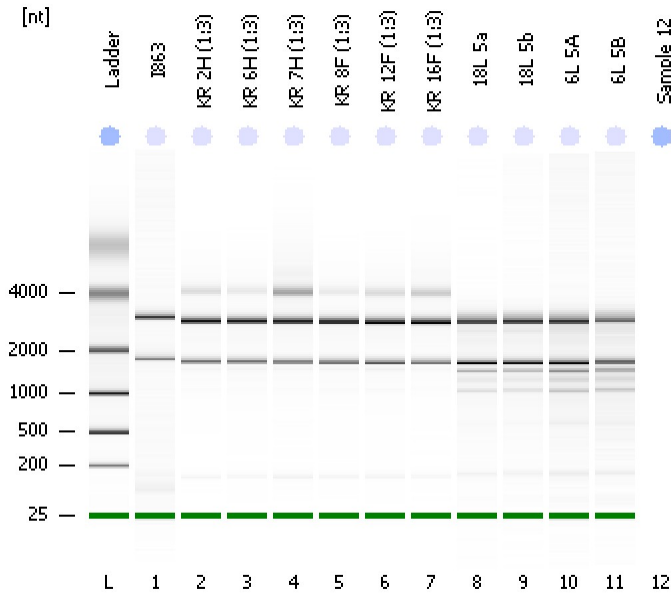


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

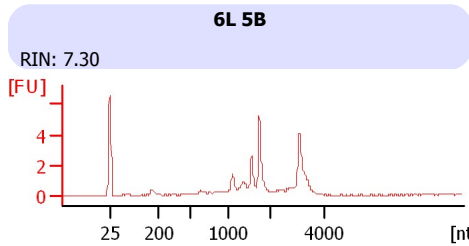
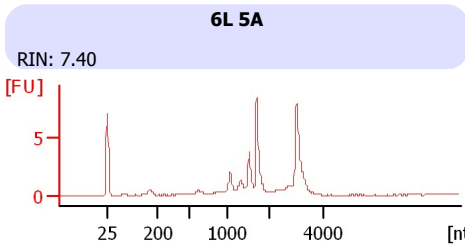
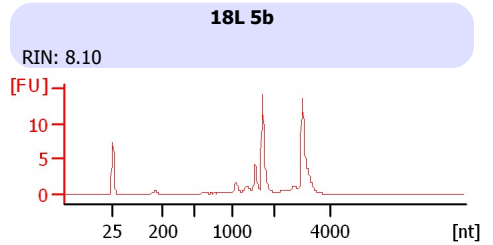
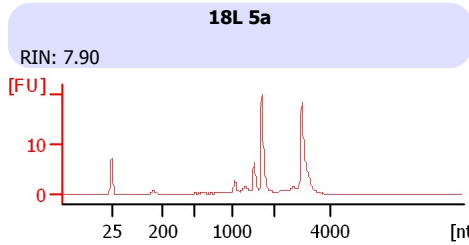
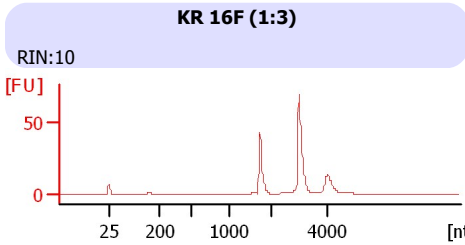
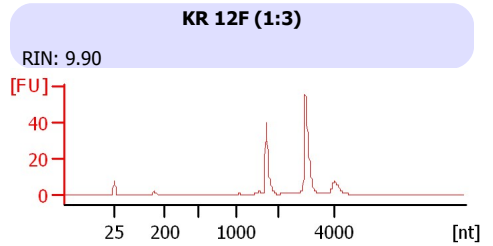
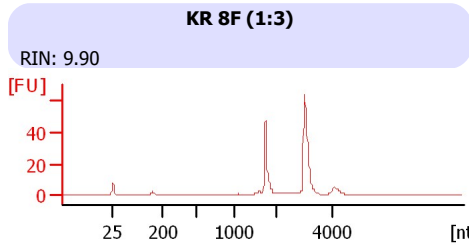
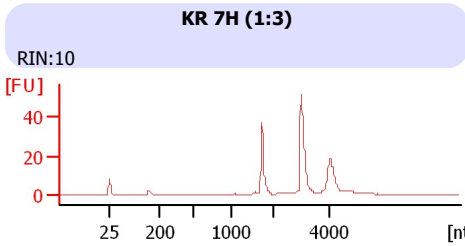
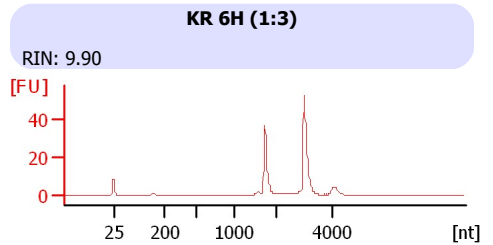
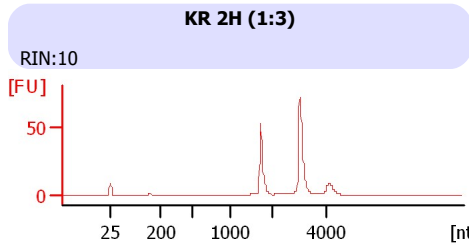
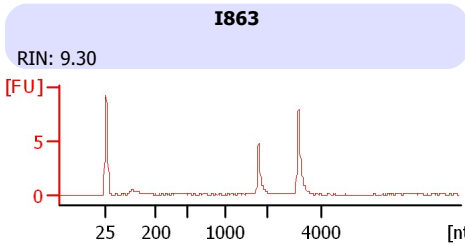
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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:



Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
 Modified: 5/3/2016 3:54:35 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
I863		✓	RIN: 9.30	
KR 2H (1:3)		✓	RIN:10	
KR 6H (1:3)		✓	RIN: 9.90	
KR 7H (1:3)		✓	RIN:10	
KR 8F (1:3)		✓	RIN: 9.90	
KR 12F (1:3)		✓	RIN: 9.90	
KR 16F (1:3)		✓	RIN:10	
18L 5a		✓	RIN: 7.90	
18L 5b		✓	RIN: 8.10	
6L 5A		✓	RIN: 7.40	
6L 5B		✓	RIN: 7.30	
Sample 12			All Other Samples	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

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

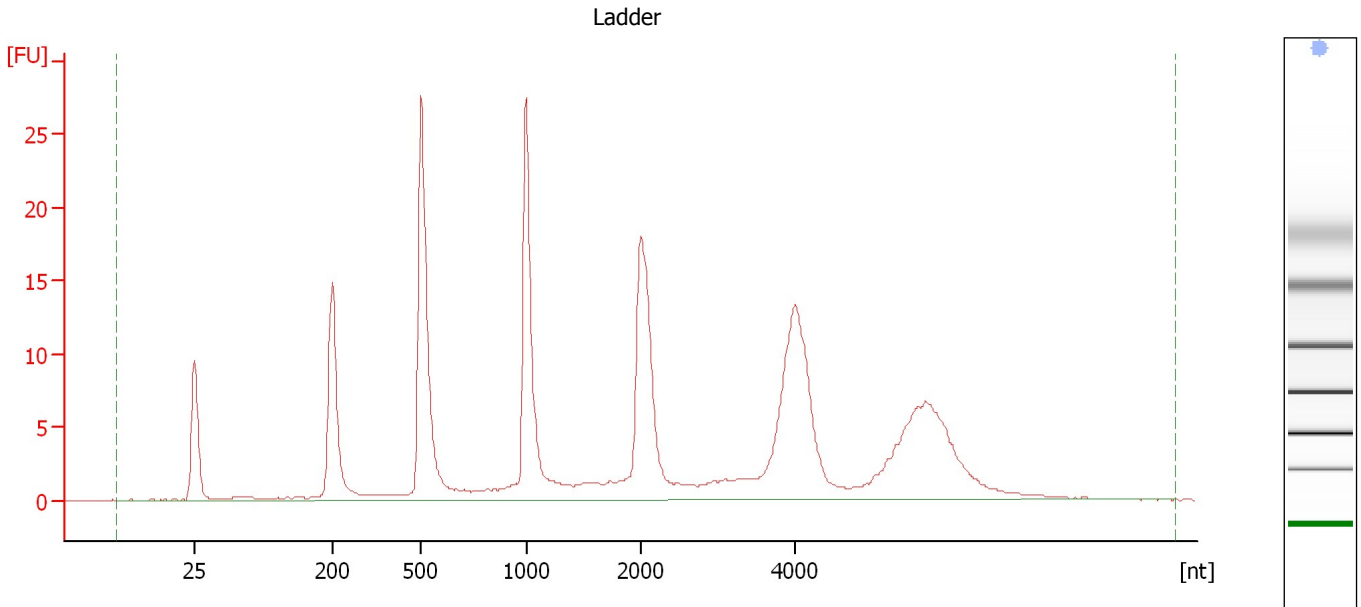
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

Electropherogram Summary



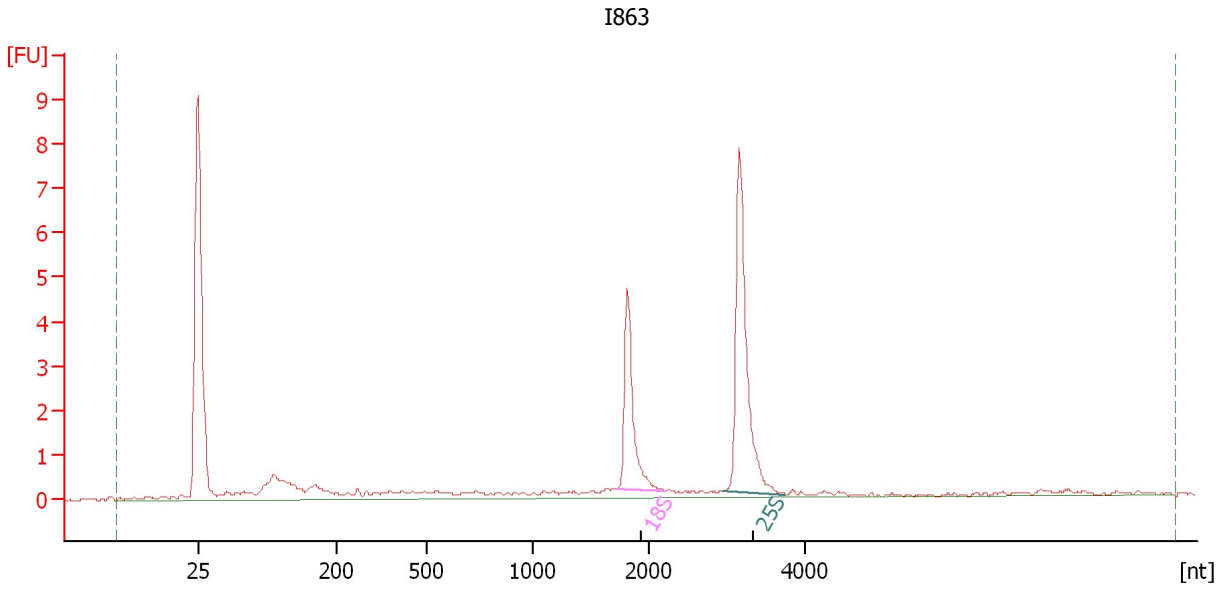
Overall Results for Ladder

RNA Area:	244.8	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : I863

RNA Area: 27.2 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 17 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.9 Result Flagging Label: RIN: 9.30

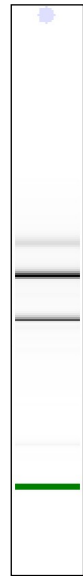
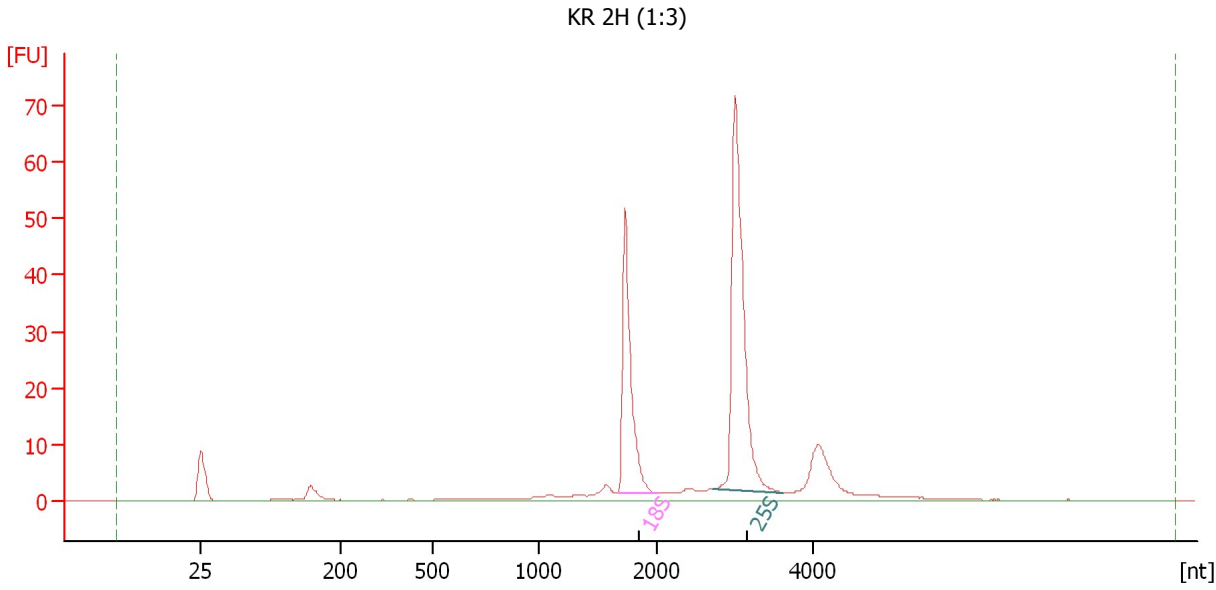
Fragment table for sample 1 : I863

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,718	2,184	4.5	16.7
25S	2,955	3,753	8.7	32.0

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

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:
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN:10

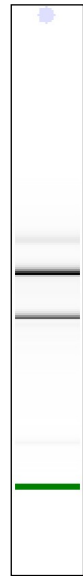
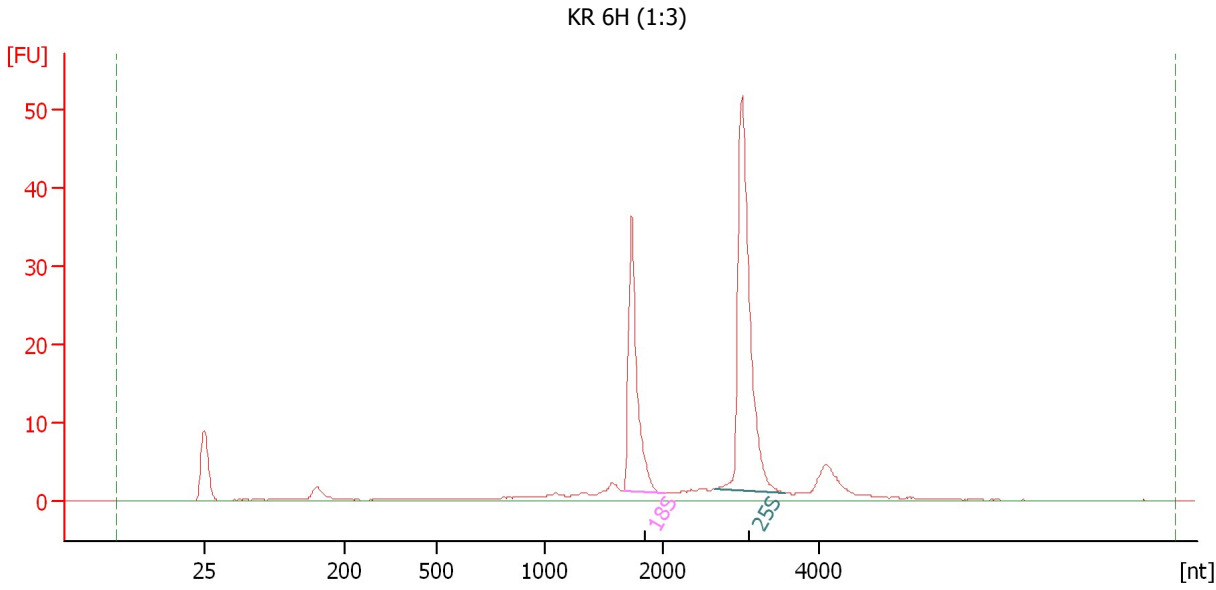
Fragment table for sample 2 : KR 2H (1:3)

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:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

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:
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN: 9.90

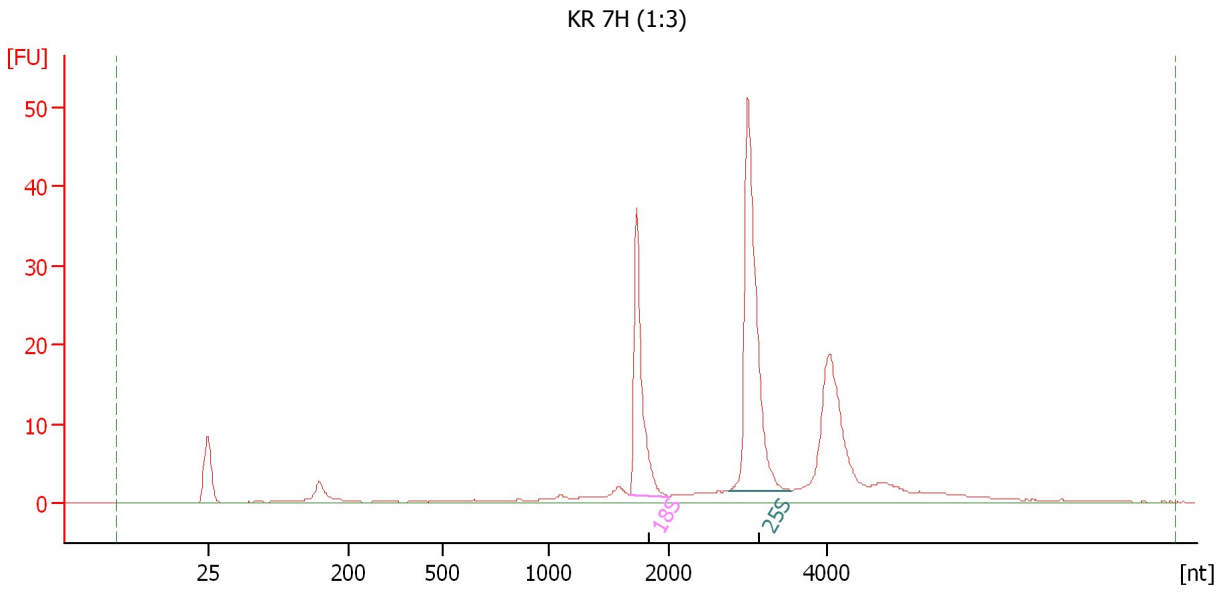
Fragment table for sample 3 : KR 6H (1:3)

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:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

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:
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN:10

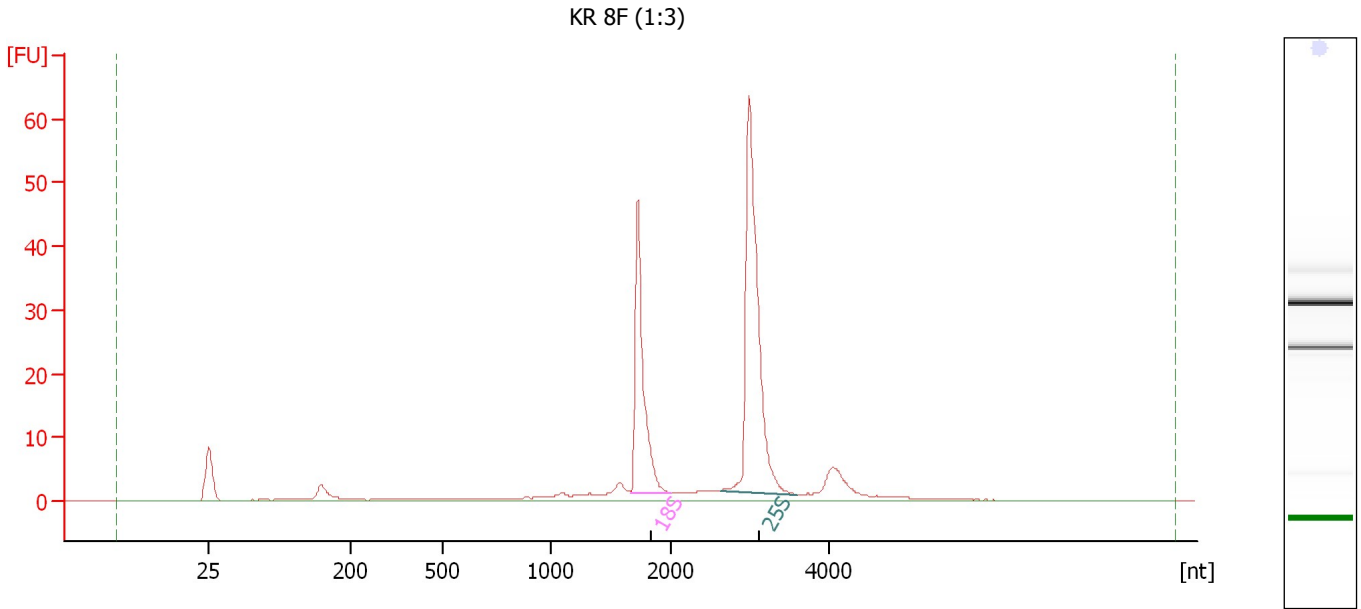
Fragment table for sample 4 : KR 7H (1:3)

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:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

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:
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN: 9.90

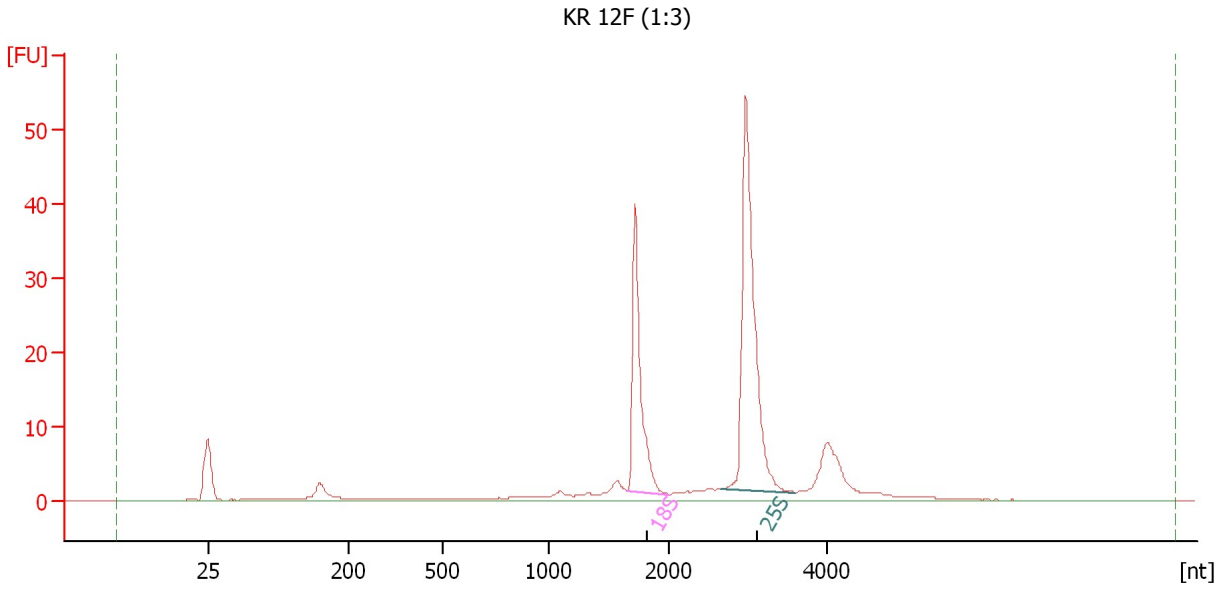
Fragment table for sample 5 : KR 8F (1:3)

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:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

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:
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN: 9.90

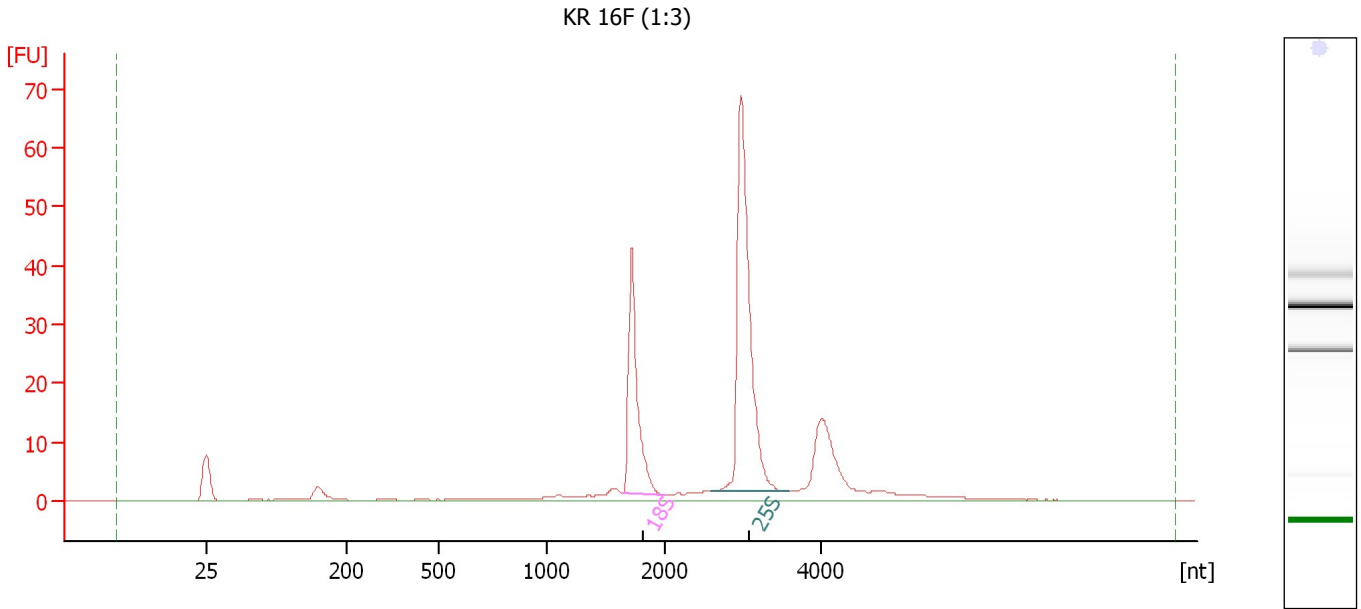
Fragment table for sample 6 : KR 12F (1:3)

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:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

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

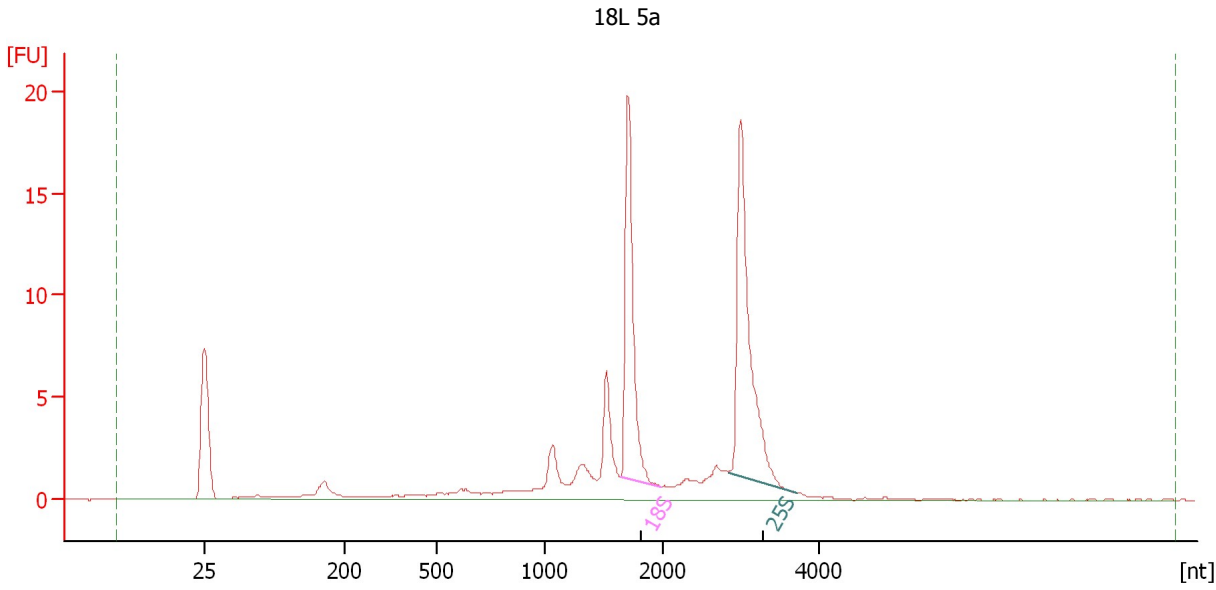
Fragment table for sample 7 : KR 16F (1:3)

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:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
 Modified: 5/3/2016 3:54:35 PM

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:	
rRNA Ratio [25s / 18s]:	1.3	Result Flagging Label:	RIN: 7.90

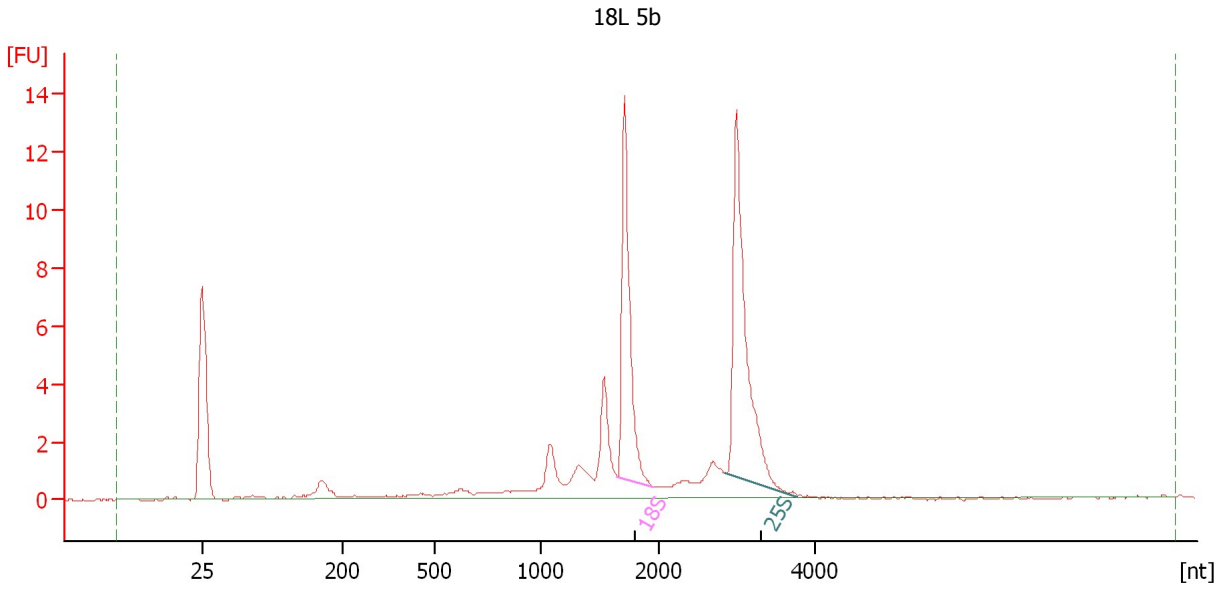
Fragment table for sample 8 : 18L 5a

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:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

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:	
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 8.10

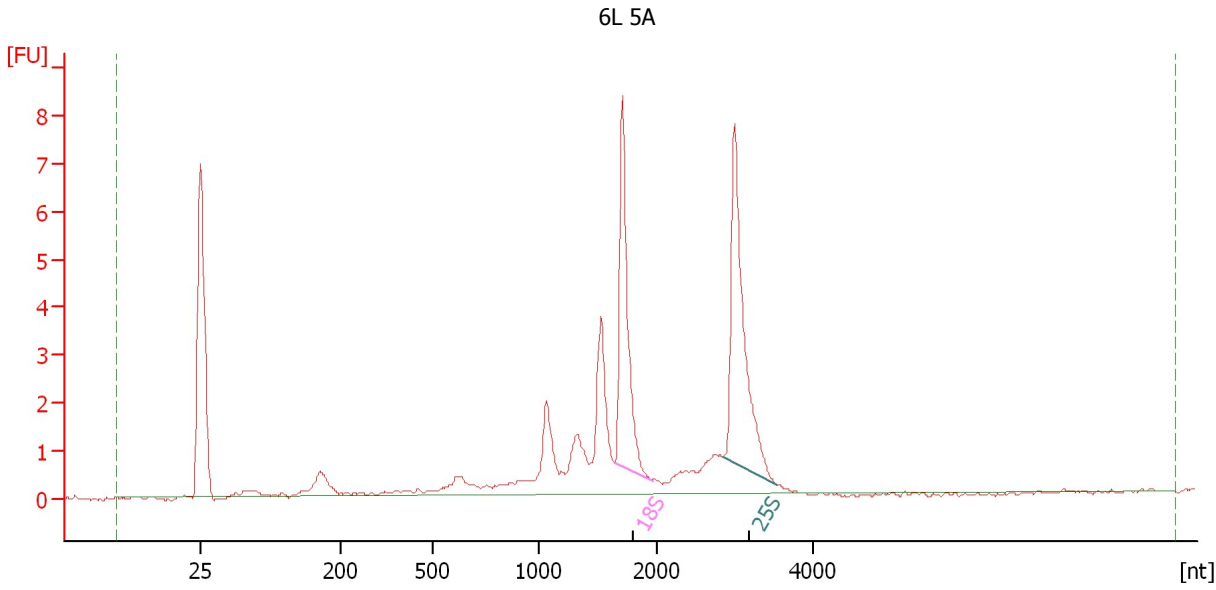
Fragment table for sample 9 : 18L 5b

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:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
 Modified: 5/3/2016 3:54:35 PM

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:	
rRNA Ratio [25s / 18s]:	1.3	Result Flagging Label:	RIN: 7.40

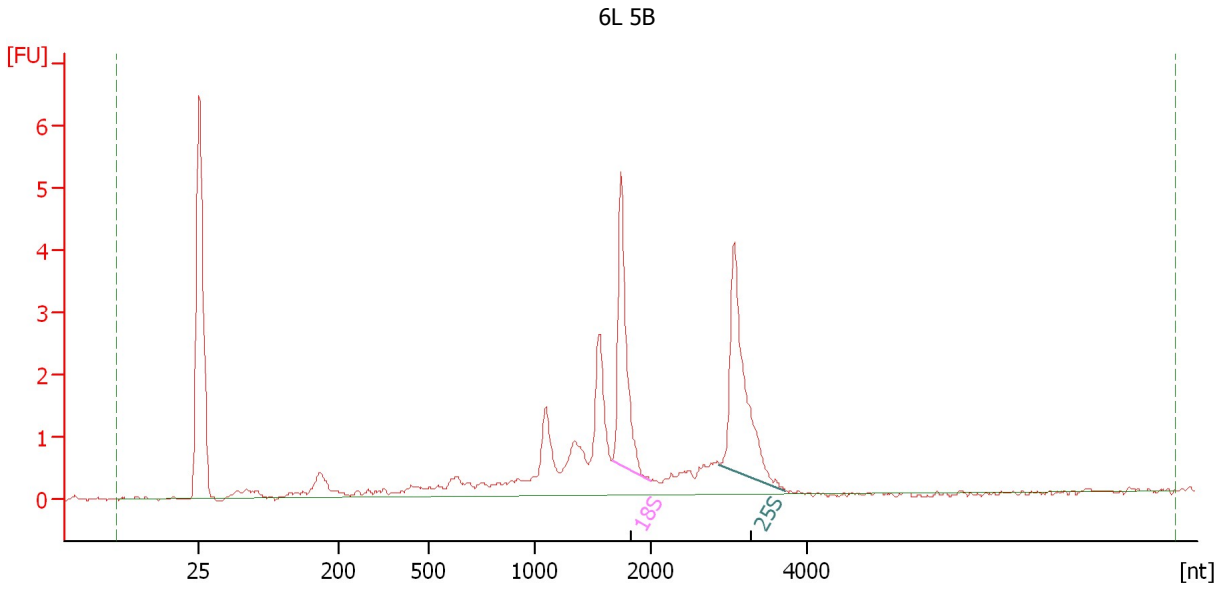
Fragment table for sample 10 : 6L 5A

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:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

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:
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN: 7.30

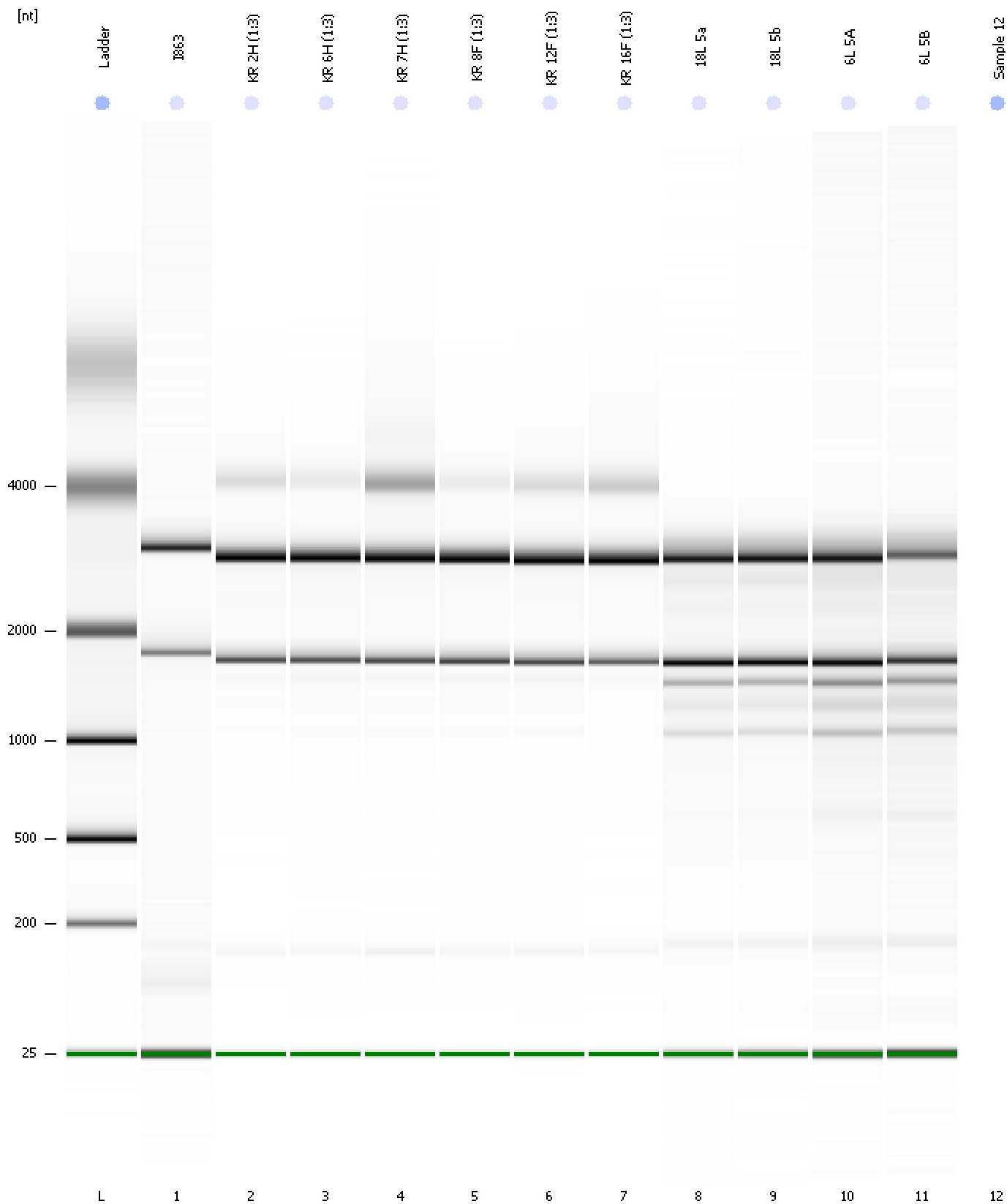
Fragment table for sample 11 : 6L 5B

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:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

Gel Image

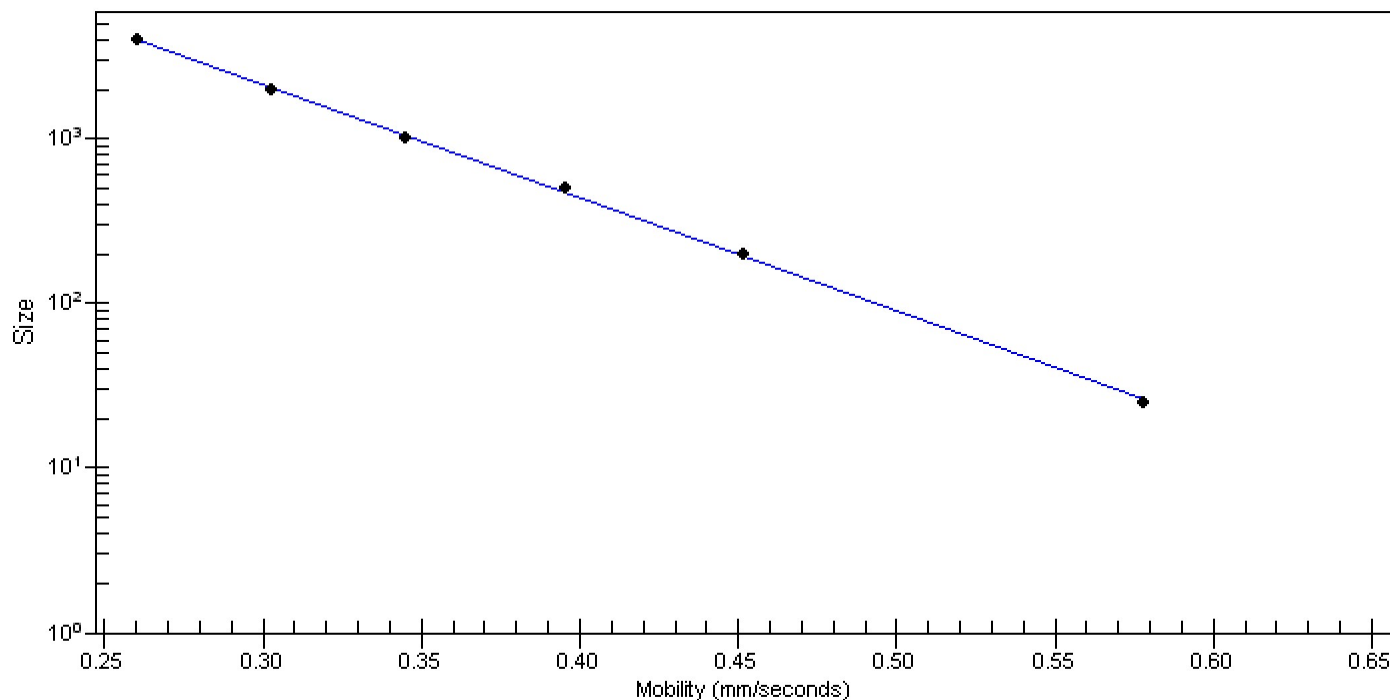


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

Curves

Standard Curve



Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
Modified: 5/3/2016 3:54:35 PM

Invalid Samples

Sample 12 has not been run, no results available.

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-03\2016-05-03_003.xad

Created: 5/3/2016 3:31:55 PM
 Modified: 5/3/2016 3:54:35 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		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