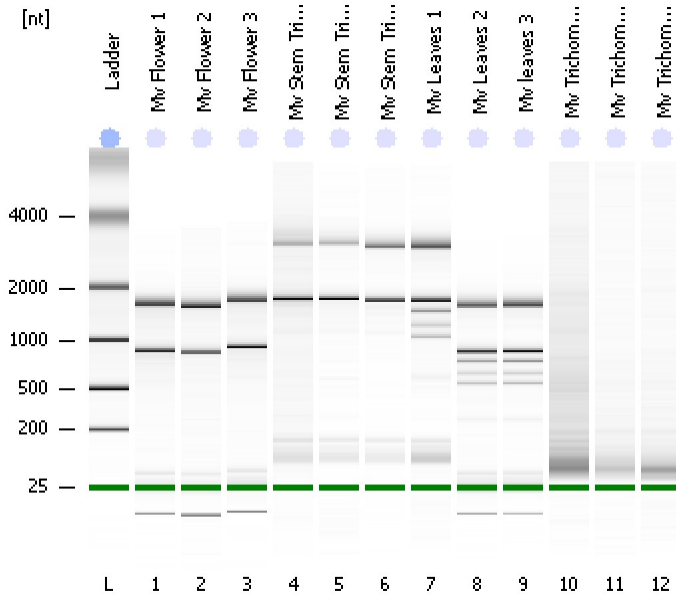


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 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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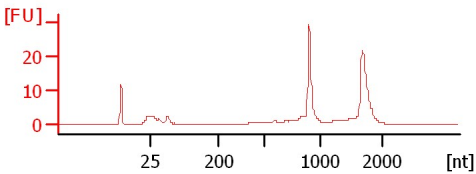
Chip Information:

Chip Lot #:

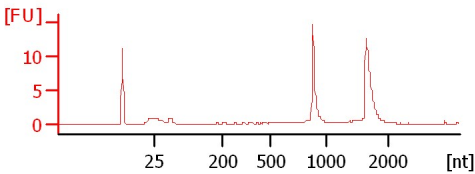
Reagent Kit Lot #:

Chip Comments:

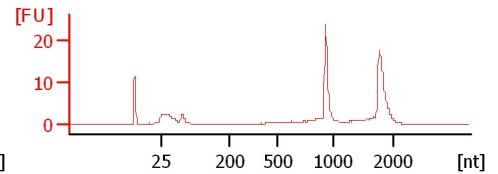
Mv Flower 1
RIN: 6.40



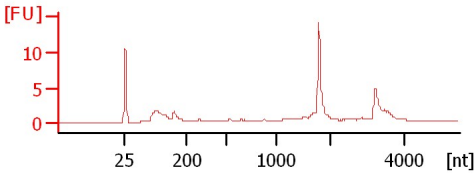
Mv Flower 2
RIN: 6.50



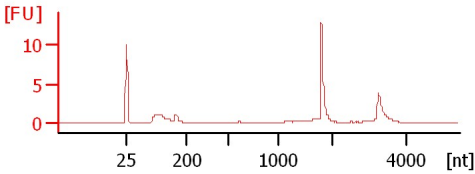
Mv Flower 3
RIN: 6.20



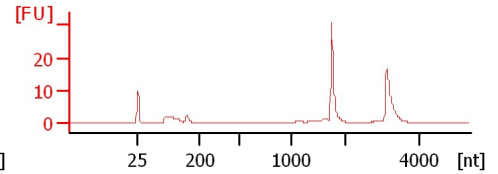
Mv Stem Trichomes 1
RIN: 6.80



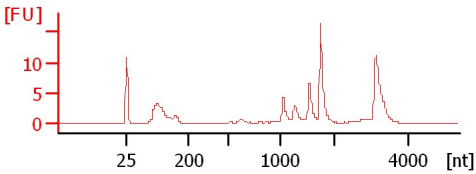
Mv Stem Trichomes 2
RIN: 7.50



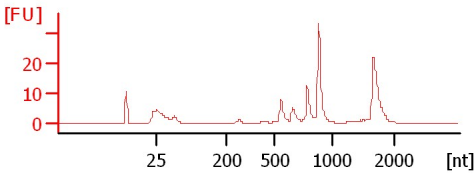
Mv Stem Trichomes 3
RIN: 7.70



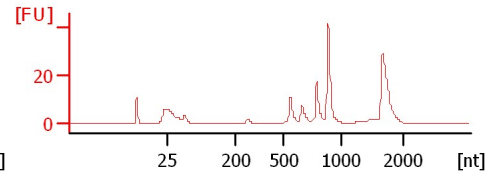
Mv Leaves 1
RIN: 8.10



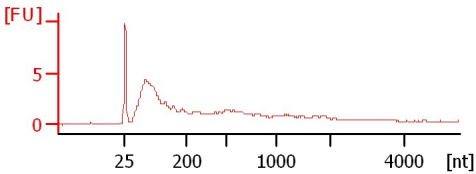
Mv Leaves 2
RIN: 5.90



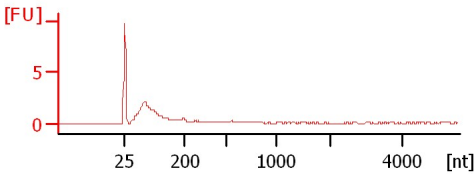
Mv leaves 3
RIN: 5.90



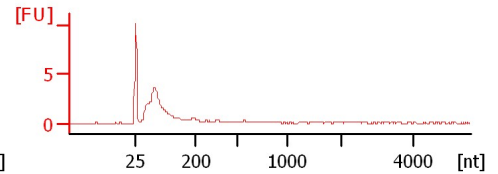
Mv Trichomes 1
RIN: 2.40



Mv Trichomes 2
RIN: 2.10



Mv Trichomes 2 (repeat)
RIN: 2.50



Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Mv Flower 1		✓	RIN: 6.40	
Mv Flower 2		✓	RIN: 6.50	
Mv Flower 3		✓	RIN: 6.20	
Mv Stem Trichomes 1		✓	RIN: 6.80	
Mv Stem Trichomes 2		✓	RIN: 7.50	
Mv Stem Trichomes 3		✓	RIN: 7.70	
Mv Leaves 1		✓	RIN: 8.10	
Mv Leaves 2		✓	RIN: 5.90	
Mv leaves 3		✓	RIN: 5.90	
Mv Trichomes 1		✓	RIN: 2.40	
Mv Trichomes 2		✓	RIN: 2.10	
Mv Trichomes 2 (repeat)		✓	RIN: 2.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 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

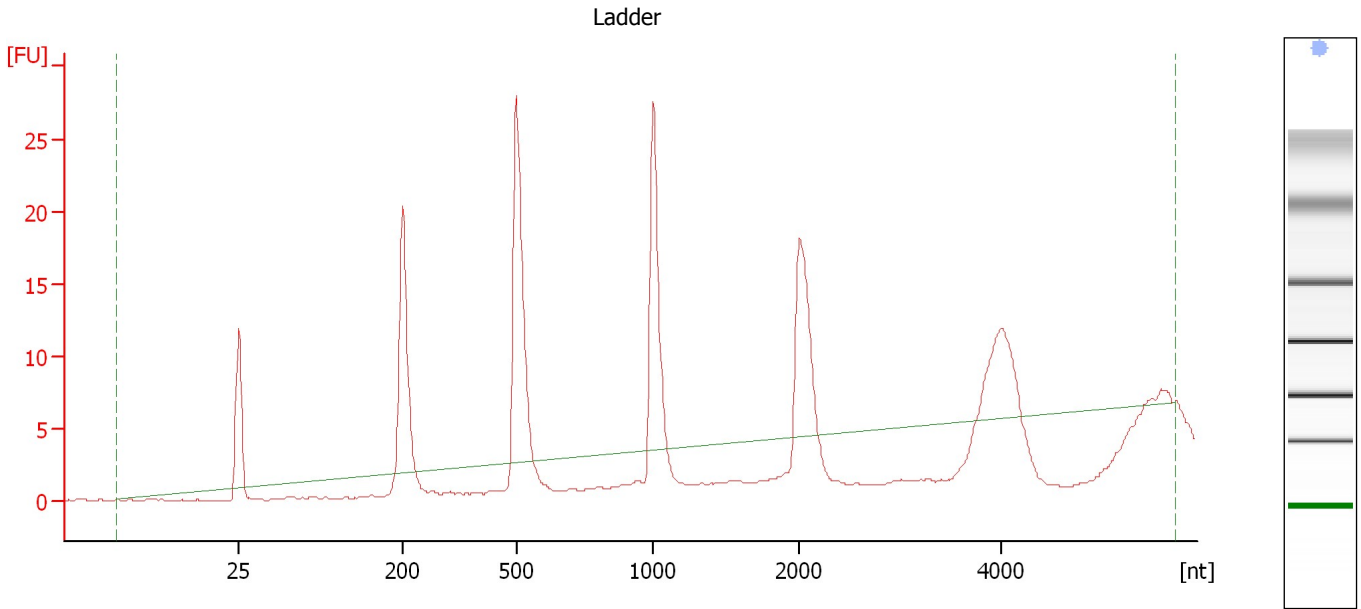
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electropherogram Summary



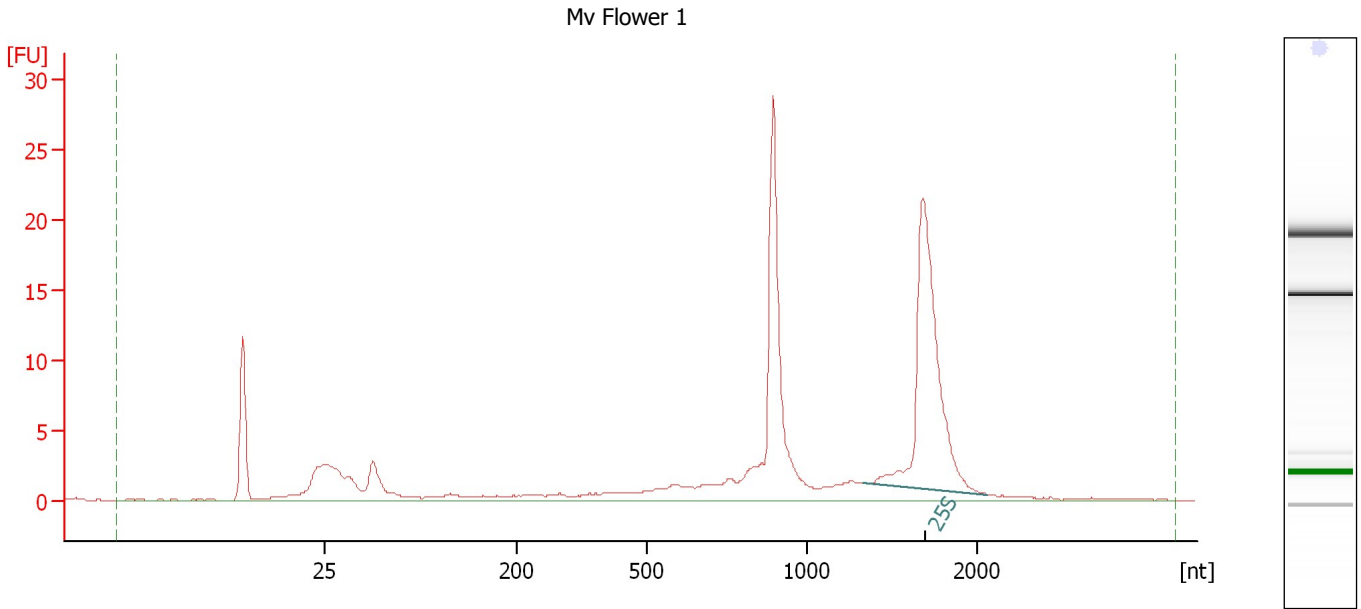
Overall Results for Ladder

RNA Area:	110.7	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Mv Flower 1

RNA Area:	140.6	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	190 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.40

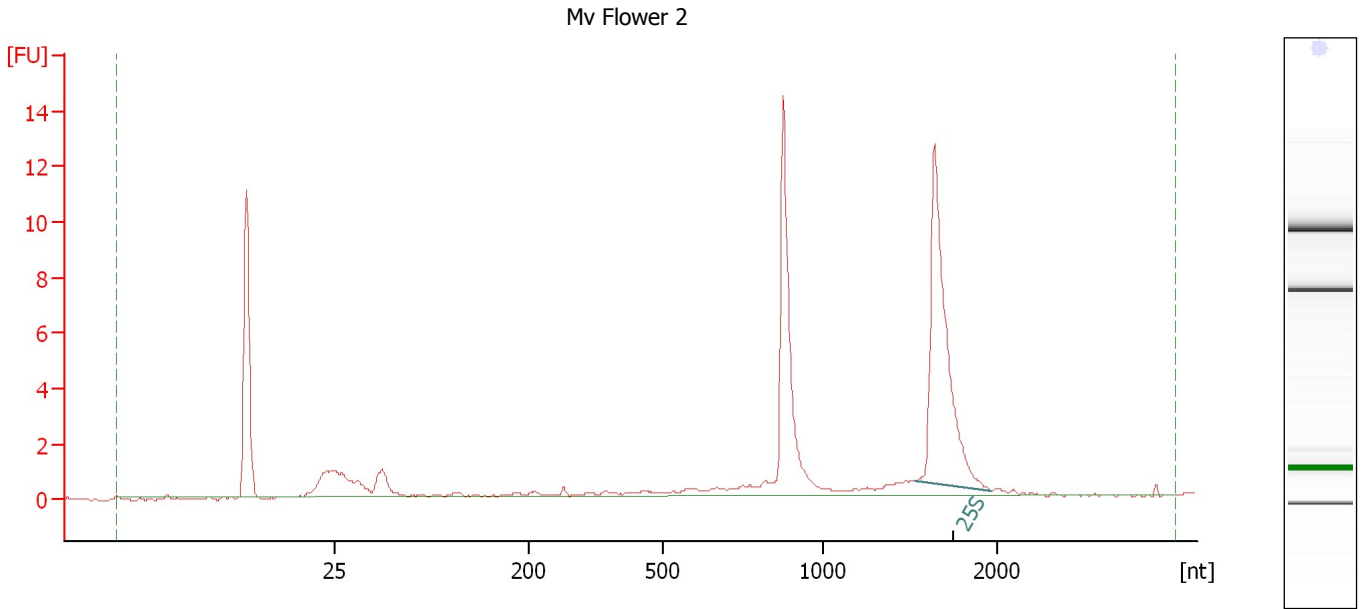
Fragment table for sample 1 : Mv Flower 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,337	2,096	40.7	29.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Mv Flower 2

RNA Area:	56.1	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	76 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.50

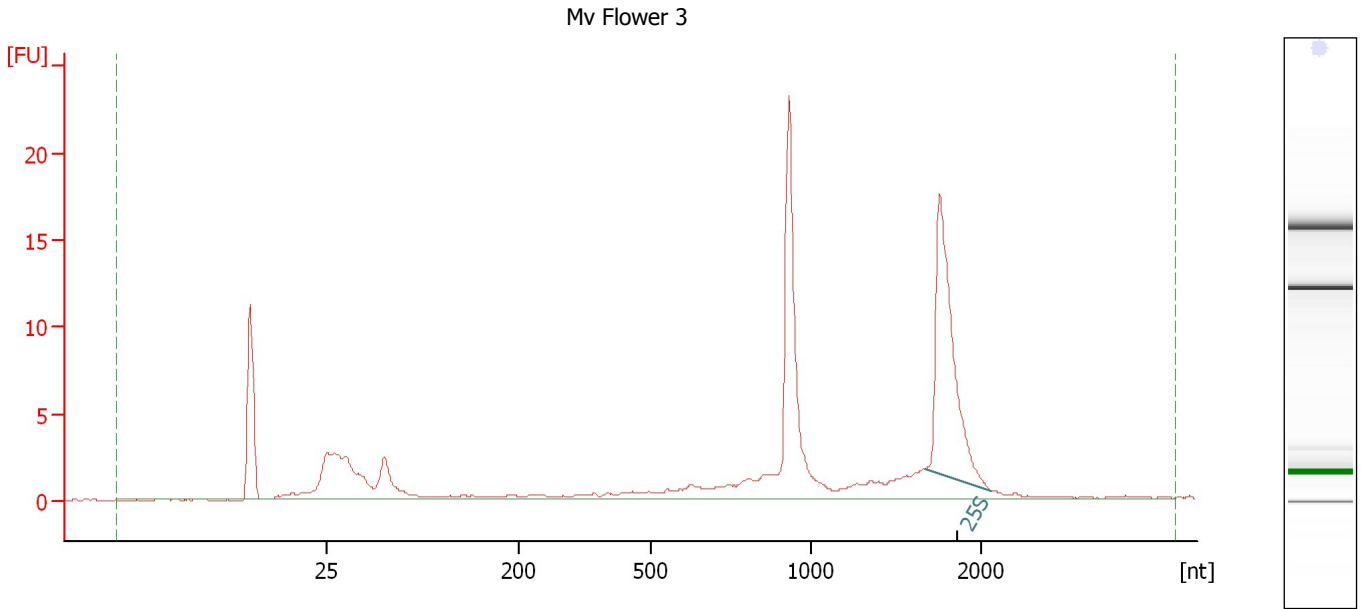
Fragment table for sample 2 : Mv Flower 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,530	1,970	17.6	31.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Mv Flower 3

RNA Area:	100.6	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	136 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.20

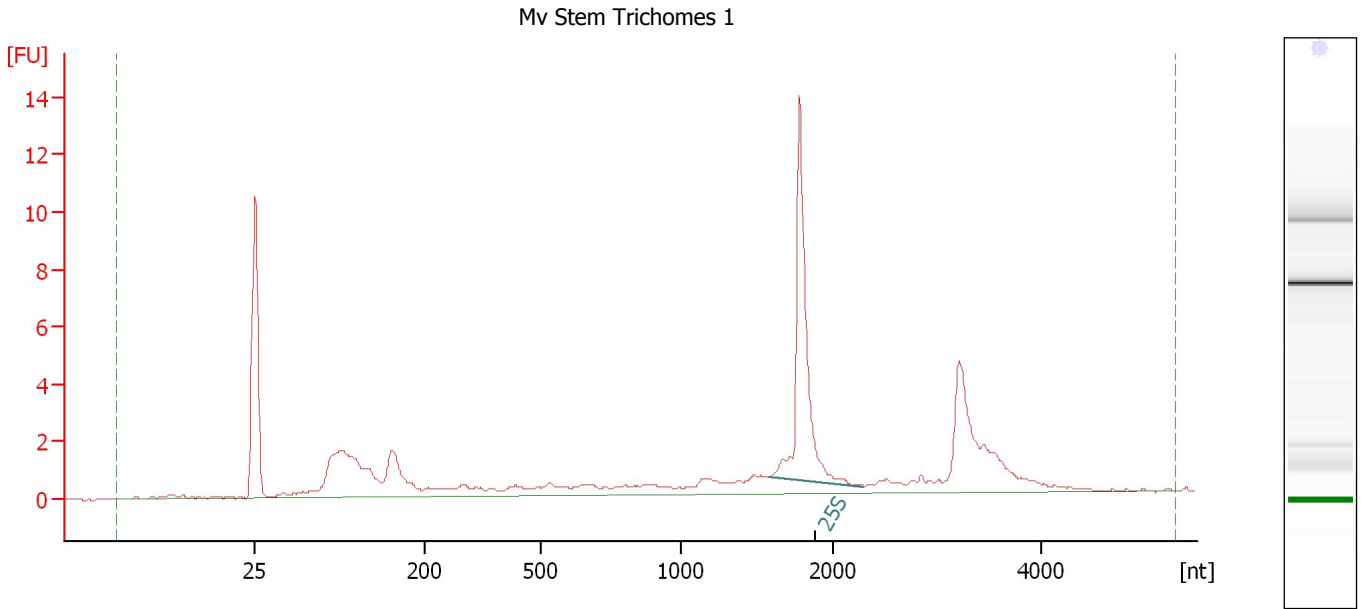
Fragment table for sample 3 : Mv Flower 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,677	2,086	25.3	25.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Mv Stem Trichomes 1

RNA Area:	59.4	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	80 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.80

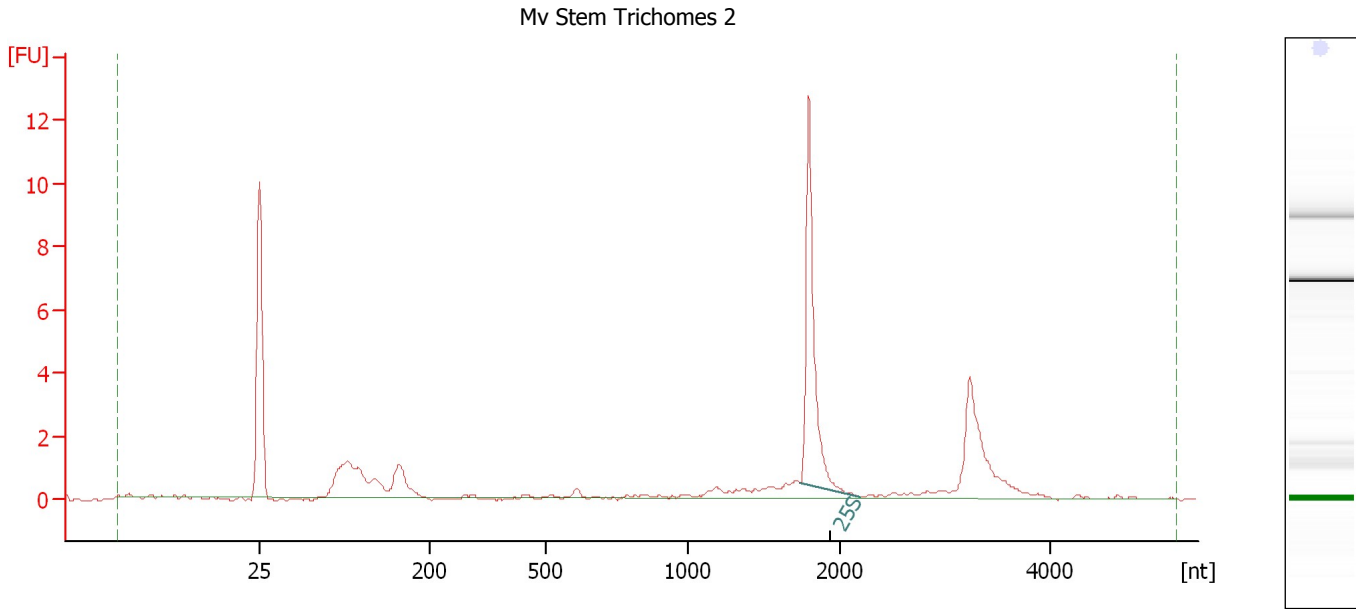
Fragment table for sample 4 : Mv Stem Trichomes 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,577	2,301	13.6	22.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Mv Stem Trichomes 2

RNA Area: 30.9 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 42 ng/µl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 7.50

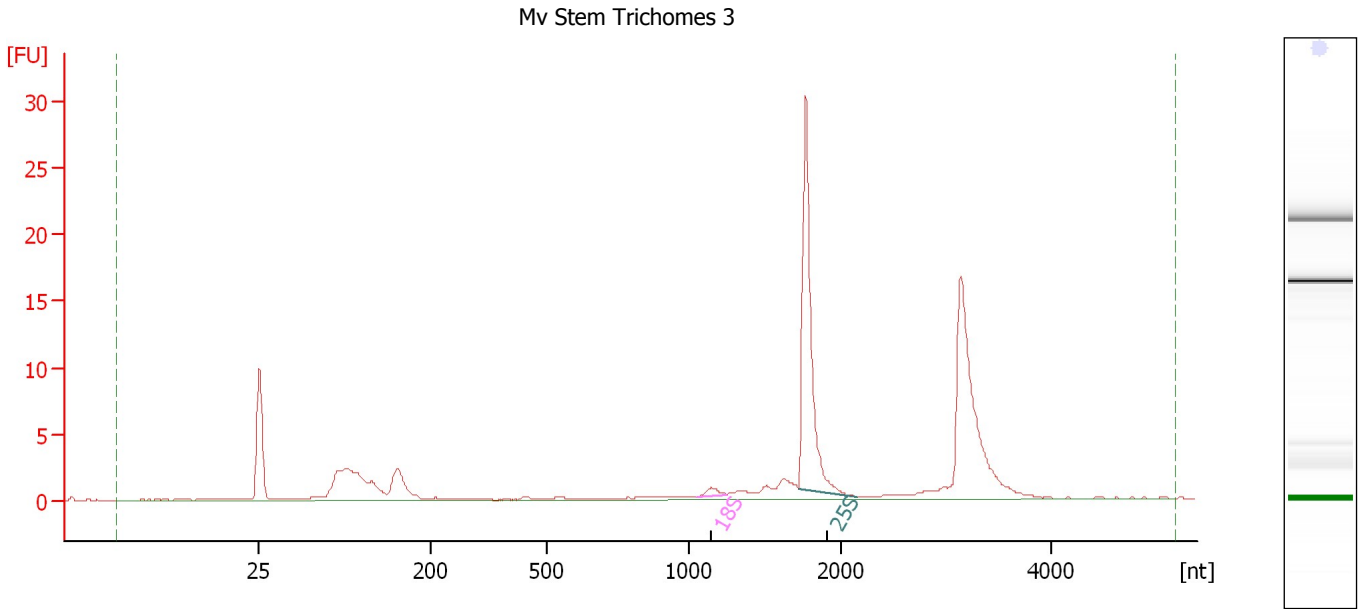
Fragment table for sample 5 : Mv Stem Trichomes 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,741	2,196	10.1	32.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Mv Stem Trichomes 3

RNA Area: 87.7 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 119 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 32.1 Result Flagging Label: RIN: 7.70

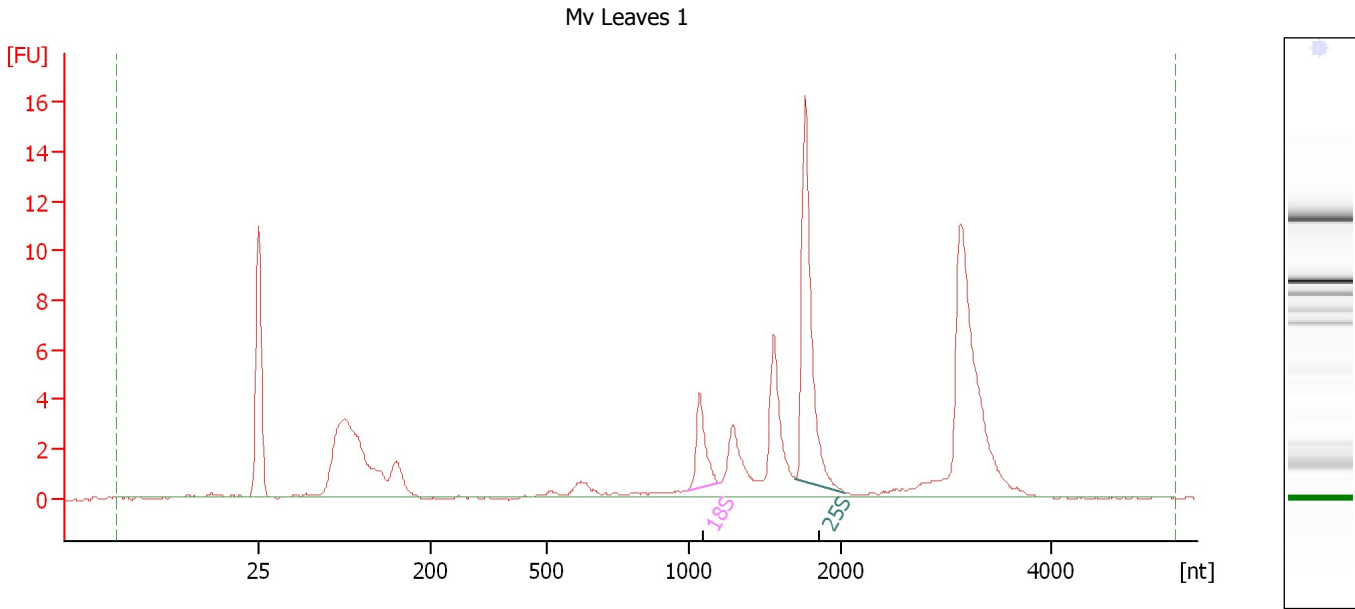
Fragment table for sample 6 : Mv Stem Trichomes 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,044	1,241	0.8	0.9
25S	1,720	2,144	25.2	28.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Mv Leaves 1

RNA Area: 83.7 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 113 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 3.6 Result Flagging Label: RIN: 8.10

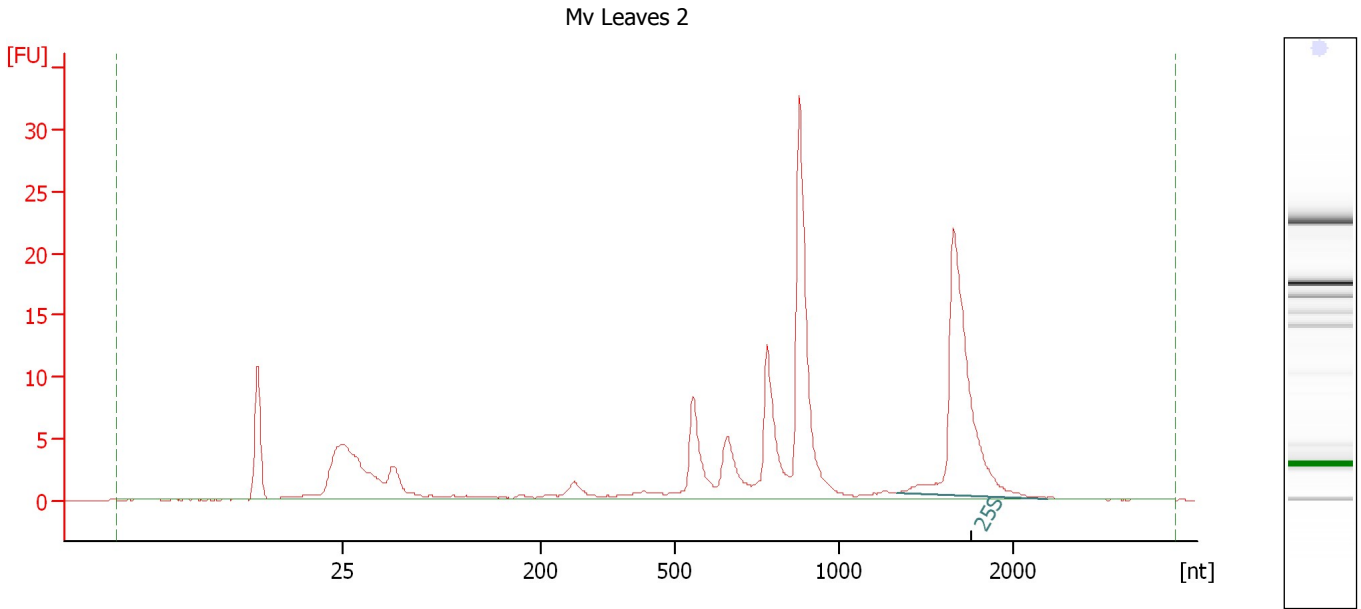
Fragment table for sample 7 : Mv Leaves 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	993	1,199	4.1	4.9
25S	1,698	2,042	14.9	17.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Mv Leaves 2

RNA Area:	150.2	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	203 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 5.90

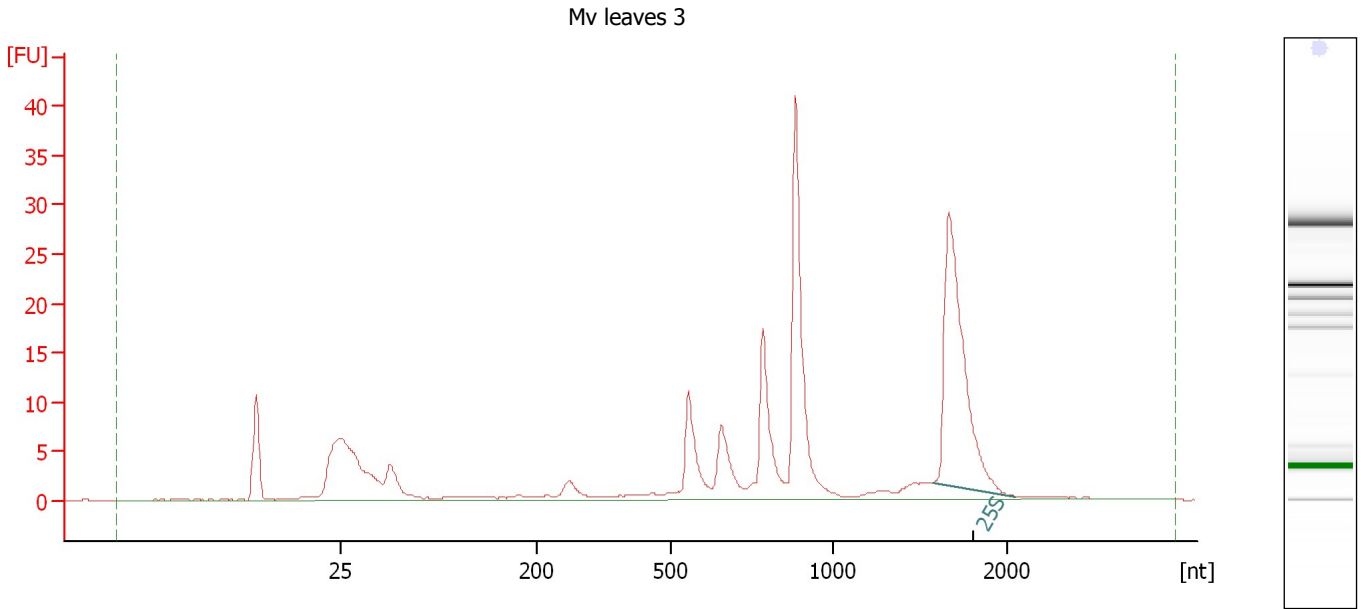
Fragment table for sample 8 : Mv Leaves 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,333	2,273	38.8	25.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Mv leaves 3

RNA Area:	187.7	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	254 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 5.90

Fragment table for sample 9 : Mv leaves 3

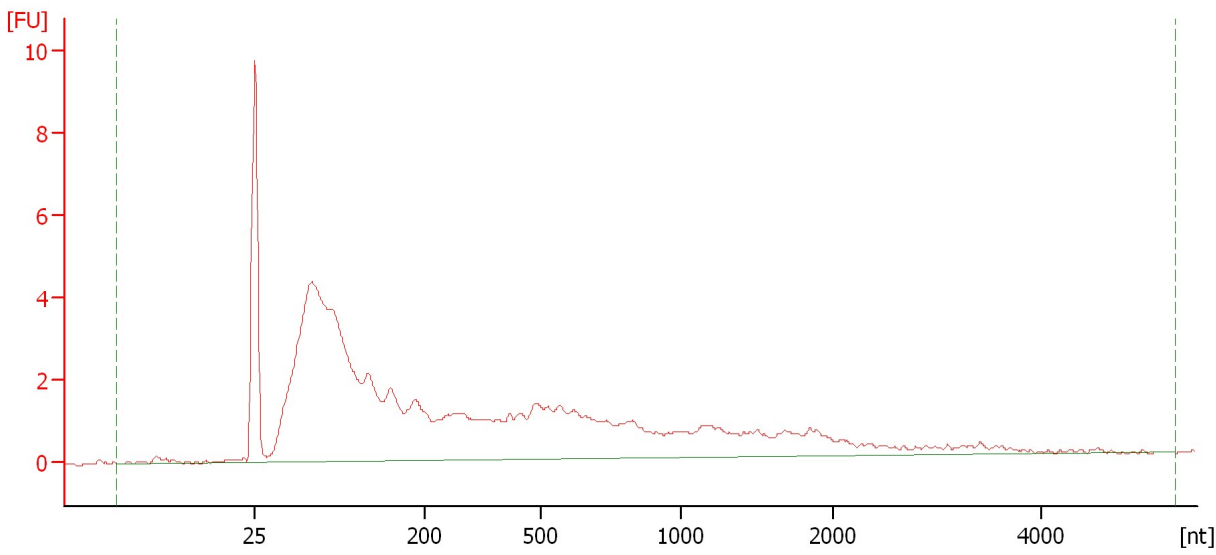
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,570	2,062	48.1	25.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electropherogram Summary Continued ...

Mv Trichomes 1



Overall Results for sample 10 : Mv Trichomes 1

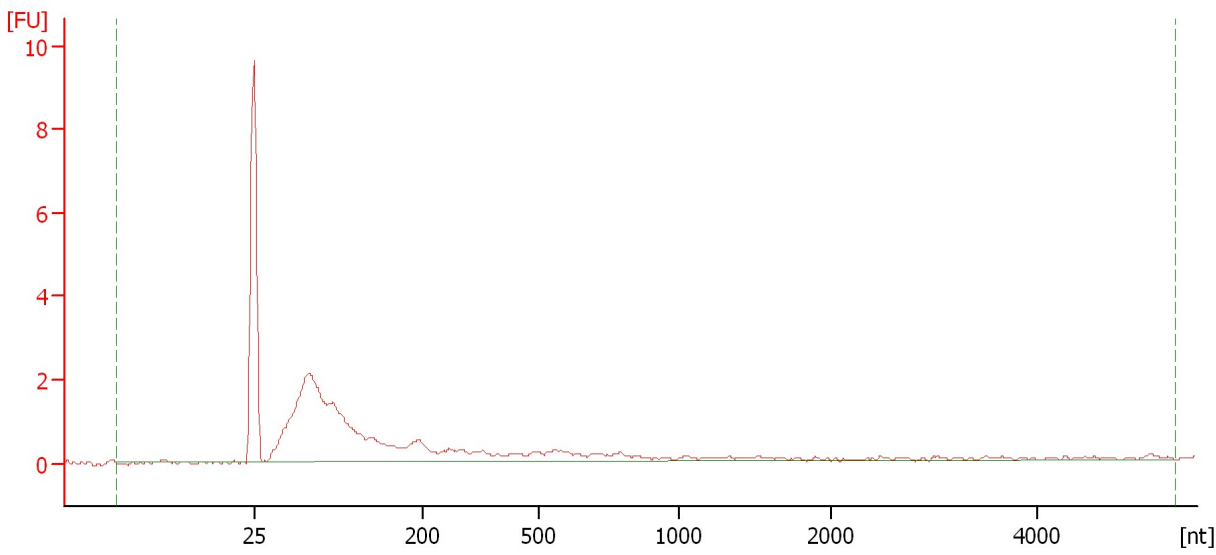
RNA Area:	96.9	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	131 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electropherogram Summary Continued ...

Mv Trichomes 2



Overall Results for sample 11 : Mv Trichomes 2

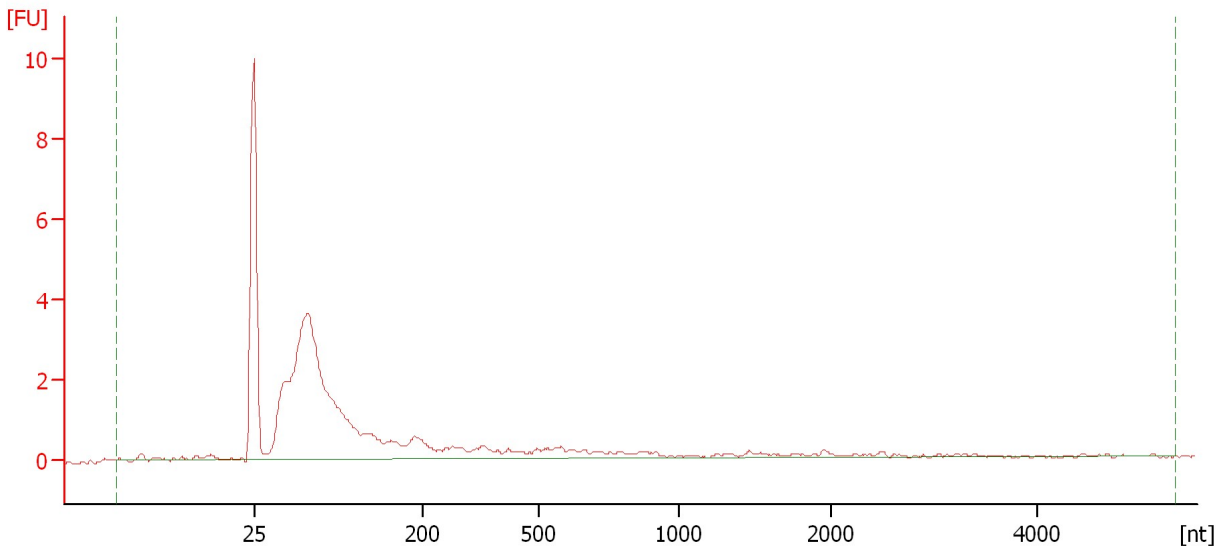
RNA Area:	28.9	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	39 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Electropherogram Summary Continued ...

Mv Trichomes 2 (repeat)



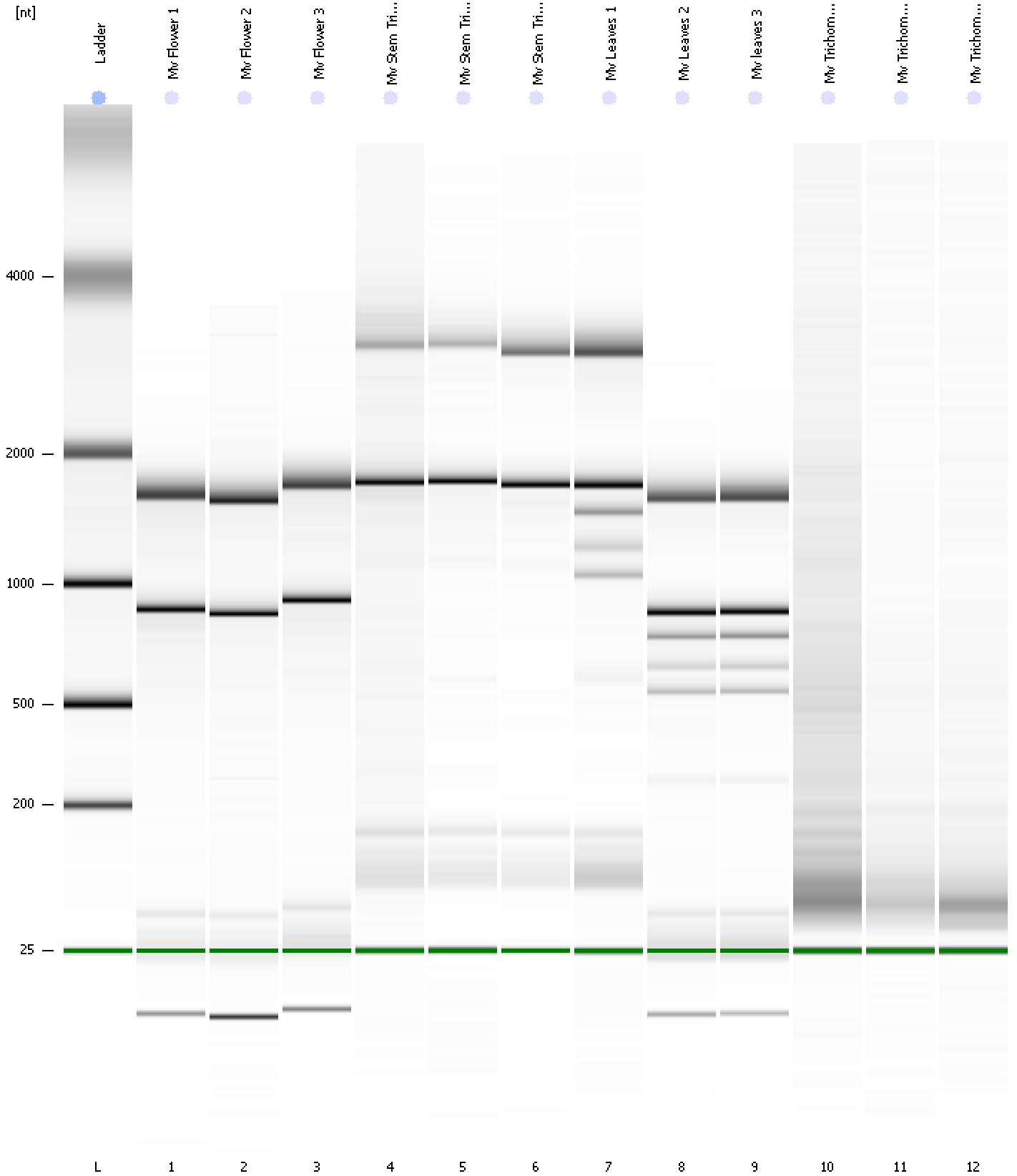
Overall Results for sample 12 : Mv Trichomes 2 (repeat)

RNA Area:	40.5	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	55 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Gel Image

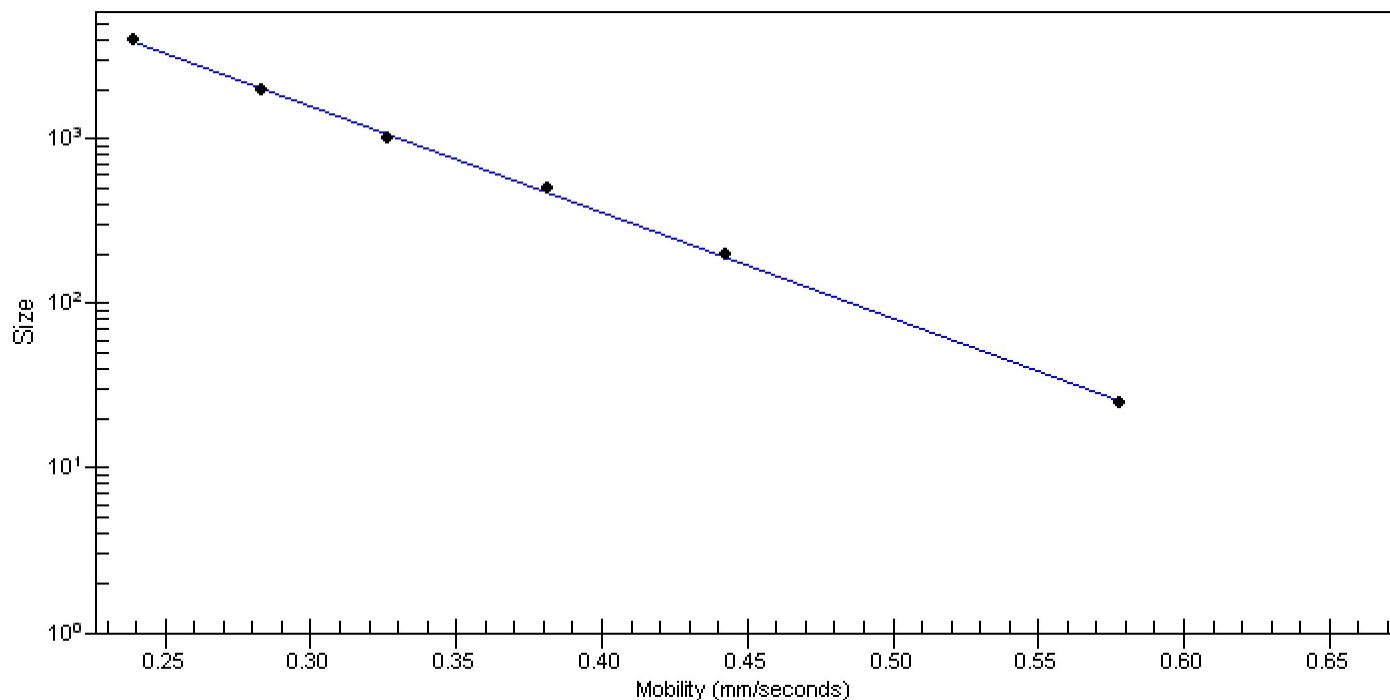


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
Modified: 10/27/2015 3:53:05 PM

Curves

Standard Curve



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad

Created: 10/27/2015 3:29:14 PM
 Modified: 10/27/2015 3:53:05 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		10/27/2015 3:53:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-27\2015-10-27_001.xad)		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/27/2015 3:29:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1