

Assay Class: Plant RNA Nano  
Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

Created: 5/3/2016 3:31:55 PM  
Modified: 5/4/2016 11:35:40 AM

**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\RNA\Plant RNA Nano.xsy

Assay Class: Plant RNA Nano

Version: 1.3

Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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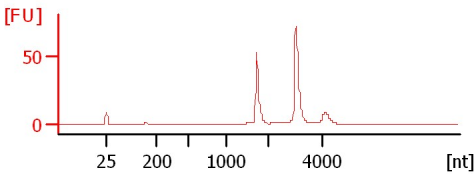
Chip Information:

Chip Lot #:

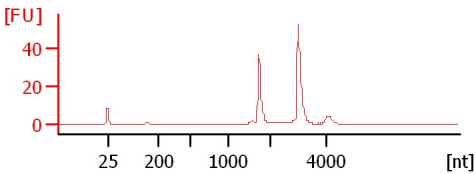
Reagent Kit Lot #:

Chip Comments:

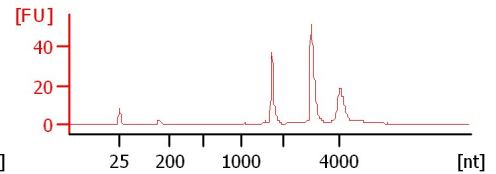
**KR 2H (1:3)**  
HiSeq\_498  
RIN:10



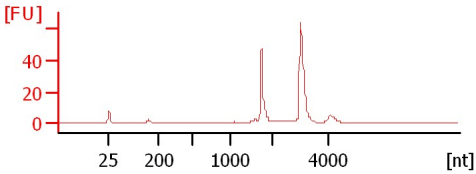
**KR 6H (1:3)**  
HiSeq\_498  
RIN: 9.90



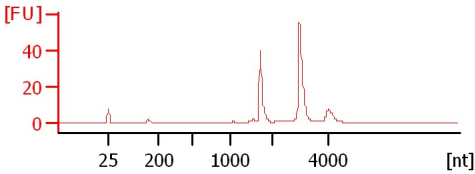
**KR 7H (1:3)**  
HiSeq\_498  
RIN:10



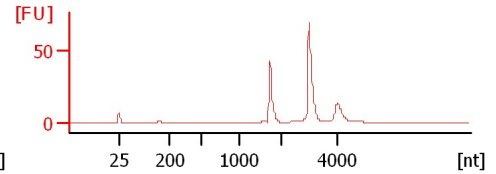
**KR 8F (1:3)**  
HiSeq\_498  
RIN: 9.90



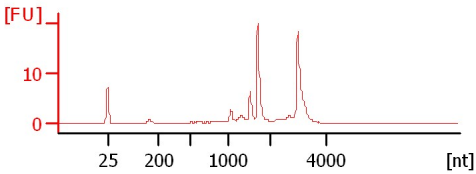
**KR 12F (1:3)**  
HiSeq\_498  
RIN: 9.90



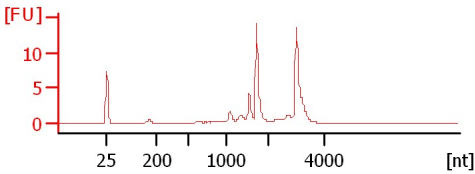
**KR 16F (1:3)**  
HiSeq\_498  
RIN:10



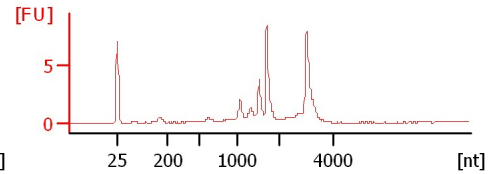
**18L 5a**  
HiSeq\_498  
RIN: 7.90



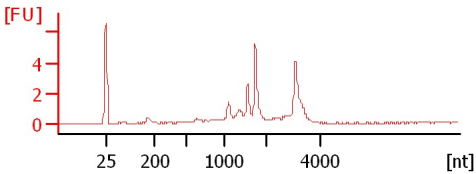
**18L 5b**  
HiSeq\_498  
RIN: 8.10



**6L 5A**  
HiSeq\_498  
RIN: 7.40



**6L 5B**  
HiSeq\_498  
RIN: 7.30



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
KR 2H (1:3)	HiSeq_498	✓	RIN:10	
KR 6H (1:3)	HiSeq_498	✓	RIN: 9.90	
KR 7H (1:3)	HiSeq_498	✓	RIN:10	
KR 8F (1:3)	HiSeq_498	✓	RIN: 9.90	
KR 12F (1:3)	HiSeq_498	✓	RIN: 9.90	
KR 16F (1:3)	HiSeq_498	✓	RIN:10	
18L 5a	HiSeq_498	✓	RIN: 7.90	
18L 5b	HiSeq_498	✓	RIN: 8.10	
6L 5A	HiSeq_498	✓	RIN: 7.40	
6L 5B	HiSeq_498	✓	RIN: 7.30	
Ladder		✓	All Other Samples	

**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.) : 13  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 19  
End Analysis Time Range [s] : 69  
Ladder Concentration [ng/μl] : 150  
Lower Marker Concentration [ng/μl] : 0  
Upper Marker Concentration [ng/μl] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

**Integrator Settings**

Integration Start Time [s] : 19  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.2  
Area Threshold : 0.1  
Width Threshold [s] : 0.2  
Baseline Plateau [s] : 6

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

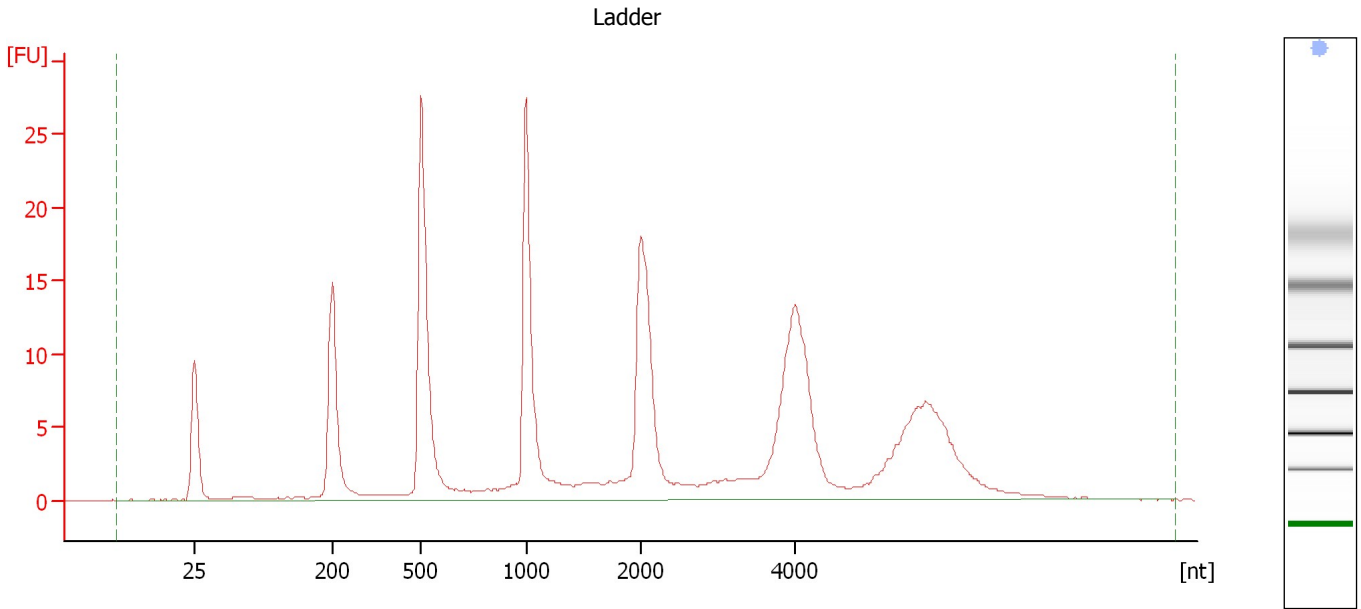
**Ladder**

Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

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**Electropherogram Summary**



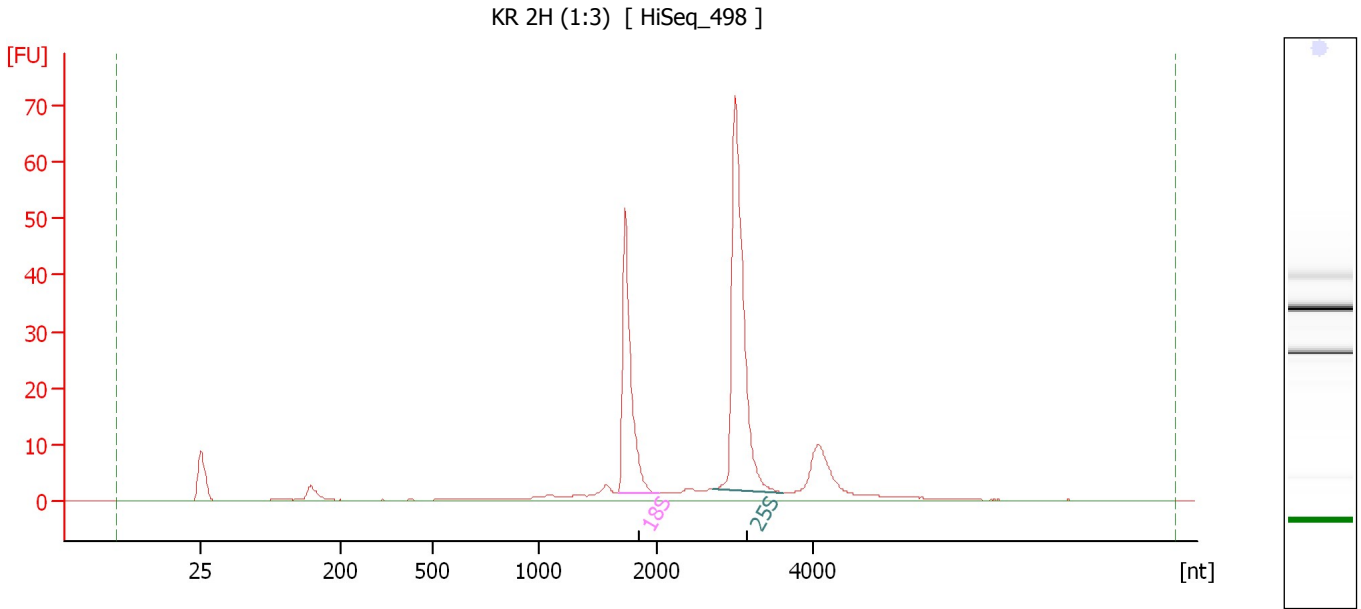
**Overall Results for Ladder**

RNA Area:	244.8	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano  
 Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : KR 2H (1:3)**

RNA Area:	222.6	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	136 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN:10

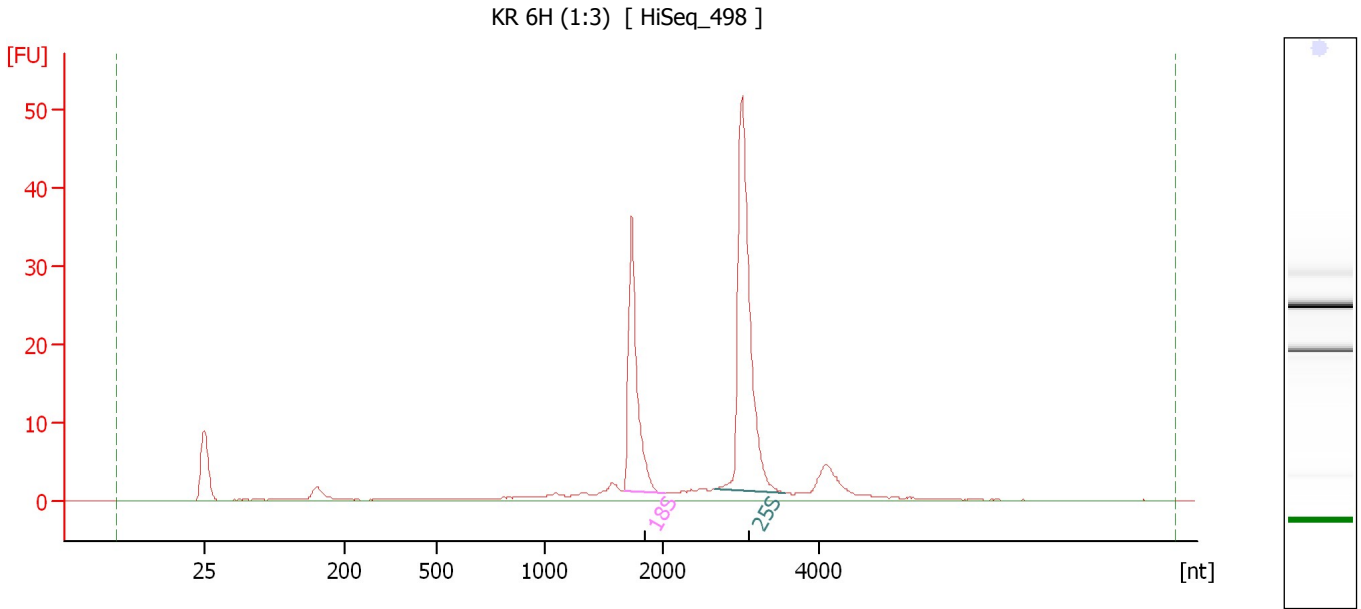
**Fragment table for sample 2 : KR 2H (1:3)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	2,049	50.1	22.5
25S	2,720	3,637	89.3	40.1

Assay Class: Plant RNA Nano  
 Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : KR 6H (1:3)**

RNA Area:	155.7	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	95 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN: 9.90

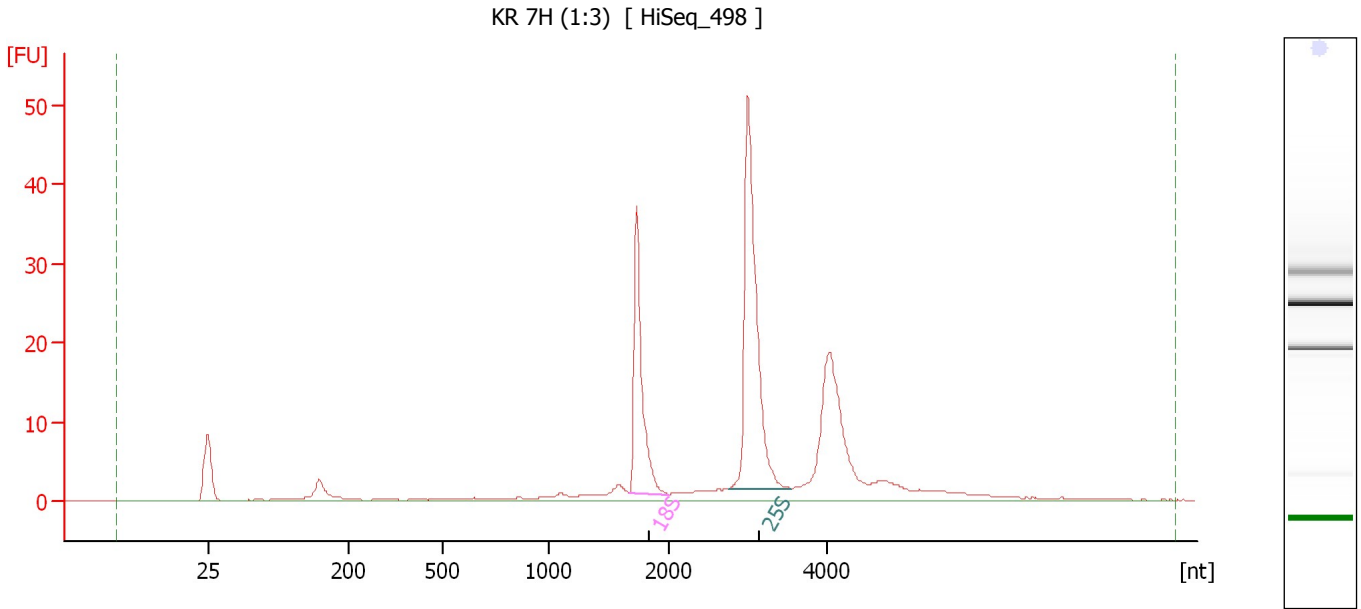
**Fragment table for sample 3 : KR 6H (1:3)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,682	2,039	35.7	22.9
25S	2,665	3,576	64.8	41.6

Assay Class: Plant RNA Nano  
 Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

Created: 5/3/2016 3:31:55 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : KR 7H (1:3)**

RNA Area:	201.5	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	123 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN:10

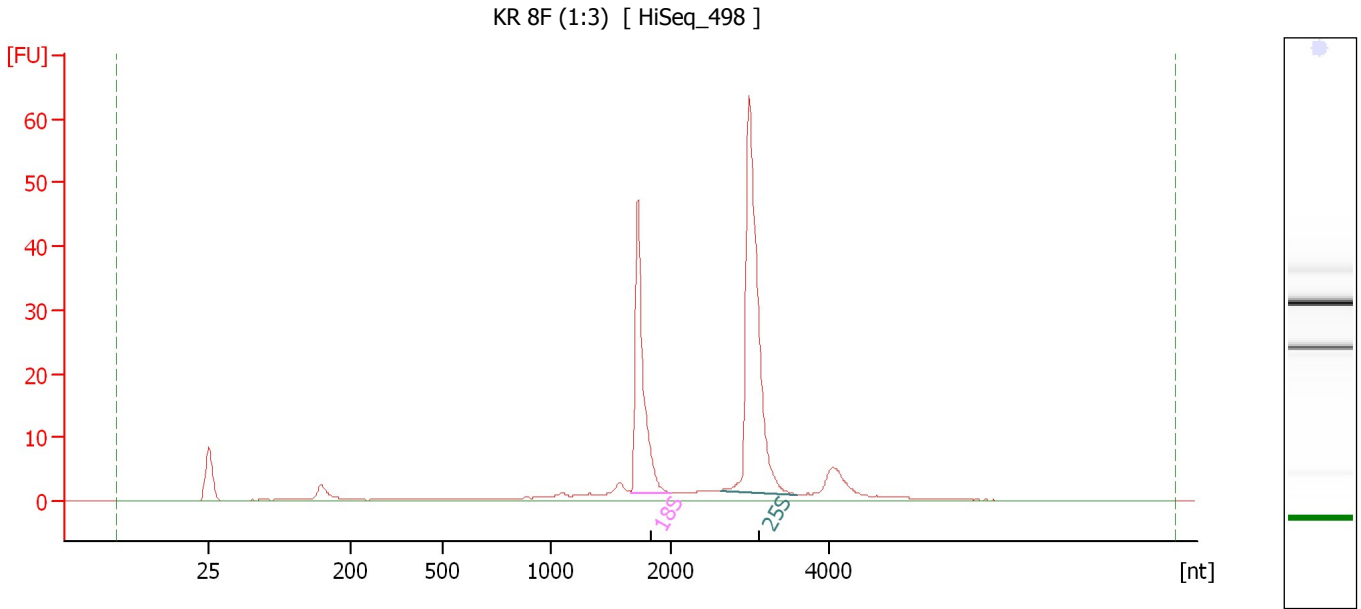
**Fragment table for sample 4 : KR 7H (1:3)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	2,002	35.3	17.5
25S	2,759	3,556	64.0	31.8

Assay Class: Plant RNA Nano  
 Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

Created: 5/3/2016 3:31:55 PM  
 Modified: 5/4/2016 11:35:40 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : KR 8F (1:3)**

RNA Area:	197.4	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	121 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN: 9.90

**Fragment table for sample 5 : KR 8F (1:3)**

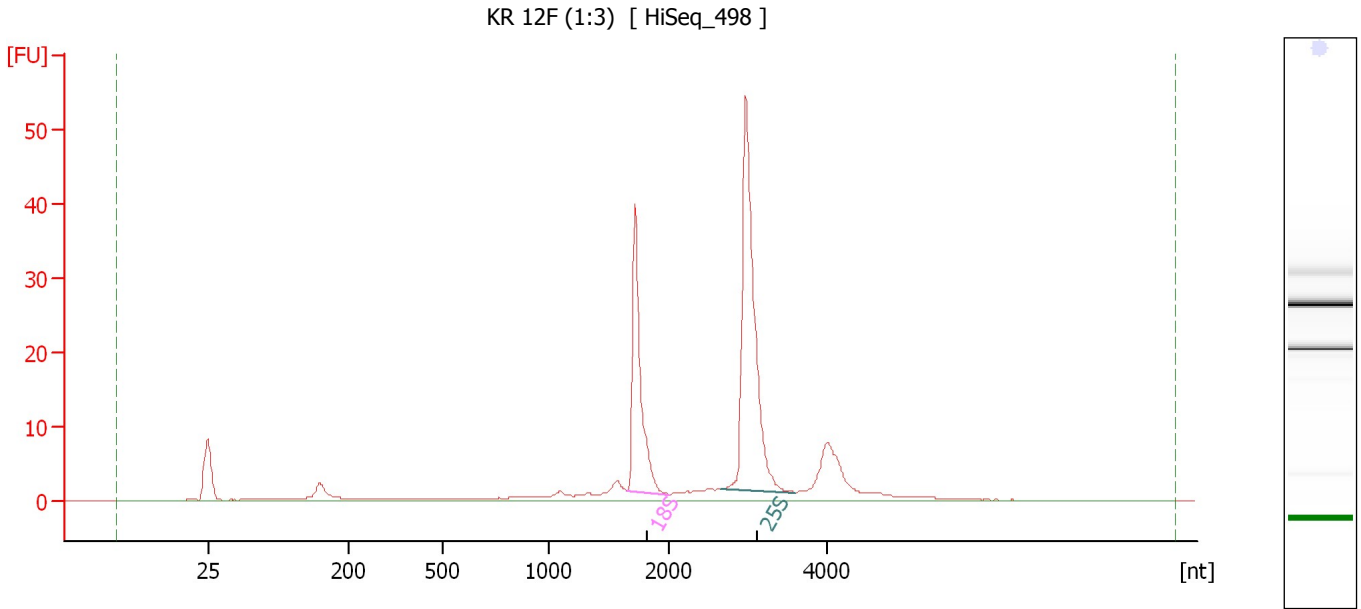
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,670	2,017	46.0	23.3
25S	2,637	3,608	81.3	41.2



Assay Class: Plant RNA Nano  
 Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

Created: 5/3/2016 3:31:55 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : KR 12F (1:3)**

RNA Area:	178.6	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	109 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN: 9.90

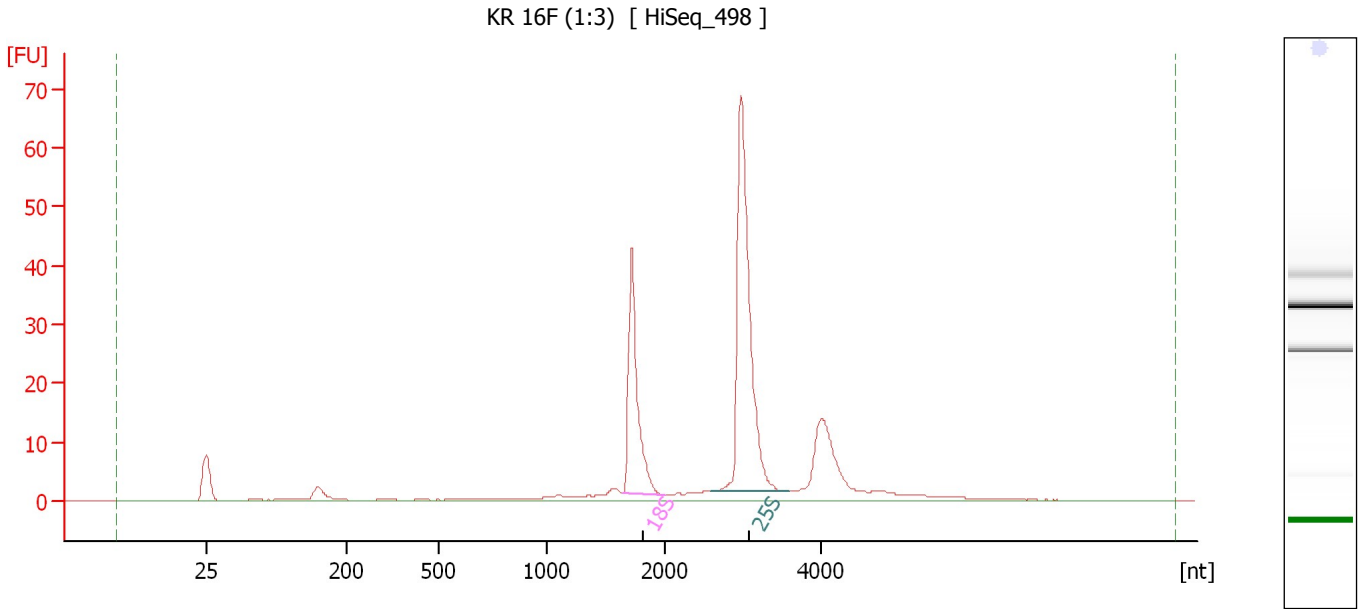
**Fragment table for sample 6 : KR 12F (1:3)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	2,016	39.3	22.0
25S	2,678	3,610	69.2	38.7

Assay Class: Plant RNA Nano  
Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

Created: 5/3/2016 3:31:55 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : KR 16F (1:3)**

RNA Area: 224.4                      RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 138 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.0                      Result Flagging Label: RIN:10

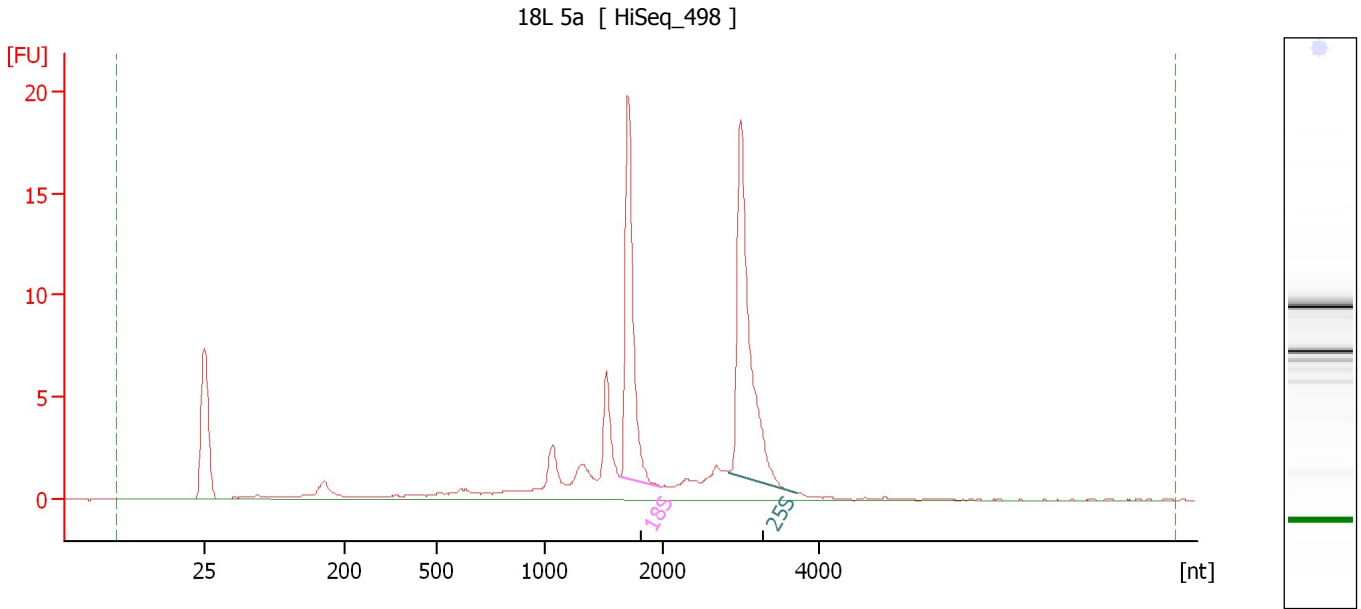
**Fragment table for sample 7 : KR 16F (1:3)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,656	2,013	44.4	19.8
25S	2,583	3,587	88.7	39.6

Assay Class: Plant RNA Nano  
 Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

Created: 5/3/2016 3:31:55 PM  
 Modified: 5/4/2016 11:35:40 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 18L 5a**

RNA Area:	82.5	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	51 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.3	Result Flagging Label:	RIN: 7.90

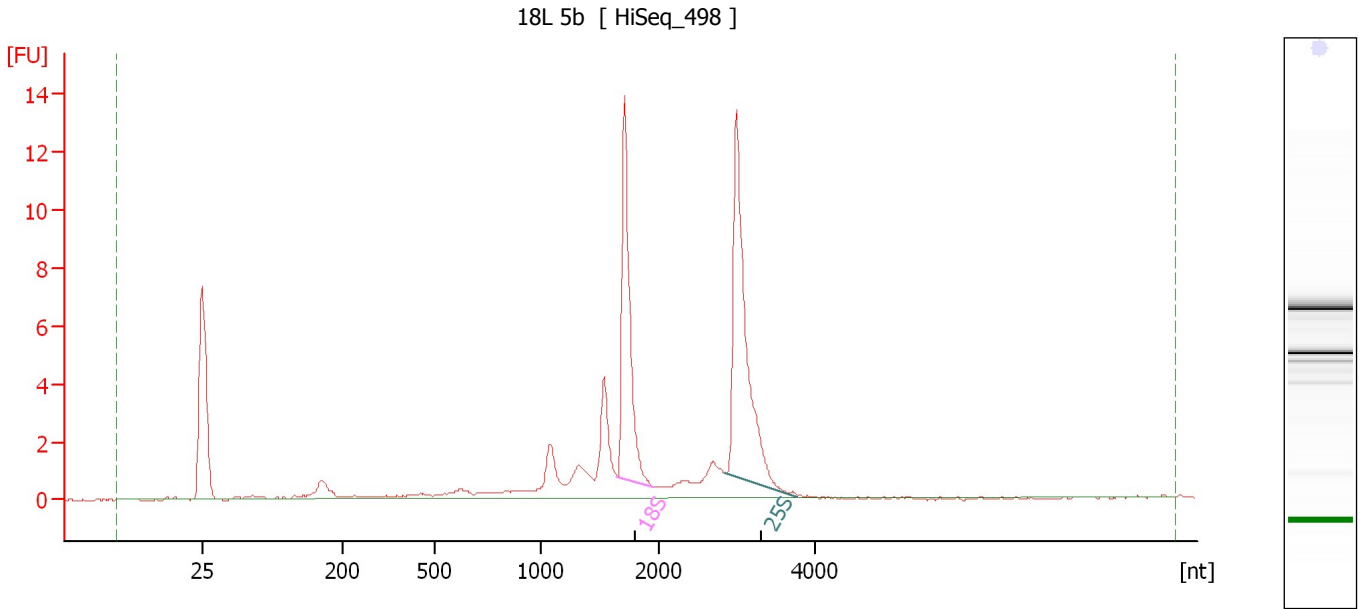
**Fragment table for sample 8 : 18L 5a**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,654	1,990	17.4	21.1
25S	2,841	3,711	23.0	27.8

Assay Class: Plant RNA Nano  
 Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

Created: 5/3/2016 3:31:55 PM  
 Modified: 5/4/2016 11:35:40 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 18L 5b**

RNA Area:	56.7	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	35 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 8.10

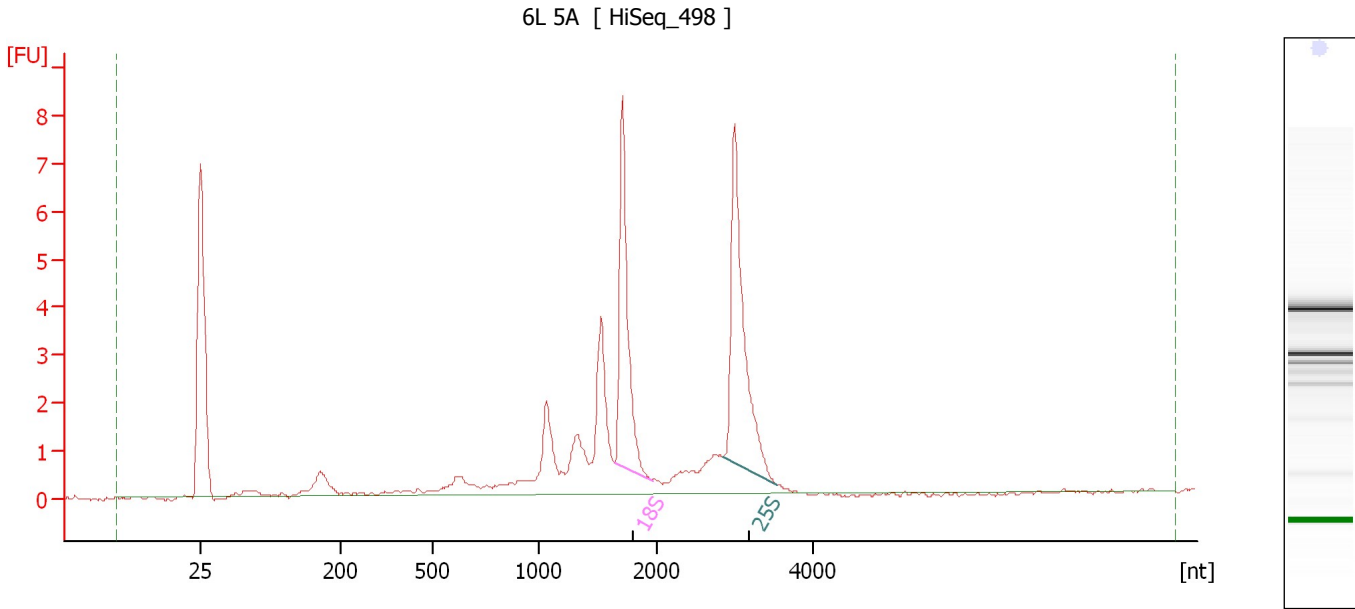
**Fragment table for sample 9 : 18L 5b**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	1,961	12.6	22.2
25S	2,856	3,784	17.0	30.0

Assay Class: Plant RNA Nano  
 Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

Created: 5/3/2016 3:31:55 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 6L 5A**

RNA Area:	41.8	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	26 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.3	Result Flagging Label:	RIN: 7.40

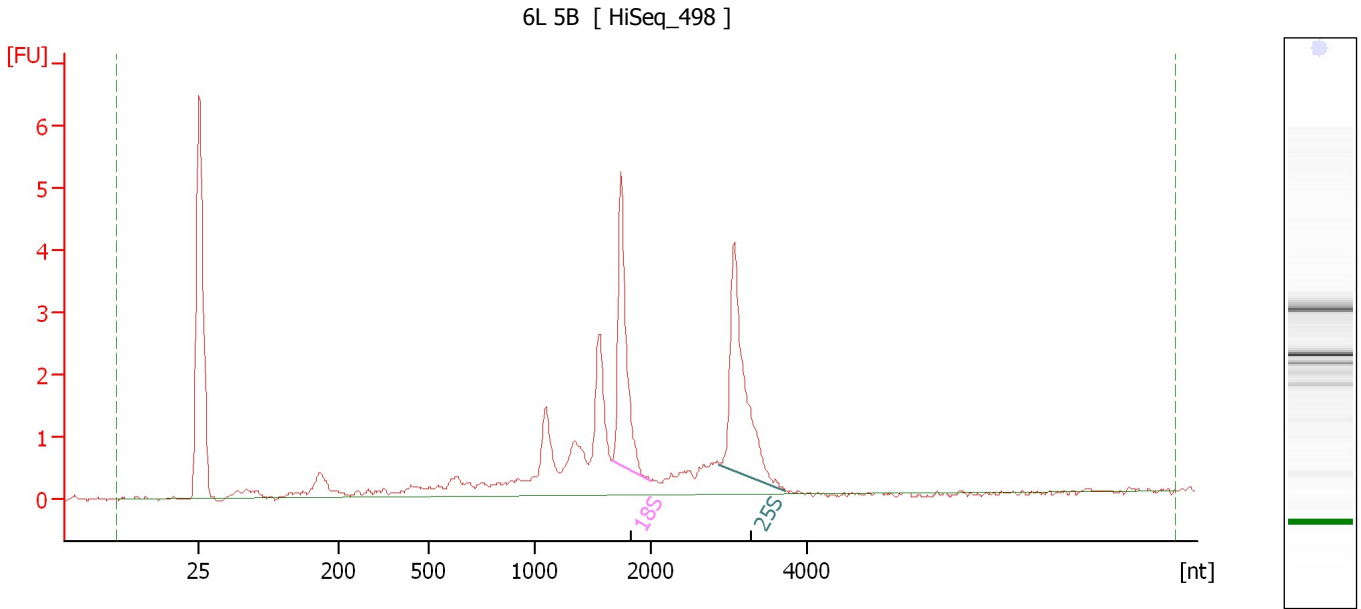
**Fragment table for sample 10 : 6L 5A**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	1,969	7.8	18.7
25S	2,857	3,541	9.9	23.6

Assay Class: Plant RNA Nano  
 Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

Created: 5/3/2016 3:31:55 PM  
 Modified: 5/4/2016 11:35:40 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 6L 5B**

RNA Area:	29.9	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	18 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.2	Result Flagging Label:	RIN: 7.30

**Fragment table for sample 11 : 6L 5B**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,665	1,985	4.9	16.4
25S	2,872	3,723	5.9	19.8

Assay Class: Plant RNA Nano  
Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

Created: 5/3/2016 3:31:55 PM  
Modified: 5/4/2016 11:35:40 AM

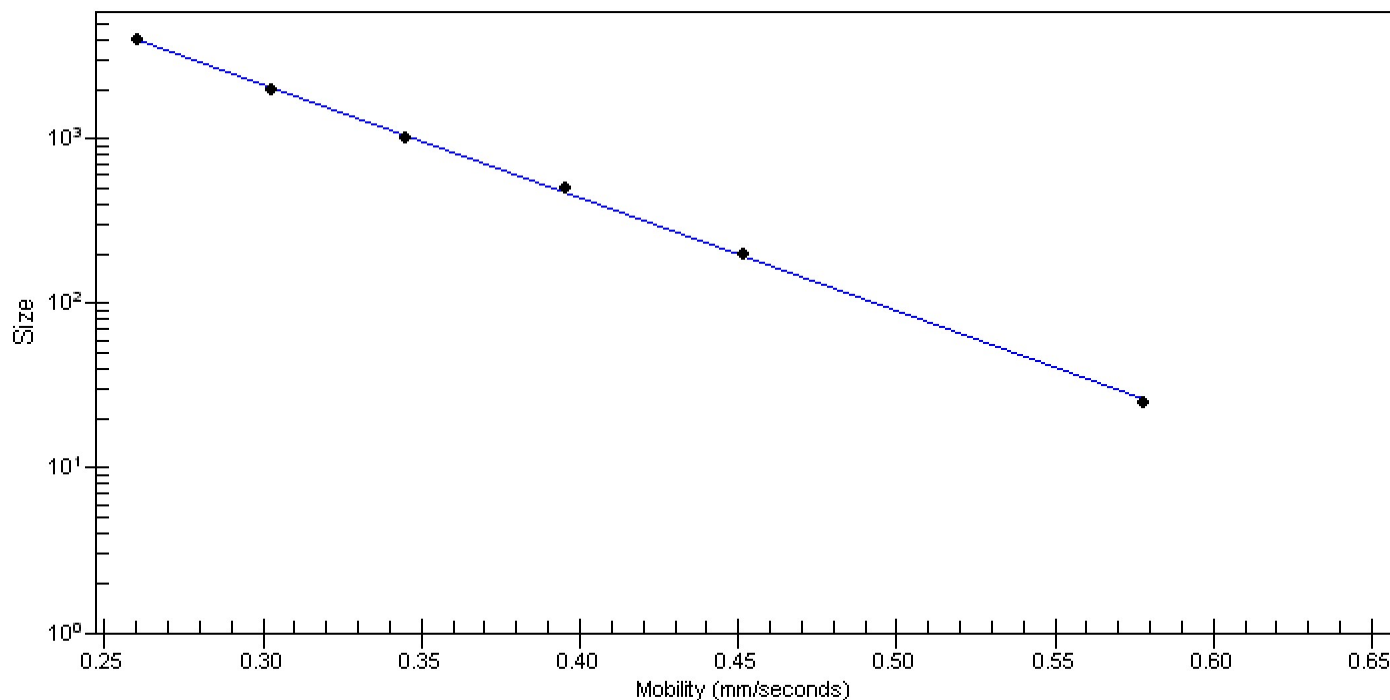
**Gel Image**

Assay Class: Plant RNA Nano  
Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

Created: 5/3/2016 3:31:55 PM  
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**Curves**

**Standard Curve**





Assay Class: Plant RNA Nano  
 Data Path: C:\...ert\data\2016-05-03\2016-05-03\_003\_HiSeq\_498\_TotalRNAQC.xad

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**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		5/3/2016 3:54:26 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad)		Instrument	Run		5/3/2016 3:32:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/3/2016 3:32:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/3/2016 3:32:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/3/2016 3:32:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/3/2016 3:32:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/3/2016 3:32:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/3/2016 3:32:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1