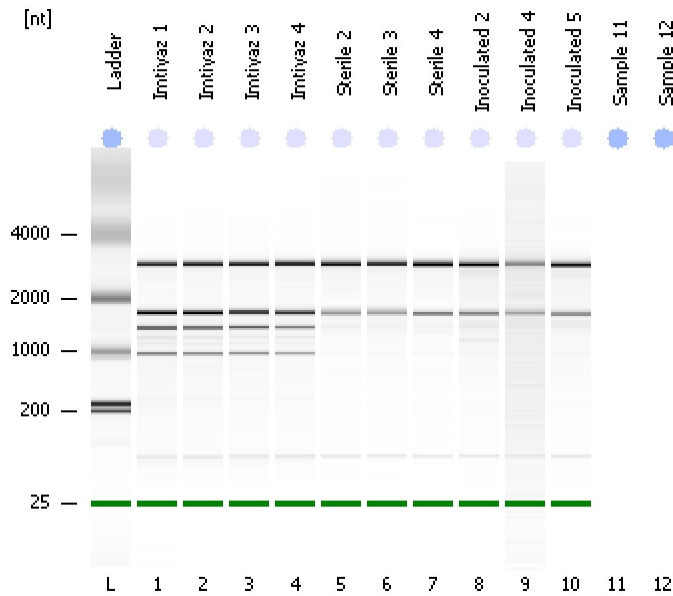


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 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)

© Copyright 2003 - 2009 Agilent Technologies, Inc.

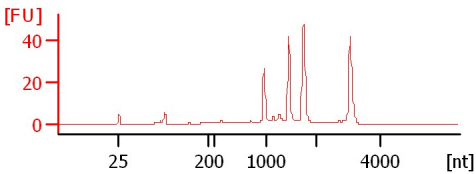
Chip Information:

Chip Lot #:

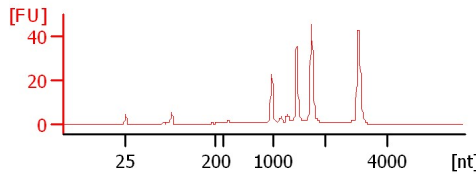
Reagent Kit Lot #:

Chip Comments:

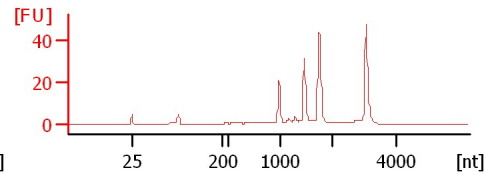
Imtiyaz 1
RIN: 8.40



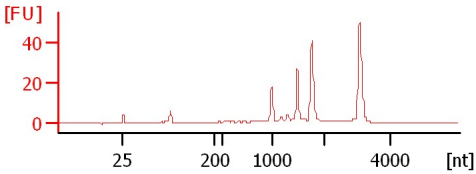
Imtiyaz 2
RIN: 8.50



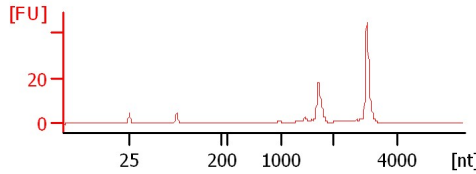
Imtiyaz 3
RIN: 8.50



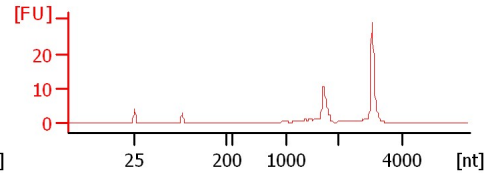
Imtiyaz 4
RIN: 8.40



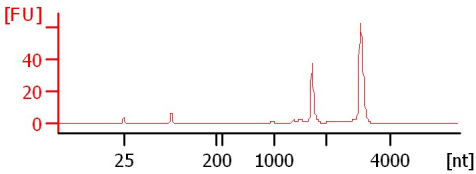
Sterile 2
RIN: 6.30



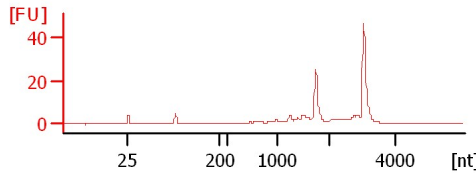
Sterile 3
RIN: 6.20



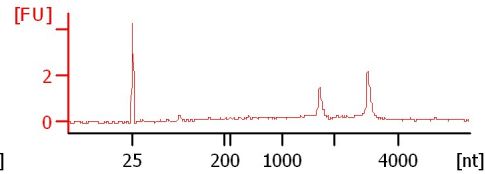
Sterile 4
RIN: 6.30



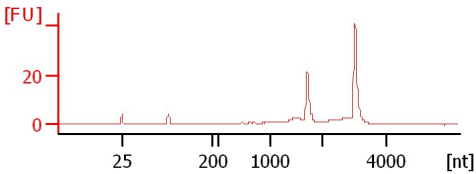
Inoculated 2
RIN: 5.80



Inoculated 4
RIN: 4.70



Inoculated 5
RIN: 6



Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
 Modified: 6/24/2016 12:08:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Intiyaz 1		✓	RIN: 8.40	
Intiyaz 2		✓	RIN: 8.50	
Intiyaz 3		✓	RIN: 8.50	
Intiyaz 4		✓	RIN: 8.40	
Sterile 2		✓	RIN: 6.30	
Sterile 3		✓	RIN: 6.20	
Sterile 4		✓	RIN: 6.30	
Inoculated 2		✓	RIN: 5.80	
Inoculated 4		✓	RIN: 4.70	
Inoculated 5		✓	RIN:6	
Sample 11				
Sample 12				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 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

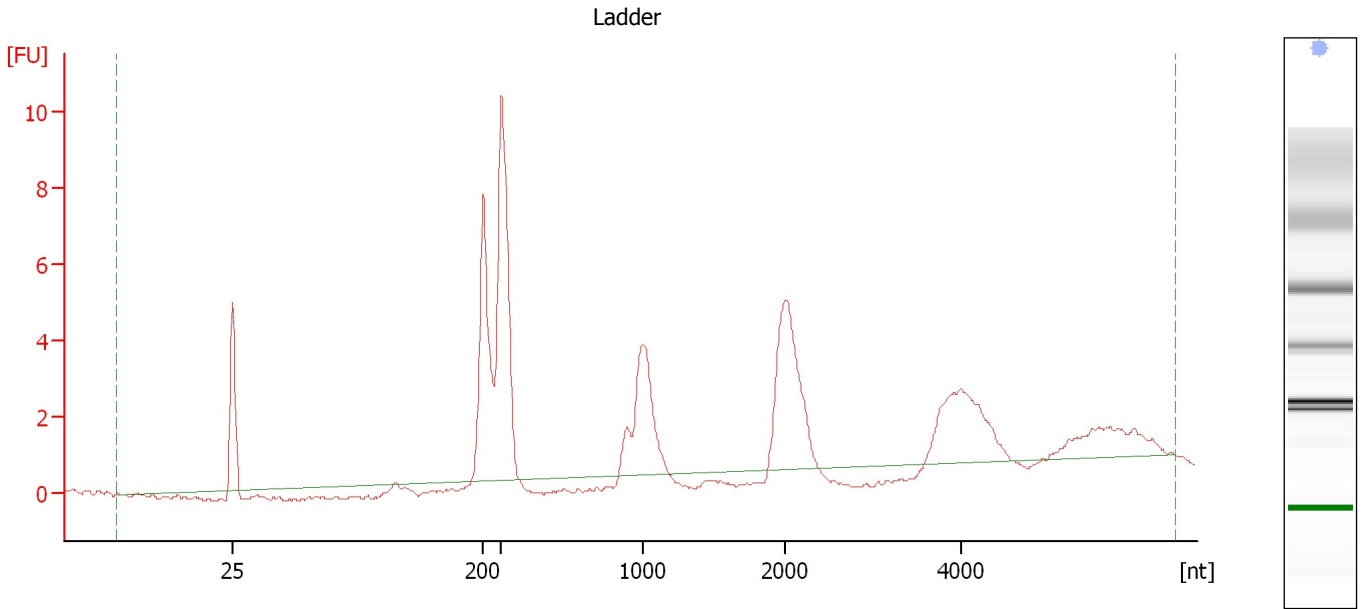
Ladder

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\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Electropherogram Summary



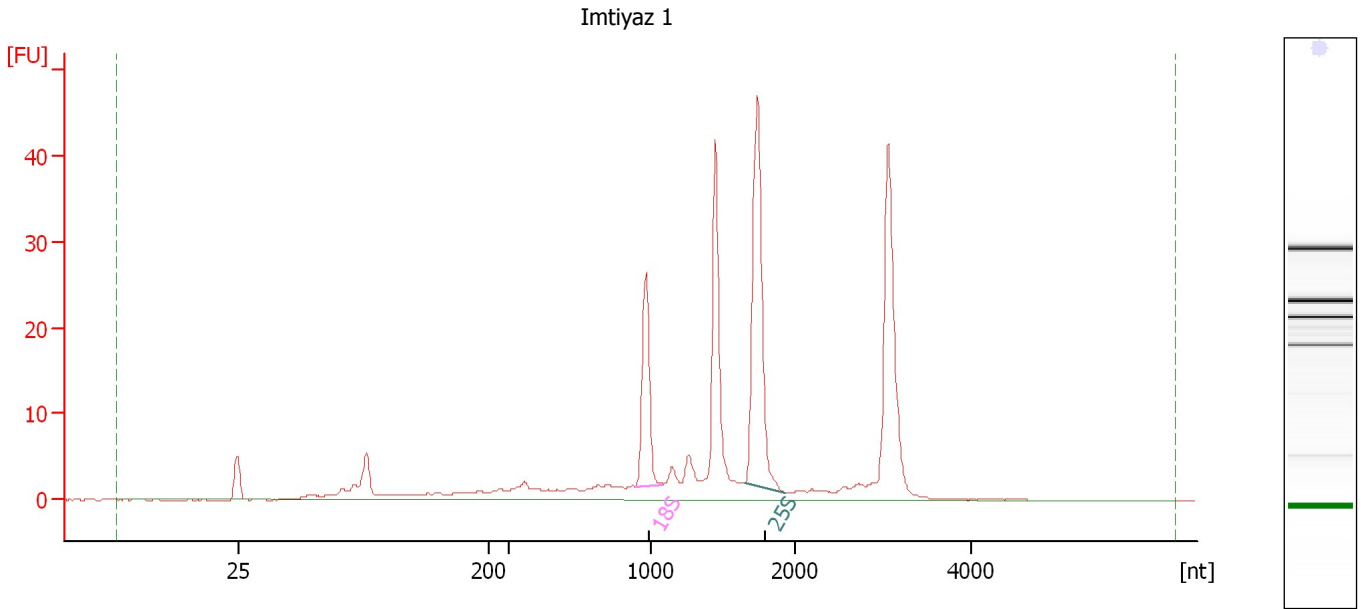
Overall Results for Ladder

RNA Area:	54.7	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Imtiyaz 1

RNA Area:	230.0	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	630 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.2	Result Flagging Label:	RIN: 8.40

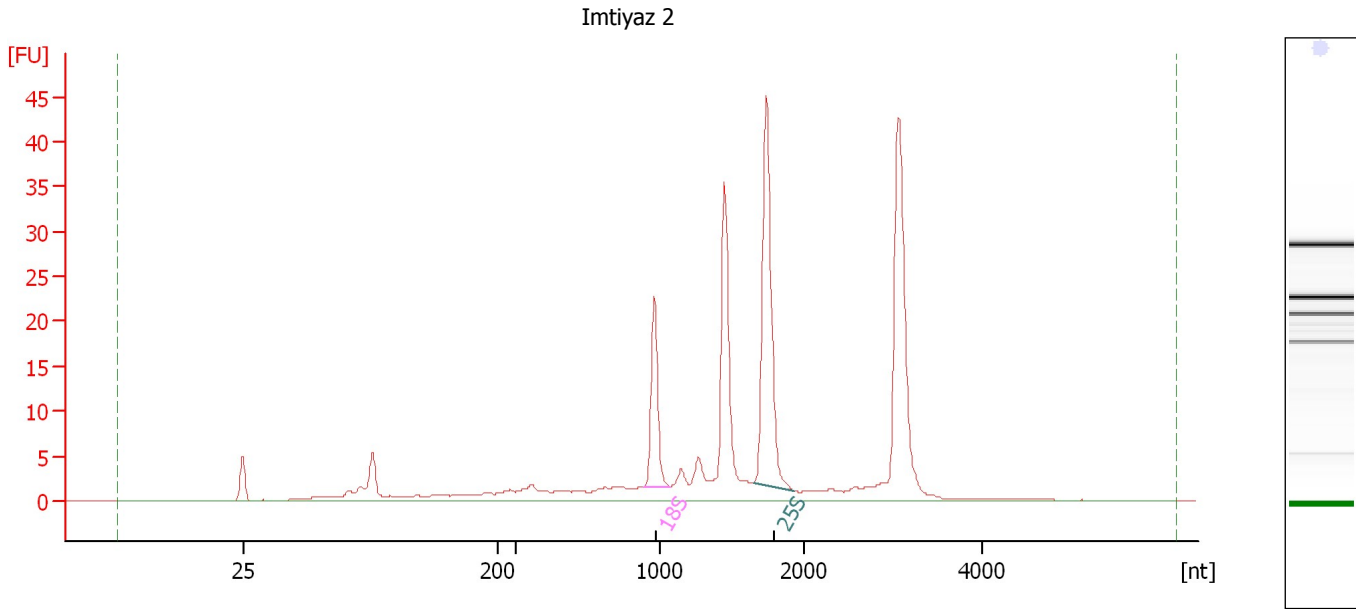
Fragment table for sample 1 : Imtiyaz 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	943	1,081	20.4	8.9
25S	1,648	1,939	45.1	19.6

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Imtiyaz 2

RNA Area:	215.8	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	591 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.4	Result Flagging Label:	RIN: 8.50

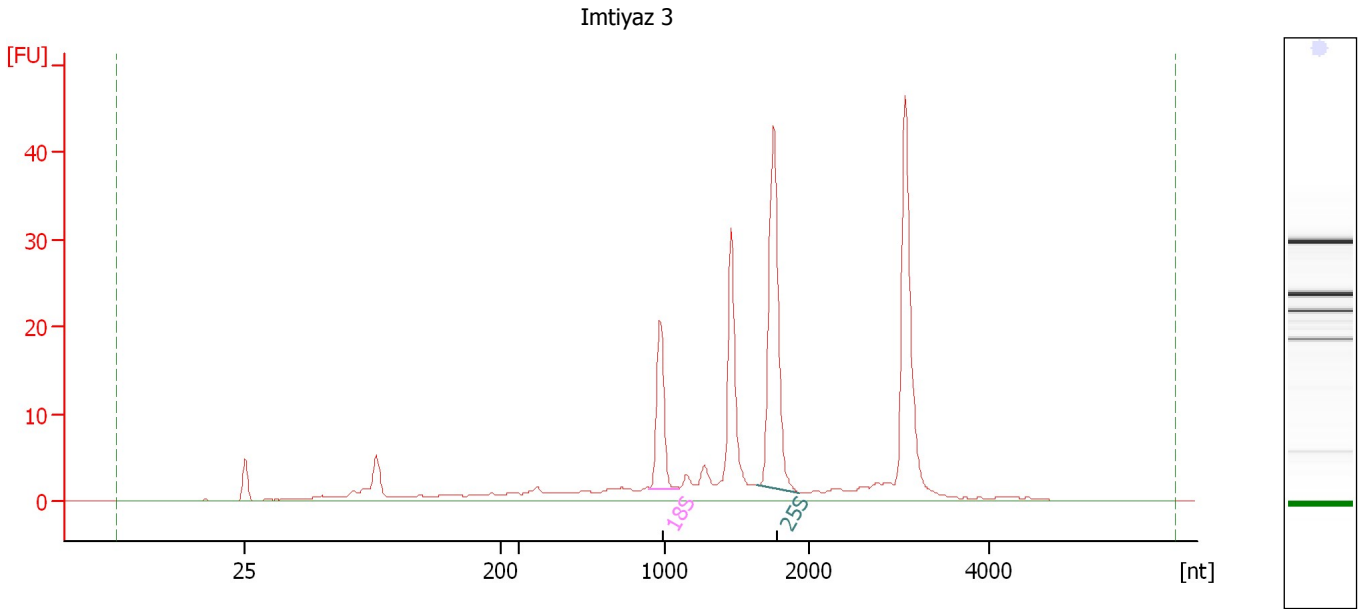
Fragment table for sample 2 : Imtiyaz 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	943	1,072	17.7	8.2
25S	1,650	1,931	42.5	19.7

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Imtiyaz 3

RNA Area:	207.4	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	568 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.6	Result Flagging Label:	RIN: 8.50

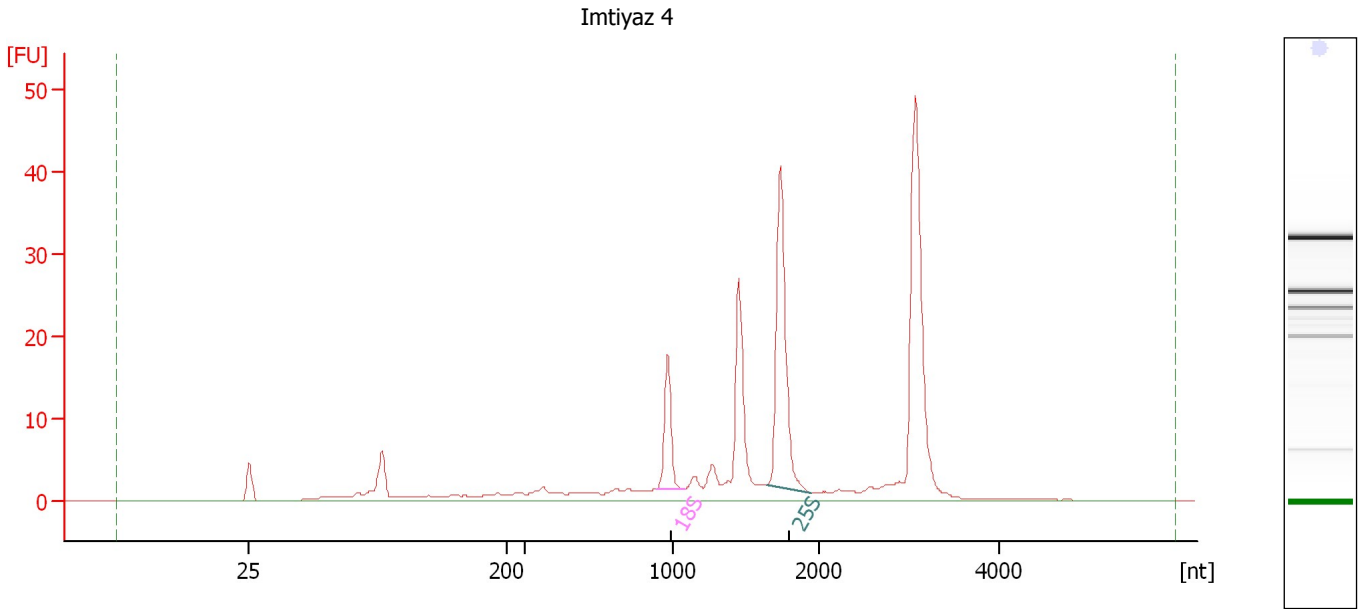
Fragment table for sample 3 : Imtiyaz 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	946	1,099	16.3	7.8
25S	1,629	1,923	41.6	20.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Imtiyaz 4

RNA Area:	201.1	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	551 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.9	Result Flagging Label:	RIN: 8.40

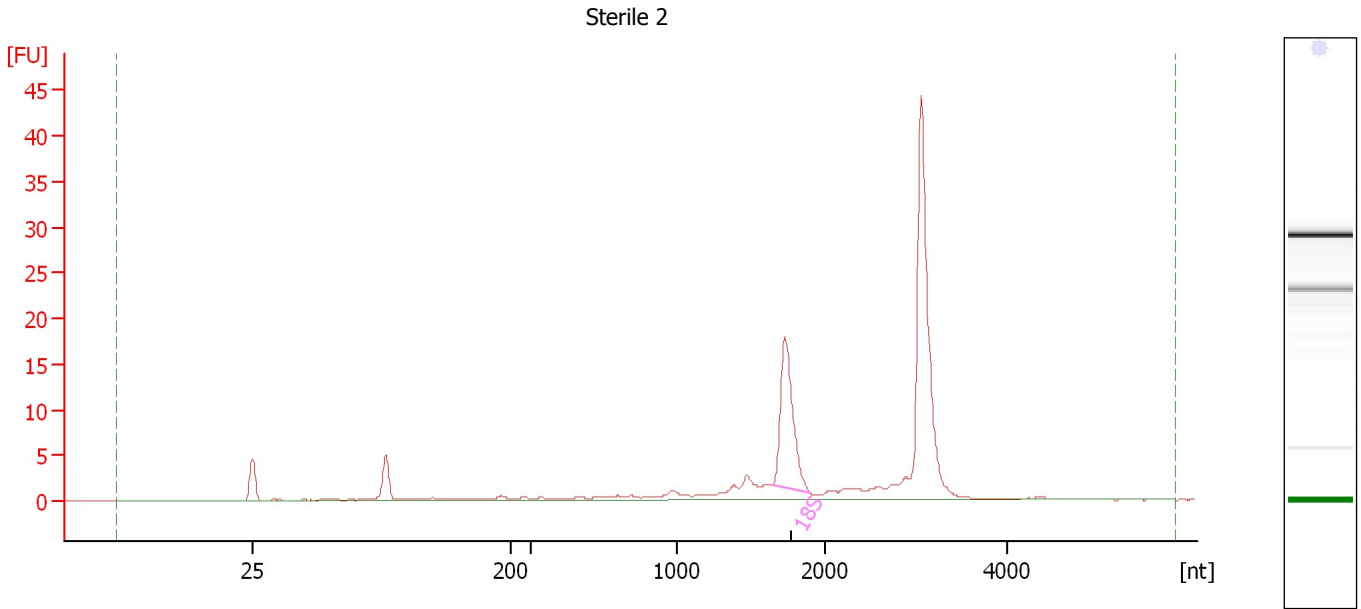
Fragment table for sample 4 : Imtiyaz 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	946	1,083	13.5	6.7
25S	1,645	1,944	39.6	19.7

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sterile 2

RNA Area: 110.0 RNA Integrity Number (RIN): 6.3 (B.02.08)
RNA Concentration: 302 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 6.30

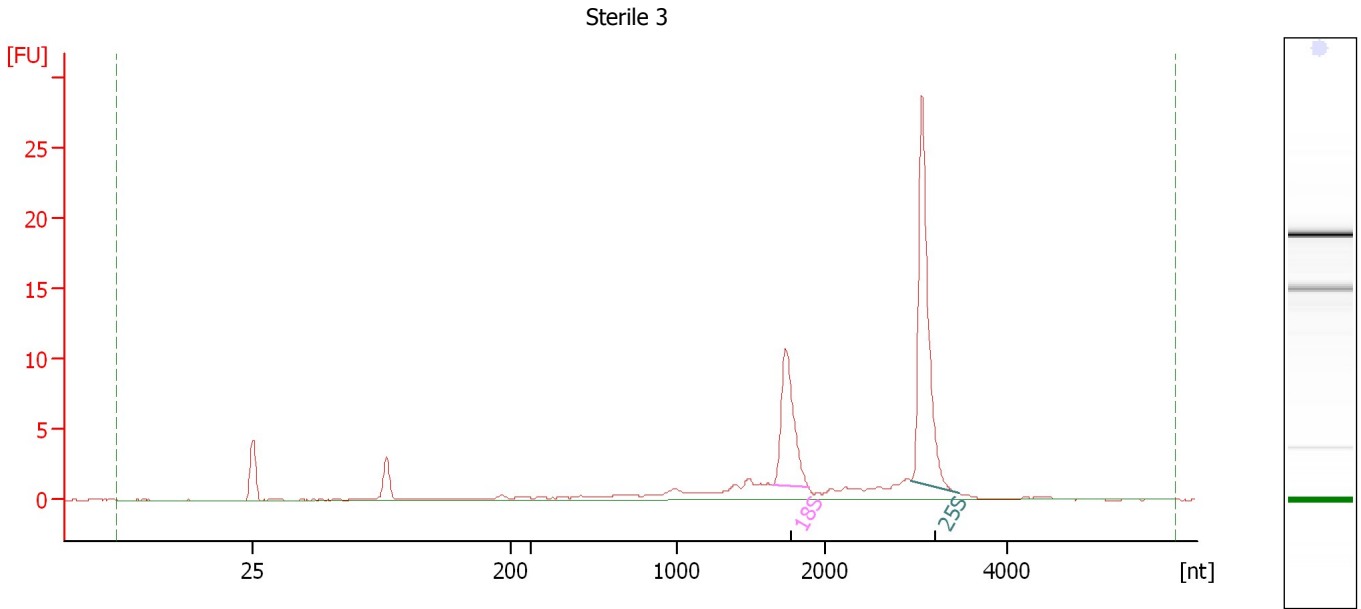
Fragment table for sample 5 : Sterile 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,644	1,898	21.1	19.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sterile 3

RNA Area: 69.8 RNA Integrity Number (RIN): 6.2 (B.02.08)
RNA Concentration: 191 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.0 Result Flagging Label: RIN: 6.20

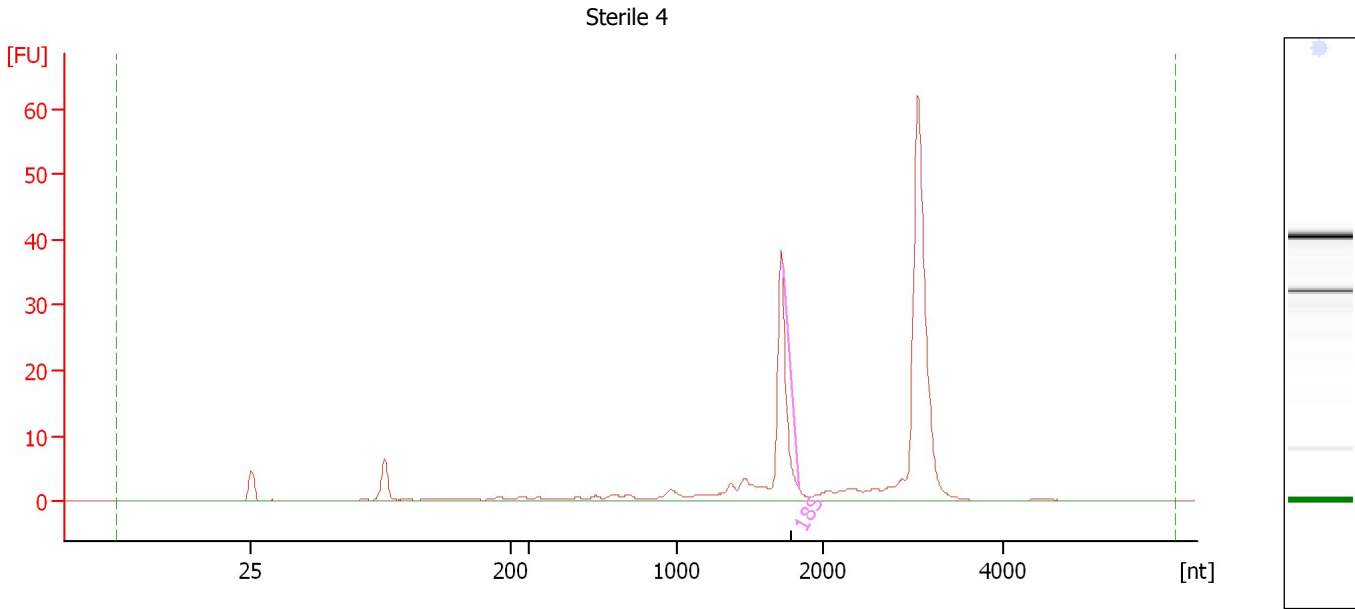
Fragment table for sample 6 : Sterile 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,644	1,885	12.6	18.1
25S	2,942	3,484	25.3	36.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sterile 4

RNA Area:	161.3	RNA Integrity Number (RIN):	6.3 (B.02.08)
RNA Concentration:	442 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.30

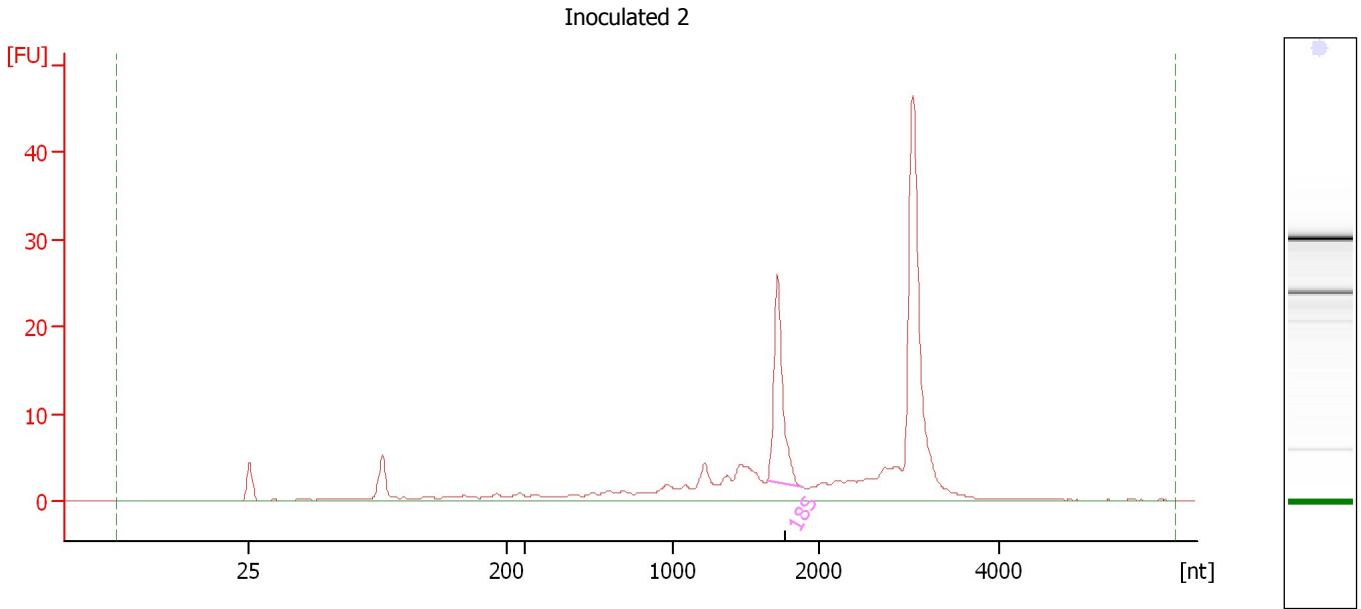
Fragment table for sample 7 : Sterile 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,725	1,832	0.0	0.0

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Inoculated 2

RNA Area:	152.8	RNA Integrity Number (RIN):	5.8 (B.02.08)
RNA Concentration:	419 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 5.80

Fragment table for sample 8 : Inoculated 2

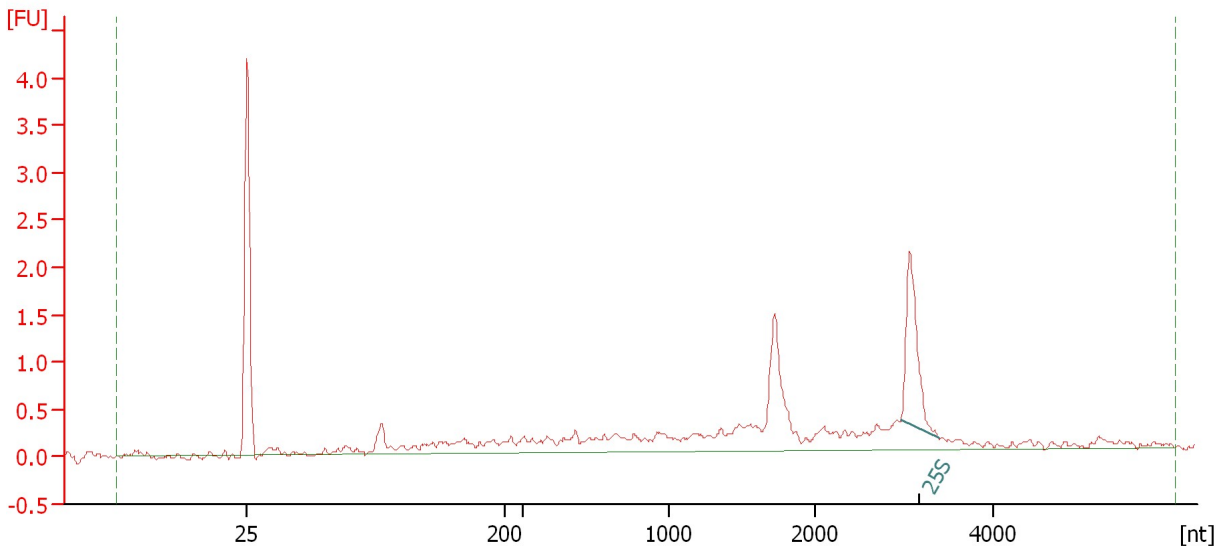
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,654	1,887	23.2	15.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Electropherogram Summary Continued ...

Inoculated 4



Overall Results for sample 9 : Inoculated 4

RNA Area:	13.9	RNA Integrity Number (RIN):	4.7 (B.02.08)
RNA Concentration:	38 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 4.70

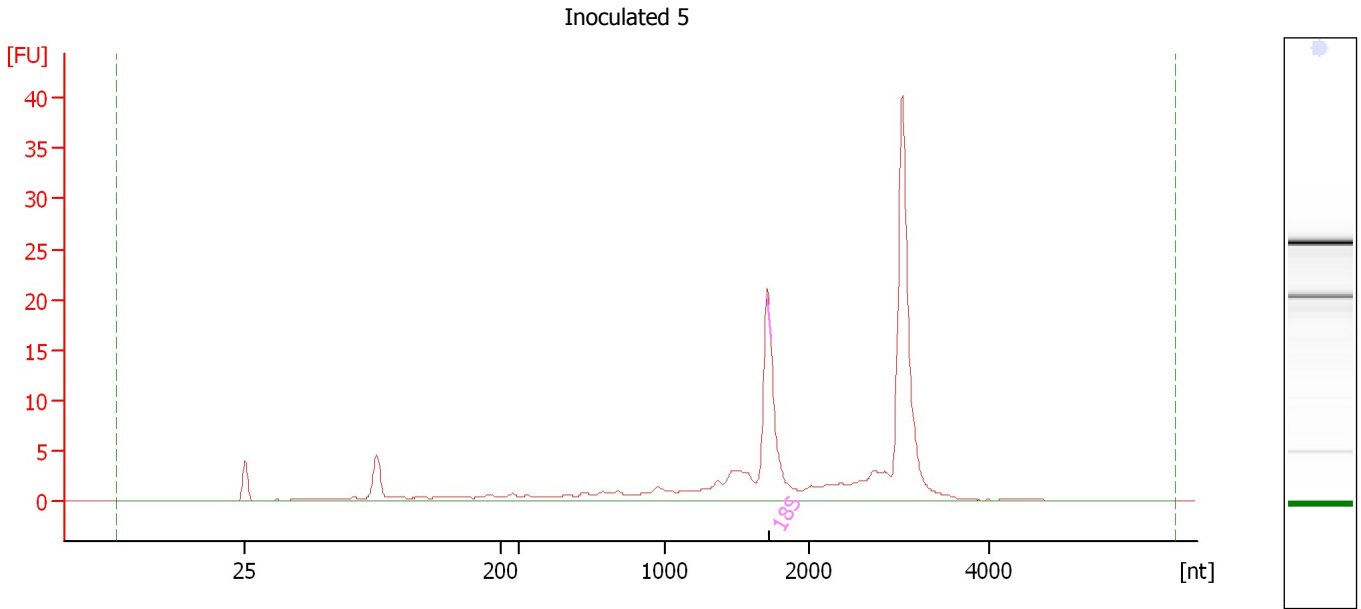
Fragment table for sample 9 : Inoculated 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,962	3,379	1.9	13.9

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Inoculated 5

RNA Area: 125.9 RNA Integrity Number (RIN): 6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 345 ng/μl
rRNA Ratio [25s / 18s]: 0.0
Result Flagging Color:
Result Flagging Label: RIN:6

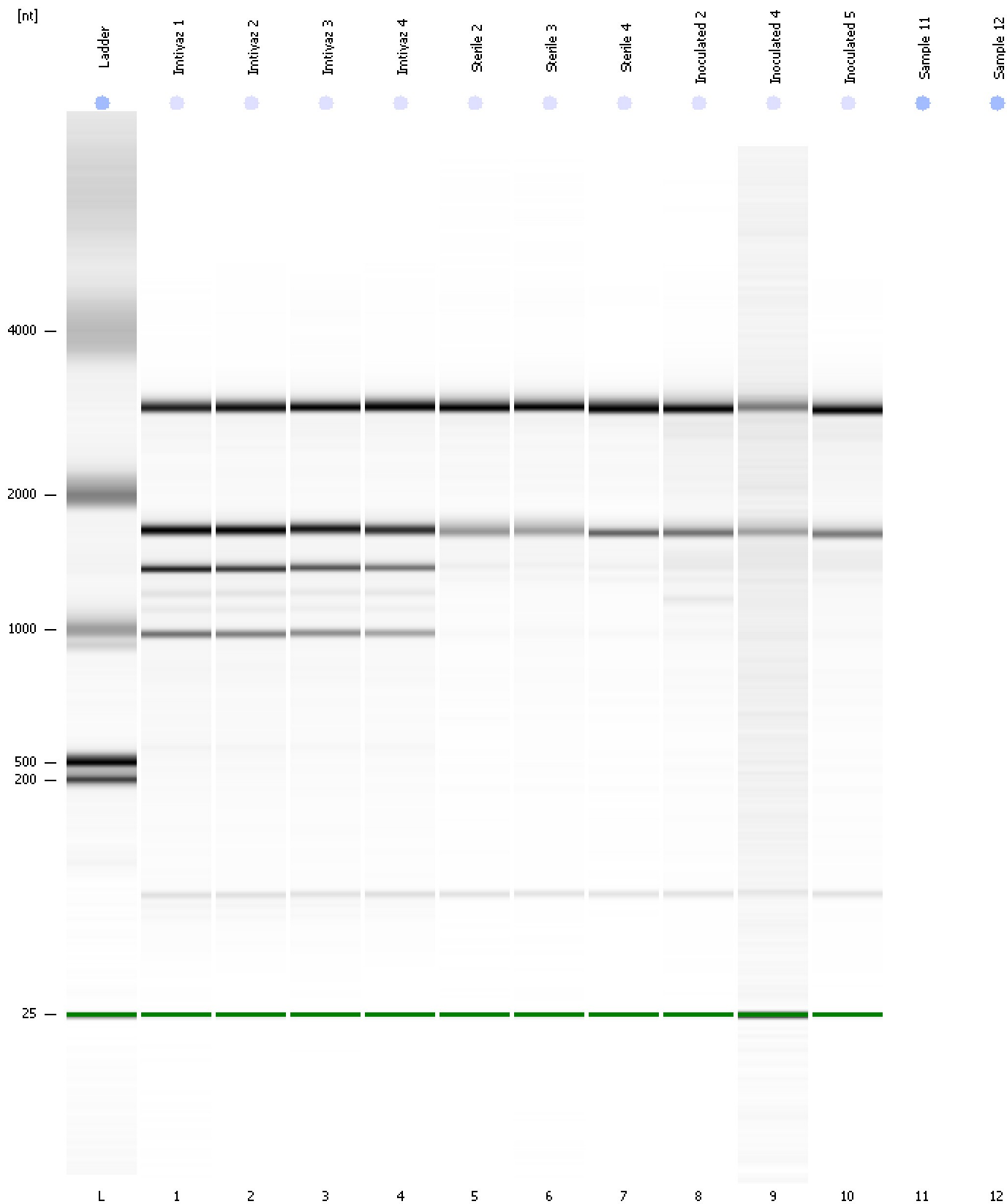
Fragment table for sample 10 : Inoculated 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,703	1,730	0.6	0.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Gel Image

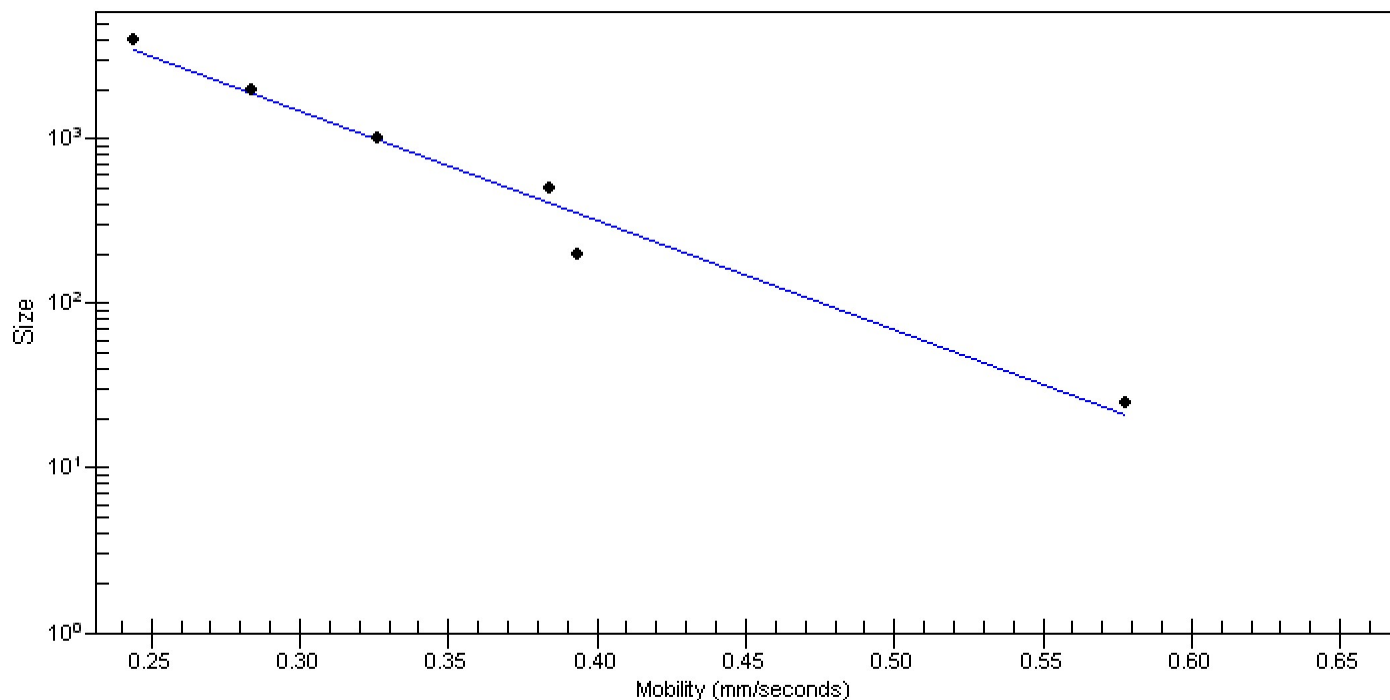


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Curves

Standard Curve



Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
Modified: 6/24/2016 12:08:54 PM

Invalid Samples

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad

Created: 6/24/2016 11:38:19 AM
 Modified: 6/24/2016 12:08:54 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		6/24/2016 11:59:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_002.xad)		Instrument	Run		6/24/2016 11:38:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/24/2016 11:38:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/24/2016 11:38:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/24/2016 11:38:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/24/2016 11:38:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/24/2016 11:38:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/24/2016 11:38:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1