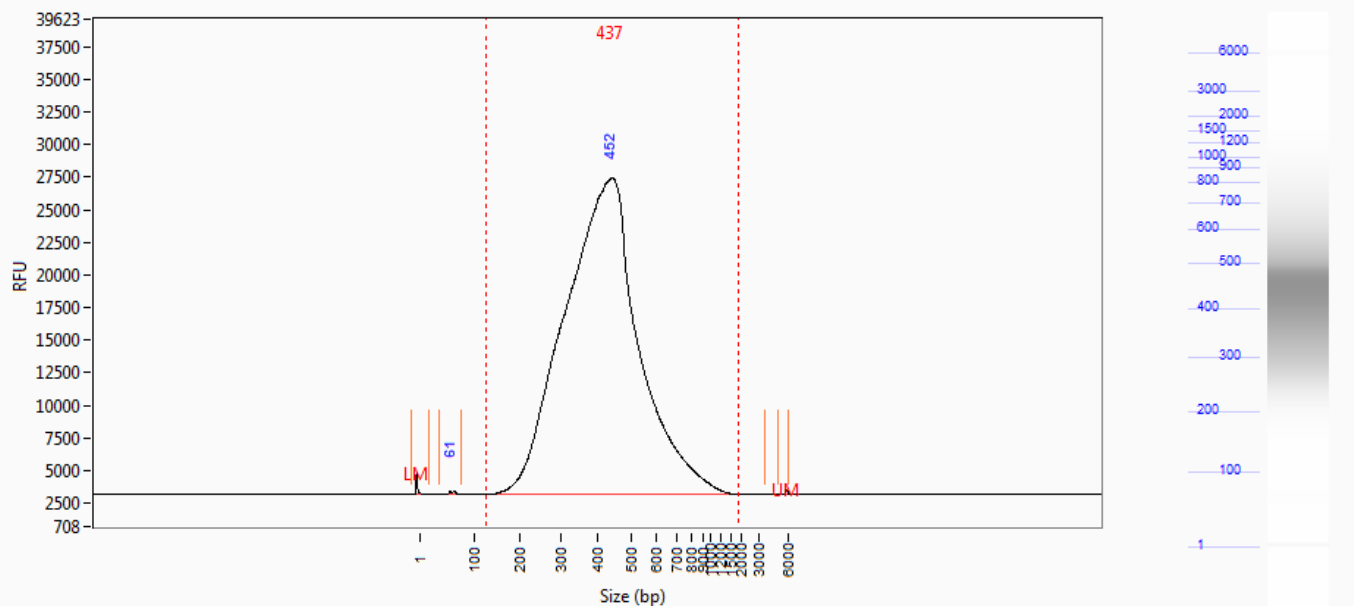**Sample:** Lane3_Afzal150915_IDX5_37138
Well Location: B9

Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.700	0	24	2	189.47	1618	9.922
2	61	1.883	42	83	65	8.63	311	5.959
3	452	176.939	83	4115	433	30.16	24306	4132.087
4	6000 (UM)	0.001	5457	6652	5990	2.22	428	1.919

TIC:	48.6421	ng/uL
TIM:	178.822	nmole/L
Total Conc.:	48.6429	ng/uL

Smear Analysis	130 bp to 2000 bp	48.548 ng/ul	99.8 %Total	182.7329 nmole/L	437 Avg. Size (b.p.)	30.24 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 16H 21M.raw
Sample: Lane3_Afzal150915_IDX6_37139
Well Location: B10
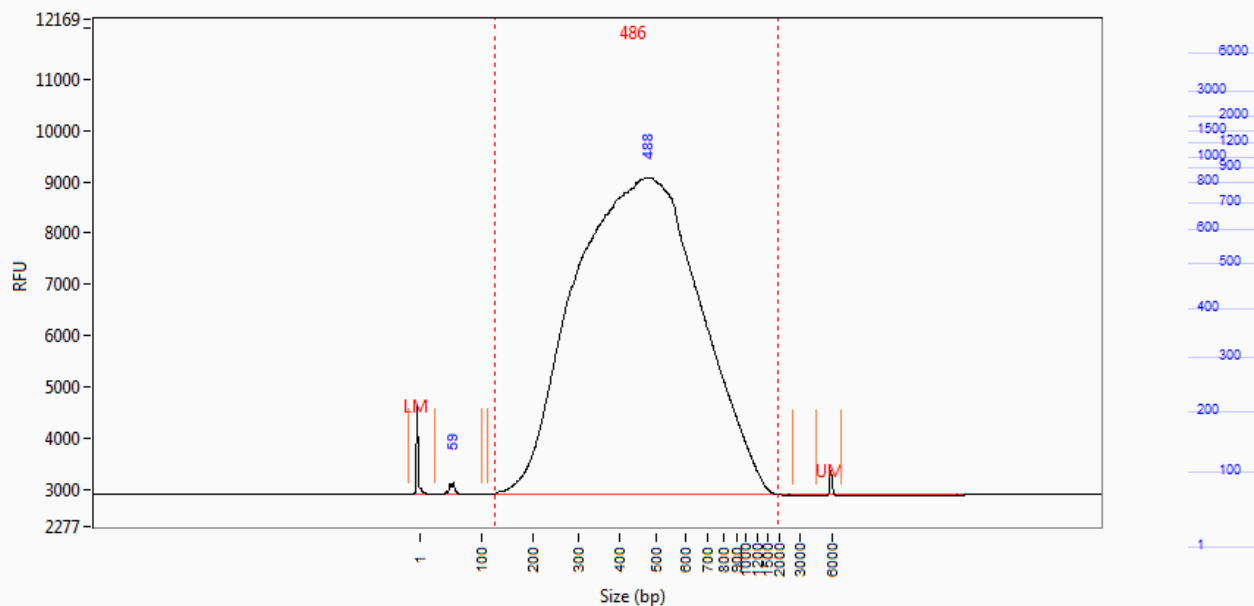
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.700	0	29	1	212.64	1727	10.427
2	59	1.183	29	107	56	7.61	224	3.812
3	488	63.460	119	2872	481	36.92	6167	1682.878
4	6000 (UM)	0.000	5029	7446	5971	1.70	454	1.687

TIC:	18.8675	ng/uL
TIM:	64.643	nmole/L
Total Conc.:	18.8675	ng/uL

Smear Analysis	130 bp to 2000 bp	18.824 ng/ul	99.8 %Total	63.7667 nmole/L	486 Avg. Size (b.p.)	37.22 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 16H 21M.raw
Sample: Ladder
Well Location: B12
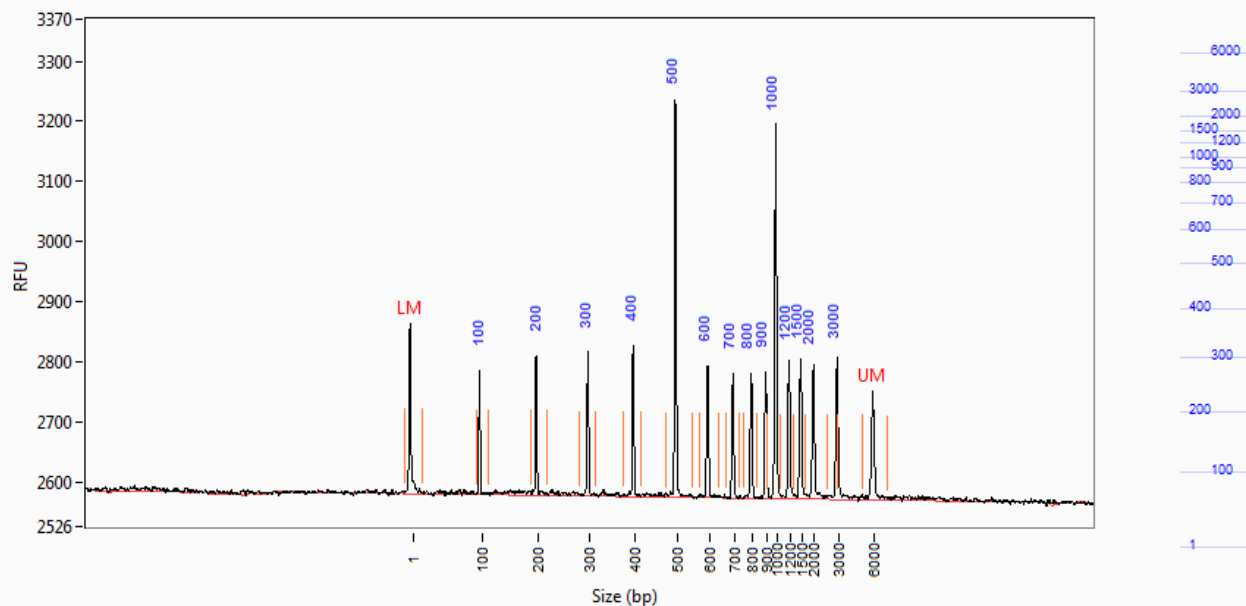
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.700	0	20	2	217.46	284	1.899
2	100	0.882	97	119	100	2.76	205	0.874
3	200	0.503	193	224	200	2.25	233	0.997
4	300	0.307	287	323	300	1.19	240	0.910
5	400	0.238	384	426	400	1.11	252	0.943
6	500	0.482	484	562	501	1.32	660	2.386
7	600	0.138	587	658	601	1.42	219	0.818
8	700	0.104	687	751	699	0.82	206	0.721
9	800	0.092	781	861	800	0.85	208	0.726
10	900	0.084	861	952	898	0.94	210	0.743
11	1000	0.226	952	1132	997	1.62	623	2.233
12	1200	0.074	1132	1412	1205	3.02	230	0.882
13	1500	0.061	1412	1852	1507	4.05	234	0.898
14	2000	0.048	1852	2786	2043	7.97	225	0.942
15	3000	0.030	2786	3372	2990	2.32	236	0.881
16	6000 (UM)	0.001	5543	7672	6079	5.41	180	0.860

TIC:	0.9187	ng/uL
TIM:	3.268	nmole/L
Total Conc.:	0.9960	ng/uL

```
Sample Peak Width (sec): 0     Sample Min Peak Height: 0     Sample Baseline V to V?: N     Sample Baseline V to V pts: 0
Sample Filter: None            # of Pts for Filter: 0        Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0     Marker Min Peak Height: 0     Marker Baseline V to V?: N     Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU                   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker        Final Concentration (ng/uL): 0.0000        Dilution Factor: 0.0
```

Data File: 2015 09 16 17H 27M.raw
Sample: Lane4_Afzal150915_IDX7_37140
Well Location: C1
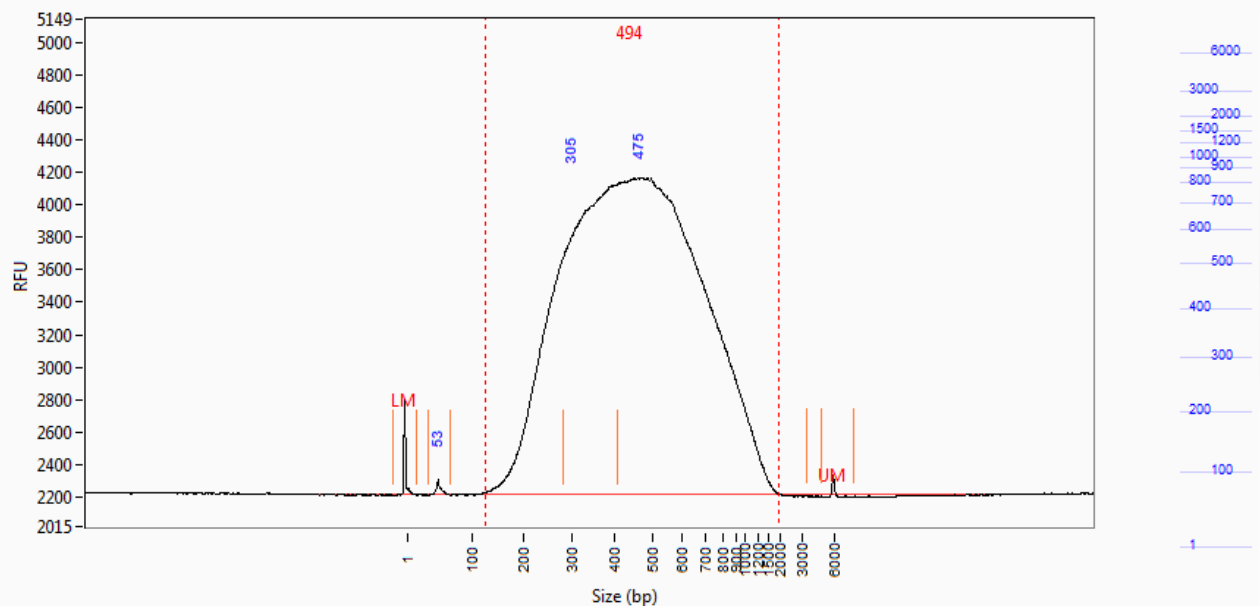
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.467	0	20	2	149.10	583	3.563
2	53	1.208	38	73	54	7.08	90	1.124
3	305	34.890	292	420	357	10.23	1921	186.627
4	475	74.553	73	3915	489	41.15	1954	619.601
5	6000 (UM)	0.000	5315	8268	5967	1.28	118	0.384

TIC:	28.0225	ng/uL
TIM:	110.651	nmole/L
Total Conc.:	21.5448	ng/uL

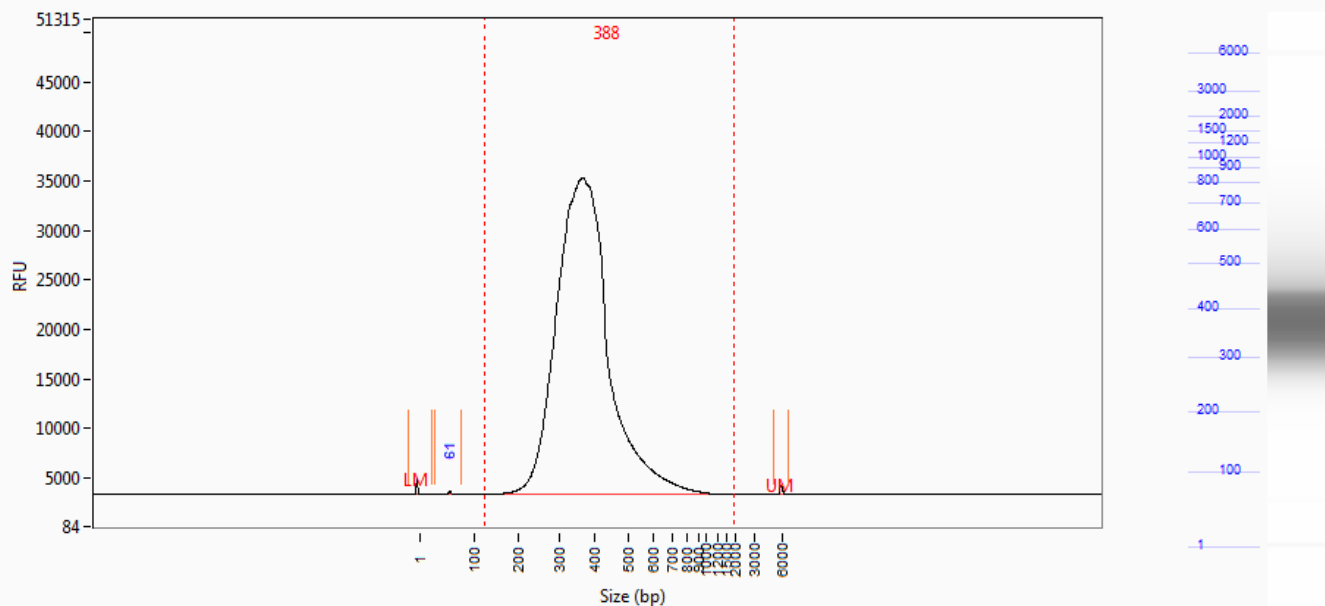| Smear Analysis	130 bp to 2000 bp	21.497 ng/ul	99.8 %Total	71.6122 nmole/L	494 Avg. Size (b.p.)	41.54 %CV

```
Sample Peak Width (sec): 0     Sample Min Peak Height: 0     Sample Baseline V to V?: N     Sample Baseline V to V pts: 0
Sample Filter: None            # of Pts for Filter: 0        Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0     Marker Min Peak Height: 0     Marker Baseline V to V?: N     Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU                   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker          Final Concentration (ng/uL): 0.0000          Dilution Factor: 0.0
```

          Date Printed: 17-Sep-15 10:04

Data File: 2015 09 16 17H 27M.raw
Sample: Lane4_Afzal150915_IDX8_37141
Well Location: C2
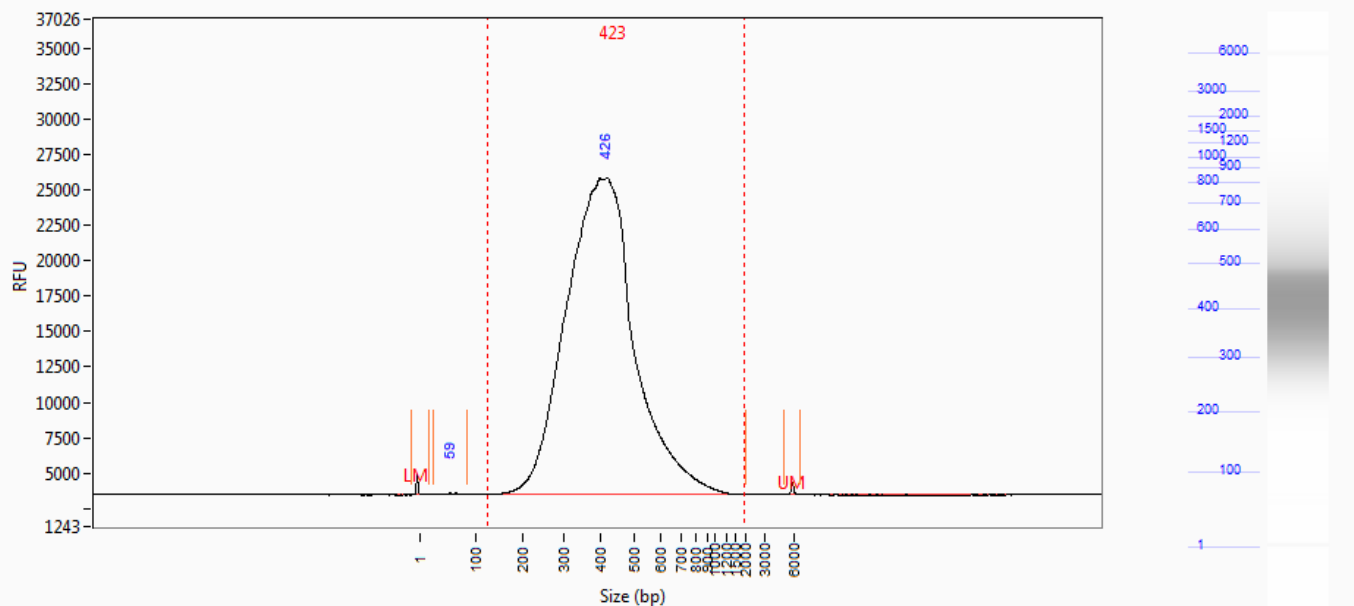
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.467	0	22	1	223.14	1439	8.603
2	59	1.044	31	90	62	9.24	173	2.618
3	426	195.570	90	2286	420	26.68	22360	3525.165
4	6000 (UM)	0.001	5514	7247	6005	2.36	845	3.745

TIC:	50.7135	ng/uL	
TIM:	196.614	nmole/L	
Total Conc.:	50.7185	ng/uL	

Smear Analysis	130 bp to 2000 bp	50.672 ng/ul	99.9 %Total	197.1281 nmole/L	423 Avg. Size (b.p.)	26.75 %CV

Data File: 2015 09 16 17H 27M.raw
Sample: Lane4_Afzal150915_IDX9_37142
Well Location: C3

Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.467	0	28	2	222.08	1505	9.561
2	61	1.531	35	82	60	11.65	372	4.403
3	6000 (UM)	0.001	5572	7219	6021	3.27	961	4.455

TIC:	0.0570	ng/uL
TIM:	1.531	nmole/L
Total Conc.:	51.3560	ng/uL

Smear Analysis	130 bp to 2000 bp	51.260 ng/ul	99.8 %Total	217.0826 nmole/L	388 Avg. Size (b.p.)	24.45 %CV

Data File: 2015 09 16 17H 27M.raw
Sample: Lane4_Afzal150915_IDX10_37143
Well Location: C4
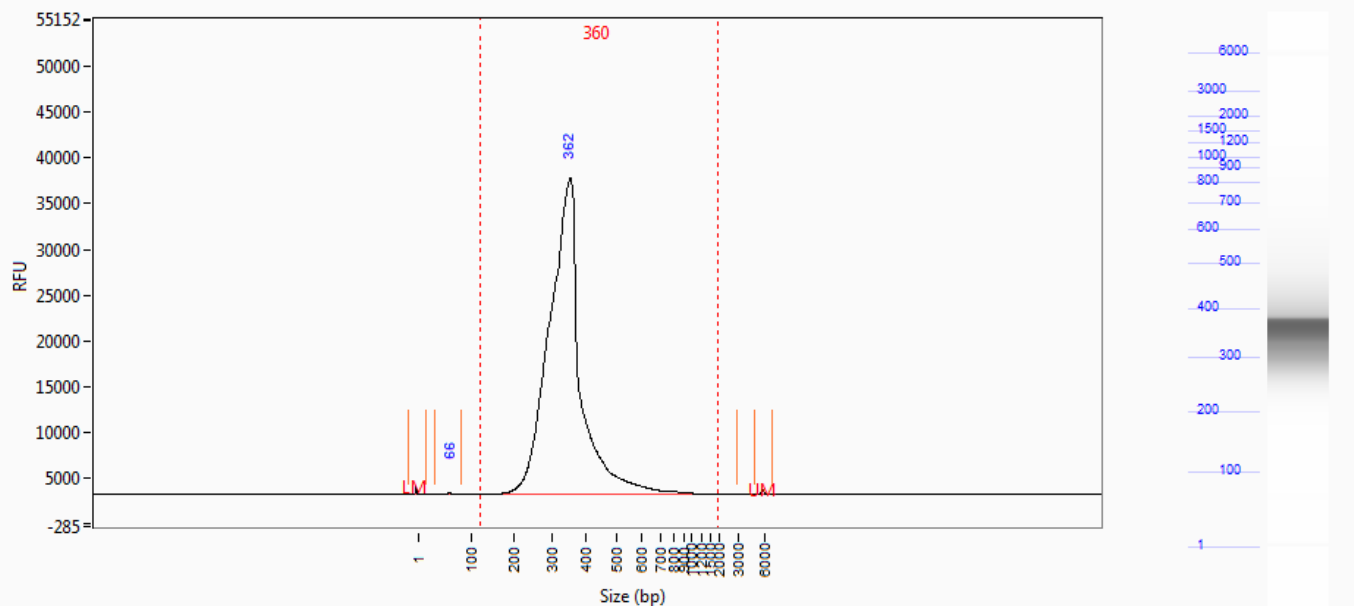
Peak	Size	Molarity	From	To	Avg. Size	CV%	RFU	Corr. Peak Area
	(bp)	(nmole/L)	(bp)	(bp)	(bp)			
1	1 (LM)	13.467	0	22	2	188.81	852	5.046
2	66	2.077	38	89	66	8.28	268	3.399
3	362	299.197	89	3515	359	29.16	34641	2685.258
4	6000 (UM)	0.002	5514	7587	6040	4.73	601	3.218

TIC:	65.8933	ng/uL
TIM:	301.274	nmole/L
Total Conc.:	65.9057	ng/uL

Smear Analysis	130 bp to 2000 bp	65.754 ng/ul	99.8 %Total	300.0888 nmole/L	360 Avg. Size (b.p.)	25.04 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 17H 27M.raw
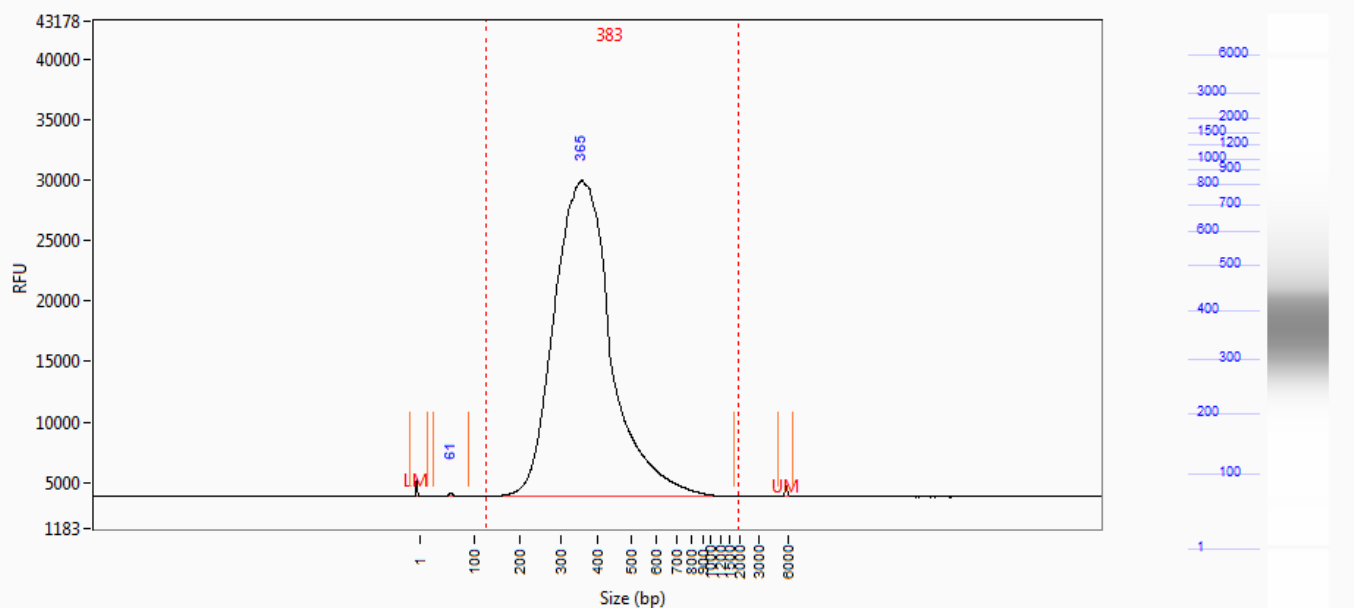**Sample:** Lane4_Afzal150915_IDX1_37144
Well Location: C5

Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.467	0	22	1	281.14	1423	8.584
2	61	2.078	33	96	63	11.43	324	5.407
3	365	230.030	96	1960	380	24.75	26239	3540.290
4	6000 (UM)	0.001	5572	7105	5973	2.54	894	3.926

TIC:	51.0841	ng/uL
TIM:	232.107	nmole/L
Total Conc.:	51.0976	ng/uL

Smear Analysis	130 bp to 2000 bp	51.000 ng/ul	99.8 %Total	219.0435 nmole/L	383 Avg. Size (b.p.)	24.75 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 17H 27M.raw
**Sample:** Lane5_Afzal150915_IDX2_37145
Well Location: C6
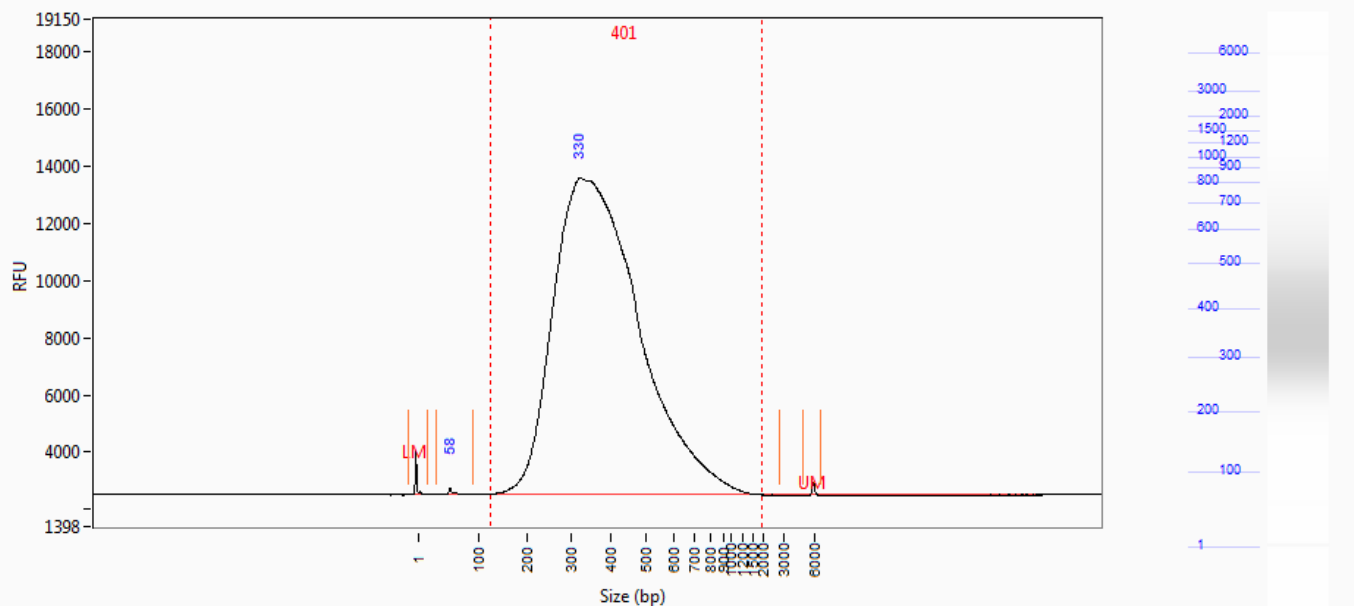
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.467	0	21	2	197.23	1486	8.972
2	58	1.215	36	98	60	8.97	246	3.127
3	330	150.865	98	3087	398	31.59	11087	2192.745
4	6000 (UM)	0.001	5343	7190	5994	1.75	420	1.605

TIC:	30.2699	ng/uL
TIM:	152.080	nmole/L
Total Conc.:	30.2702	ng/uL

Smear Analysis	130 bp to 2000 bp	30.206 ng/ul	99.8 %Total	123.8380 nmole/L	401 Avg. Size (b.p.)	31.65 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0 Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 17H 27M.raw
Sample: Lane5_Afzal150915_IDX3_37146
Well Location: C7
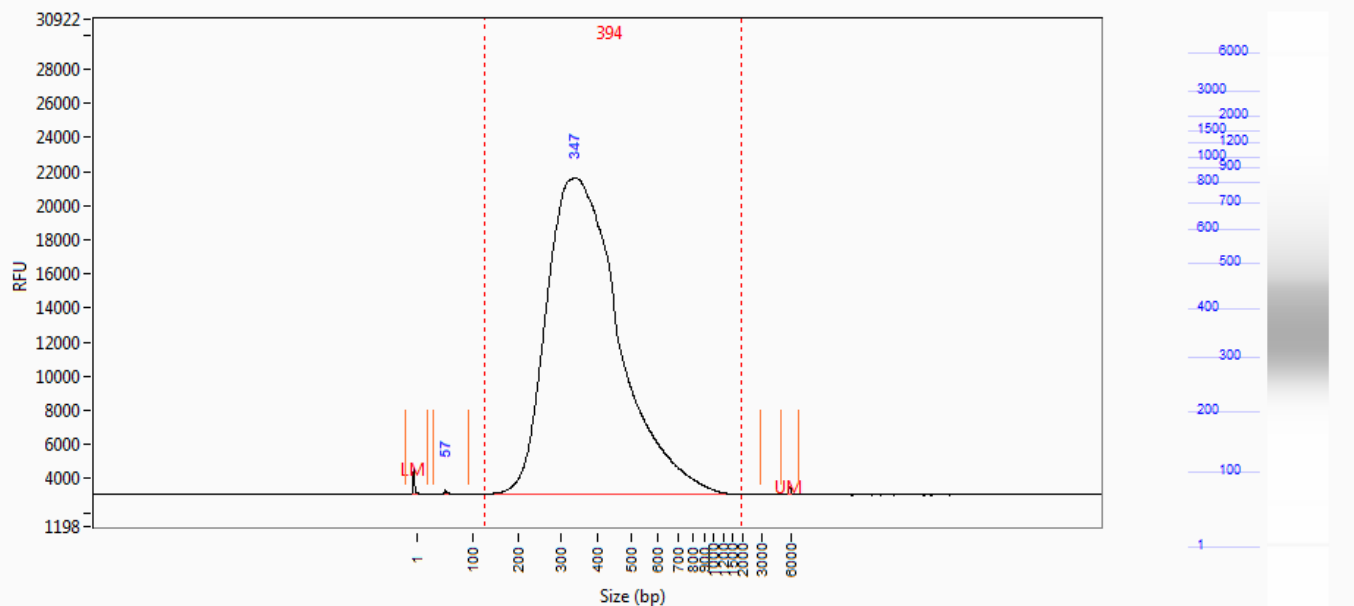
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.467	0	25	2	227.99	1505	9.709
2	57	1.157	36	99	59	12.84	253	3.168
3	347	192.350	99	3258	390	29.63	18568	3187.027
4	6000 (UM)	0.001	5543	7361	5953	2.07	466	1.890

TIC:	40.6352	ng/uL
TIM:	193.506	nmole/L
Total Conc.:	40.6362	ng/uL

Smear Analysis	130 bp to 2000 bp	40.589 ng/ul	99.9 %Total	169.6225 nmole/L	394 Avg. Size (b.p.)	29.67 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 17H 27M.raw
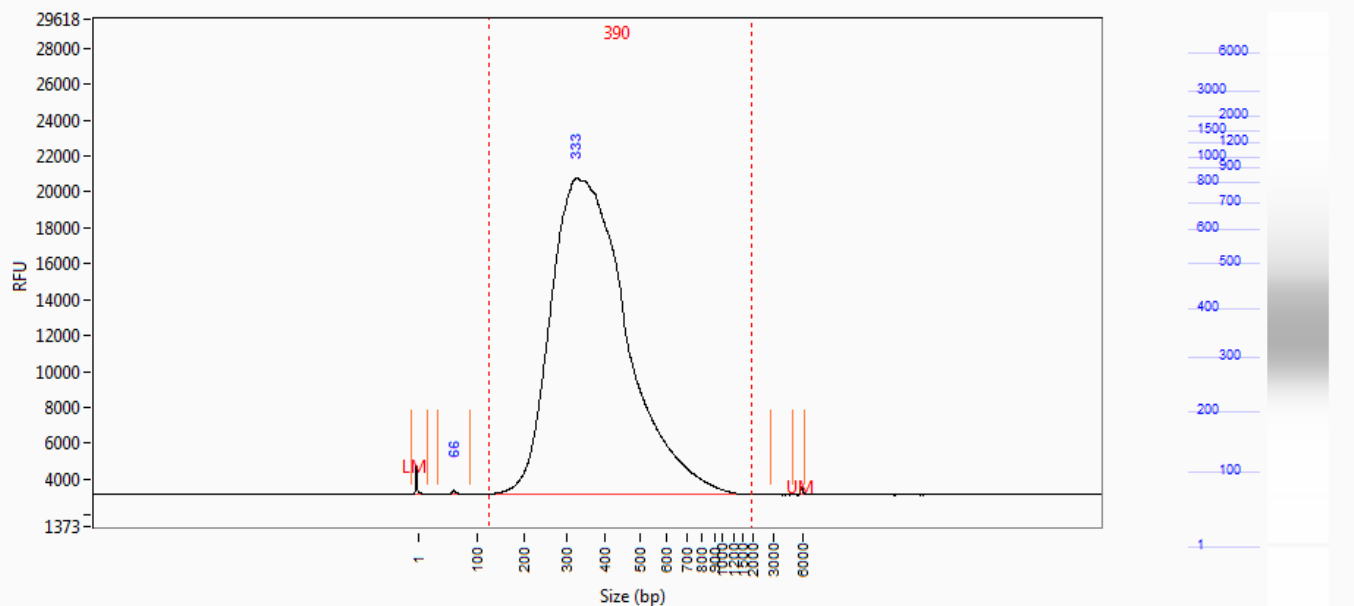**Sample:** Lane5_Afzal150915_IDX4_37147
Well Location: C8
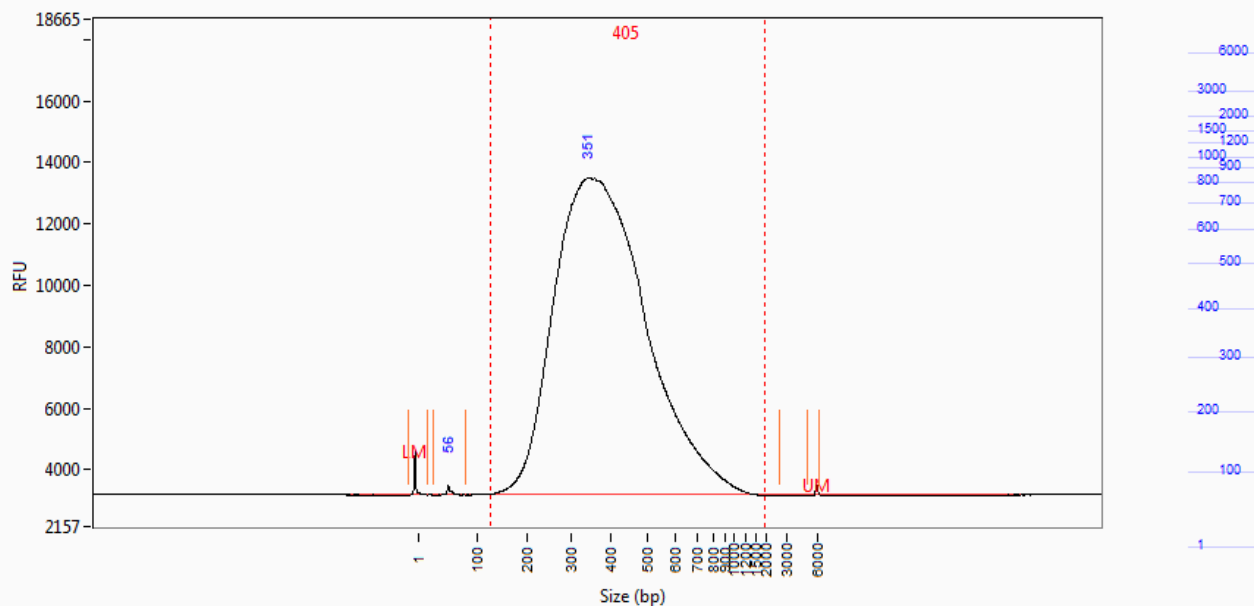
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.467	0	22	1	162.95	1362	7.546
2	56	1.183	31	86	58	5.21	289	2.478
3	351	167.568	86	2886	401	31.45	10298	2180.538
4	6000 (UM)	0.000	5543	6595	5961	1.55	304	1.046

TIC:	35.7786	ng/uL
TIM:	168.752	nmole/L
Total Conc.:	35.7786	ng/uL

Smear Analysis	130 bp to 2000 bp	35.727 ng/ul	99.9 %Total	145.2729 nmole/L	405 Avg. Size (b.p.)	31.48 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

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Data File: 2015 09 16 17H 27M.raw
Sample: Lane5_Afzal150915_IDX5_37148
Well Location: C9

Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.467	0	22	2	228.09	1611	10.273
2	66	1.296	40	95	65	13.75	249	4.346
3	333	185.694	95	3258	387	29.70	17644	3124.891
4	6000 (UM)	0.000	5543	6680	5971	1.93	399	1.624

TIC:	37.6709	ng/uL
TIM:	186.990	nmole/L
Total Conc.:	37.6737	ng/uL

Smear Analysis	130 bp to 2000 bp	37.610 ng/ul	99.8 %Total	158.4606 nmole/L	390 Avg. Size (b.p.)	29.72 %CV

Data File: 2015 09 16 17H 27M.raw
Sample: Lane5_Afzal150915_IDX6_37149
Well Location: C10
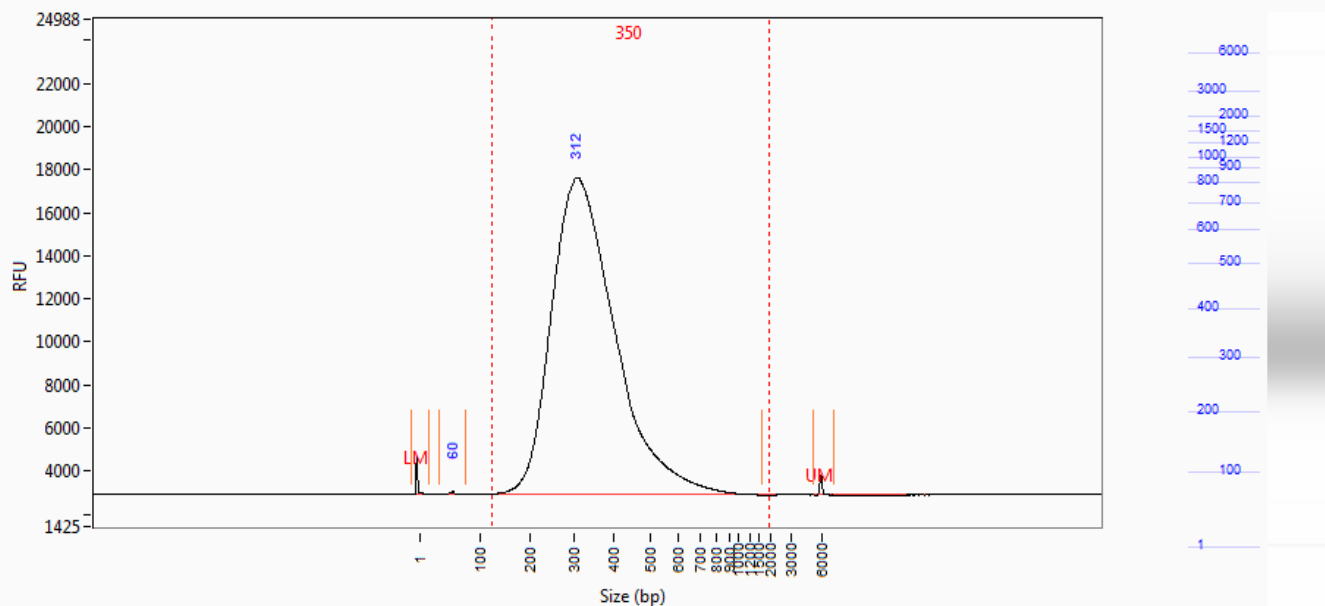
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.467	0	21	1	226.72	1754	10.942
2	60	0.817	39	83	57	10.83	133	2.648
3	312	131.770	83	1838	347	26.80	14722	2211.203
4	6000 (UM)	0.001	5600	7644	5984	1.85	917	3.556

TIC:	25.0224	ng/uL	
TIM:	132.588	nmole/L	
Total Conc.:	25.0243	ng/uL	

Smear Analysis	130 bp to 2000 bp	24.978 ng/ul	99.8 %Total	117.4208 nmole/L	350 Avg. Size (b.p.)	26.72 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0
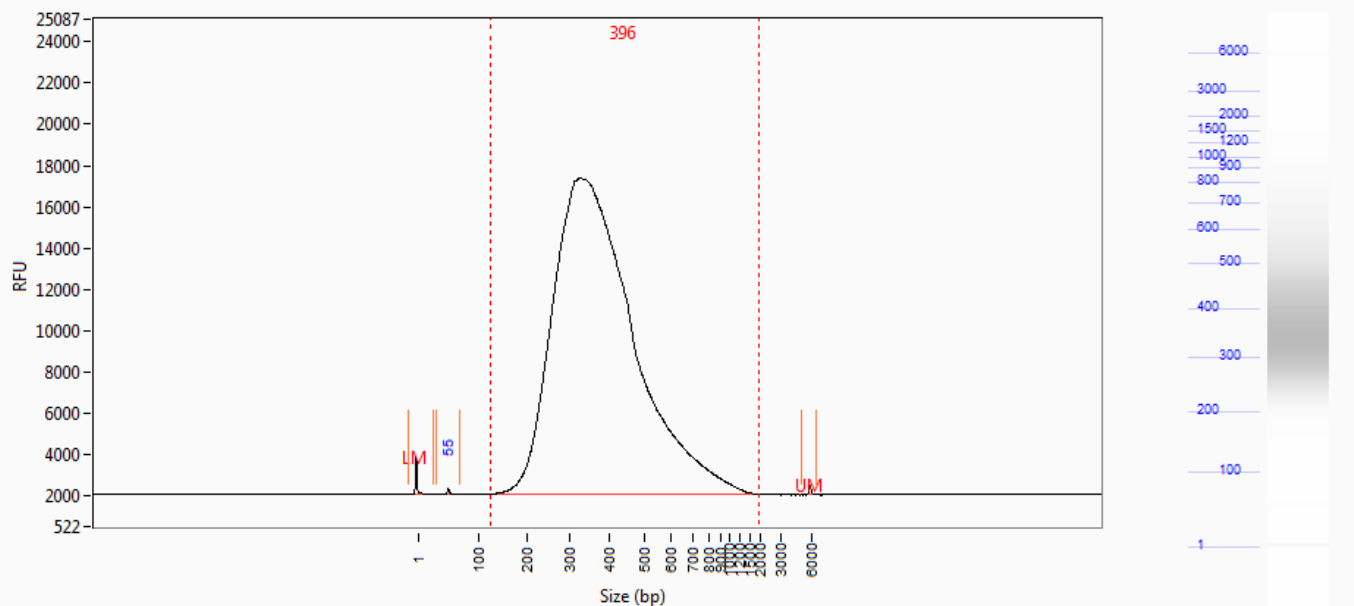
Data File: 2015 09 16 17H 27M.raw
Sample: Ladder
Well Location: C12
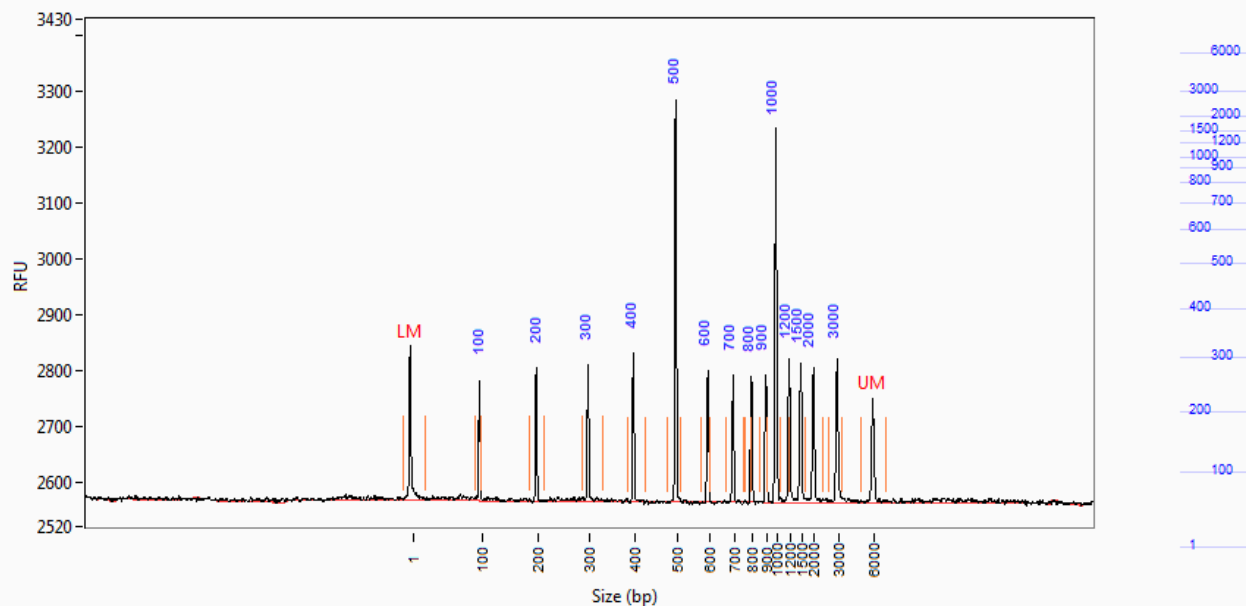
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	13.467	0	24	2	195.87	277	1.957
2	100	0.951	95	106	100	1.39	216	0.917
3	200	0.457	192	219	200	1.01	239	0.880
4	300	0.339	292	338	301	2.05	246	0.978
5	400	0.239	392	435	400	0.90	268	0.918
6	500	0.493	486	523	499	0.47	720	2.370
7	600	0.132	592	624	599	0.44	237	0.764
8	700	0.111	684	778	700	1.11	229	0.748
9	800	0.094	785	827	798	0.56	225	0.720
10	900	0.088	881	956	899	0.80	229	0.759
11	1000	0.234	956	1129	998	1.35	671	2.248
12	1200	0.077	1129	1319	1195	1.77	257	0.885
13	1500	0.065	1319	1838	1503	4.09	250	0.941
14	2000	0.047	1838	2572	2016	5.38	241	0.907
15	3000	0.033	2814	3744	3014	3.95	258	0.960
16	6000 (UM)	0.001	5400	7531	6051	4.67	187	0.784

TIC:	0.9474	ng/uL
TIM:	3.359	nmole/L
Total Conc.:	0.9960	ng/uL

Data File: 2015 09 16 18H 33M.raw
Sample: Lane6_Afzal150915_IDX7_37150
Well Location: D1

Peak	Size	Molarity	From	To	Avg. Size	CV%	RFU	Corr. Peak Area
	(bp)	(nmole/L)	(bp)	(bp)	(bp)			
1	1 (LM)	12.442	0	30	2	237.64	1807	11.279
2	55	0.721	36	75	55	6.56	268	2.379
3	6000 (UM)	0.000	5600	7134	5989	1.77	438	1.671

TIC:	0.0241	ng/uL
TIM:	0.721	nmole/L
Total Conc.:	28.9659	ng/uL

Smear Analysis	130 bp to 2000 bp	28.939 ng/ul	99.9 %Total	120.1149 nmole/L	396 Avg. Size (b.p.)	33.96 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

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Data File: 2015 09 16 18H 33M.raw
Sample: Lane6_Afzal150915_IDX8_37151
Well Location: D2
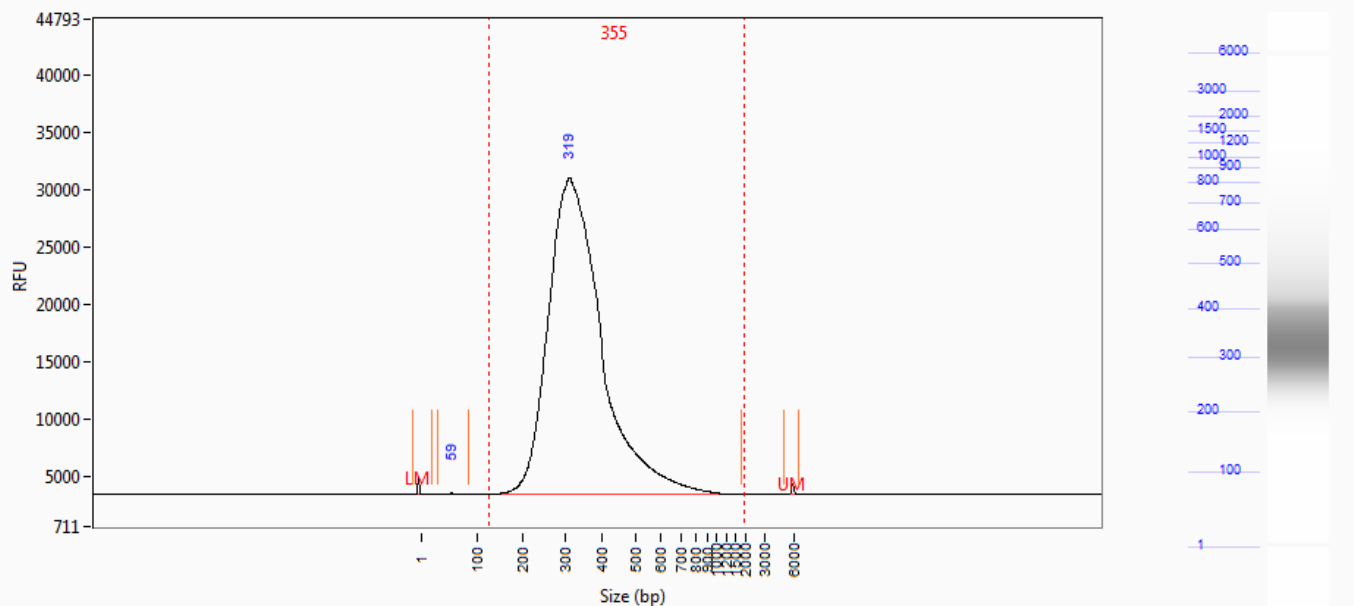
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.442	0	25	2	171.40	1496	9.158
2	59	0.589	35	90	62	9.67	106	1.713
3	319	225.964	90	2001	355	26.76	27527	3515.599
4	6000 (UM)	0.001	5457	7134	5985	2.17	964	4.060

TIC:	43.8857	ng/uL	
TIM:	226.553	nmole/L	
Total Conc.:	43.8869	ng/uL	

Smear Analysis	130 bp to 2000 bp	43.861 ng/ul	99.9 %Total	203.3310 nmole/L	355 Avg. Size (b.p.)	26.76 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 18H 33M.raw
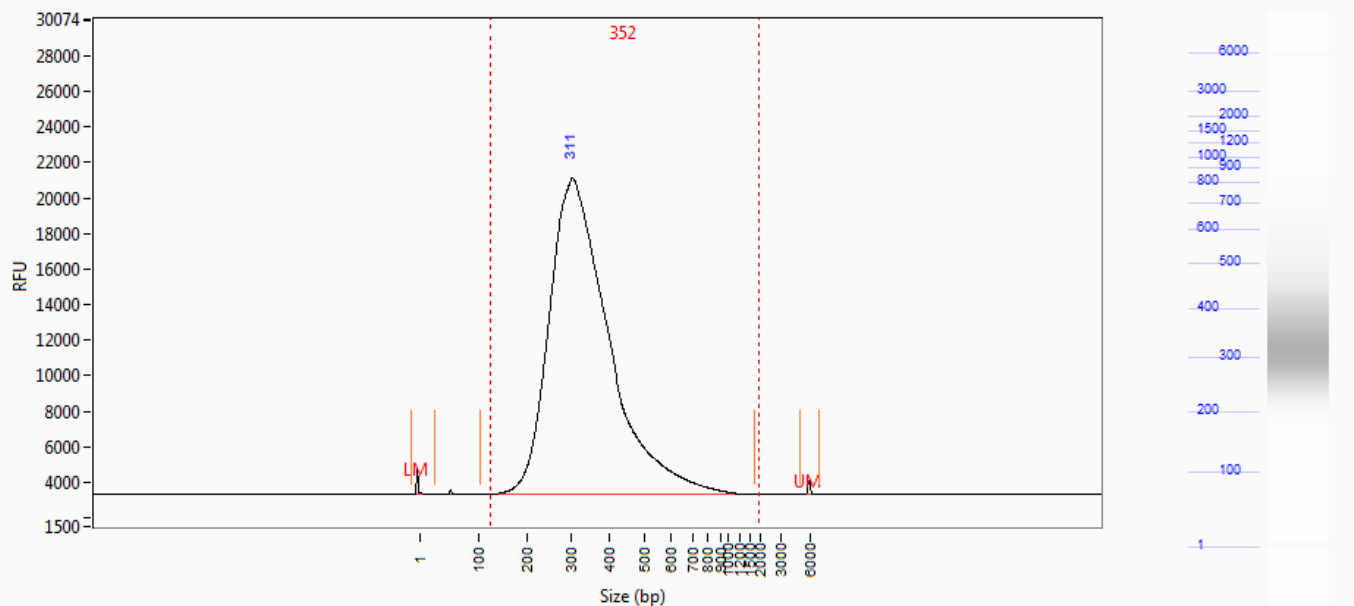**Sample:** Lane6_Afzal150915_IDX9_37152
Well Location: D3

Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.442	0	32	2	198.85	1429	8.672
2	311	175.969	111	1960	352	28.80	17840	2521.124
3	6000 (UM)	0.001	5572	7361	5988	2.89	805	3.450

TIC:	33.2186	ng/uL
TIM:	175.969	nmole/L
Total Conc.:	33.2577	ng/uL

Smear Analysis	130 bp to 2000 bp	33.220 ng/ul	99.9 %Total	155.0699 nmole/L	352 Avg. Size (b.p.)	28.79 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0 Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 18H 33M.raw
Sample: Lane6_Afzal150915_IDX10_37153
Well Location: D4
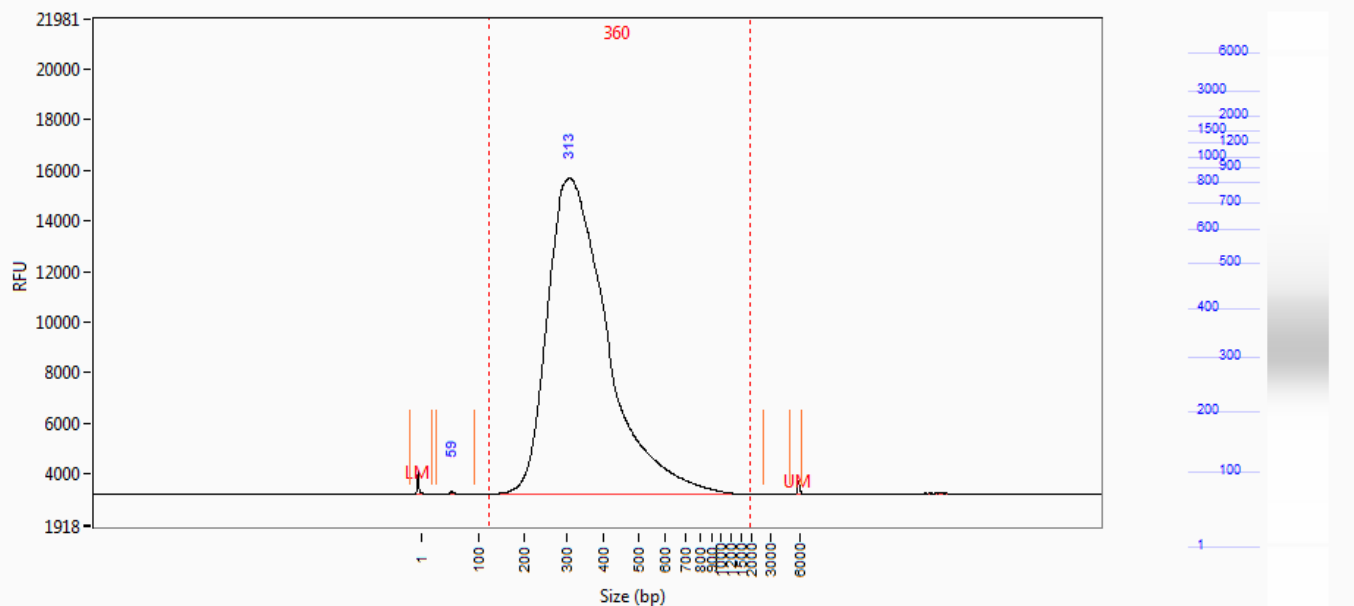
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.442	0	26	1	263.50	866	5.225
2	59	1.072	34	102	61	12.13	140	1.779
3	313	205.405	102	2914	360	29.31	12525	1789.753
4	6000 (UM)	0.001	5514	6737	5979	2.54	521	2.230

TIC:	39.1803	ng/uL
TIM:	206.477	nmole/L
Total Conc.:	39.1828	ng/uL

Smear Analysis	130 bp to 2000 bp	39.122 ng/ul	99.8 %Total	178.9973 nmole/L	360 Avg. Size (b.p.)	29.30 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 18H 33M.raw
**Sample:** Lane6_Afzal150915_IDX1_37154
Well Location: D5
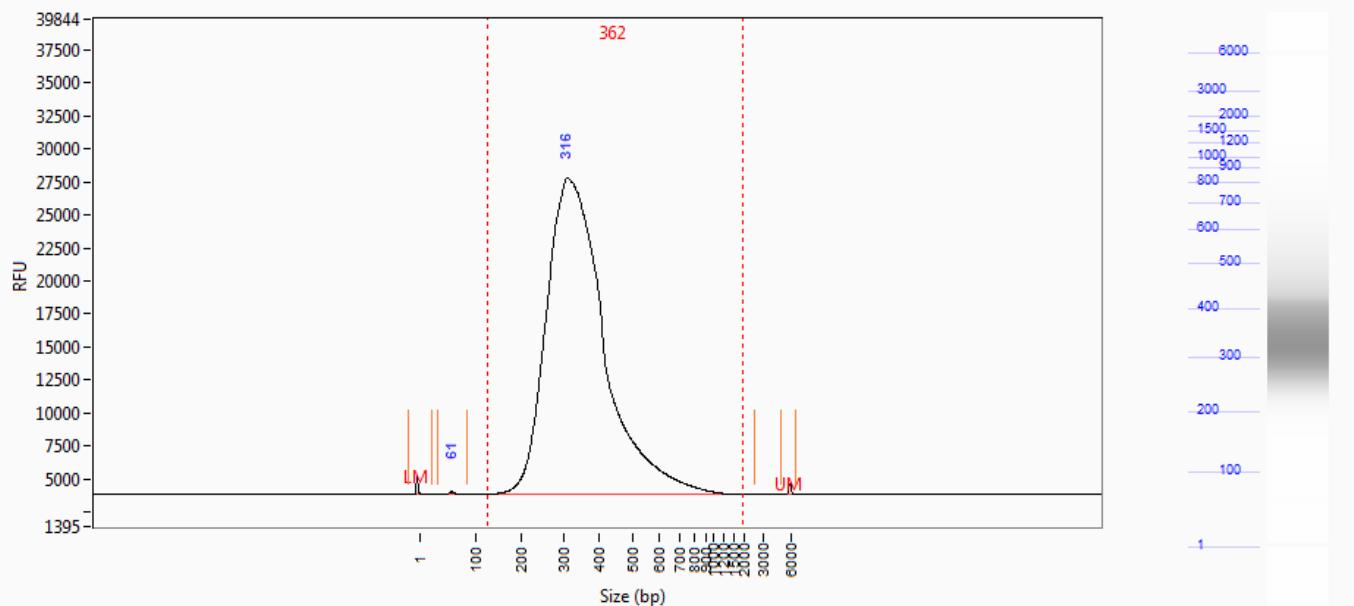
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.442	0	27	1	244.67	1340	8.413
2	61	1.469	38	90	62	9.77	244	4.048
3	316	235.381	90	2814	362	28.27	24012	3333.353
4	6000 (UM)	0.001	5514	6992	6008	2.47	852	3.681

TIC:	45.3279	ng/uL
TIM:	236.850	nmole/L
Total Conc.:	45.3305	ng/uL

Smear Analysis	130 bp to 2000 bp	45.270 ng/ul	99.9 %Total	205.4631 nmole/L	362 Avg. Size (b.p.)	28.27 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0 Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 18H 33M.raw
**Sample:** Lane7_Afzal150915_IDX2_37155
Well Location: D6
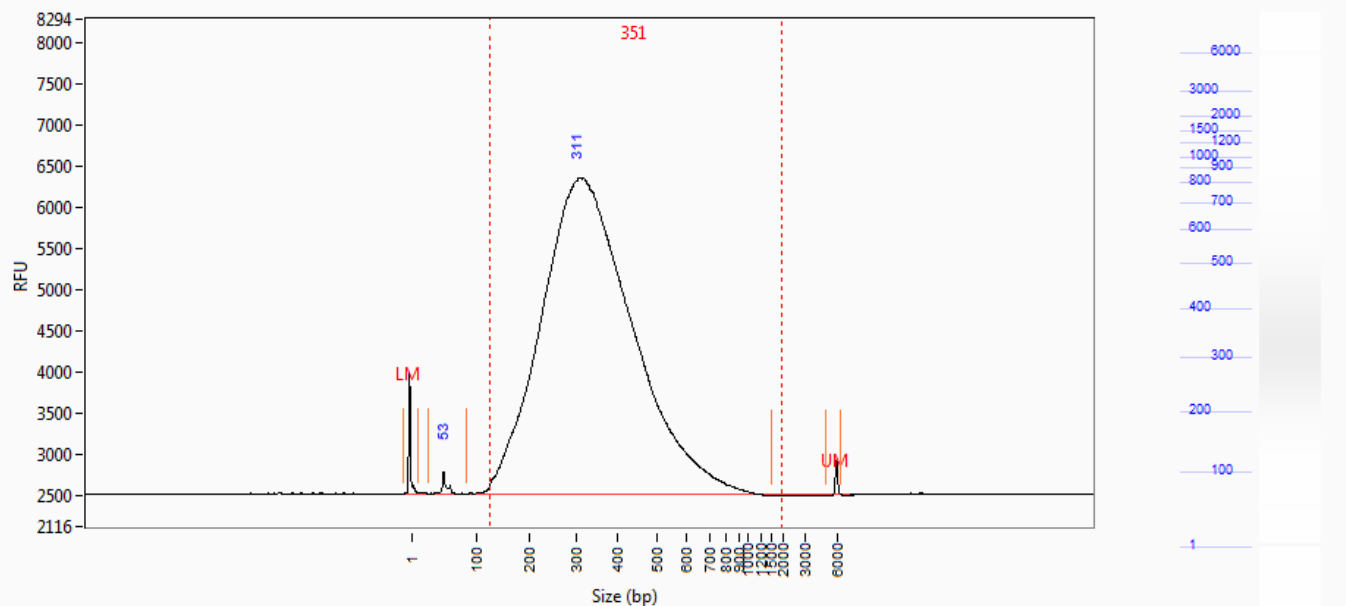
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.442	0	15	1	213.84	1471	9.154
2	53	1.340	30	89	55	11.24	264	3.496
3	311	53.523	89	1703	350	32.76	3850	811.421
4	6000 (UM)	0.000	5486	6822	5990	1.61	403	1.431

TIC:	10.1713	ng/uL	
TIM:	54.863	nmole/L	
Total Conc.:	10.1747	ng/uL	

Smear Analysis	130 bp to 2000 bp	10.112 ng/ul	99.4 %Total	47.4522 nmole/L	351 Avg. Size (b.p.)	32.69 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0 Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 18H 33M.raw
Sample: Lane7_Afzal150915_IDX3_37156
Well Location: D7
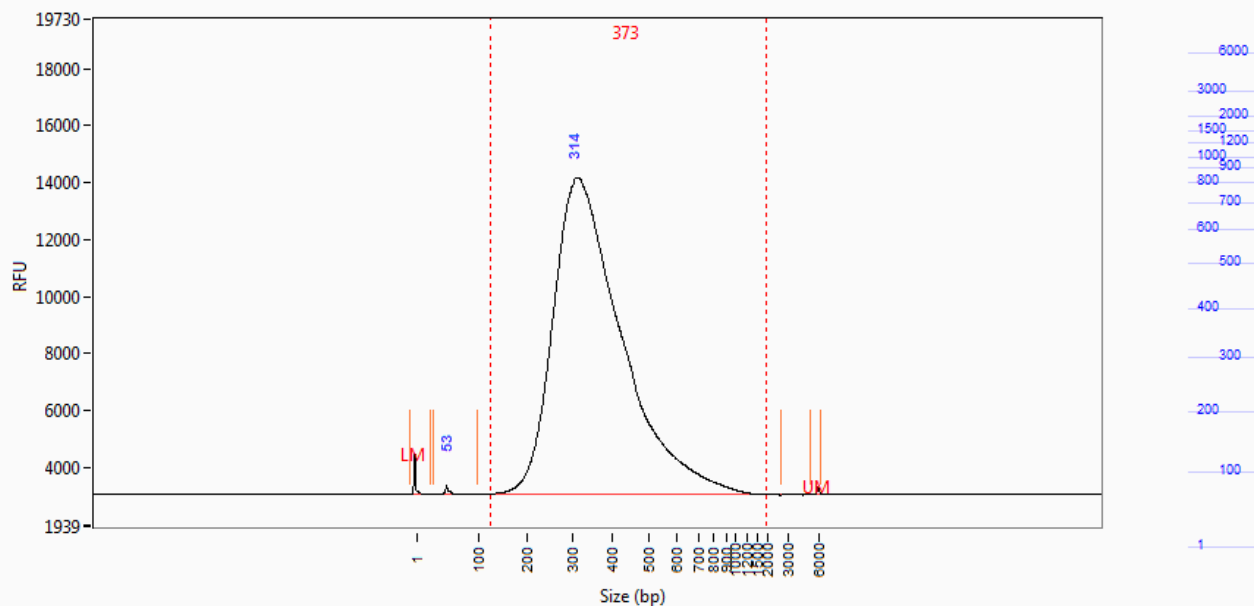
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.442	0	27	2	169.41	1414	8.889
2	53	1.409	32	105	54	8.00	334	3.538
3	314	119.159	105	2857	373	30.71	11103	1770.680
4	6000 (UM)	0.000	5629	6595	5976	1.72	253	0.938

TIC:	22.8053	ng/uL
TIM:	120.568	nmole/L
Total Conc.:	22.8054	ng/uL

Smear Analysis	130 bp to 2000 bp	22.753 ng/ul	99.8 %Total	100.4295 nmole/L	373 Avg. Size (b.p.)	30.71 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0 Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 18H 33M.raw
**Sample:** Lane7_Afzal150915_IDX4_37157
Well Location: D8
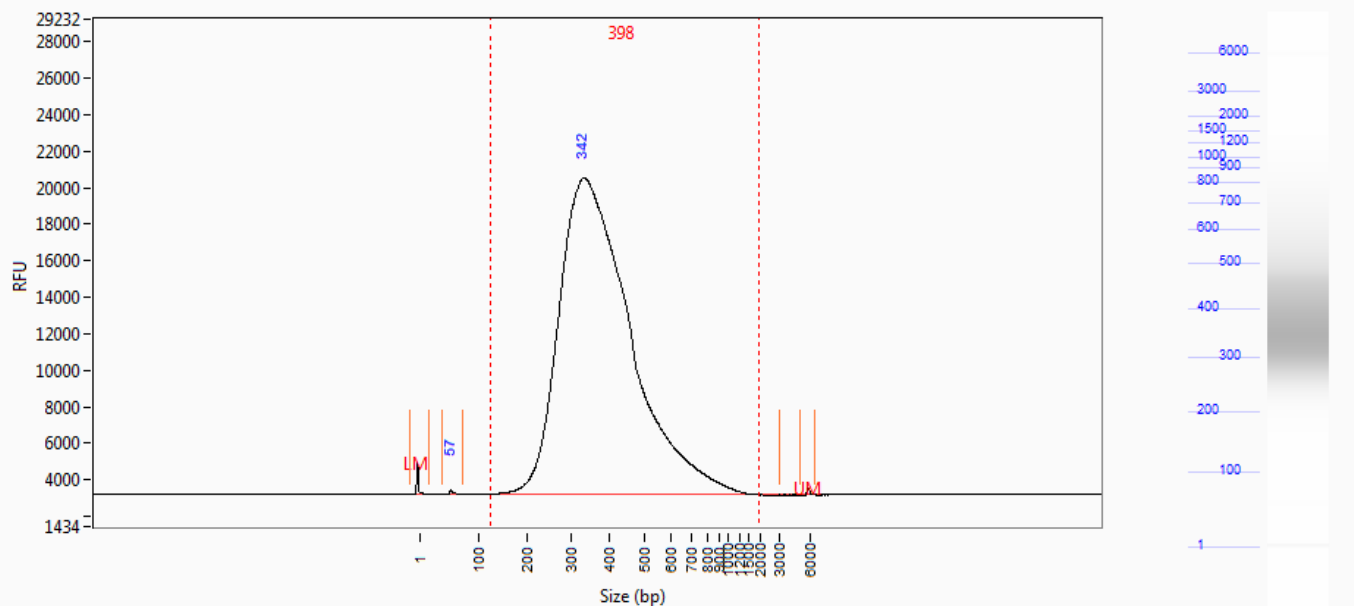
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.442	0	20	1	372.01	1698	10.877
2	57	1.067	43	79	58	9.00	293	3.541
3	342	143.714	79	3515	398	30.53	17361	2844.612
4	6000 (UM)	0.000	5657	7077	5960	1.78	355	1.356

TIC:	29.9195	ng/uL
TIM:	144.781	nmole/L
Total Conc.:	29.9225	ng/uL

Smear Analysis	130 bp to 2000 bp	29.873 ng/ul	99.8 %Total	123.5964 nmole/L	398 Avg. Size (b.p.)	30.51 %CV

```
Sample Peak Width (sec): 0     Sample Min Peak Height: 0     Sample Baseline V to V?: N     Sample Baseline V to V pts: 0
Sample Filter: None            # of Pts for Filter: 0        Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0     Marker Min Peak Height: 0     Marker Baseline V to V?: N     Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU                   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker          Final Concentration (ng/uL): 0.0000          Dilution Factor: 0.0
```

Data File: 2015 09 16 18H 33M.raw
**Sample:** Lane7_Afzal150915_IDX5_37158
Well Location: D9
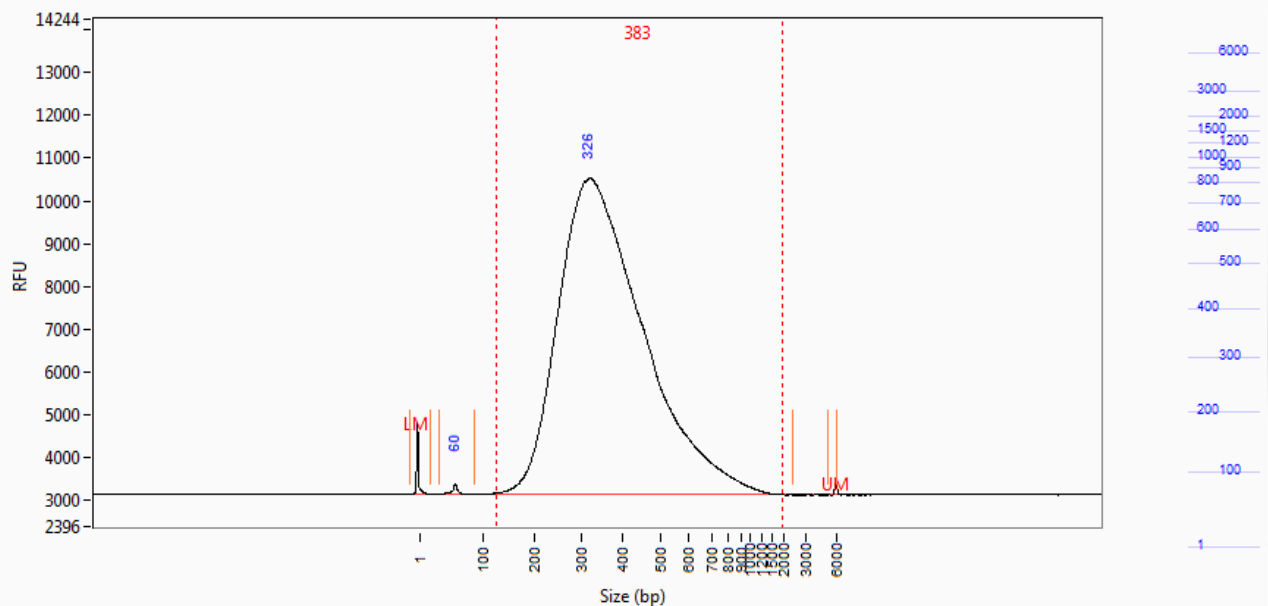
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.442	0	22	2	228.39	1656	10.574
2	60	1.167	35	92	60	13.03	243	3.948
3	326	77.664	92	2700	383	33.03	7393	1423.985
4	6000 (UM)	0.000	5657	6453	5970	1.68	254	0.926

TIC:	15.4302	ng/uL
TIM:	78.831	nmole/L
Total Conc.:	15.4315	ng/uL

Smear Analysis	130 bp to 2000 bp	15.385 ng/ul	99.7 %Total	66.0789 nmole/L	383 Avg. Size (b.p.)	33.01 %CV

Sample Peak Width (sec): 0   Sample Min Peak Height: 0   Sample Baseline V to V?: N   Sample Baseline V to V pts: 0
Sample Filter: None   # of Pts for Filter: 0   Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0   Marker Min Peak Height: 0   Marker Baseline V to V?: N   Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU   Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker   Final Concentration (ng/uL): 0.0000   Dilution Factor: 0.0

Data File: 2015 09 16 18H 33M.raw
Sample: Lane7_Afzal150915_IDX6_37159
Well Location: D10
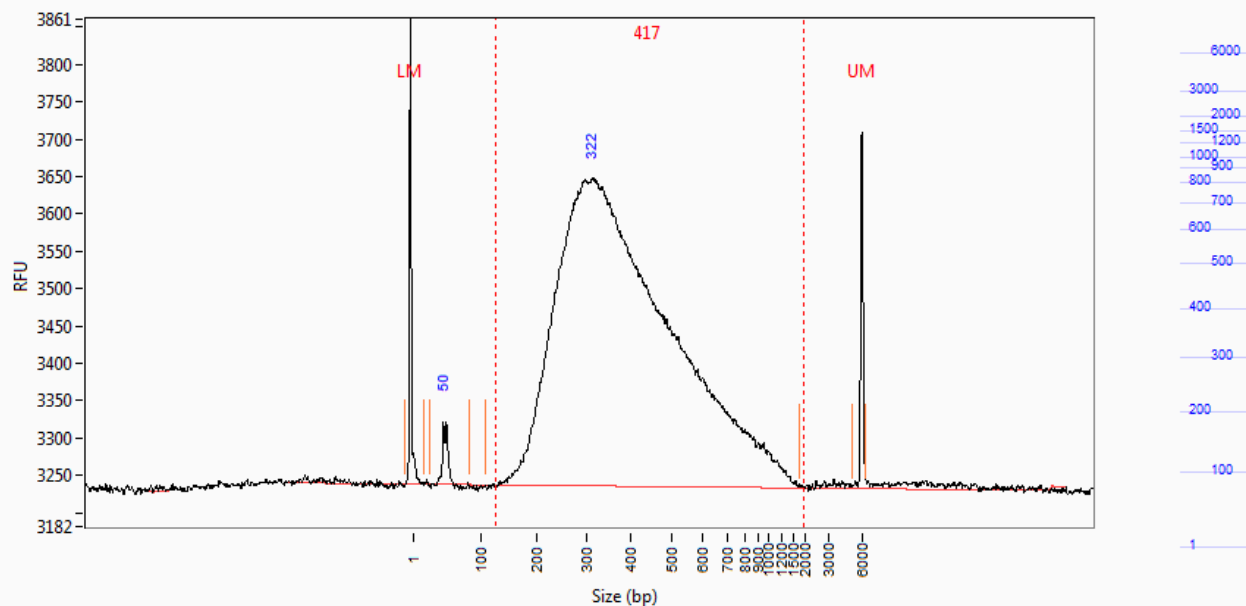
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.442	0	21	1	195.58	647	3.966
2	50	1.365	31	89	52	8.43	83	1.435
3	322	14.982	114	1960	417	42.99	412	101.653
4	6000 (UM)	0.001	5629	6709	5983	2.17	476	1.816

	TIC:	2.9697	ng/uL
	TIM:	16.347	nmole/L
	Total Conc.:	2.9796	ng/uL

Smear Analysis	130 bp to 2000 bp	2.927 ng/ul	98.2 %Total	11.5595 nmole/L	417 Avg. Size (b.p.)	43.00 %CV

```
Sample Peak Width (sec): 0     Sample Min Peak Height: 0      Sample Baseline V to V?: N     Sample Baseline V to V pts: 0
Sample Filter: None            # of Pts for Filter: 0         Sample Start Region (min): 0   Sample End Region (min): 50
Marker Peak Width (sec): 0     Marker Min Peak Height: 0      Marker Baseline V to V?: N     Marker Baseline V to V pts: 0
Lower Marker Selection: First Peak > 0 RFU                    Upper Marker Selection: Last Peak > 0 RFU
Ladder Size (bp): 1, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 2000, 3000, 6000
Quantification Using: Lower Marker          Final Concentration (ng/uL): 0.0000          Dilution Factor: 0.0
```

Data File: 2015 09 16 18H 33M.raw
Sample: Ladder
Well Location: D12
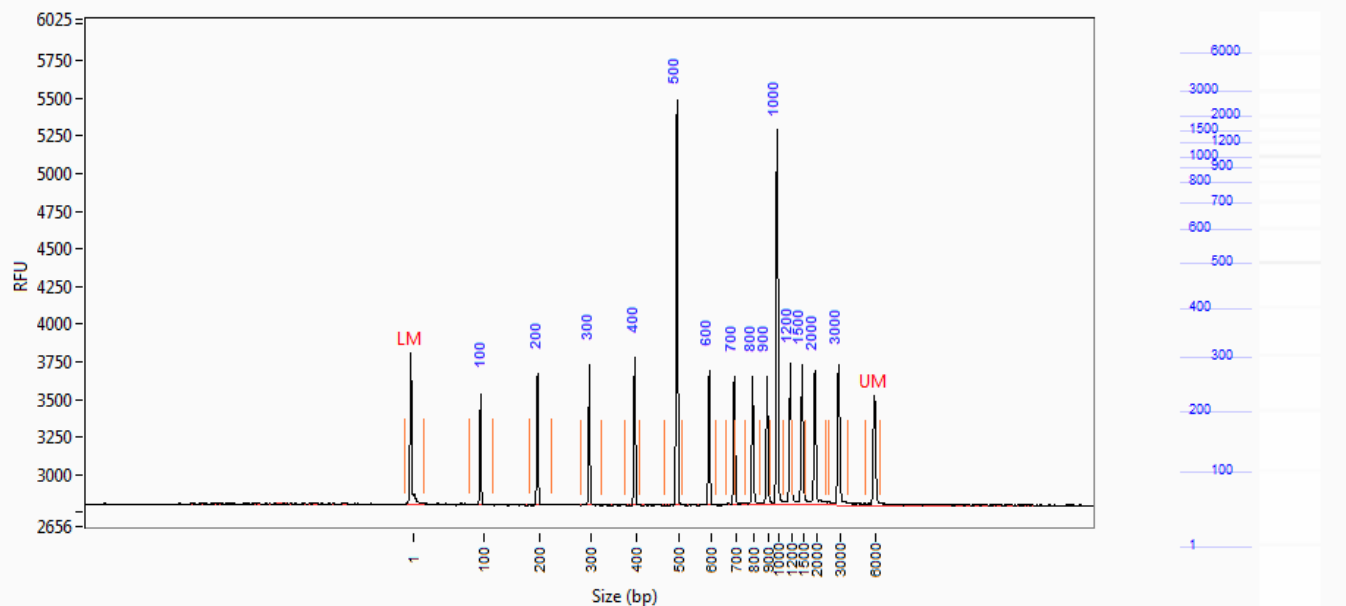
Peak	Size (bp)	Molarity (nmole/L)	From (bp)	To (bp)	Avg. Size (bp)	CV%	RFU	Corr. Peak Area
1	1 (LM)	12.442	0	20	2	173.82	1008	6.335
2	100	0.871	86	124	99	1.04	733	2.941
3	200	0.461	189	229	199	0.73	866	3.107
4	300	0.310	288	331	300	0.52	928	3.138
5	400	0.237	385	416	399	0.41	978	3.189
6	500	0.508	479	525	499	0.41	2686	8.560
7	600	0.141	525	642	599	0.56	893	2.845
8	700	0.118	684	723	699	0.57	853	2.774
9	800	0.110	776	872	800	1.44	851	2.952
10	900	0.097	872	966	900	1.18	855	2.932
11	1000	0.249	966	1149	999	1.93	2492	8.397
12	1200	0.081	1149	1324	1196	1.83	940	3.276
13	1500	0.069	1324	1798	1494	3.92	929	3.496
14	2000	0.052	1798	2643	2023	6.71	898	3.524
15	3000	0.035	2757	4201	3032	6.51	932	3.541
16	6000 (UM)	0.001	5686	6935	6013	2.52	726	2.820

TIC:	0.9860	ng/uL
TIM:	3.338	nmole/L
Total Conc.:	0.9960	ng/uL