

## Instrument controller software run summary:

**Filename and data path:** C:\Agilent Technologies\Data\2021 10 26\13-56-20\2021 10 26 13H 56M.raw

**Created:** Tuesday, October 26, 2021 2:21:46 PM

**Number of capillaries:** 25

**Array serial number:** 022621-27SFS

**Effect length:** 33 cm

**Array usage count:** 30

**Instrument type:** 5300 Fragment Analyzer

**Instrument controller software version:** 3.1.0.12

**Device serial number:** MY2105AB19

## Method Information

**Method name:** DNF-471E33 - SS Total RNA 15nt Extended.mthds

**Gel prime:** No

**Full conditioning:** Yes

**Gel prime to buffer:** Yes

**Gel selection:** Gel 2

**Perform prerun:** 8.0 kV, 30 sec.

**Rinse:** No

**Marker 1:** No

**Rinse:** Tray: 3, Row: A, Dip count: 2

**Sample injection:** 5.0 kV, 6 sec.

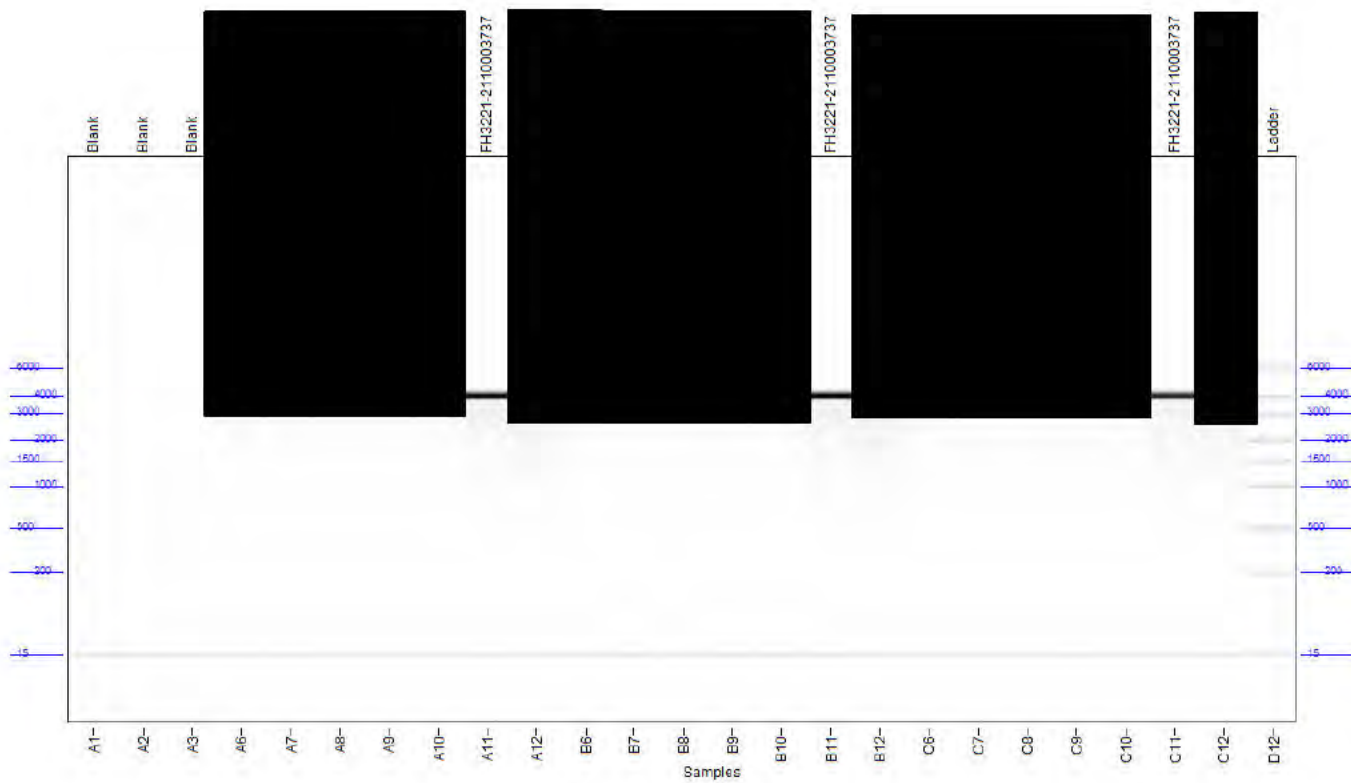
**Separation:** 8.0 kV, 60.0 min.

**Tray name:** Tray-1

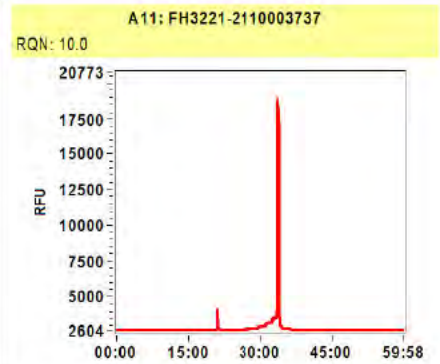
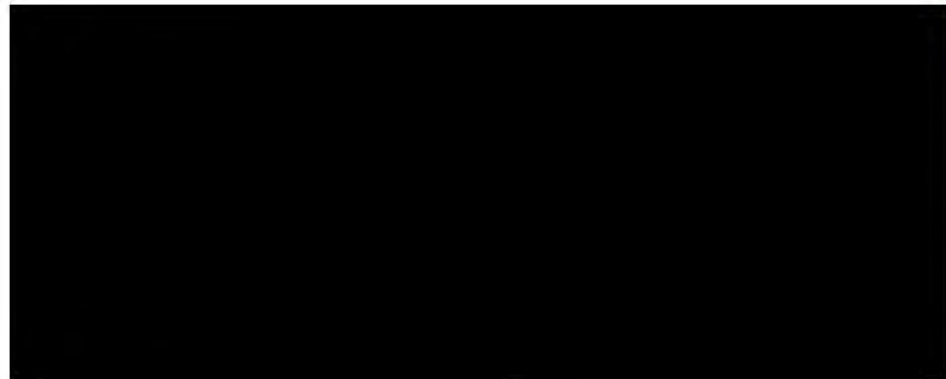
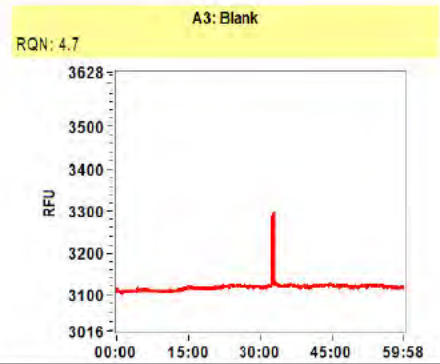
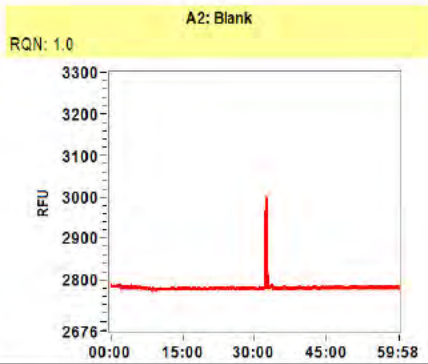
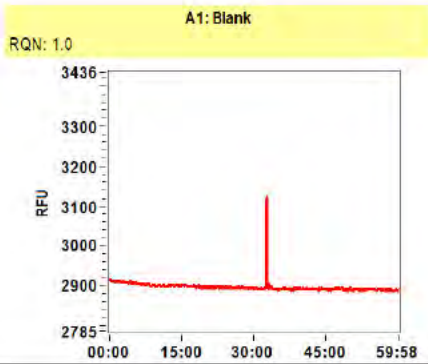
**Analysis mode:** RNA (Eukaryotic)

## Notes

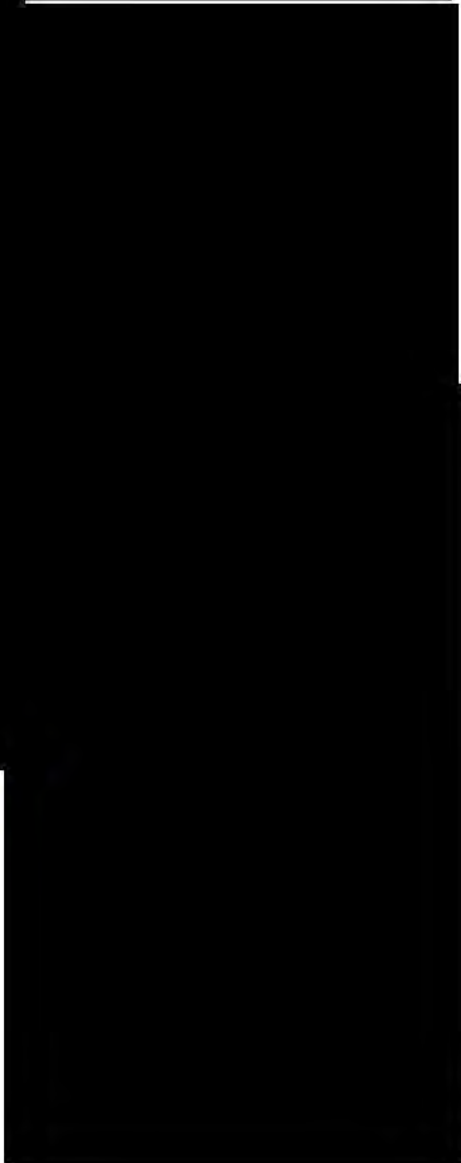
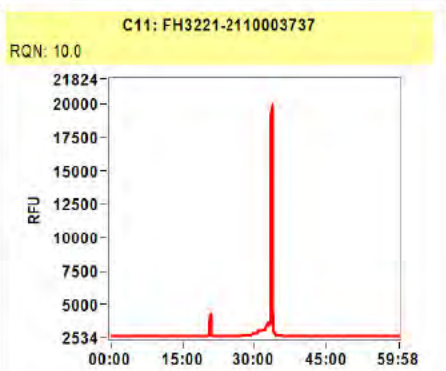
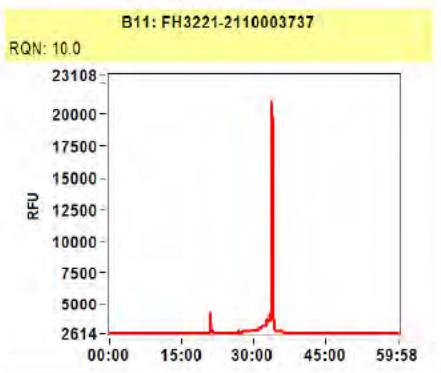
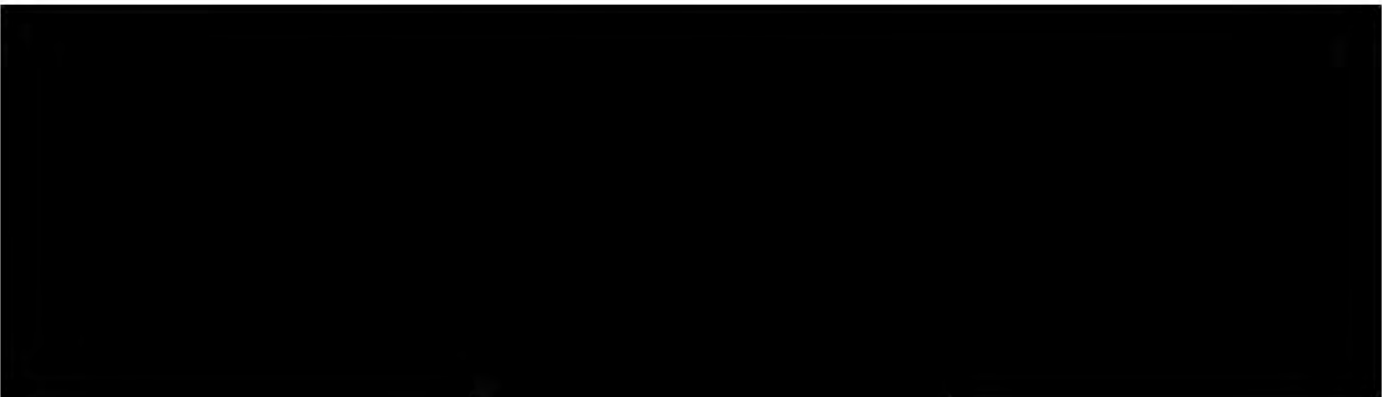
### Gel Image



Filename and data path: C:\Agilent Technologies\Data\2021 10 26\13-56-20\2021 10 26 13H 56M.raw

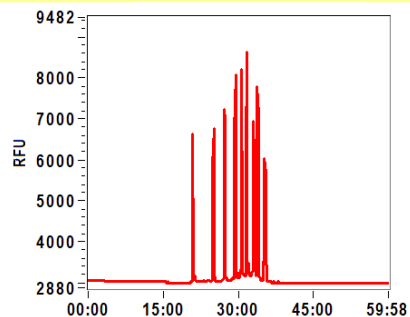


Filename and data path: C:\Agilent Technologies\Data\2021 10 26\13-56-20\2021 10 26 13H 56M.raw

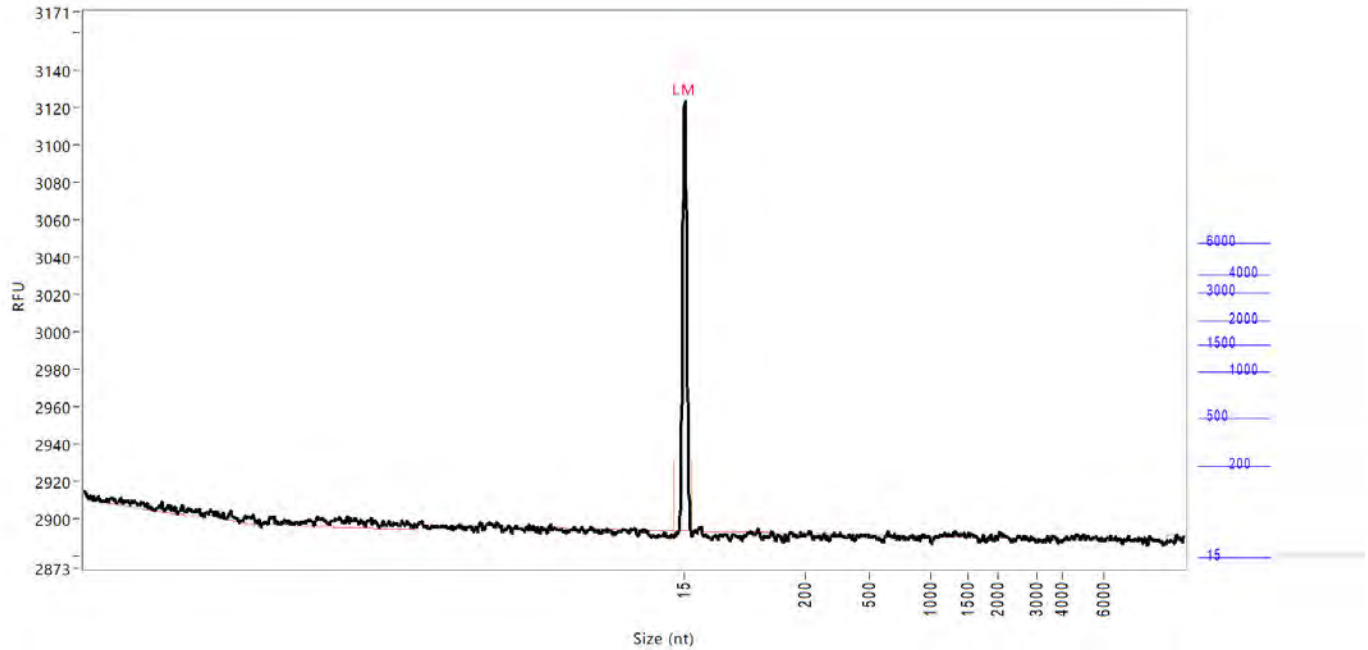


Filename and data path: C:\Agilent Technologies\Data\2021 10 26\13-56-20\2021 10 26 13H 56M.raw

D12: Ladder



**Sample:** Blank  
**Well location:** A1  
**Created:** Tuesday, October 26, 2021 2:21:46 PM

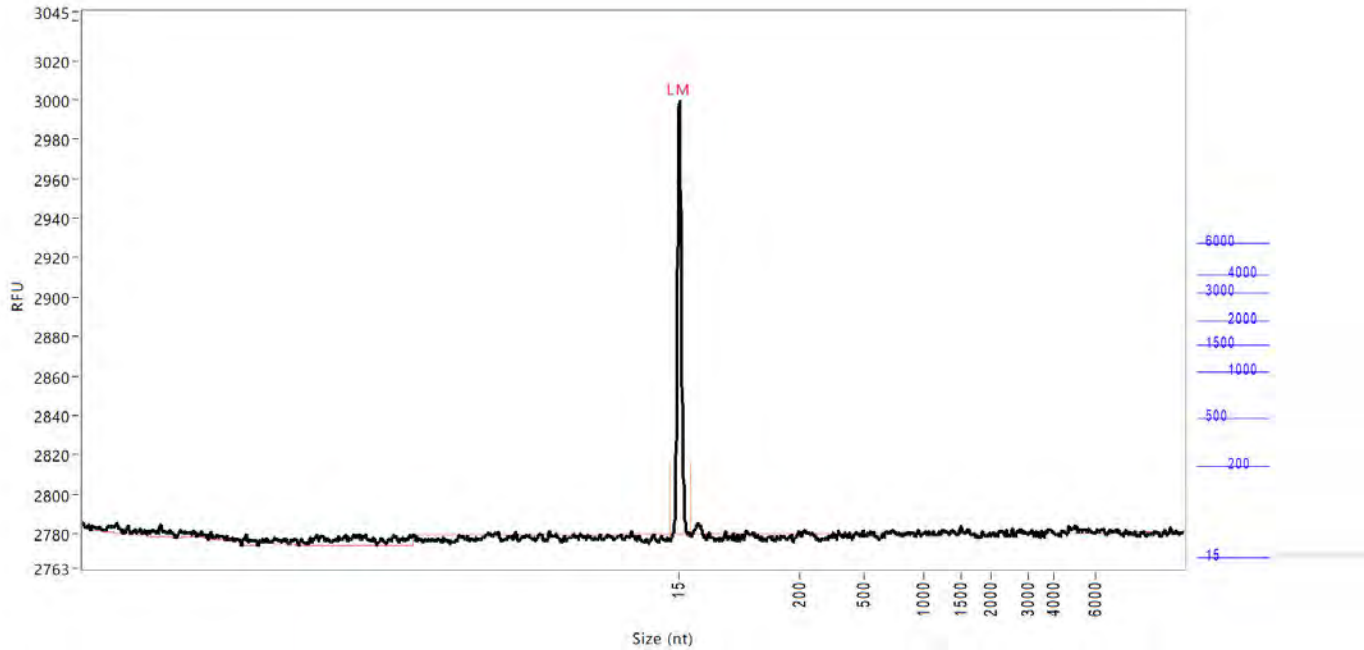


Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU
1	15 (LM)	0.6860	0	26	228
TIC:		0.0000	ng/uL		
TIM:		0.0000	nmole/L		
Total concentration:		0.0282	ng/uL		
28s/18s:		0.0			
RQN		1.0			

Smear Analysis	Size Range	Concentration	%Total	Concentration	Avg. Size (nt)	%CV
	3700 nt to 4800 nt	0.0051 ng/ul	18.2 %Total	0.0034 nmole/L	4725 Avg. Size (nt)	0.80 %CV
	4800 nt to 13000 nt	0.0103 ng/ul	36.4 %Total	0.0050 nmole/L	6366 Avg. Size (nt)	23.49 %CV

Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3  
 Sample filter: Binomial    Number of points for filter: 9    Sample start region (min): 0    Sample end region (min): 60  
 Manual baseline start (min): 18    Manual baseline end (min): 59  
 Marker peak width (sec): 6    Marker min peak height: 100    Marker baseline V to V?: Y    Marker baseline V to V points: 3  
 Lower marker selection: First peak > 100 RFU    Upper marker selection: Last peak > 100 RFU  
 Ladder size (nt) 15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000  
 Quantification using: Ladder    Final concentration (ng/uL): 8.0000    Dilution factor: 12.0  
 Minimum RFU for data processing: 2

**Sample:** Blank  
**Well location:** A2  
**Created:** Tuesday, October 26, 2021 2:21:46 PM

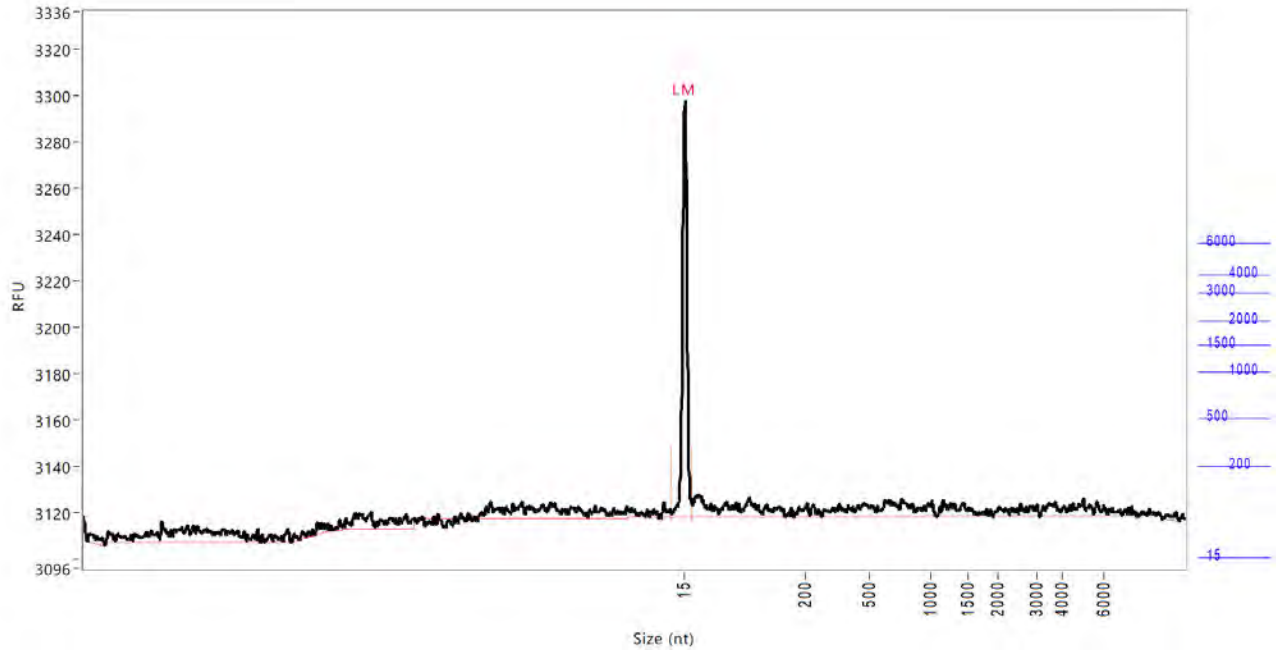


Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU
1	15 (LM)	0.6860	1	34	218
TIC:		0.0000	ng/uL		
TIM:		0.0000	nmole/L		
Total concentration:		0.1578	ng/uL		
28s/18s:		0.0			
RQN		1.0			

Smear Analysis	Size Range	Concentration	%Total	Concentration	Avg. Size (nt)	%CV
	3700 nt to 4800 nt	0.0074 ng/uL	4.7 %Total	0.0048 nmole/L	4746 Avg. Size (nt)	0.34 %CV
	4800 nt to 13000 nt	0.0297 ng/uL	18.8 %Total	0.0140 nmole/L	6618 Avg. Size (nt)	33.15 %CV

Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3  
 Sample filter: Binomial    Number of points for filter: 9    Sample start region (min): 0    Sample end region (min): 60  
 Manual baseline start (min): 18    Manual baseline end (min): 59  
 Marker peak width (sec): 6    Marker min peak height: 100    Marker baseline V to V?: Y    Marker baseline V to V points: 3  
 Lower marker selection: First peak > 100 RFU    Upper marker selection: Last peak > 100 RFU  
 Ladder size (nt) 15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000  
 Quantification using: Ladder    Final concentration (ng/uL): 8.0000    Dilution factor: 12.0  
 Minimum RFU for data processing: 2

**Sample:** Blank  
**Well location:** A3  
**Created:** Tuesday, October 26, 2021 2:21:46 PM

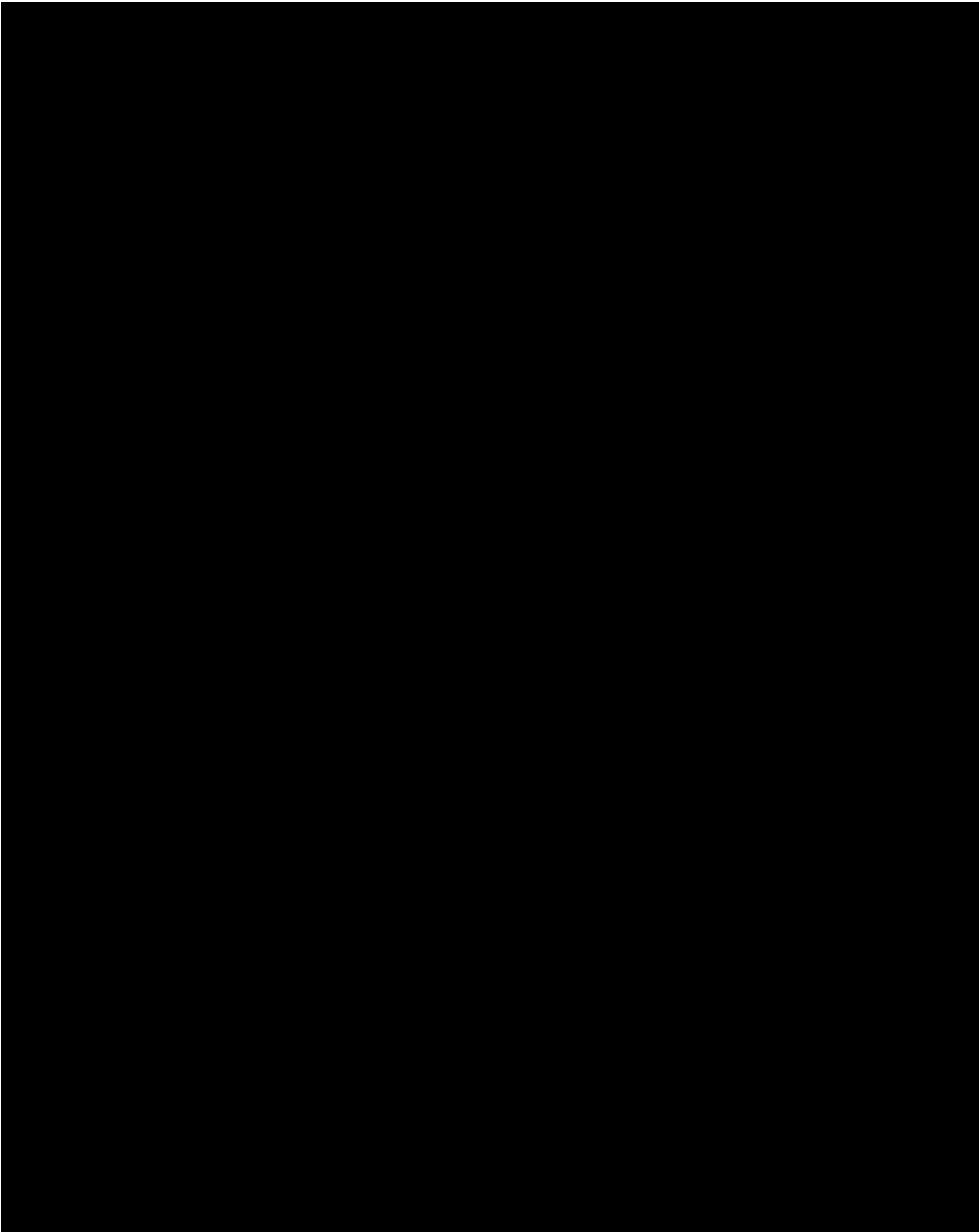


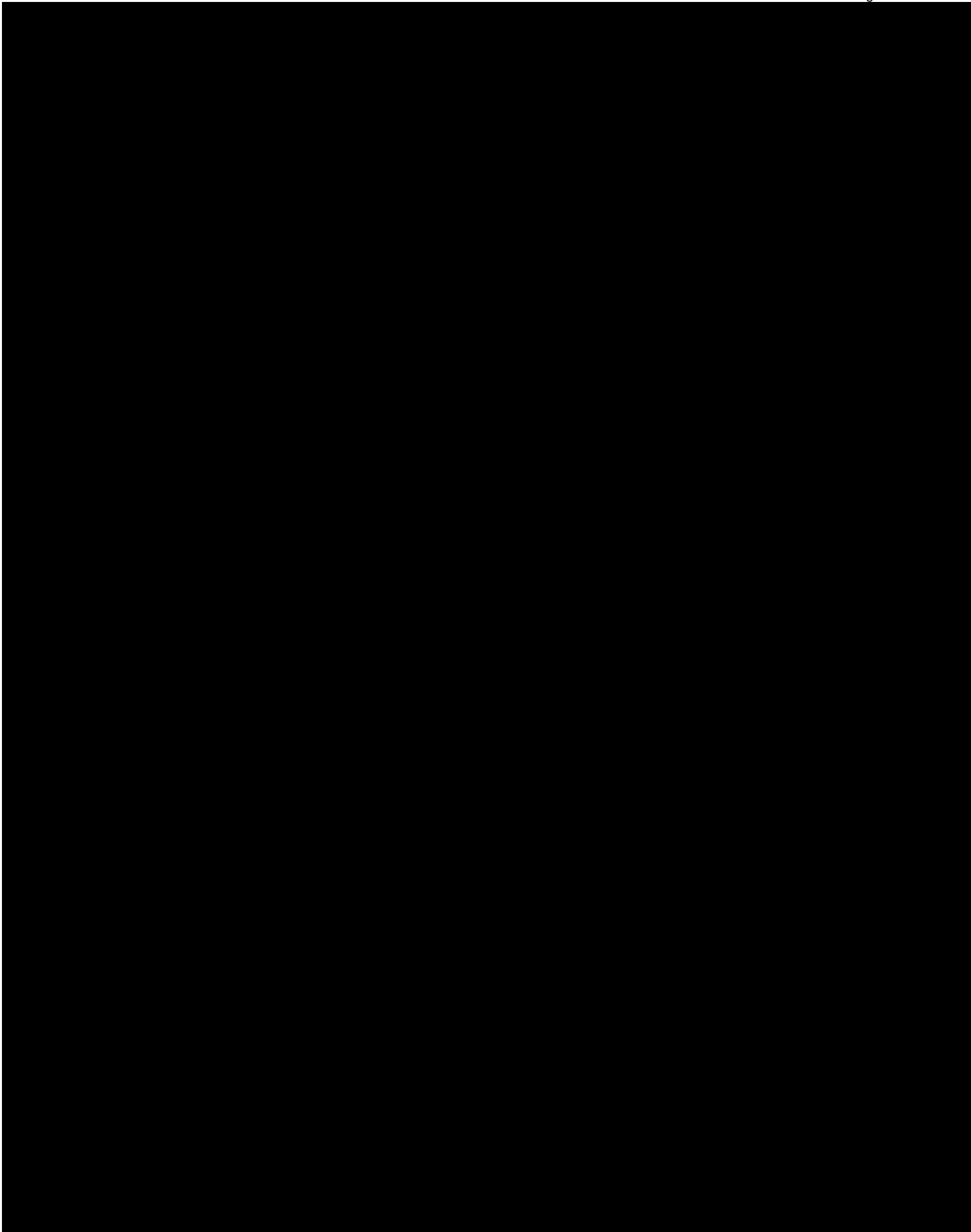
Peak	Size	Concentration	From	To	RFU
	(nt)	(ng/uL)	(nt)	(nt)	
1	15 (LM)	0.6860	0	28	178
	TIC:	0.0000	ng/uL		
	TIM:	0.0000	nmole/L		
	Total concentration:	5.0747	ng/uL		
	28s/18s:	0.0			
	RQN	4.7			

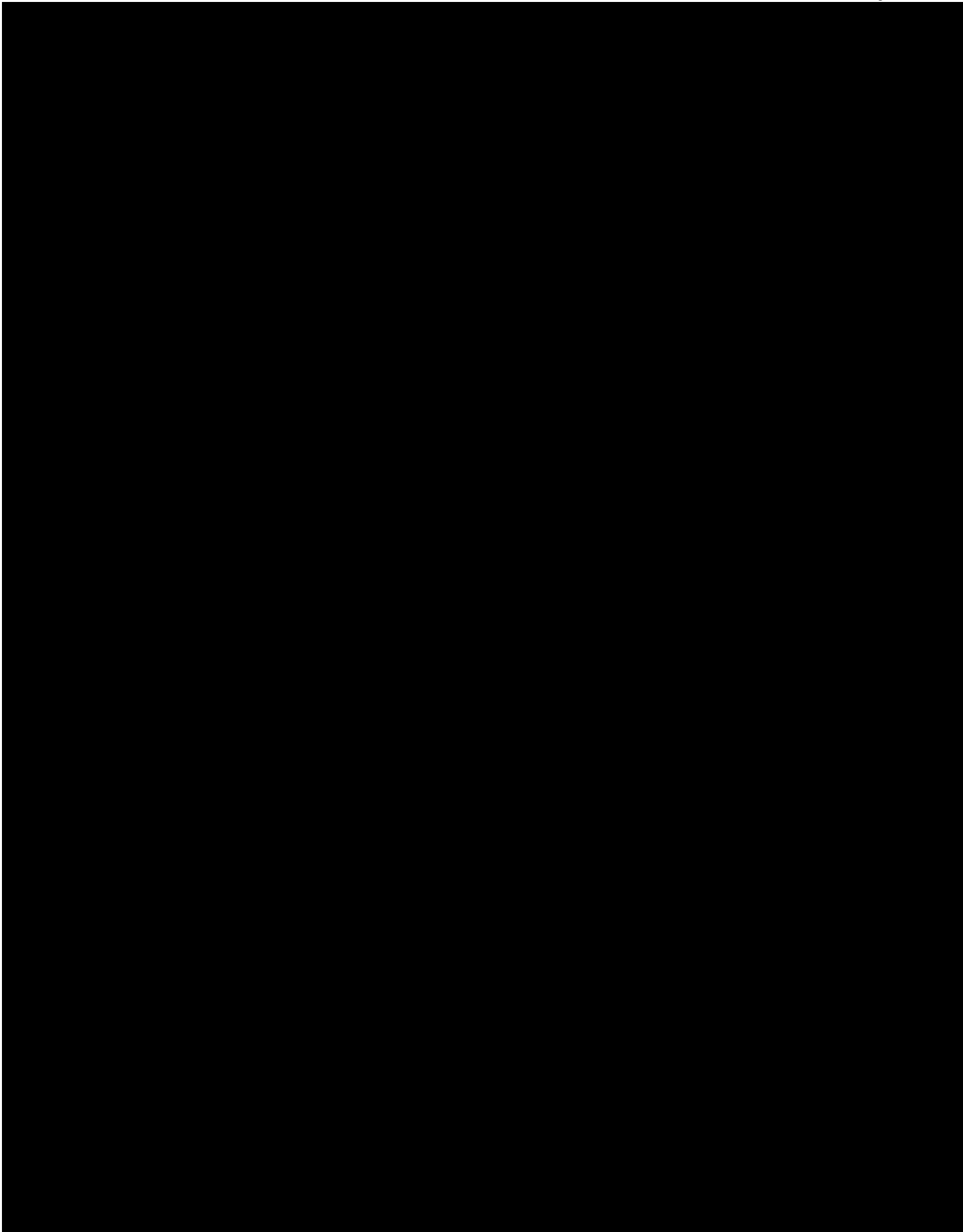
Smear Analysis	3700 nt to 4800 nt	0.1751 ng/ul	3.5 %Total	0.1294 nmole/L	4223 Avg. Size (nt)	8.67 %CV
	4800 nt to 13000 nt	0.3204 ng/ul	6.3 %Total	0.1735 nmole/L	5760 Avg. Size (nt)	19.60 %CV

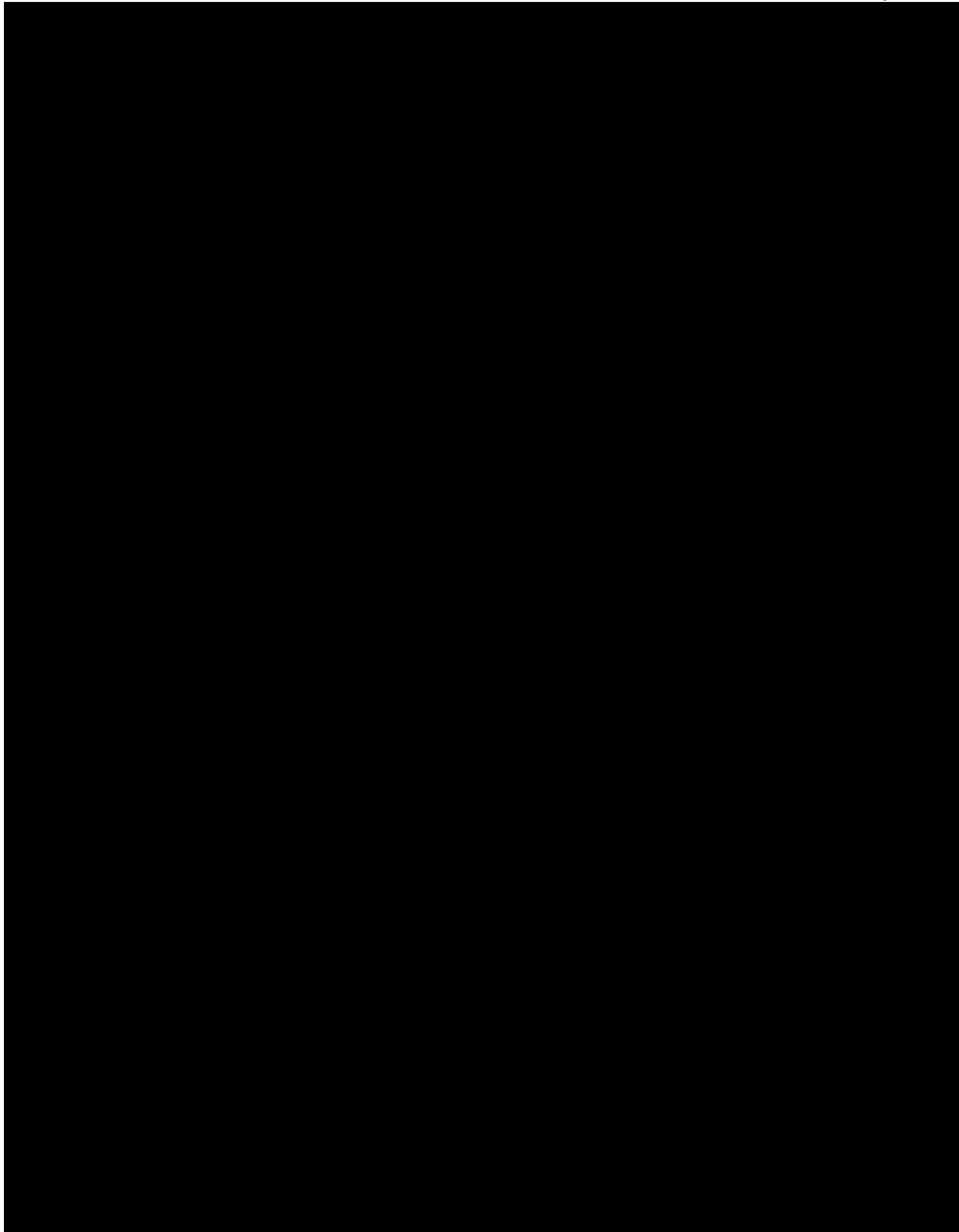
Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3  
 Sample filter: Binomial    Number of points for filter: 9    Sample start region (min): 0    Sample end region (min): 60  
 Manual baseline start (min): 18    Manual baseline end (min): 59  
 Marker peak width (sec): 6    Marker min peak height: 100    Marker baseline V to V?: Y    Marker baseline V to V points: 3  
 Lower marker selection: First peak > 100 RFU    Upper marker selection: Last peak > 100 RFU  
 Ladder size (nt) 15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000  
 Quantification using: Ladder    Final concentration (ng/uL): 8.0000    Dilution factor: 12.0  
 Minimum RFU for data processing: 2

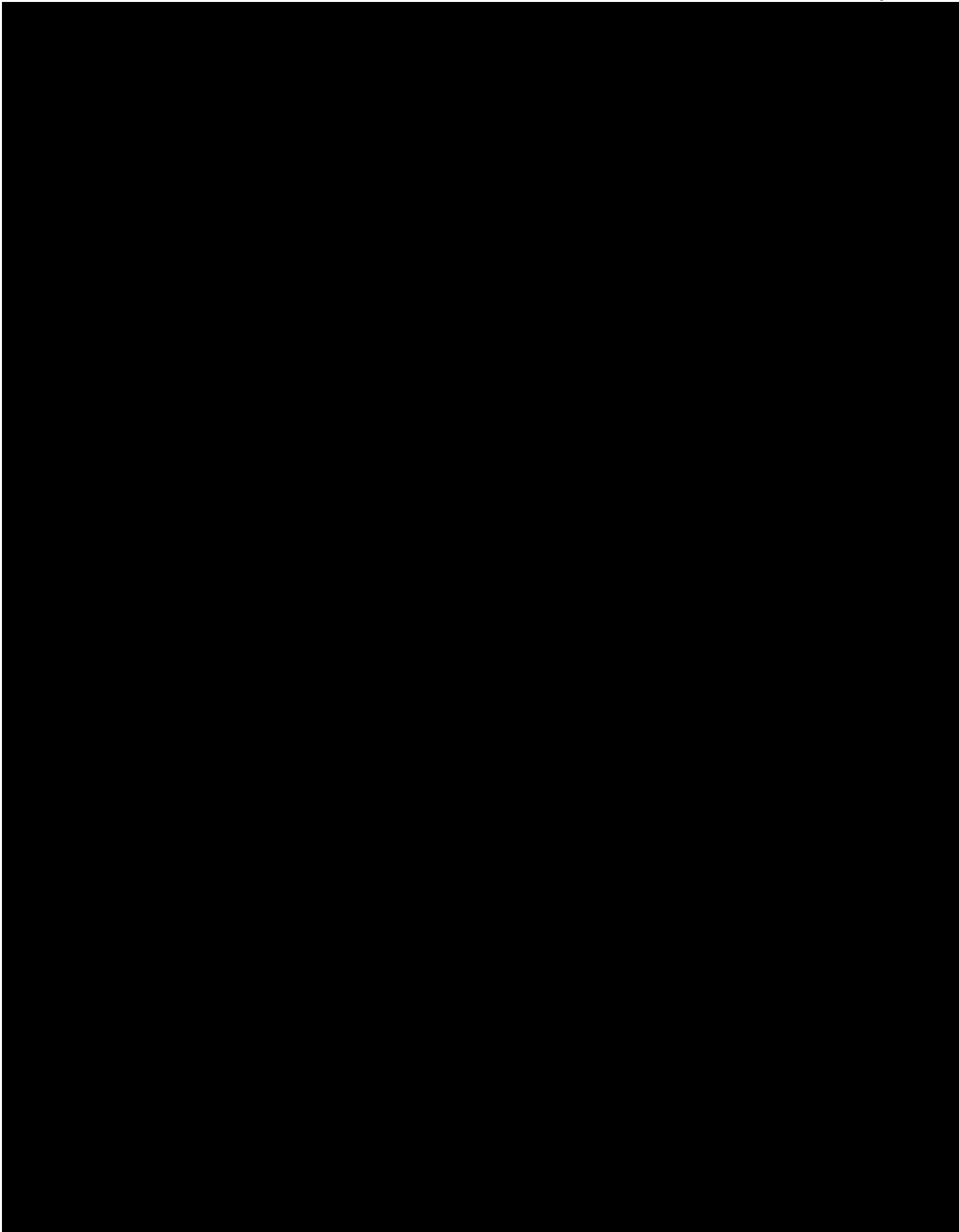




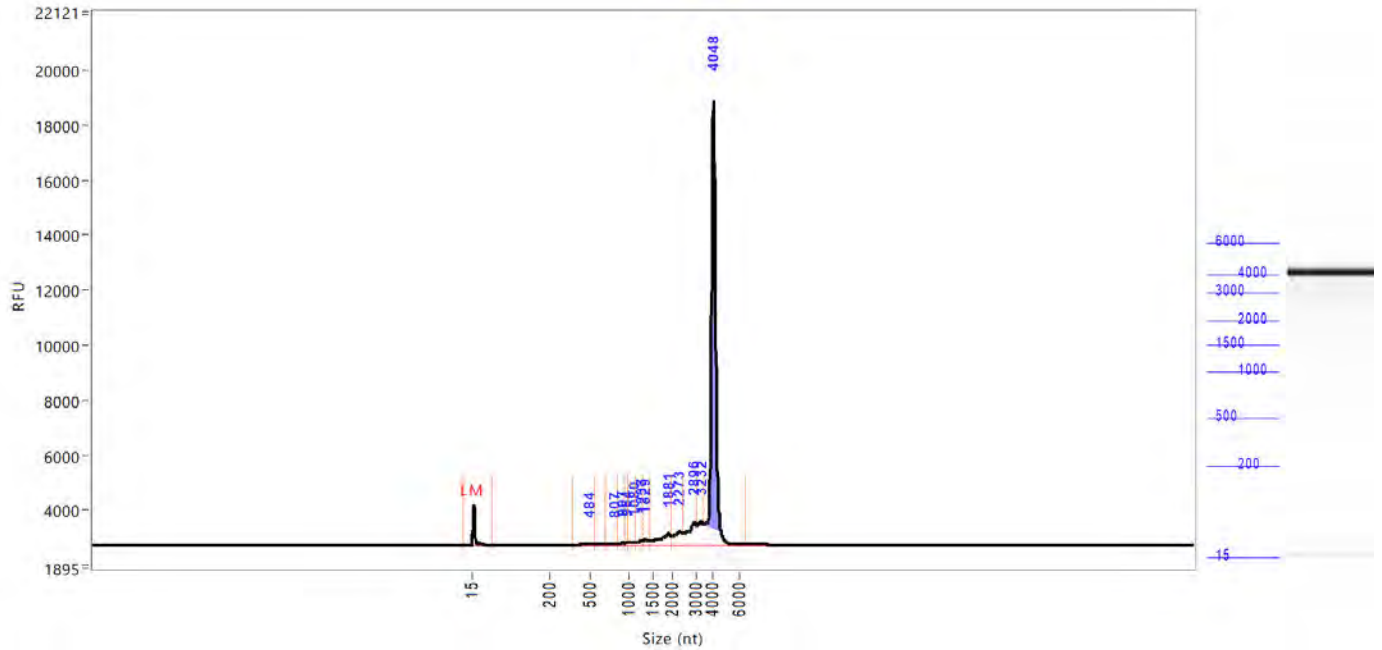








**Sample:** FH3221-2110003737  
**Well location:** A11  
**Created:** Tuesday, October 26, 2021 2:21:46 PM



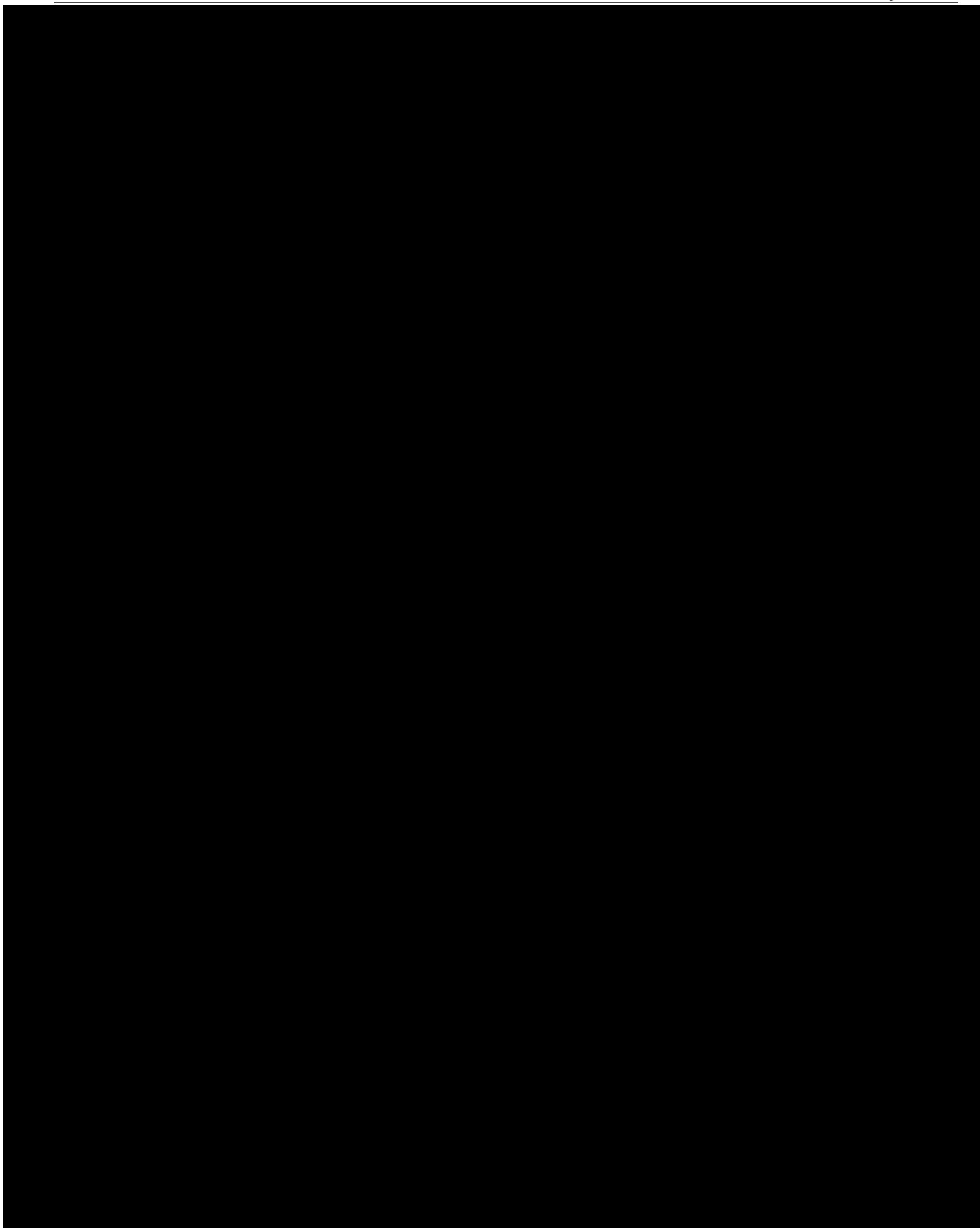
Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU
1	15 (LM)	0.6860	0	60	1442
2	484	1.1713	370	541	58
3	807	0.9490	694	839	62
4	907	0.8939	839	936	85
5	964	0.5424	936	988	84
6	1080	1.1970	988	1139	108
7	1237	1.3829	1139	1270	177
8	1329	2.2541	1270	1441	220
9	1881	8.3150	1441	1984	406
10	2273	6.5026	1984	2416	484
11	2896	12.0956	2416	3020	836
12	3232	7.5741	3020	3443	871
13	4048	114.2962	3443	6559	16170

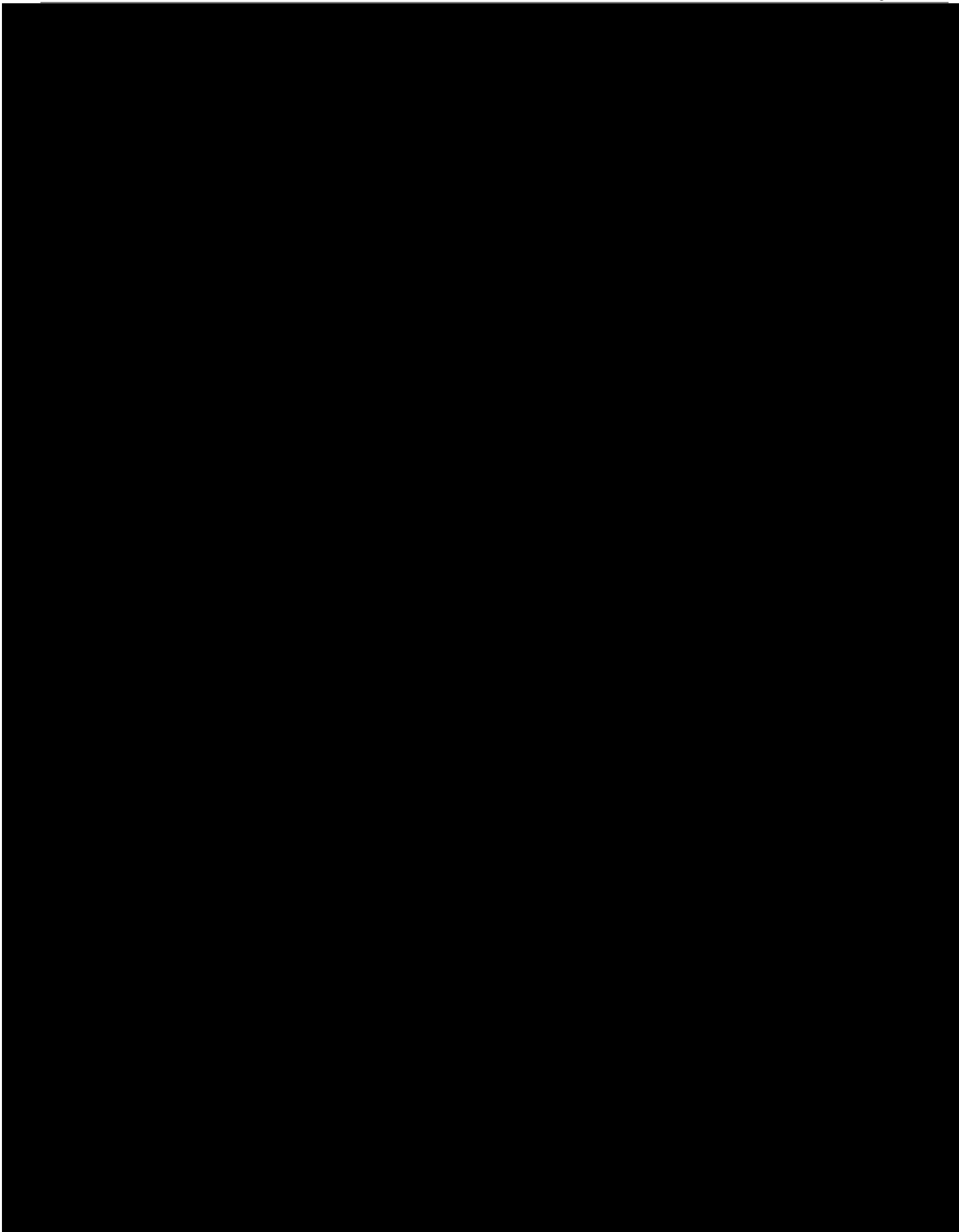
TIC: 157.1739 ng/uL  
 TIM: 161.6770 nmole/L  
 Total concentration: 159 8168 ng/uL

28s/18s: 122.9  
 RQN: 10.0

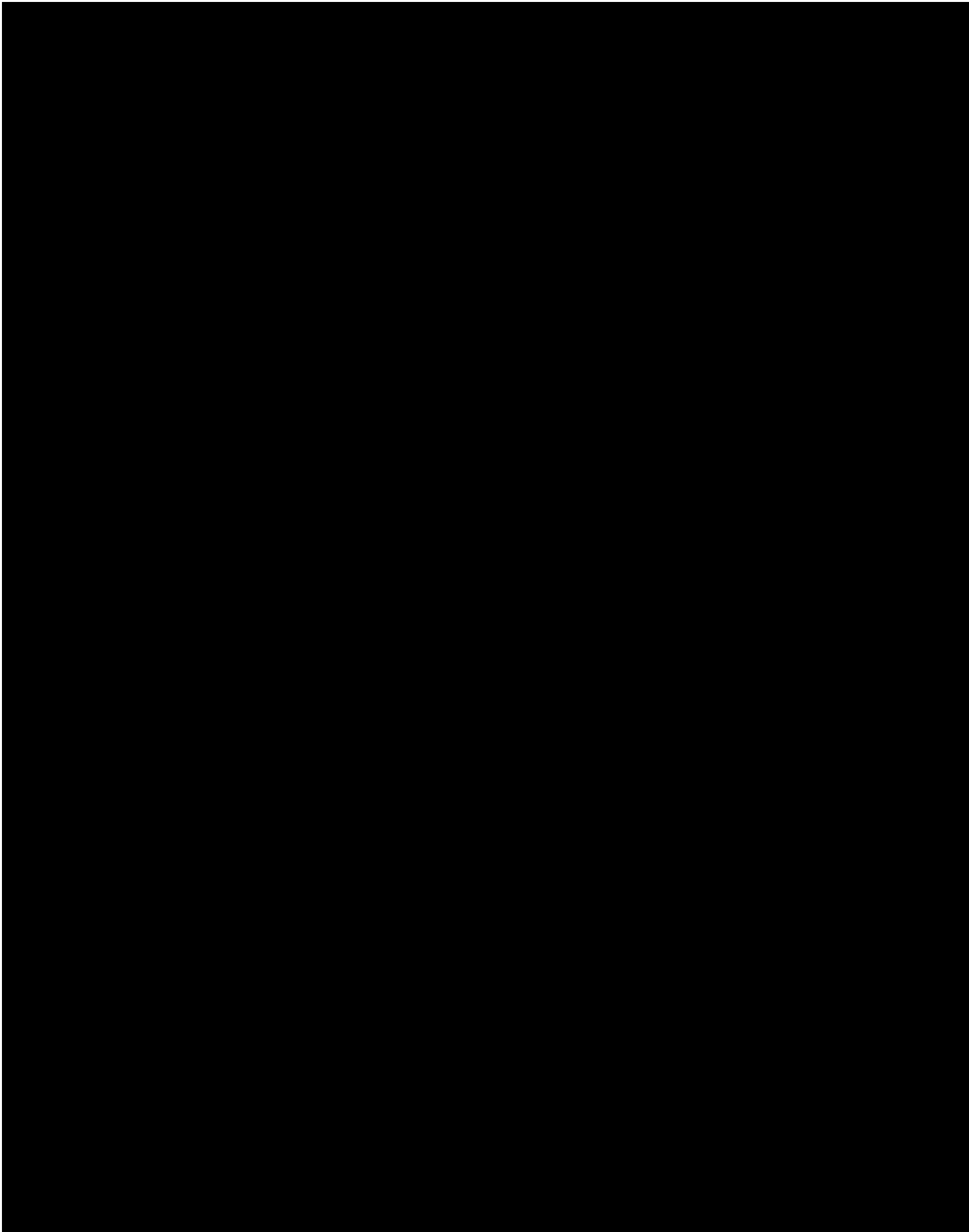
Smear Analysis  
 3700 nt to 4800 nt 107.7596 ng/ul 67.4 %Total 82.7493 nmole/L 4063 Avg. Size (nt) 3.97 %CV  
 4800 nt to 13000 nt 3.5233 ng/ul 2.2 %Total 1.6534 nmole/L 6648 Avg. Size (nt) 25.21 %CV

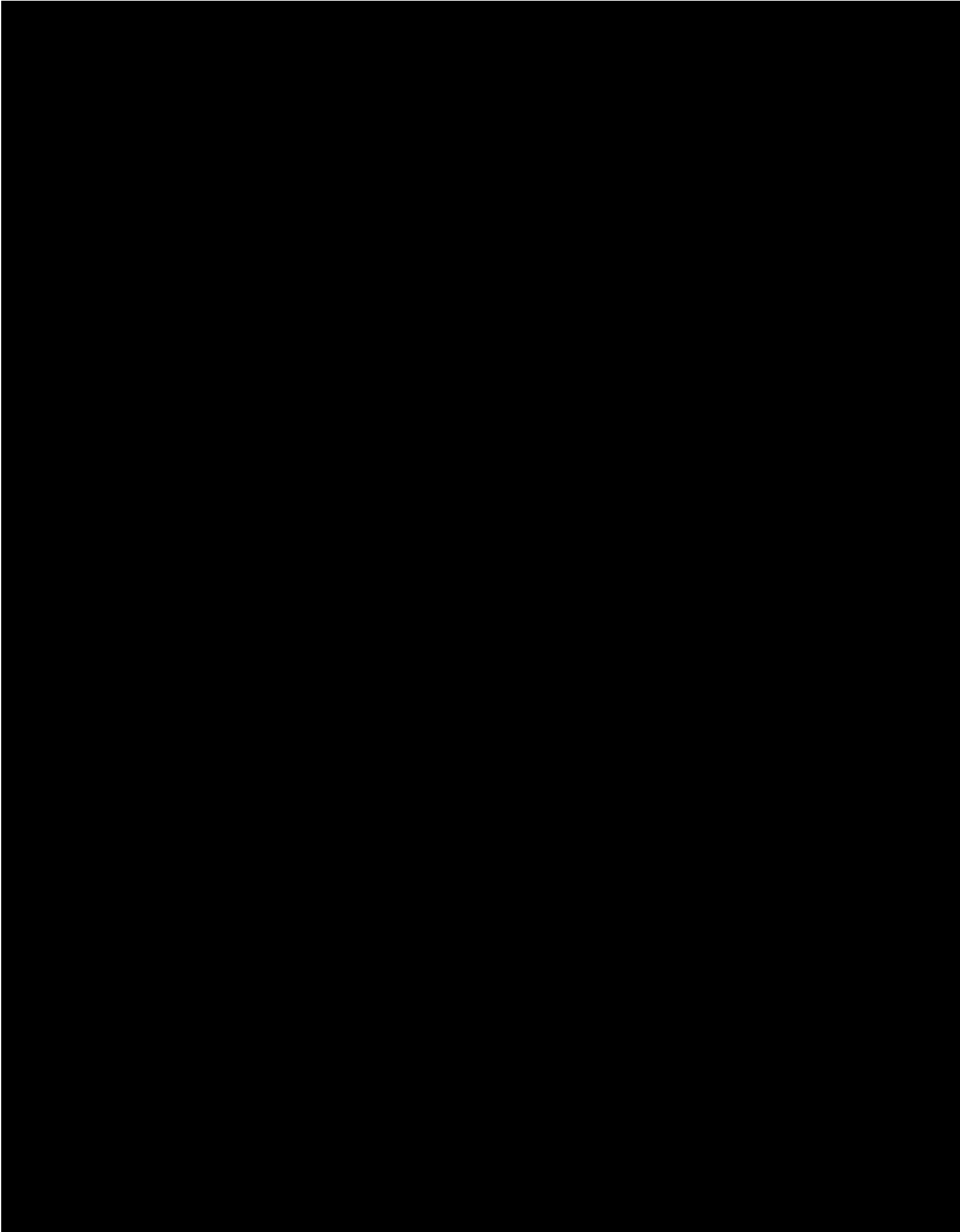
Sample peak width (sec): 6 Sample min peak height: 50 Sample baseline V to V?: N Sample baseline V to V points: 3  
 Sample filter: Binomial Number of points for filter: 9 Sample start region (min): 0 Sample end region (min): 60  
 Manual baseline start (min): 18 Manual baseline end (min): 59  
 Marker peak width (sec): 6 Marker min peak height: 100 Marker baseline V to V?: Y Marker baseline V to V points: 3  
 Lower marker selection: First peak > 100 RFU Upper marker selection: Last peak > 100 RFU  
 Ladder size (nt) 15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000  
 Quantification using: Ladder Final concentration (ng/uL): 8.0000 Dilution factor: 12.0  
 Minimum RFU for data processing: 2

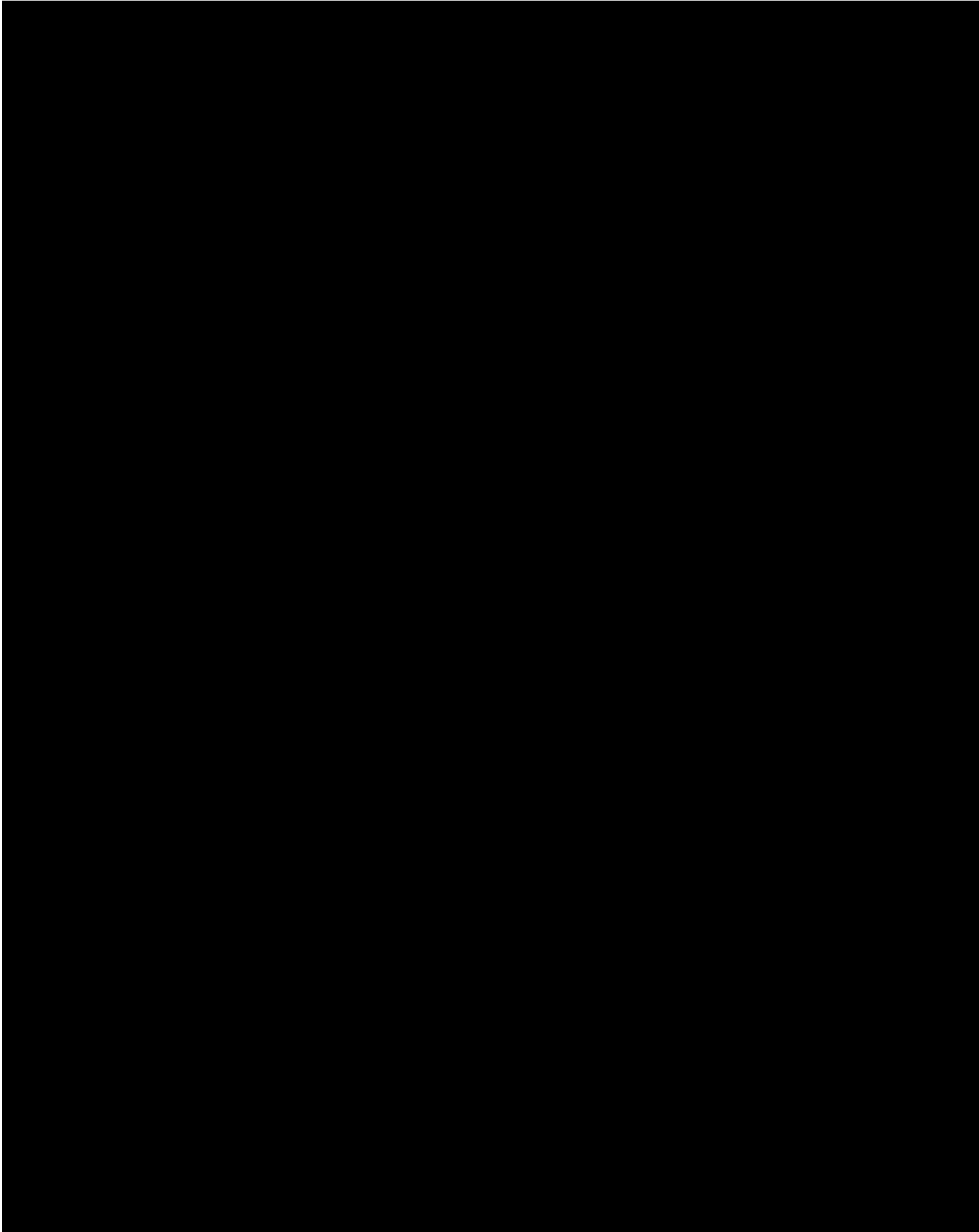


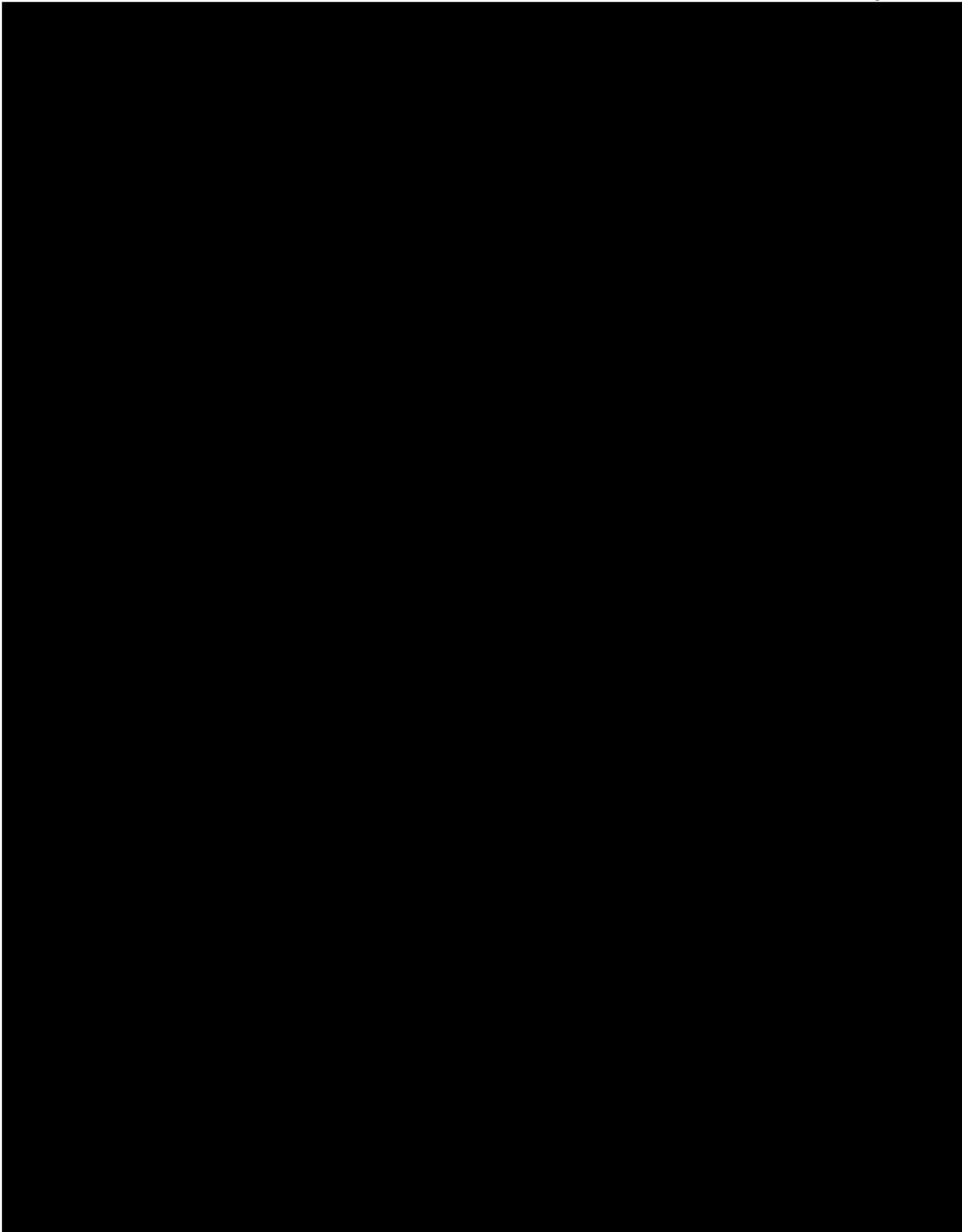








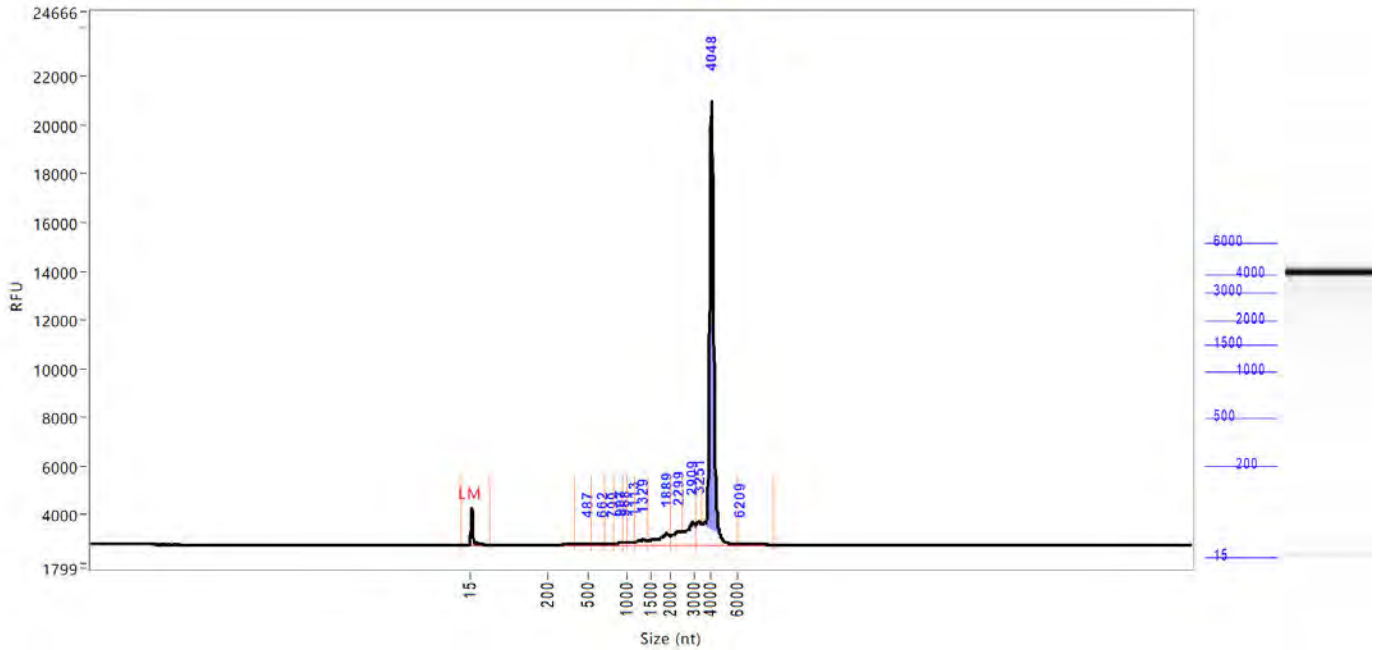




**Sample:** FH3221-2110003737

**Well location:** B11

**Created:** Tuesday, October 26, 2021 2:21:46 PM



Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU
1	15 (LM)	0.6860	0	60	1532
2	487	1.0144	394	533	63
3	662	0.8774	533	698	57
4	799	0.8759	698	827	67
5	907	1.0426	827	940	92
6	968	0.5495	940	992	91
7	1113	1.2814	992	1152	121
8	1329	3.7048	1152	1447	245
9	1889	8.8680	1447	1992	454
10	2299	7.9651	1992	2494	547
11	2909	11.9187	2494	3039	953
12	3251	7.7508	3039	3443	990
13	4048	119.5945	3443	6047	18272
14	6209	1.6188	6047	8769	60

TIC: 167.0618 ng/uL  
 TIM: 172.7587 nmole/L  
 Total concentration: 167.3147 ng/uL

28s/18s: 111.2  
 RQN 10.0

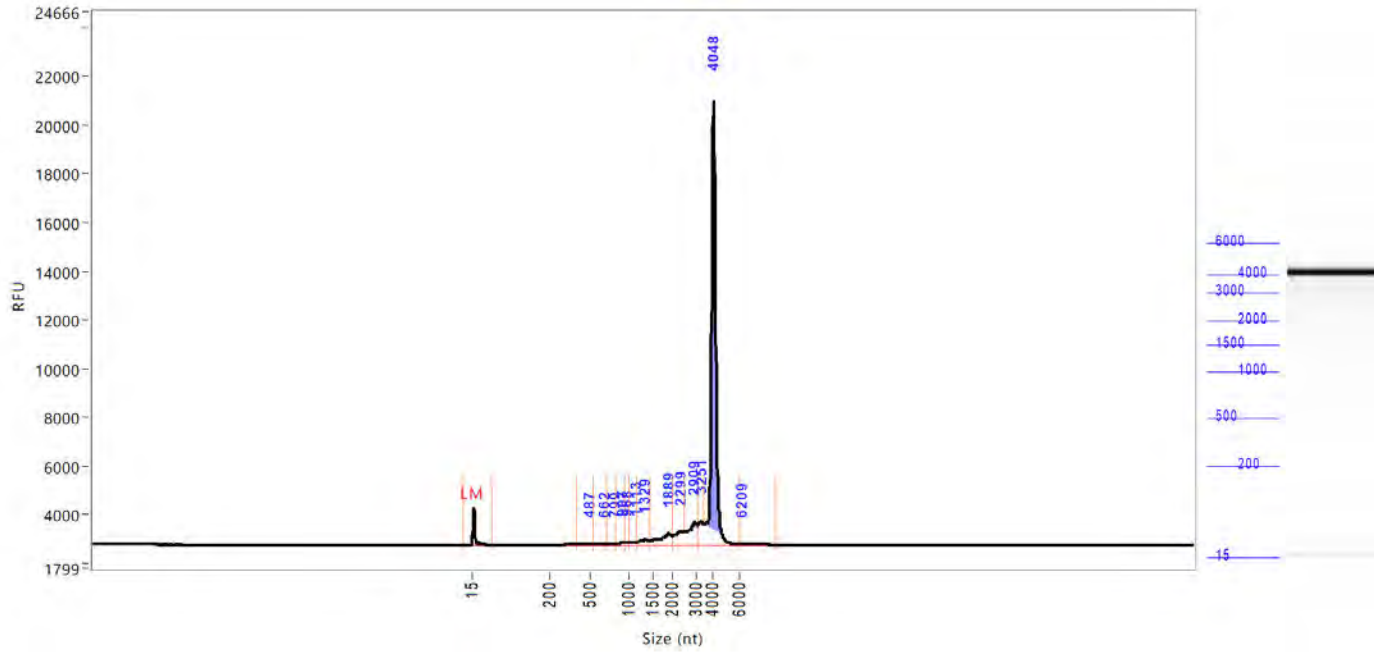
Smear Analysis 3700 nt to 4800 nt 112.8037 ng/ul 67.4 %Total 86.4948 nmole/L 4069 Avg. Size (nt) 3.99 %CV

Sample peak width (sec): 6 Sample min peak height: 50 Sample baseline V to V?: N Sample baseline V to V points: 3  
 Sample filter: Binomial Number of points for filter: 9 Sample start region (min): 0 Sample end region (min): 60  
 Manual baseline start (min): 18 Manual baseline end (min): 59  
 Marker peak width (sec): 6 Marker min peak height: 100 Marker baseline V to V?: Y Marker baseline V to V points: 3  
 Lower marker selection: First peak > 100 RFU Upper marker selection: Last peak > 100 RFU  
 Ladder size (nt) 15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000  
 Quantification using: Ladder Final concentration (ng/uL): 8.0000 Dilution factor: 12.0  
 Minimum RFU for data processing: 2

Sample: FH3221-2110003737

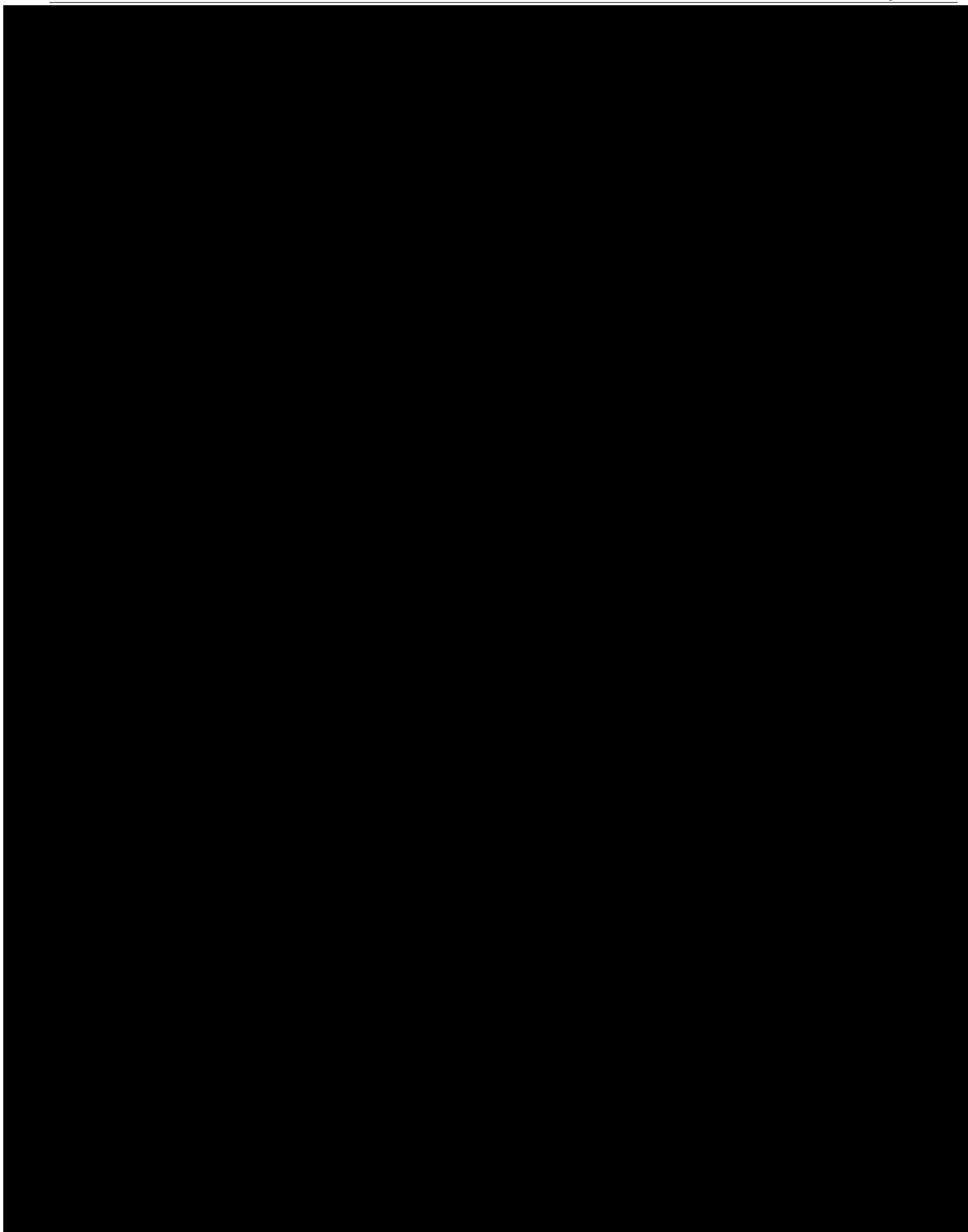
Well location: B11

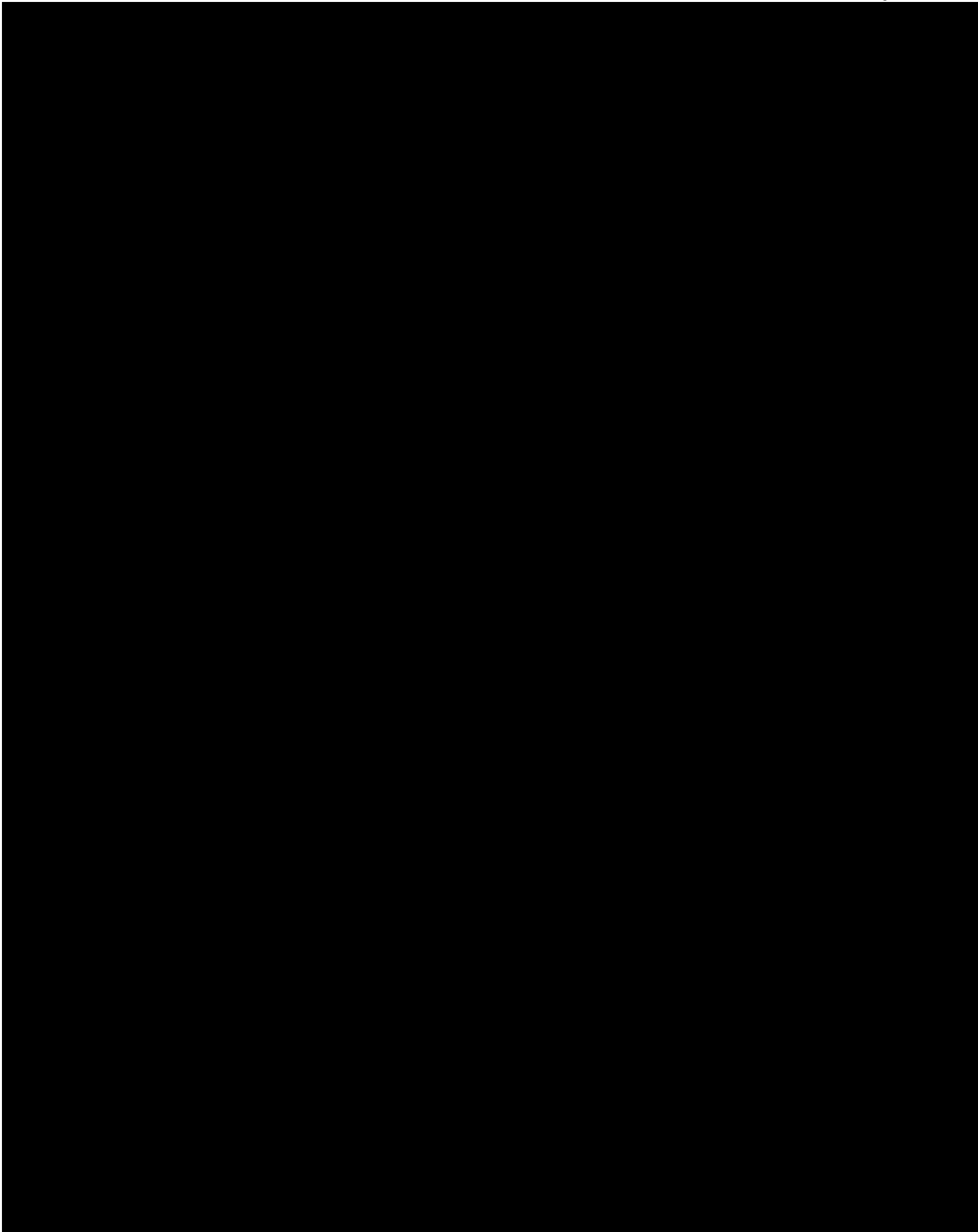
Created: Tuesday, October 26, 2021 2:21:46 PM



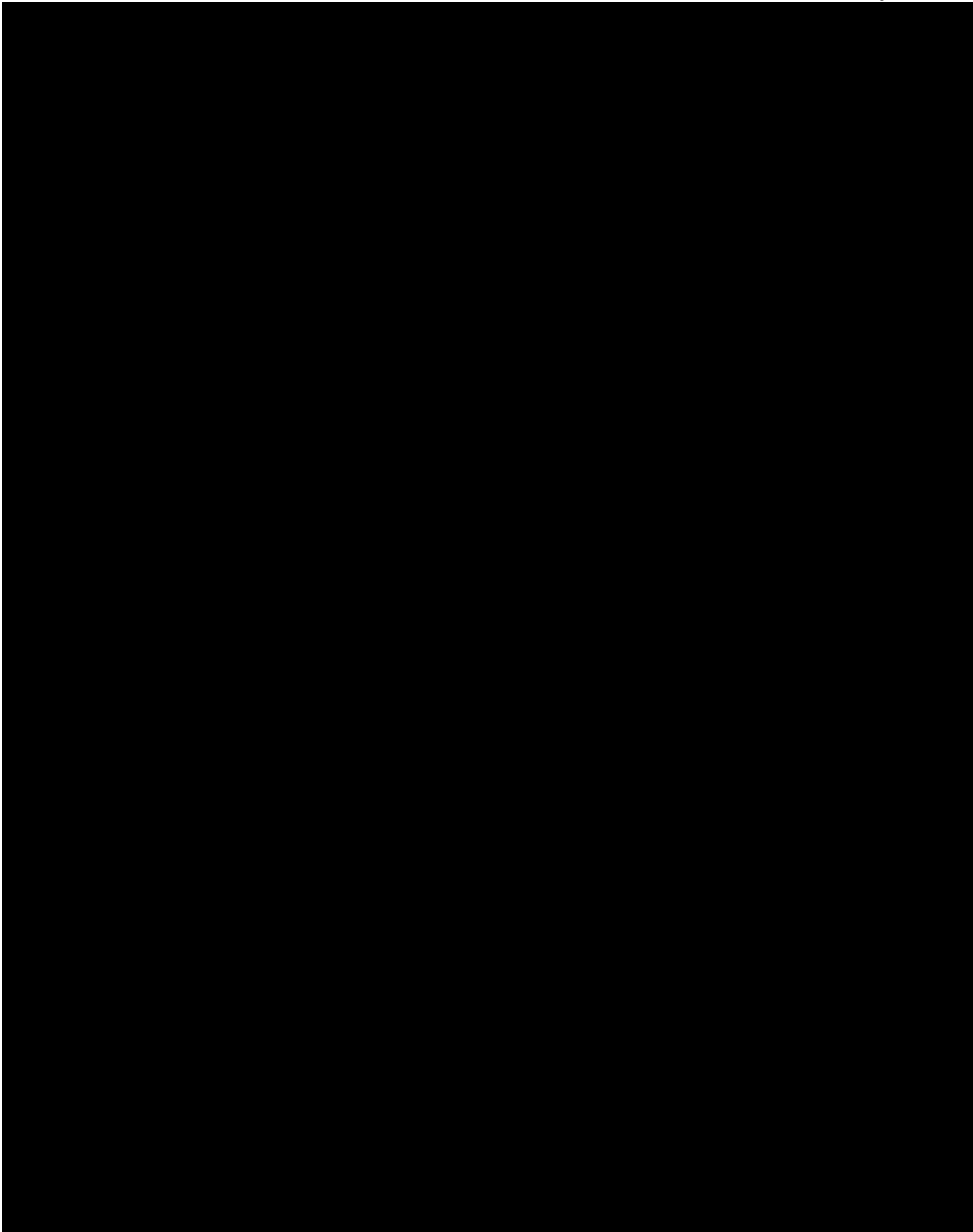
Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU		
	4800 nt to 13000 nt	3.8348 ng/uL		2.3 %Total	1.9179 nmole/L	6238 Avg. Size (nt)	20.91 %CV

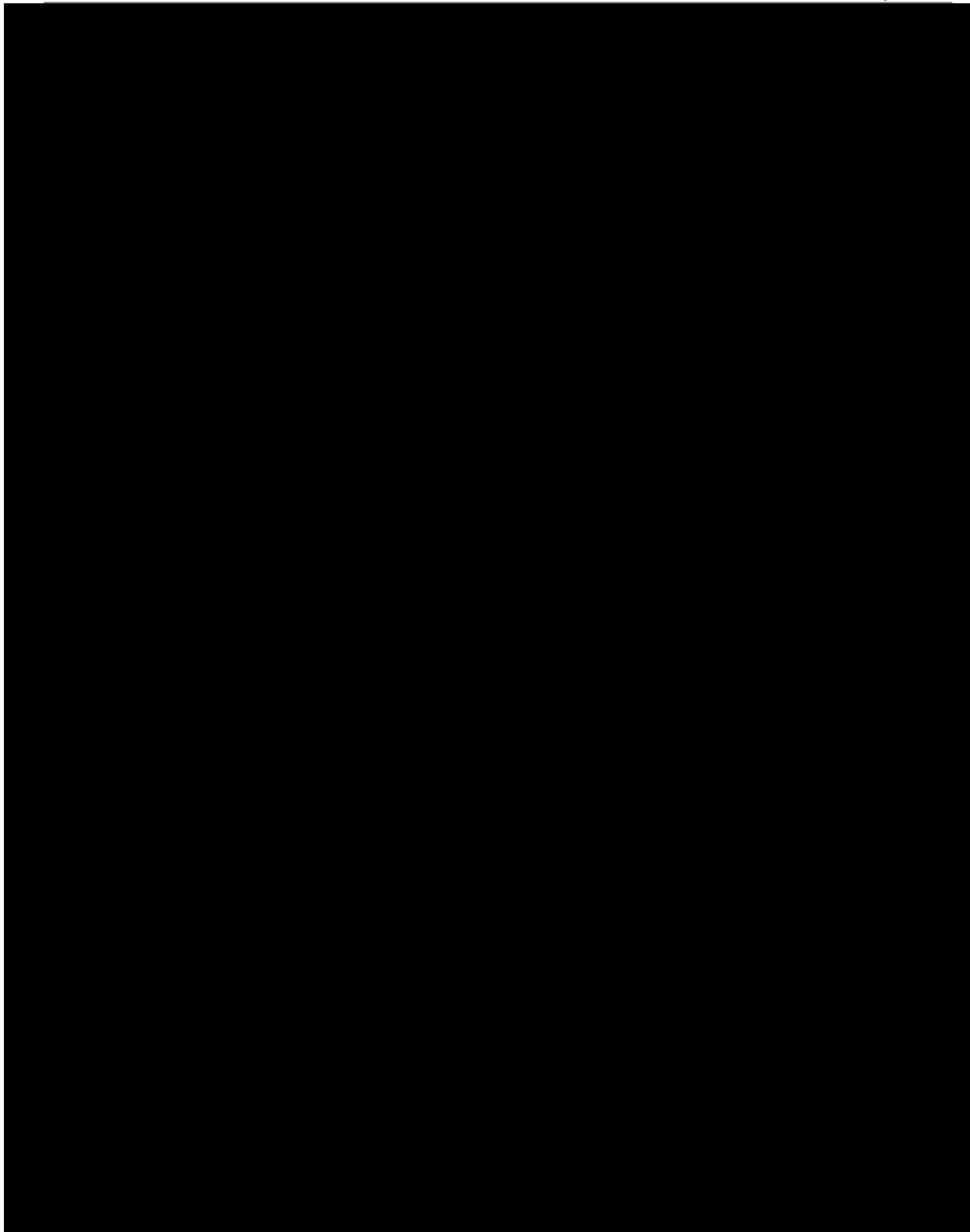
Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3  
 Sample filter: Binomial    Number of points for filter: 9    Sample start region (min): 0    Sample end region (min): 60  
 Manual baseline start (min): 18    Manual baseline end (min): 59  
 Marker peak width (sec): 6    Marker min peak height: 100    Marker baseline V to V?: Y    Marker baseline V to V points: 3  
 Lower marker selection: First peak > 100 RFU    Upper marker selection: Last peak > 100 RFU  
 Ladder size (nt) 15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000  
 Quantification using: Ladder    Final concentration (ng/uL): 8.0000    Dilution factor: 12.0  
 Minimum RFU for data processing: 2

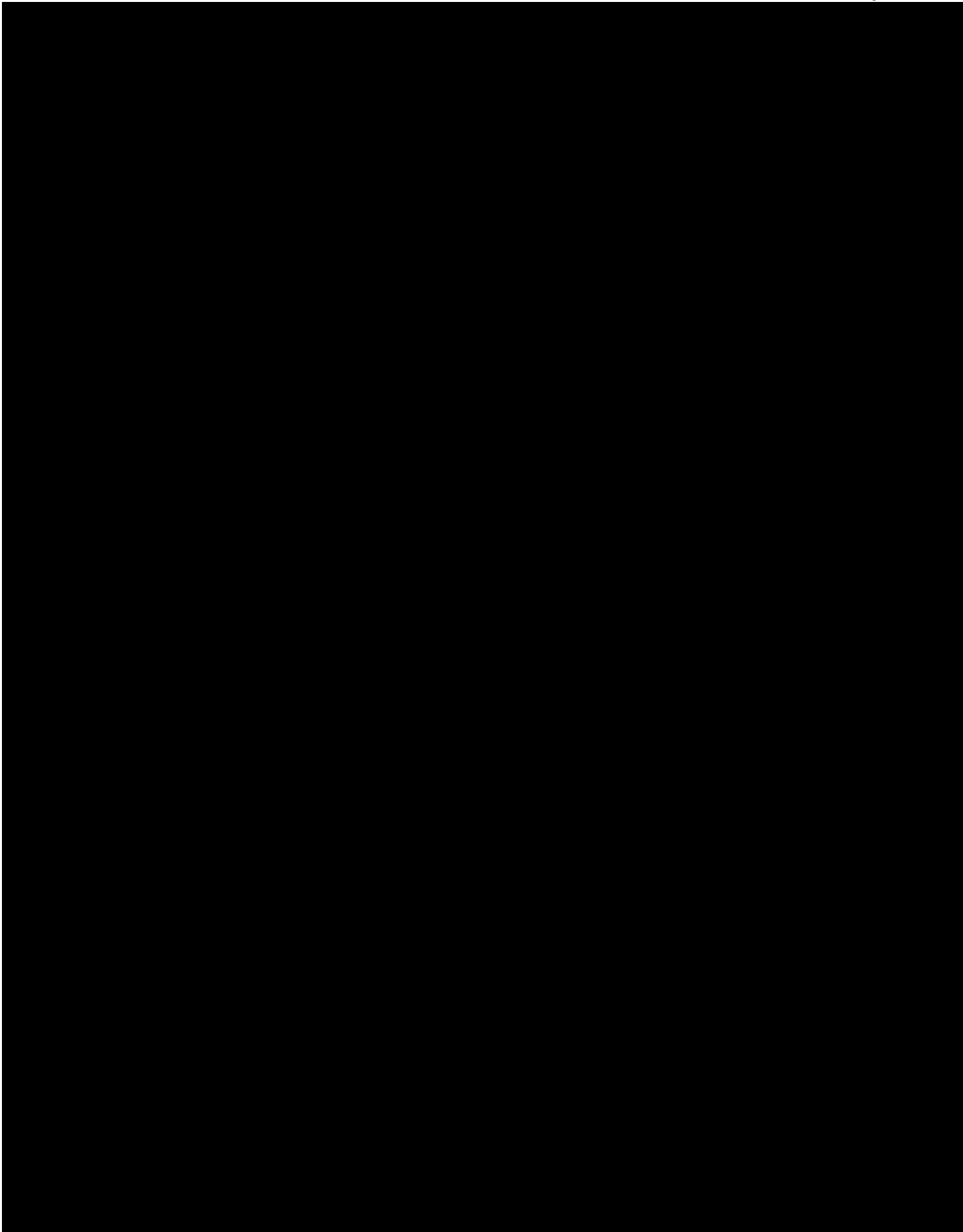


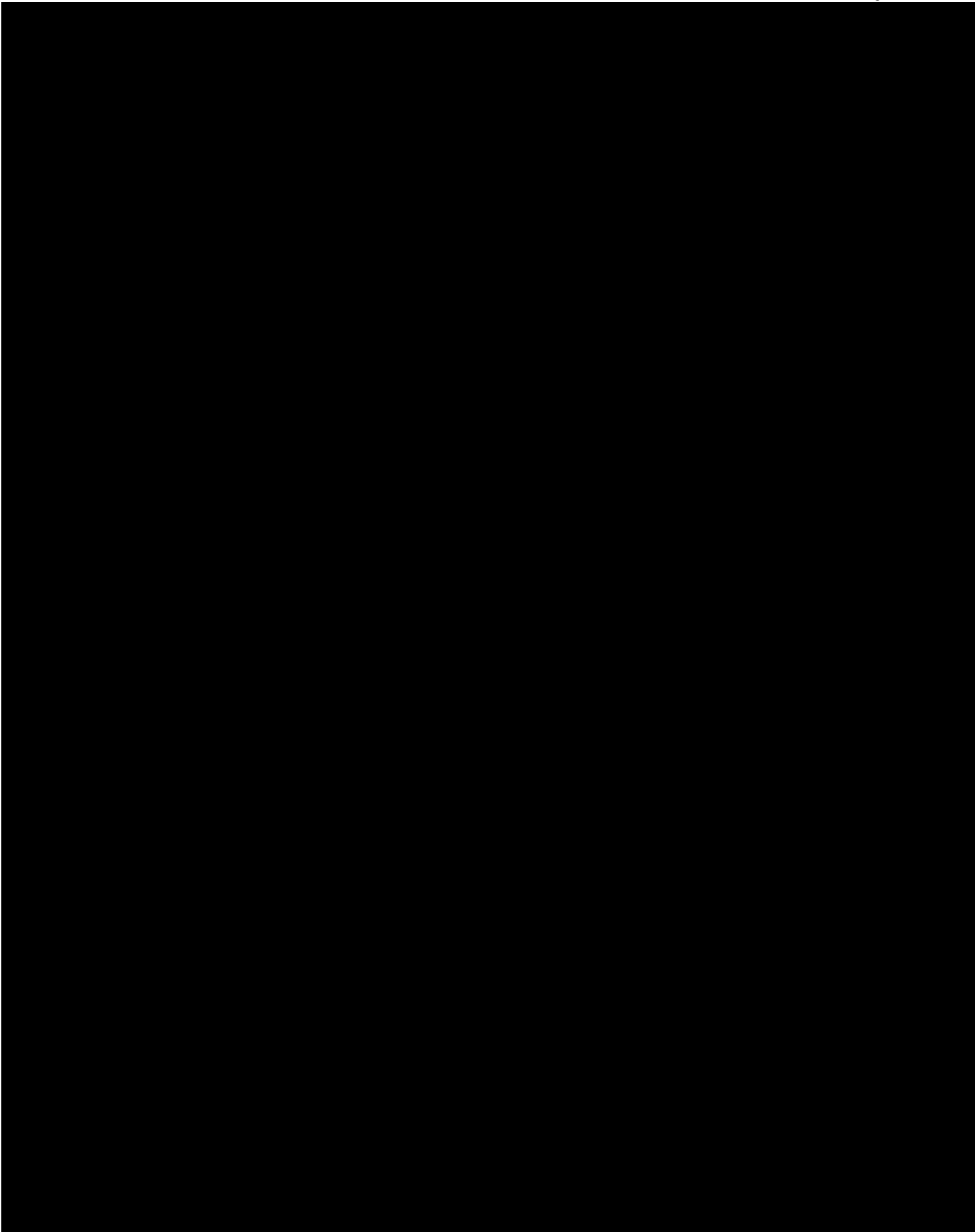




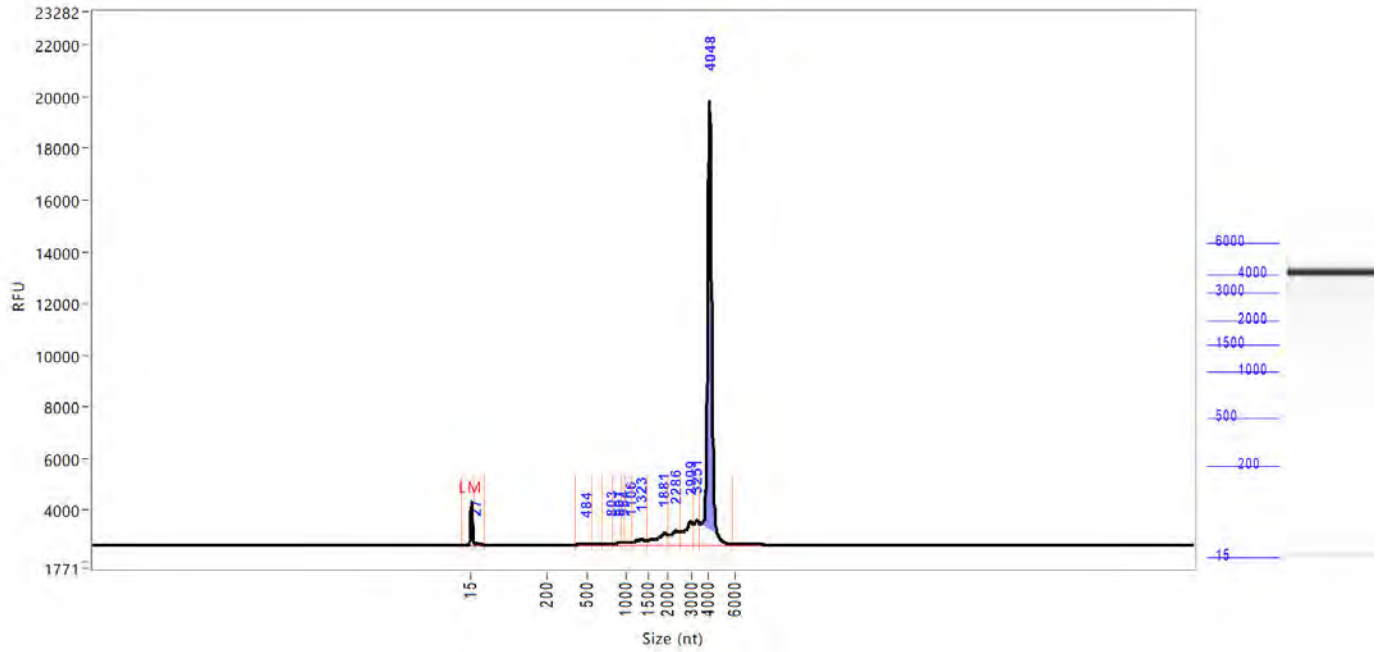








**Sample:** FH3221-2110003737  
**Well location:** C11  
**Created:** Tuesday, October 26, 2021 2:21:46 PM



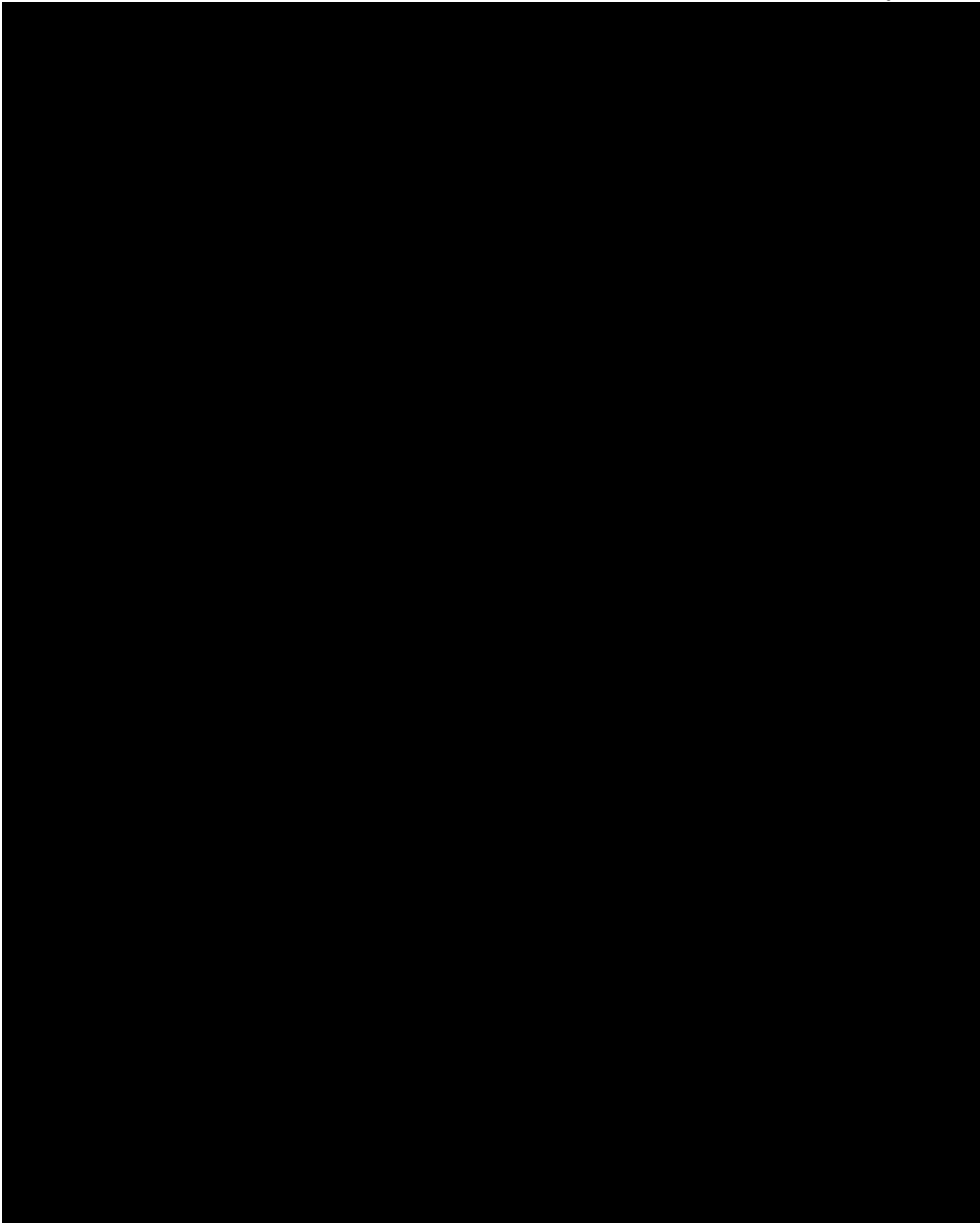
Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU
1	15 (LM)	0.6860	0	23	1687
2	27	1.1260	23	49	94
3	484	1.0883	410	541	69
4	803	1.0861	686	835	75
5	907	1.0800	835	940	97
6	964	0.5623	940	988	96
7	1106	1.3250	988	1139	123
8	1323	4.0074	1139	1447	250
9	1881	9.4564	1447	1992	466
10	2286	7.4866	1992	2442	548
11	2909	12.8803	2442	3039	928
12	3251	7.9766	3039	3443	976
13	4048	117.3849	3443	5788	17196

TIC: 165.4600 ng/uL  
 TIM: 281.9529 nmole/L  
 Total concentration: 169.1395 ng/uL

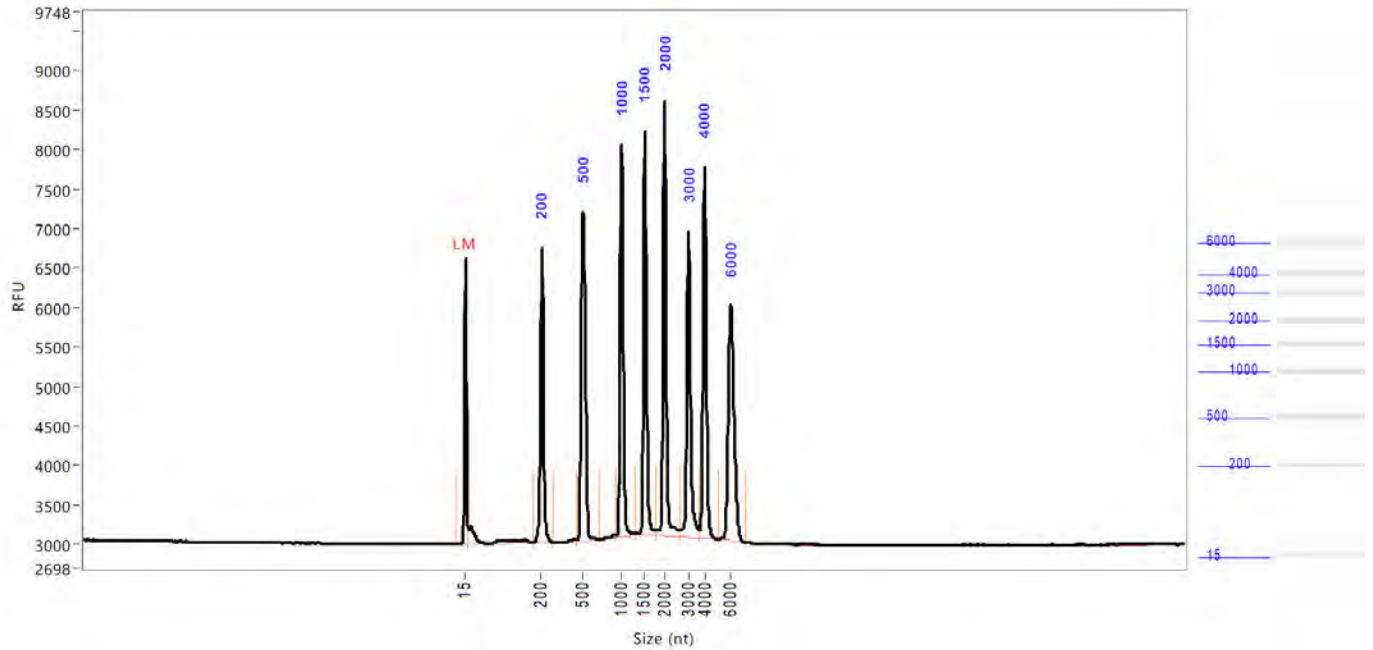
28s/18s: 110.6  
 RQN 10.0

Smear Analysis    3700 nt to 4800 nt    110.7090 ng/ul    65.5 %Total    85.0158 nmole/L    4063 Avg. Size (nt)    3.98 %CV  
                          4800 nt to 13000 nt    3.9382 ng/ul    2.3 %Total    1.9769 nmole/L    6215 Avg. Size (nt)    20.35 %CV

Sample peak width (sec): 6    Sample min peak height: 50    Sample baseline V to V?: N    Sample baseline V to V points: 3  
 Sample filter: Binomial    Number of points for filter: 9    Sample start region (min): 0    Sample end region (min): 60  
 Manual baseline start (min): 18    Manual baseline end (min): 59  
 Marker peak width (sec): 6    Marker min peak height: 100    Marker baseline V to V?: Y    Marker baseline V to V points: 3  
 Lower marker selection: First peak > 100 RFU    Upper marker selection: Last peak > 100 RFU  
 Ladder size (nt) 15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000  
 Quantification using: Ladder    Final concentration (ng/uL): 8.0000    Dilution factor: 12.0  
 Minimum RFU for data processing: 2



**Sample:** Ladder  
**Well location:** D12  
**Created:** Tuesday, October 26, 2021 2:21:46 PM



Peak	Size (nt)	Concentration (ng/uL)	From (nt)	To (nt)	RFU
1	15 (LM)	0.6860	0	23	3621
2	200	10.6443	179	280	3738
3	500	14.9622	455	718	4171
4	1000	11.8862	936	1303	4965
5	1500	11.5943	1303	1786	5110
6	2000	13.0994	1786	2650	5513
7	3000	10.7109	2650	3654	3867
8	4000	11.3959	3654	5083	4696
9	6000	11.5542	5083	7094	2981

TIC: 95.8473 ng/uL  
 TIM: 364.5956 nmole/L  
 Total concentration: 96.0000 ng/uL

Sample peak width (sec): 6      Sample min peak height: 200      Sample baseline V to V?: Y      Sample baseline V to V points: 3  
 Sample filter: Binomial      Number of points for filter: 9      Sample start region (min): 0      Sample end region (min): 60  
 Marker peak width (sec): 6      Marker min peak height: 100      Marker baseline V to V?: Y      Marker baseline V to V points: 3  
 Lower marker selection: First peak > 100 RFU      Upper marker selection: Last peak > 100 RFU  
 Ladder size (nt) 15, 200, 500, 1000, 1500, 2000, 3000, 4000, 6000  
 Quantification using: Ladder      Final concentration (ng/uL): 8.0000      Dilution factor: 12.0  
 Minimum RFU for data processing: 2

**Sample:** Ladder  
**Well location:** D12  
**Created:** Tuesday, October 26, 2021 2:21:46 PM  
**Fit type:** Point to point

Calibration curve

