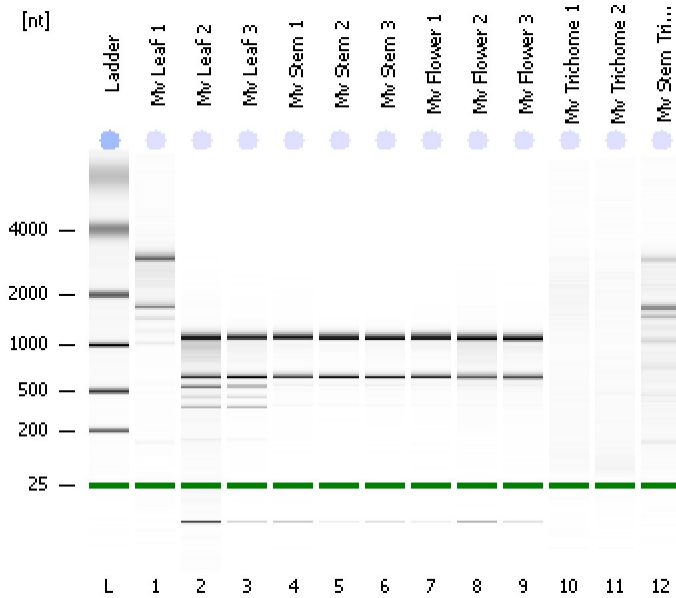


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 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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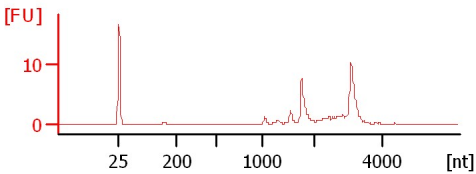
Chip Information:

Chip Lot #:

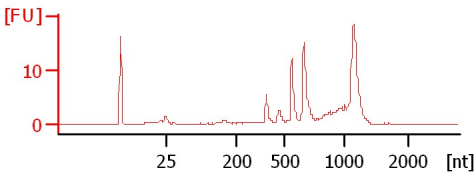
Reagent Kit Lot #:

Chip Comments:

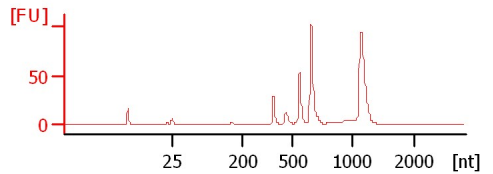
Mv Leaf 1
RIN: 8.60



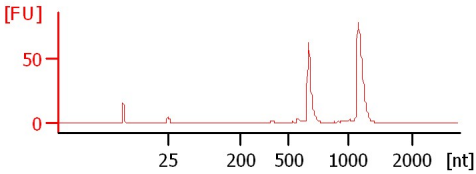
Mv Leaf 2
RIN: 5.80



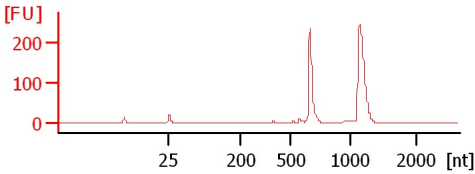
Mv Leaf 3
RIN: 5.90



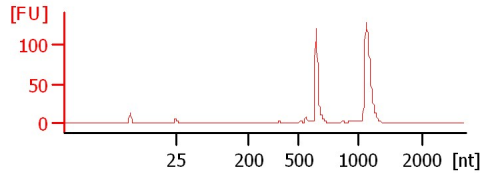
Mv Stem 1
RIN: 6.50



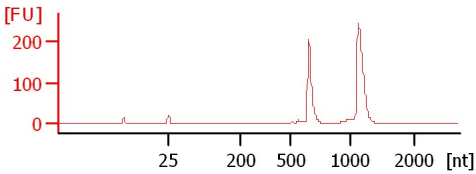
Mv Stem 2
RIN: 6.70



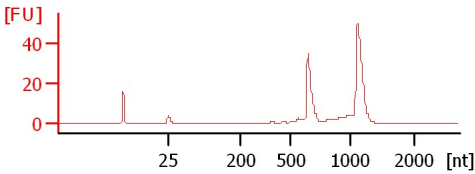
Mv Stem 3
RIN: 6.50



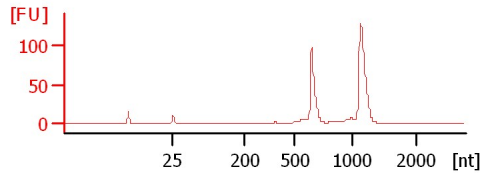
Mv Flower 1
RIN: 6.60



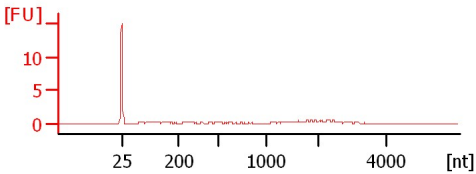
Mv Flower 2
RIN: 6.20



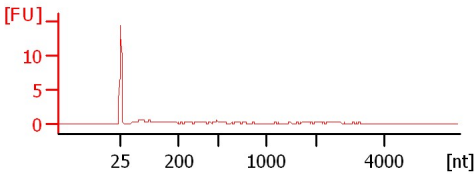
Mv Flower 3
RIN: 6.40



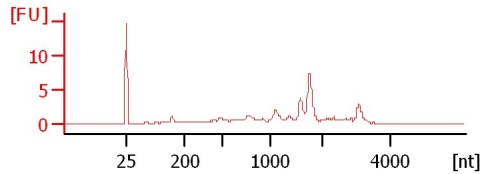
Mv Trichome 1
RIN: 1



Mv Trichome 2
RIN: 1



Mv Stem Trichomes
RIN: 6.80



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
 Modified: 10/6/2015 2:50:22 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Mv Leaf 1		✓	RIN: 8.60	
Mv Leaf 2		✓	RIN: 5.80	
Mv Leaf 3		✓	RIN: 5.90	
Mv Stem 1		✓	RIN: 6.50	
Mv Stem 2		✓	RIN: 6.70	
Mv Stem 3		✓	RIN: 6.50	
Mv Flower 1		✓	RIN: 6.60	
Mv Flower 2		✓	RIN: 6.20	
Mv Flower 3		✓	RIN: 6.40	
Mv Trichome 1		✓	RIN:1	
Mv Trichome 2		✓	RIN:1	
Mv Stem Trichomes		✓	RIN: 6.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ μ l] : 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

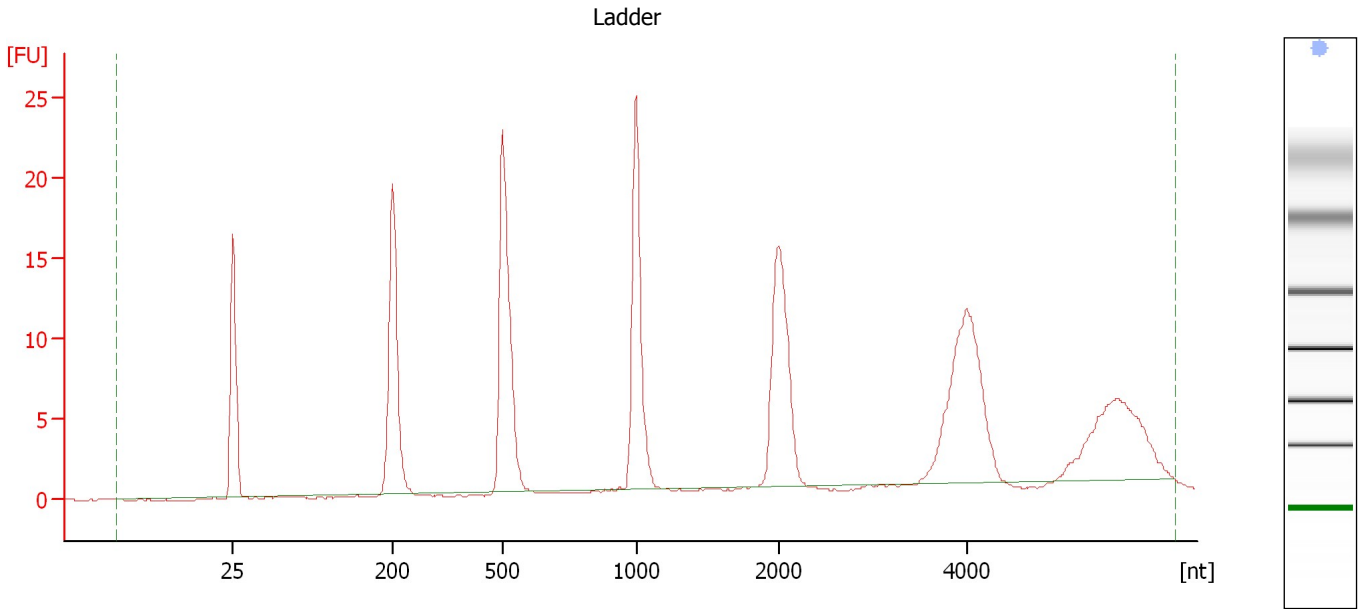
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Electropherogram Summary



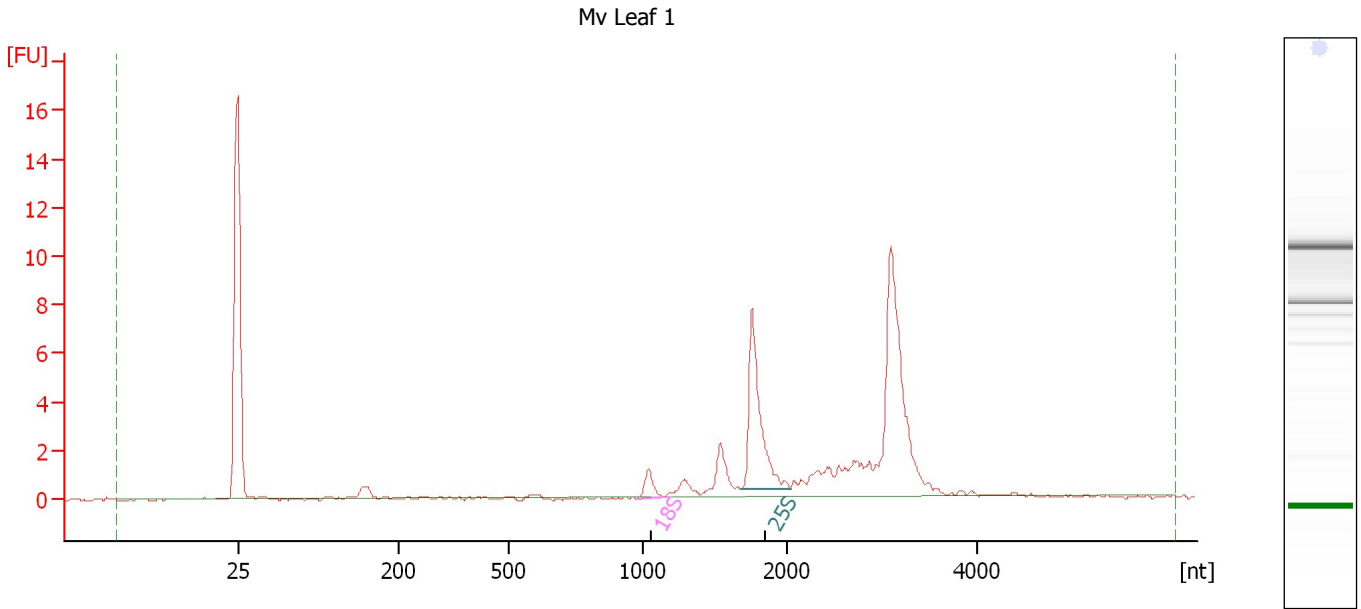
Overall Results for Ladder

RNA Area:	161.3	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Mv Leaf 1

RNA Area: 41.9 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 39 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 7.4 Result Flagging Label: RIN: 8.60

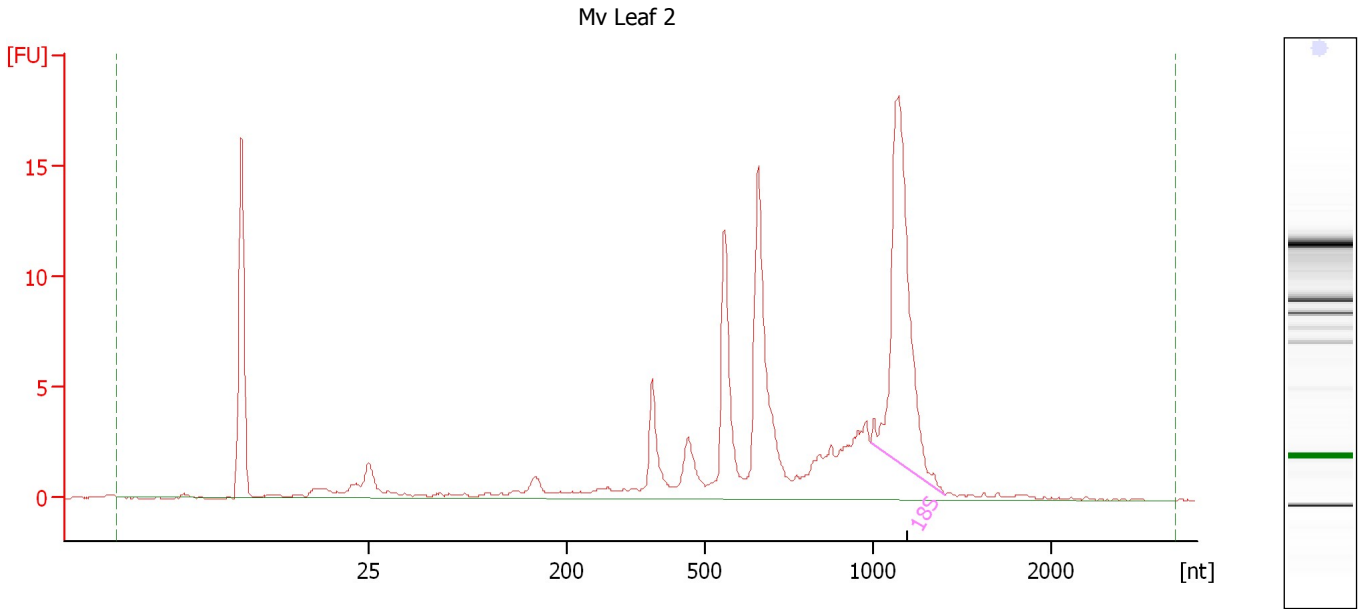
Fragment table for sample 1 : Mv Leaf 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	972	1,141	1.2	2.9
25S	1,678	2,032	8.9	21.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Mv Leaf 2

RNA Area:	124.0	RNA Integrity Number (RIN):	5.8 (B.02.08)
RNA Concentration:	115 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 5.80

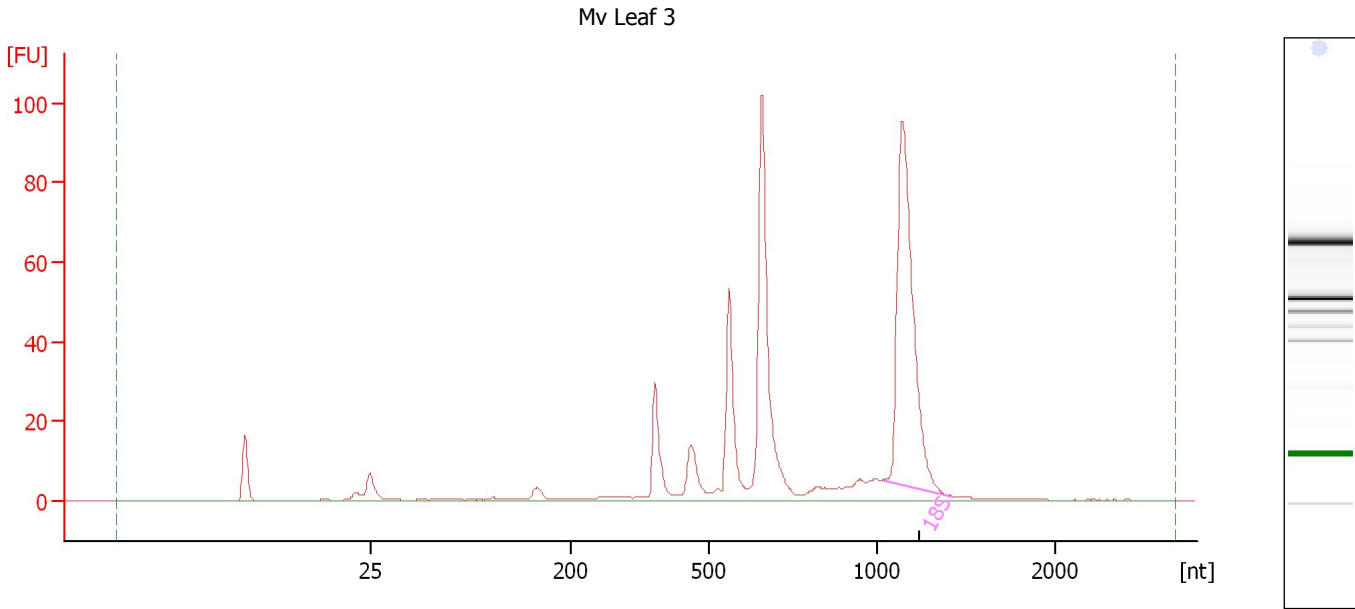
Fragment table for sample 2 : Mv Leaf 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	992	1,407	27.8	22.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Mv Leaf 3

RNA Area:	428.8	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	399 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 5.90

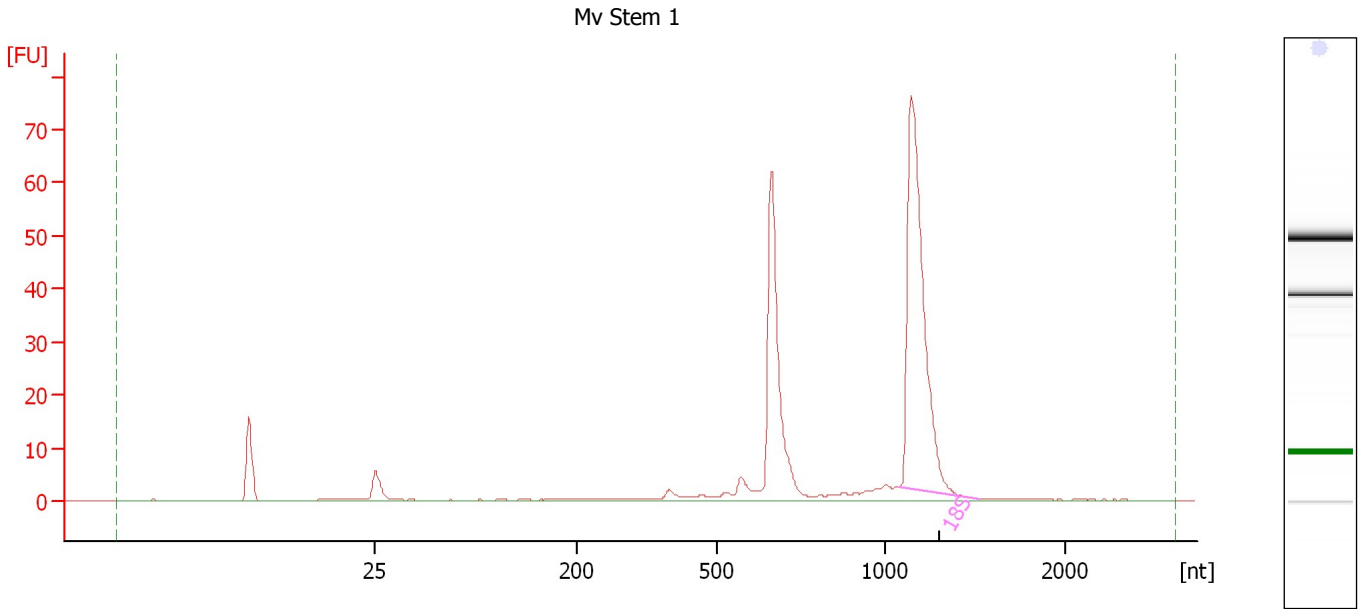
Fragment table for sample 3 : Mv Leaf 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,043	1,426	136.5	31.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Mv Stem 1

RNA Area: 248.0 RNA Integrity Number (RIN): 6.5 (B.02.08)
RNA Concentration: 231 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 6.50

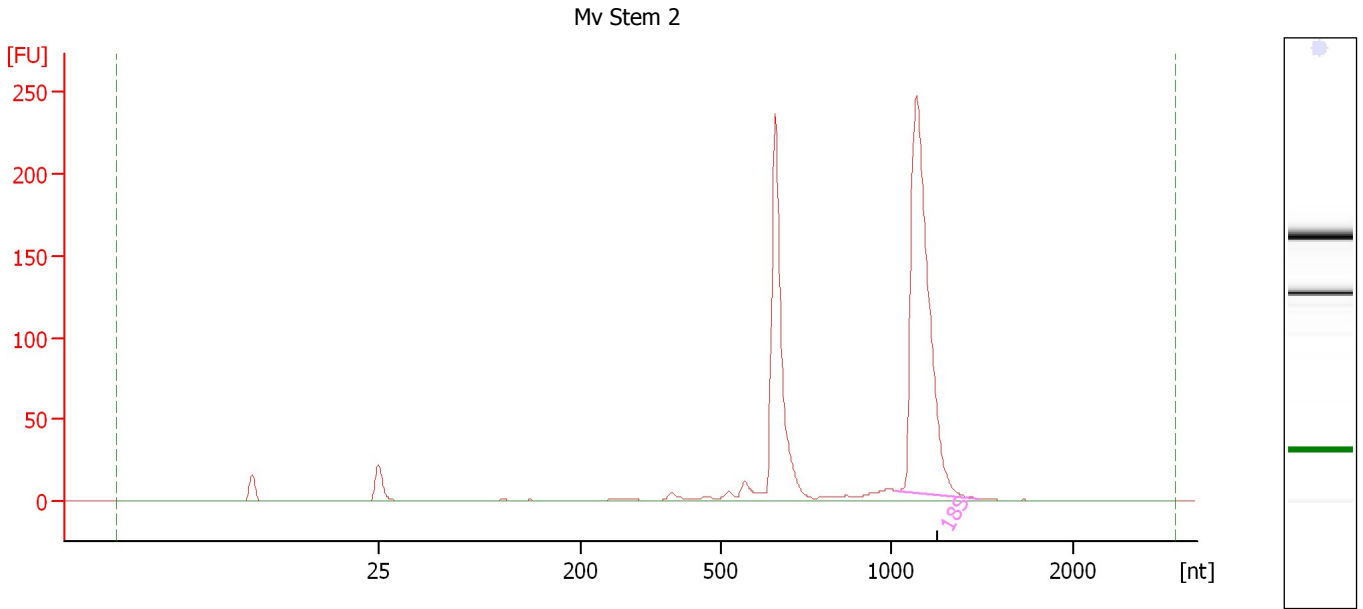
Fragment table for sample 4 : Mv Stem 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,068	1,519	110.9	44.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Mv Stem 2

RNA Area:	775.7	RNA Integrity Number (RIN):	6.7 (B.02.08)
RNA Concentration:	721 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.70

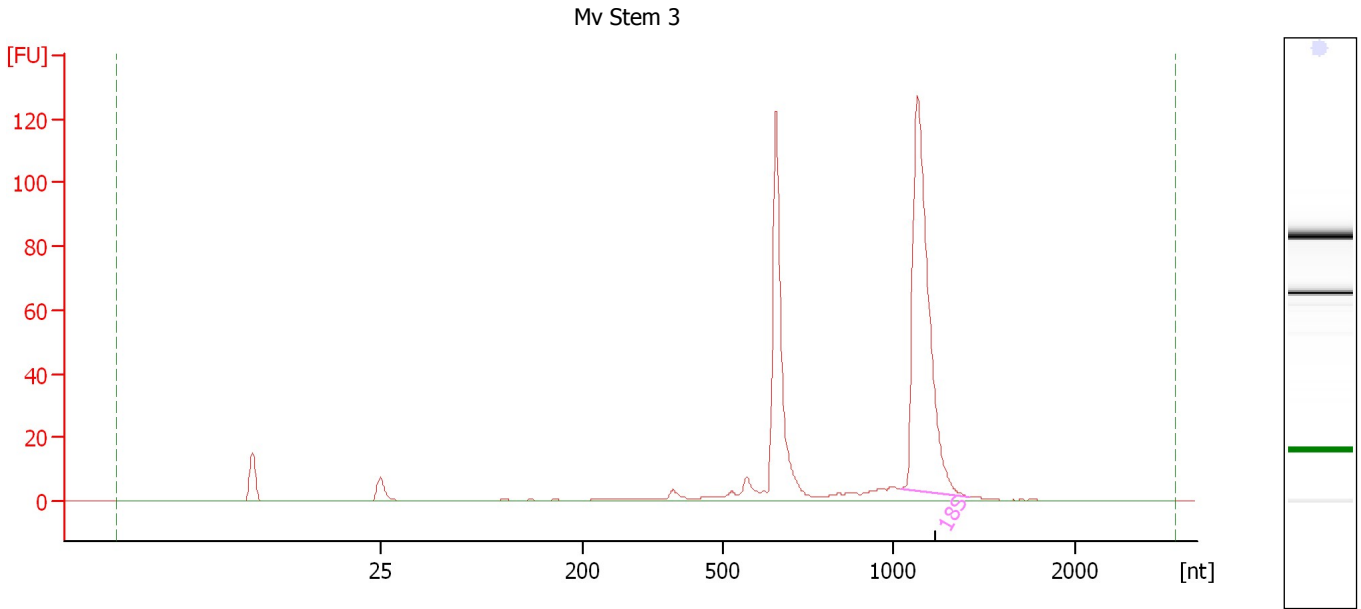
Fragment table for sample 5 : Mv Stem 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,025	1,480	394.9	50.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Mv Stem 3

RNA Area:	384.4	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	357 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.50

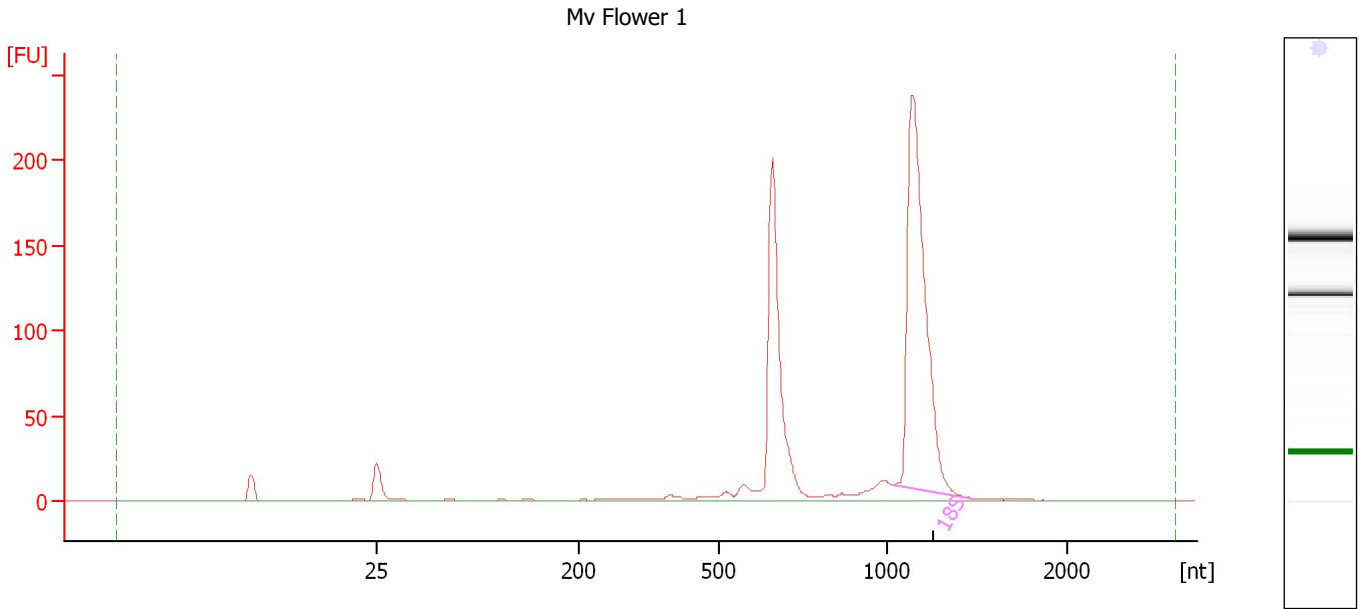
Fragment table for sample 6 : Mv Stem 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,044	1,415	182.8	47.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Mv Flower 1

RNA Area:	785.1	RNA Integrity Number (RIN):	6.6 (B.02.08)
RNA Concentration:	730 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.60

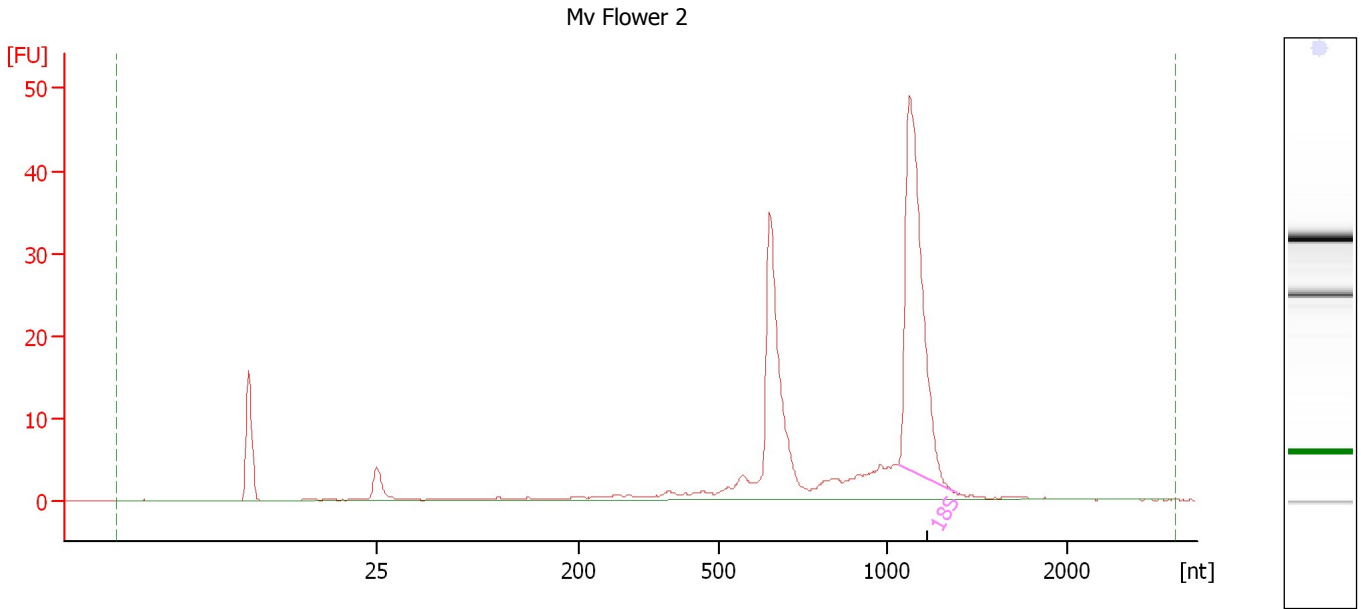
Fragment table for sample 7 : Mv Flower 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,034	1,472	379.8	48.4

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
 Modified: 10/6/2015 2:50:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Mv Flower 2

RNA Area:	199.0	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	185 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.20

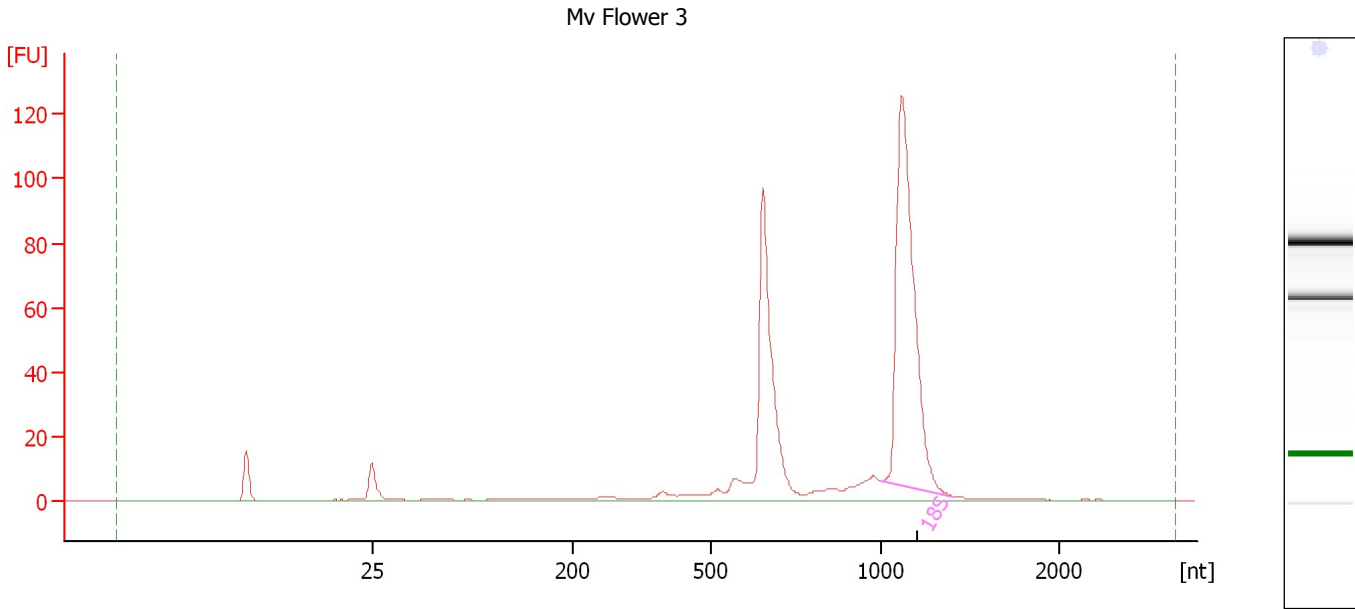
Fragment table for sample 8 : Mv Flower 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,057	1,383	71.4	35.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Mv Flower 3

RNA Area: 466.8 RNA Integrity Number (RIN): 6.4 (B.02.08)
RNA Concentration: 434 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 6.40

Fragment table for sample 9 : Mv Flower 3

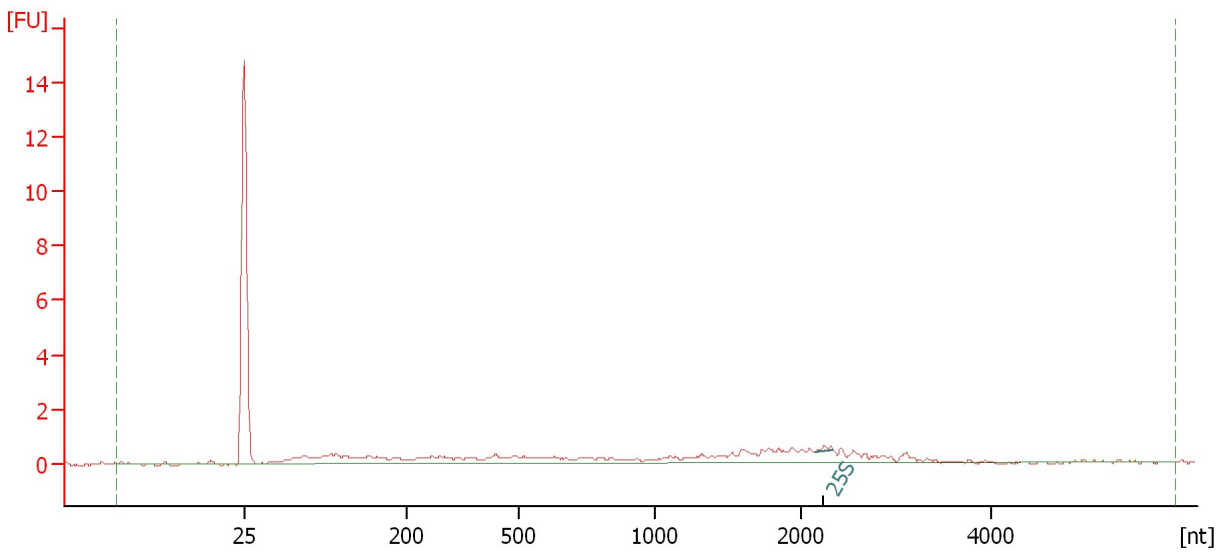
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,004	1,404	200.2	42.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Electropherogram Summary Continued ...

Mv Trichome 1



Overall Results for sample 10 : Mv Trichome 1

RNA Area:	14.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	14 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:1

Fragment table for sample 10 : Mv Trichome 1

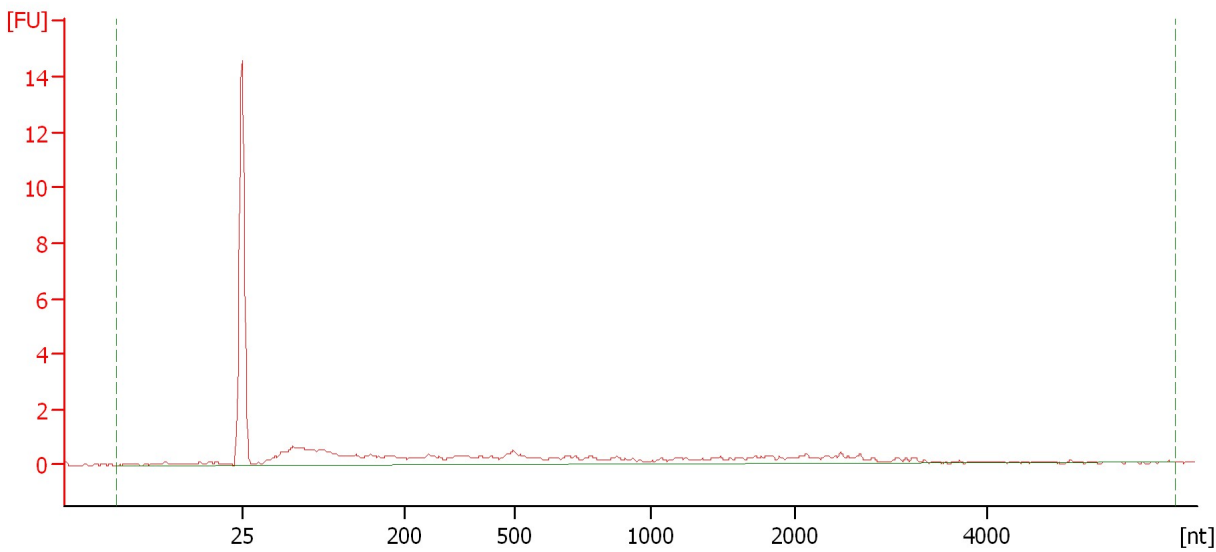
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,164	2,354	0.2	1.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Electropherogram Summary Continued ...

Mv Trichome 2



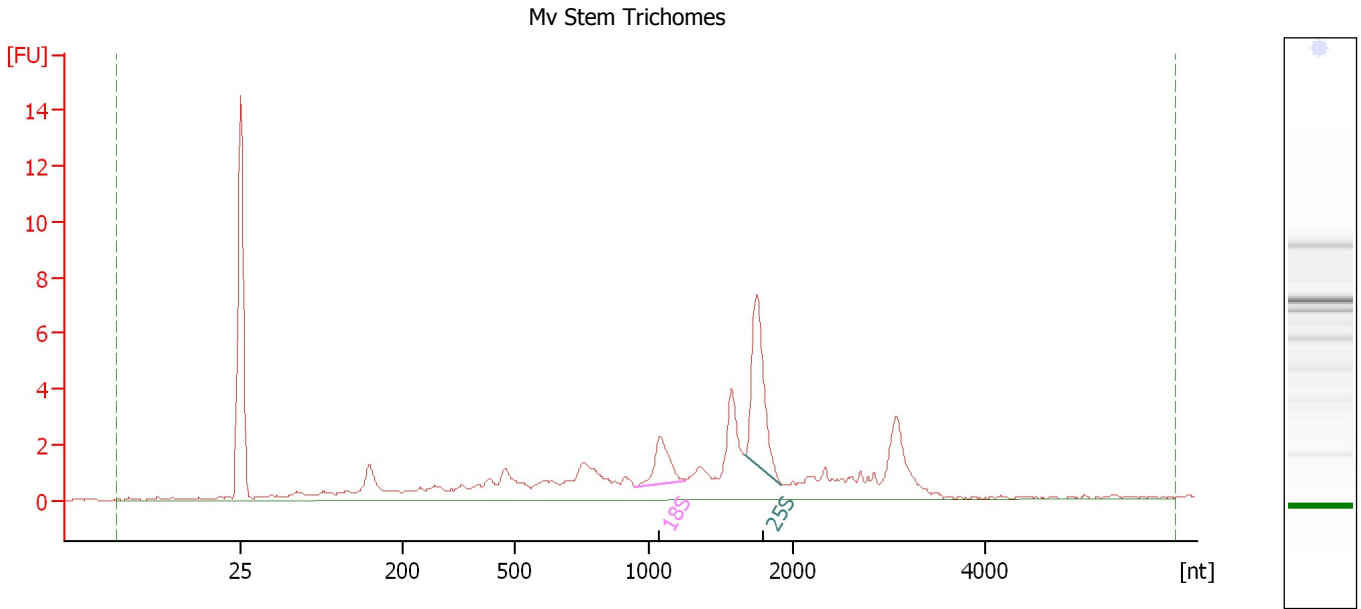
Overall Results for sample 11 : Mv Trichome 2

RNA Area:	21.6	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	20 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Mv Stem Trichomes

RNA Area: 62.7 RNA Integrity Number (RIN): 6.8 (B.02.08)
RNA Concentration: 58 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.8 Result Flagging Label: RIN: 6.80

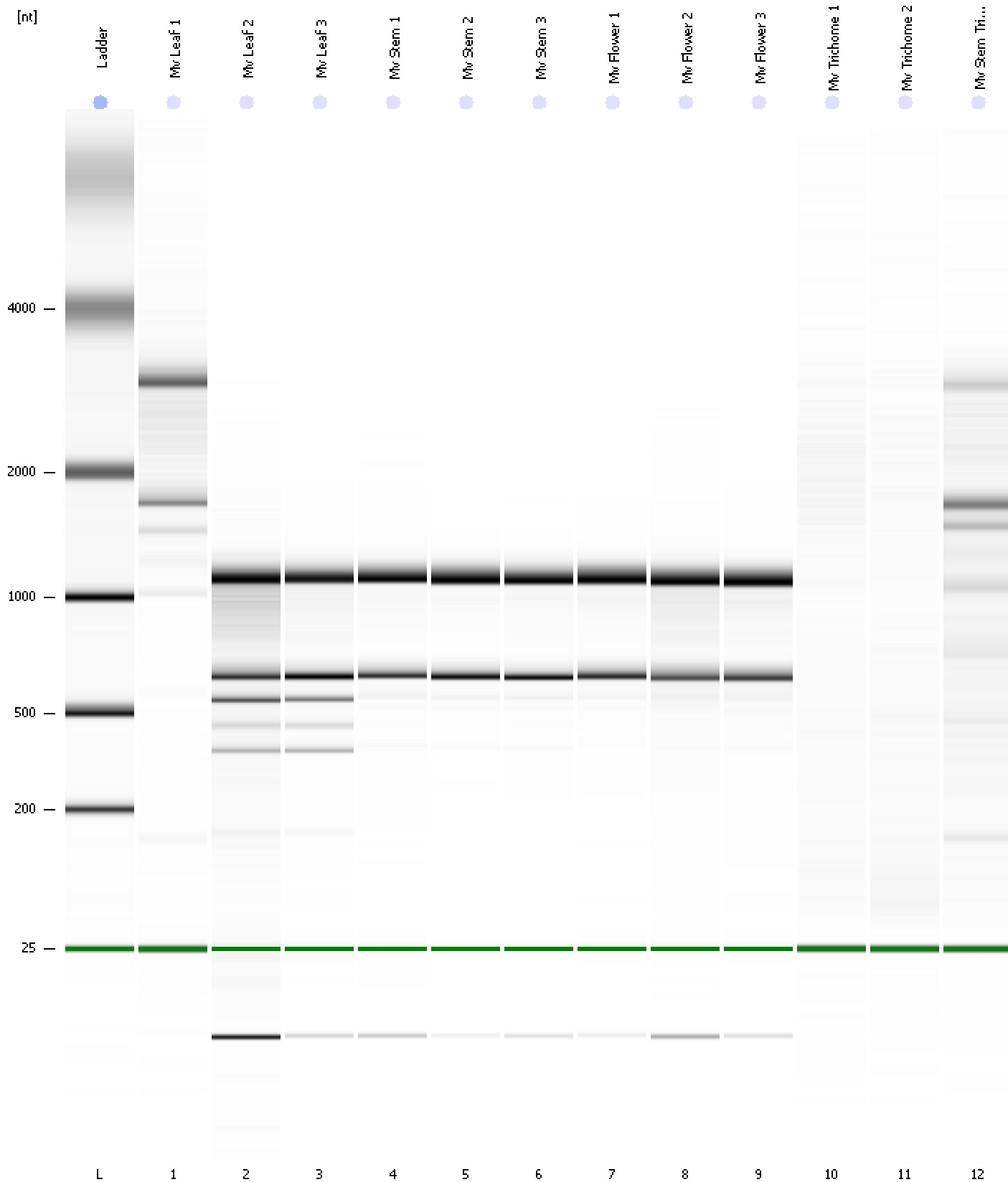
Fragment table for sample 12 : Mv Stem Trichomes

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	947	1,249	2.9	4.6
25S	1,657	1,917	8.0	12.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Gel Image

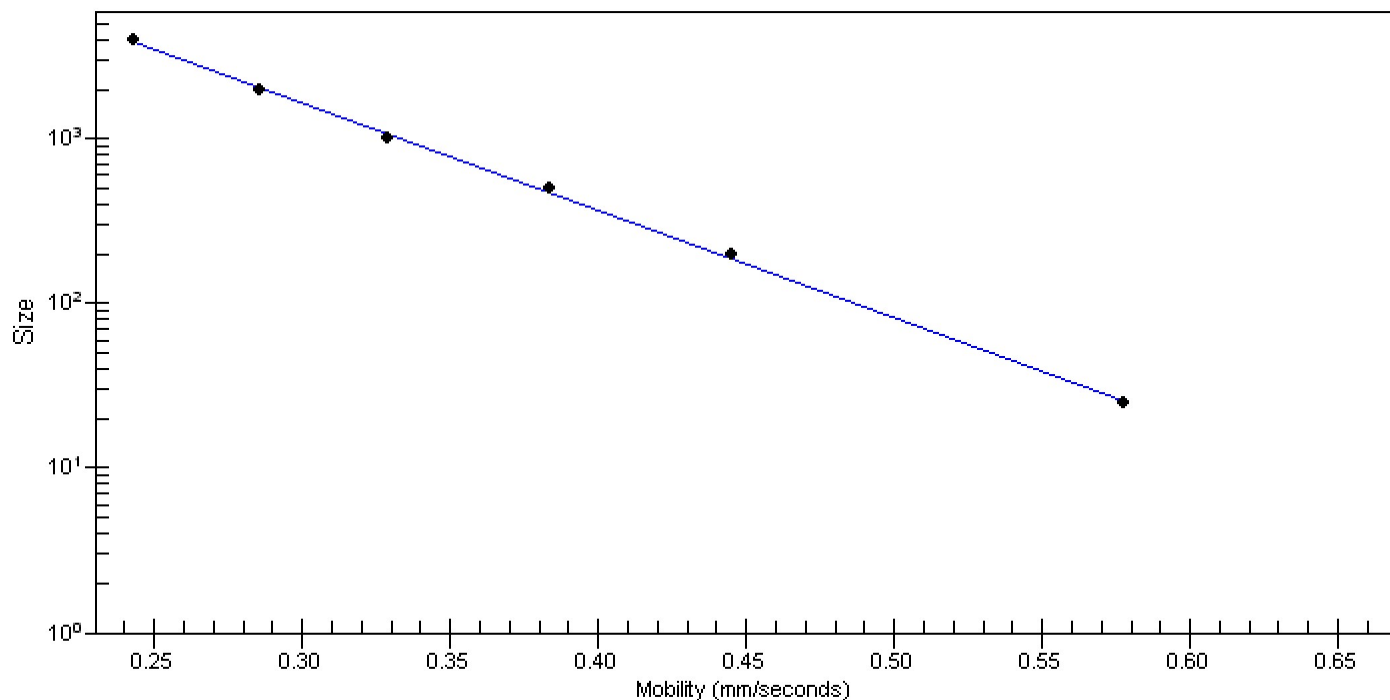


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
Modified: 10/6/2015 2:50:22 PM

Curves

Standard Curve



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad

Created: 10/6/2015 2:26:34 PM
 Modified: 10/6/2015 2:50:22 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		10/6/2015 2:50:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-06\2015-10-06_002.xad)		Instrument	Run		10/6/2015 2:26:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/6/2015 2:26:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/6/2015 2:26:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/6/2015 2:26:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/6/2015 2:26:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/6/2015 2:26:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/6/2015 2:26:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1