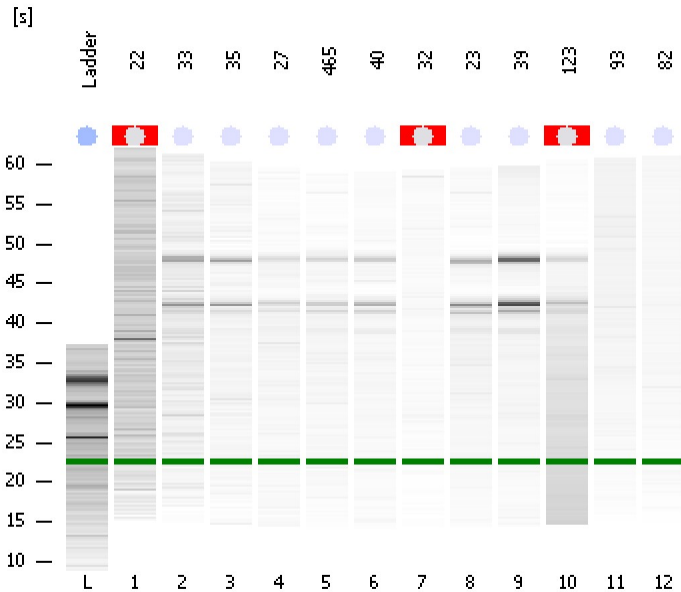


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

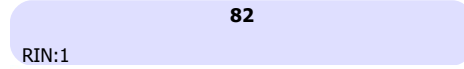
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
 Modified: 11/4/2015 3:48:41 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
22		✓	RIN N/A	
33		✓	RIN: 7.10	
35		✓	RIN: 7.50	
27		✓	RIN: 1.80	
465		✓	RIN: 2.30	
40		✓	RIN: 4.70	
32		✓	RIN N/A	
23		✓	RIN: 7.20	
39		✓	RIN: 3.60	
123		✓	RIN N/A	
93		✓	RIN:1	
82		✓	RIN:1	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 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

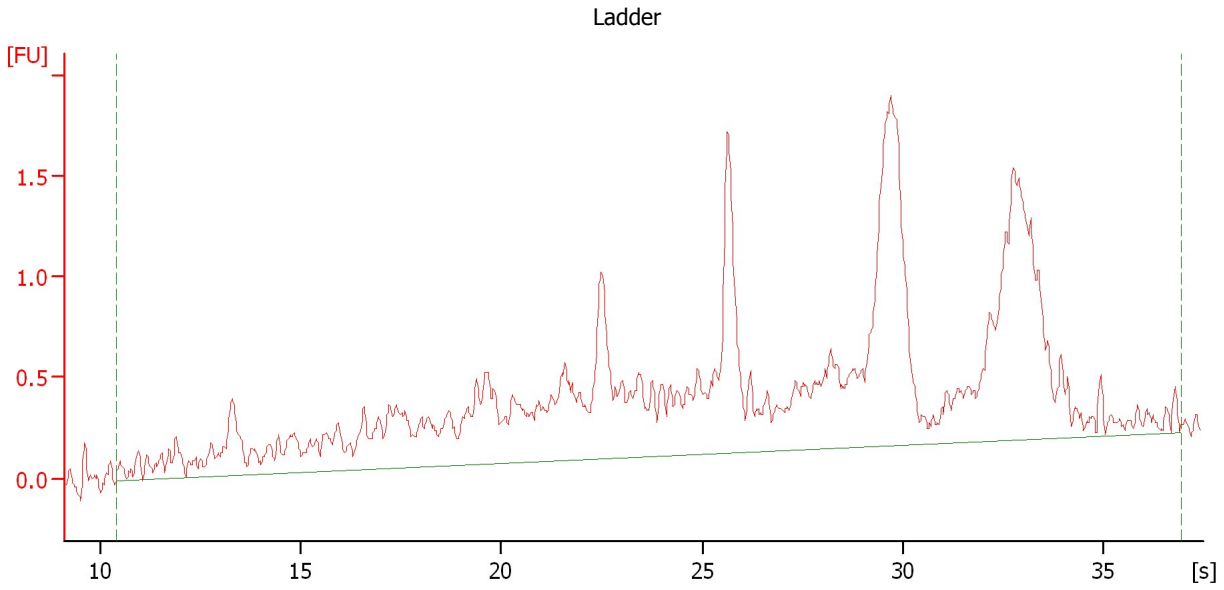
Ladder

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\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electropherogram Summary



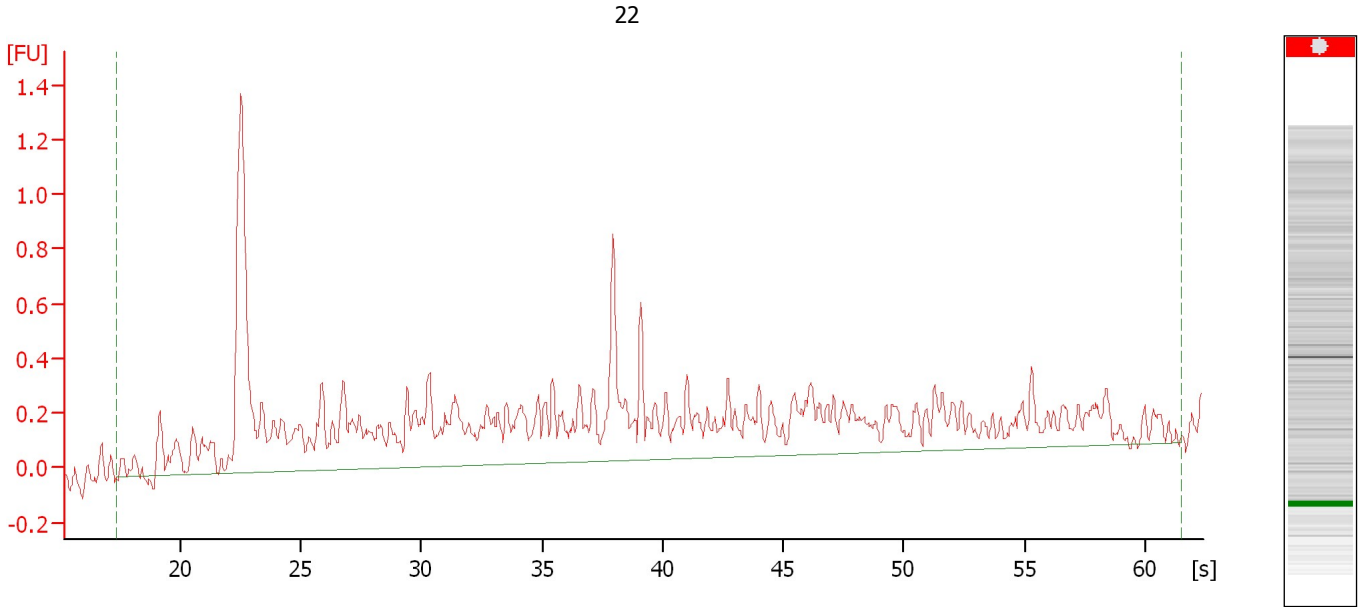
Overall Results for Ladder

RNA Area:	32.5	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\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electropherogram Summary Continued ...



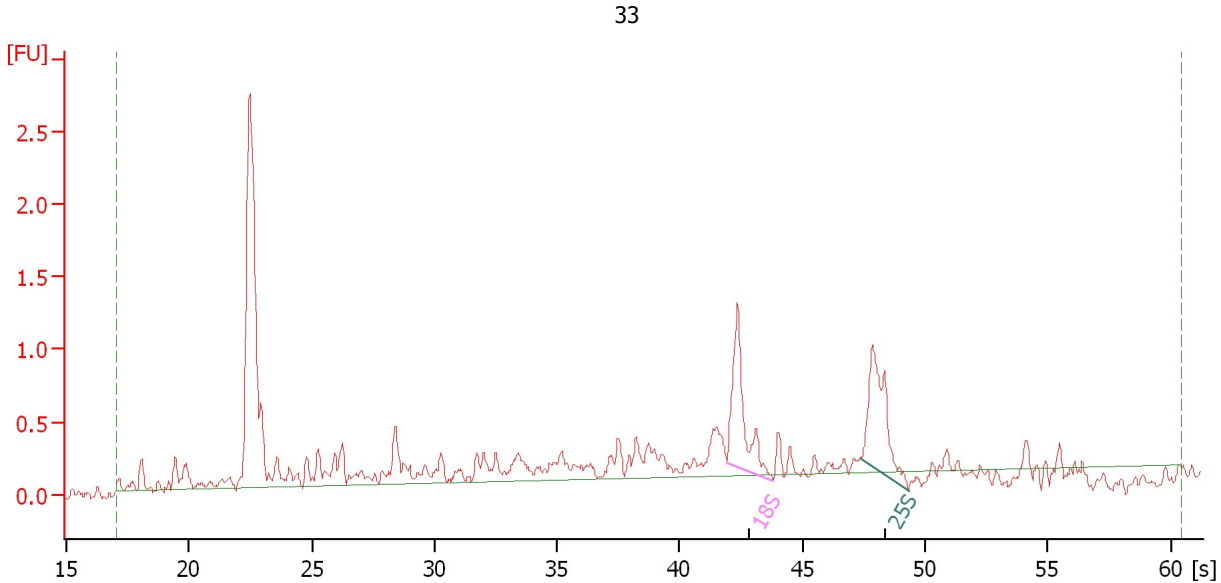
Overall Results for sample 1 : 22

RNA Area:	16.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	74 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 33

RNA Area: 11.3 RNA Integrity Number (RIN): 7.1 (B.02.08)
RNA Concentration: 52 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.0 Result Flagging Label: RIN: 7.10

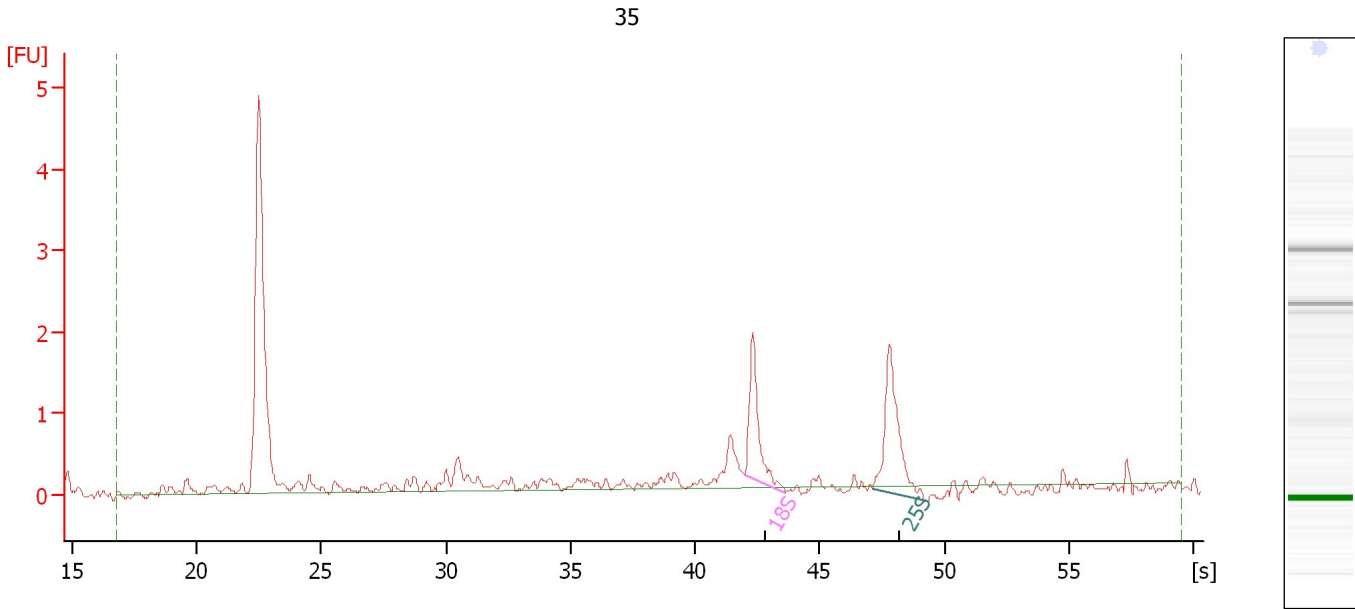
Fragment table for sample 2 : 33

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.94	43.82	1.4	12.2
25S	47.41	49.33	1.4	12.3

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 35

RNA Area: 11.3 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 52 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 7.50

Fragment table for sample 3 : 35

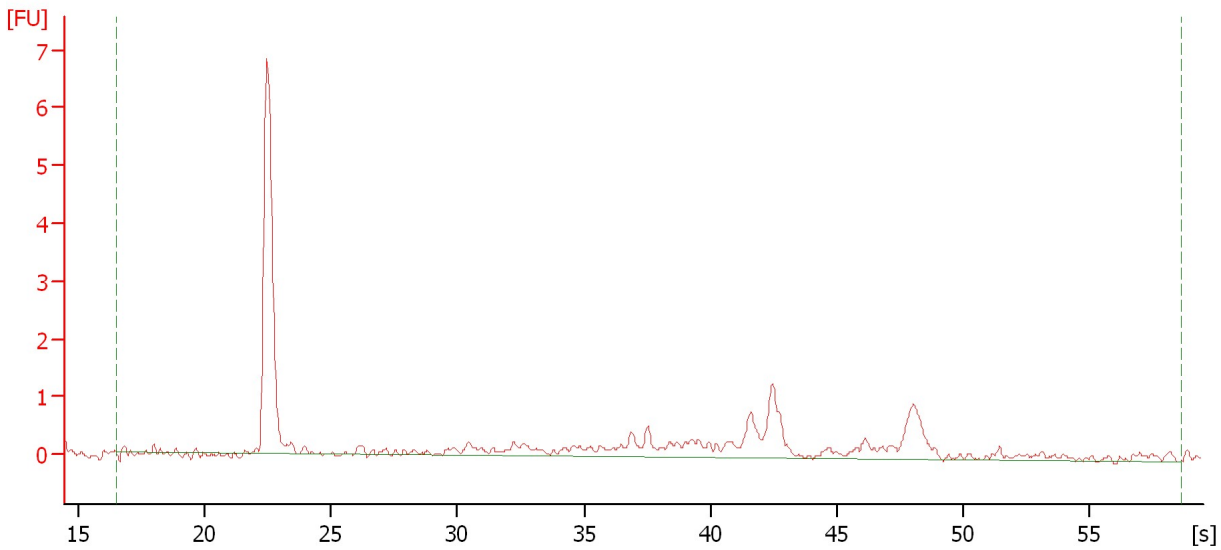
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.98	43.62	1.7	15.4
25S	47.11	49.31	2.4	21.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electropherogram Summary Continued ...

27



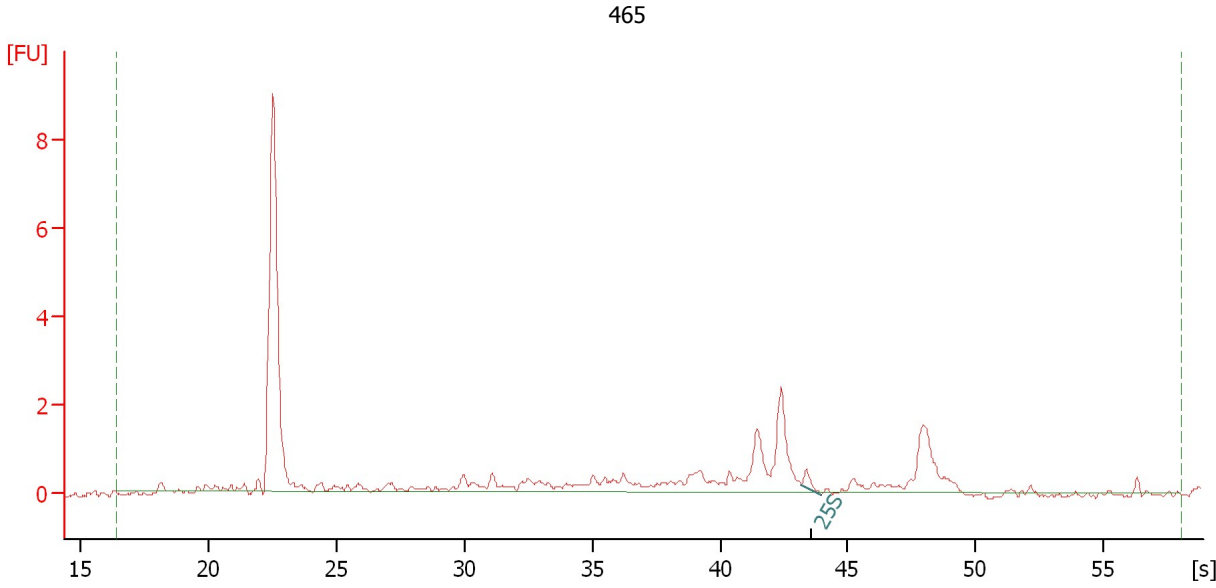
Overall Results for sample 4 : 27

RNA Area:	13.3	RNA Integrity Number (RIN):	1.8 (B.02.08)
RNA Concentration:	61 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.80

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 465

RNA Area:	19.9	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	92 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

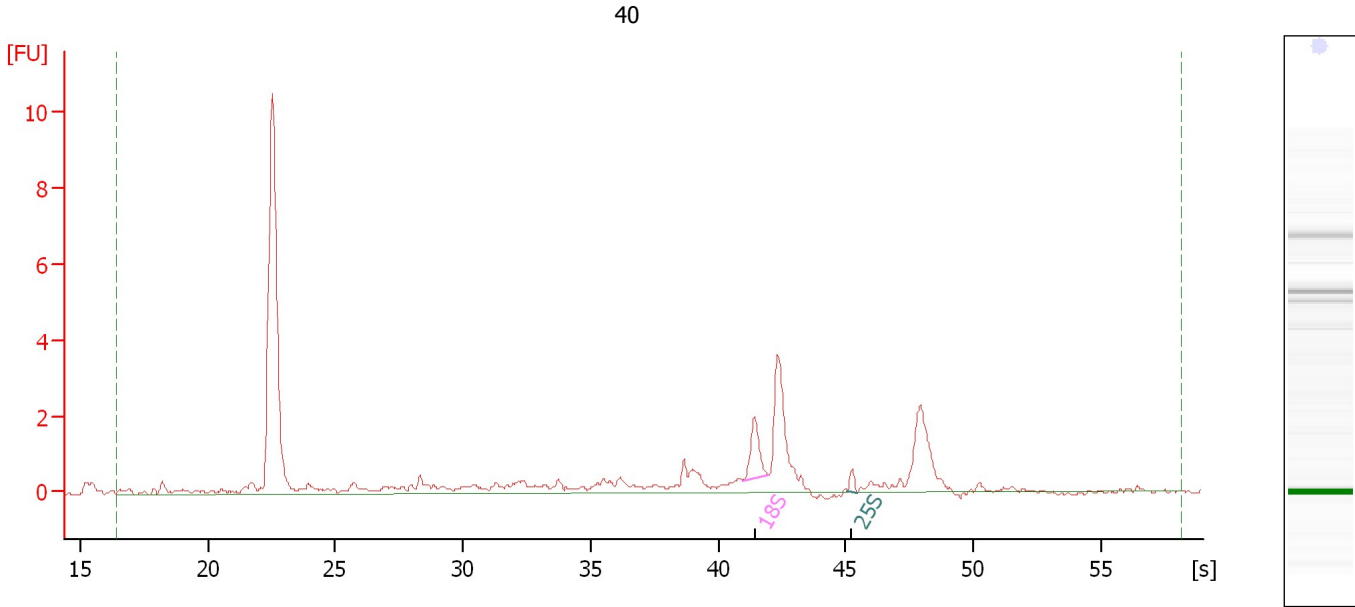
Fragment table for sample 5 : 465

Name	Start Time [s]	End Time [s]	Area	% of total Area
25S	43.19	43.99	0.3	1.3

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 40

RNA Area:	23.9	RNA Integrity Number (RIN):	4.7 (B.02.08)
RNA Concentration:	110 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.2	Result Flagging Label:	RIN: 4.70

Fragment table for sample 6 : 40

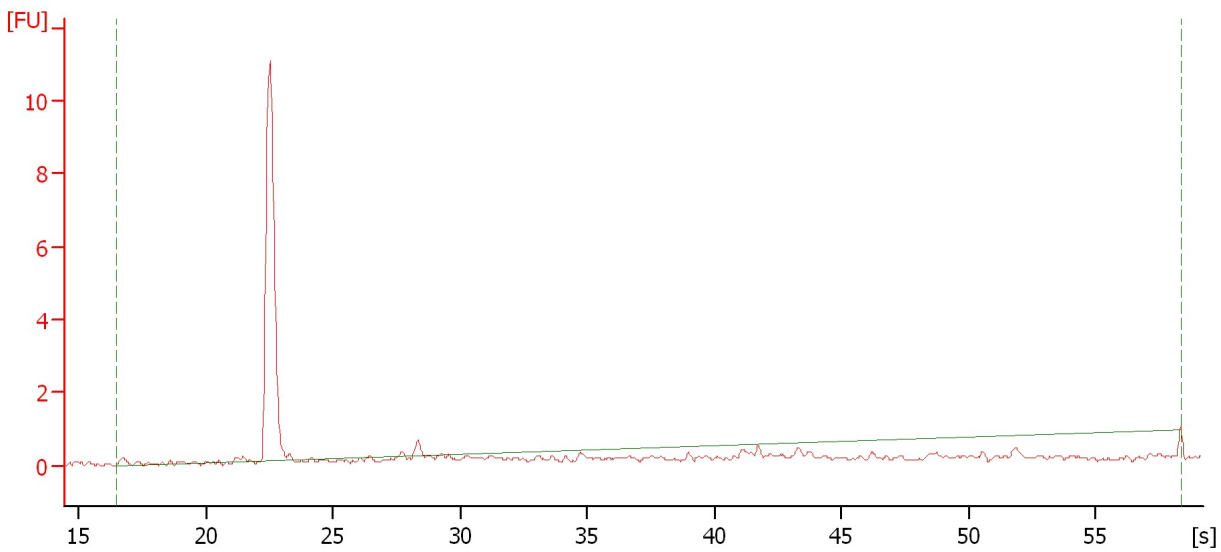
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.96	41.97	1.5	6.4
25S	45.08	45.42	0.2	1.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electropherogram Summary Continued ...

32



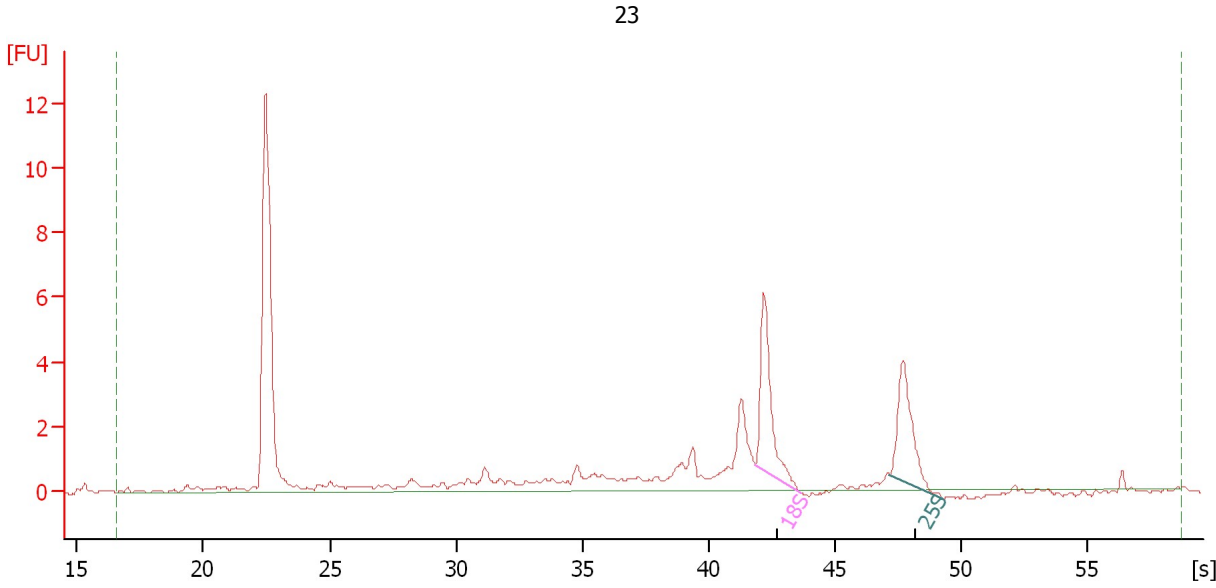
Overall Results for sample 7 : 32

RNA Area:	1.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 23

RNA Area: 37.4 RNA Integrity Number (RIN): 7.2 (B.02.08)
RNA Concentration: 172 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 7.20

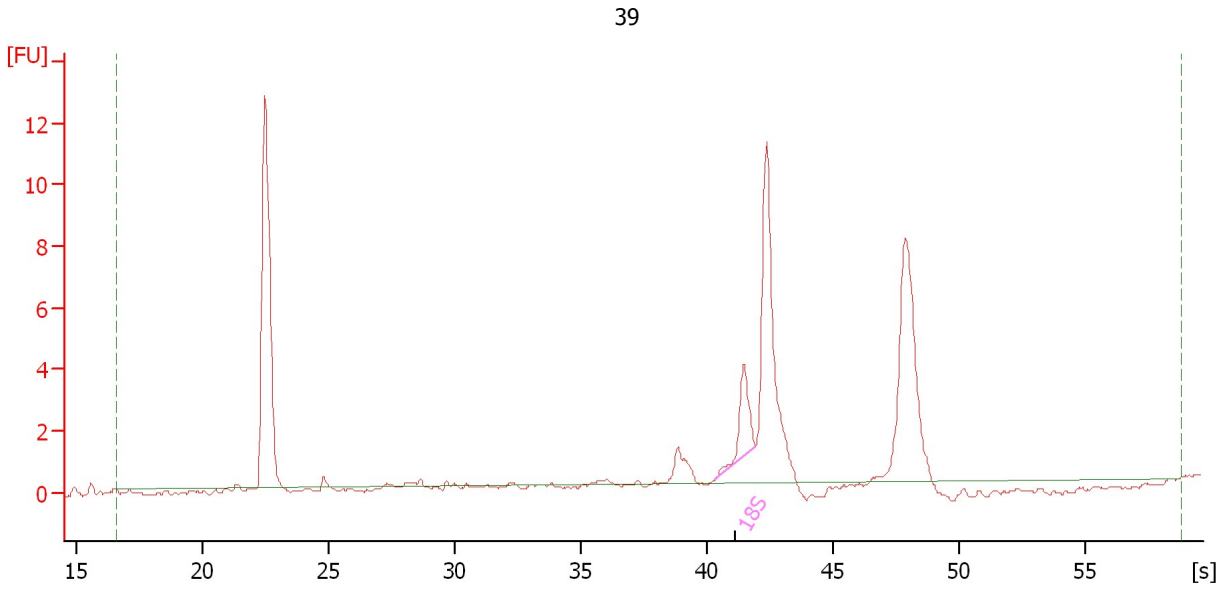
Fragment table for sample 8 : 23

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.85	43.64	6.1	16.2
25S	47.17	49.30	5.1	13.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 39

RNA Area:	34.6	RNA Integrity Number (RIN):	3.6 (B.02.08)
RNA Concentration:	160 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 3.60

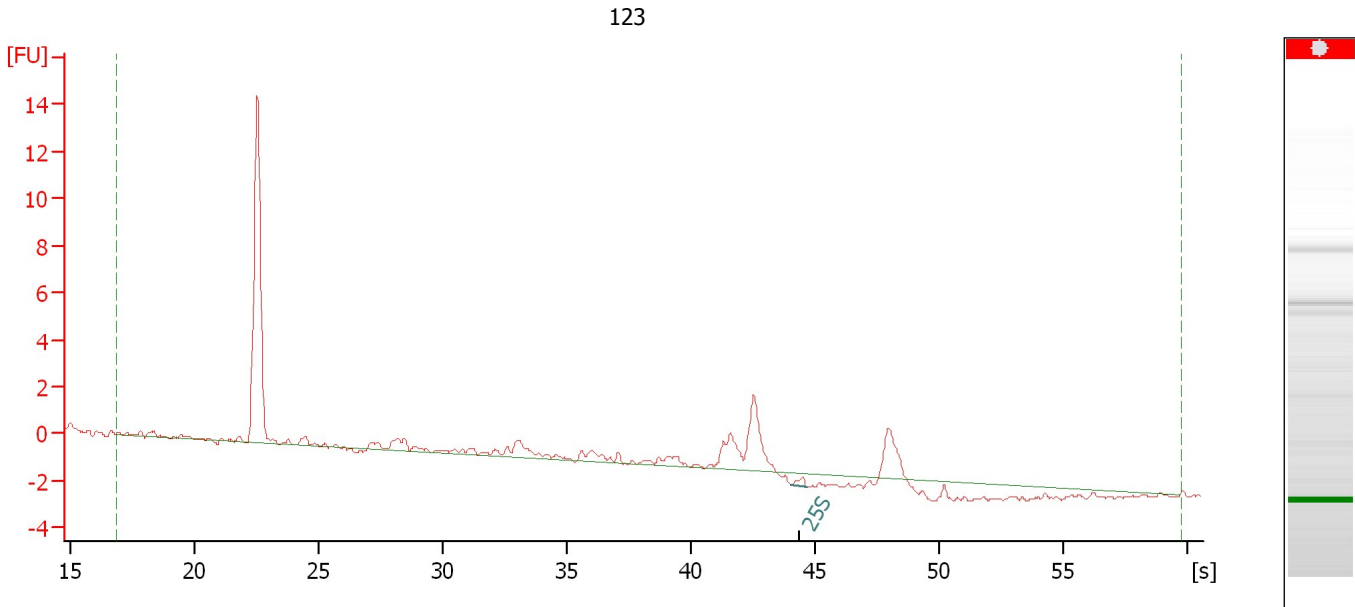
Fragment table for sample 9 : 39

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.36	41.93	3.1	8.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 123

RNA Area:	20.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	96 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

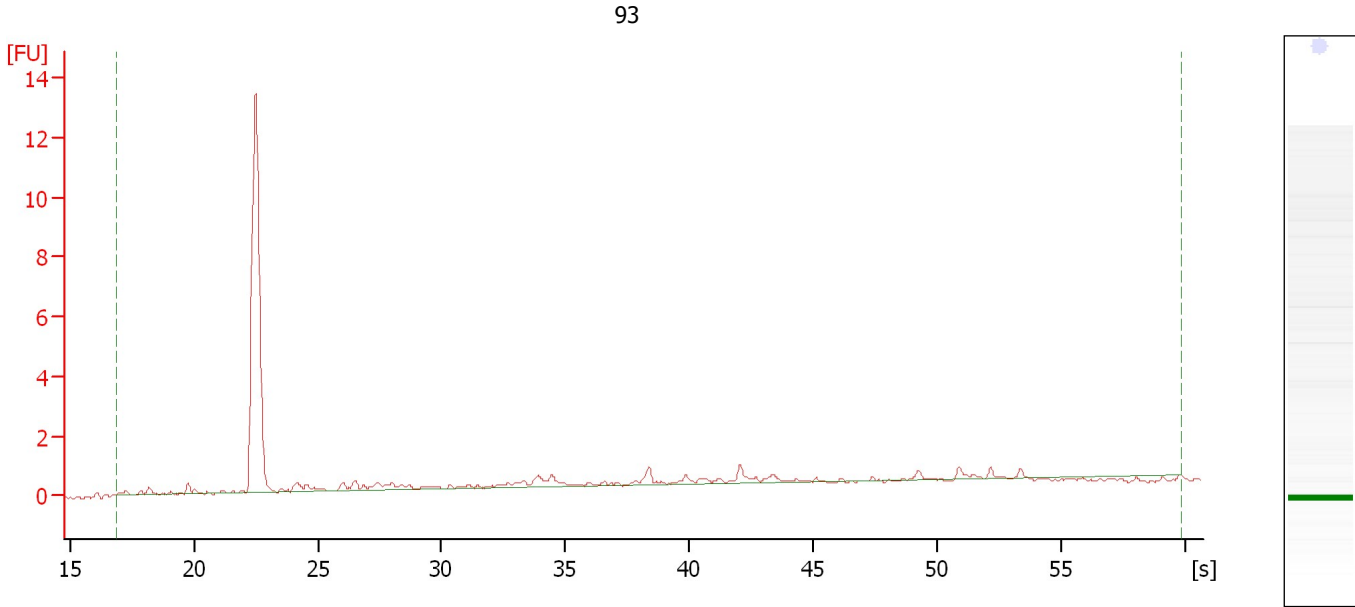
Fragment table for sample 10 : 123

Name	Start Time [s]	End Time [s]	Area	% of total Area
25S	44.05	44.70	0.3	1.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 93

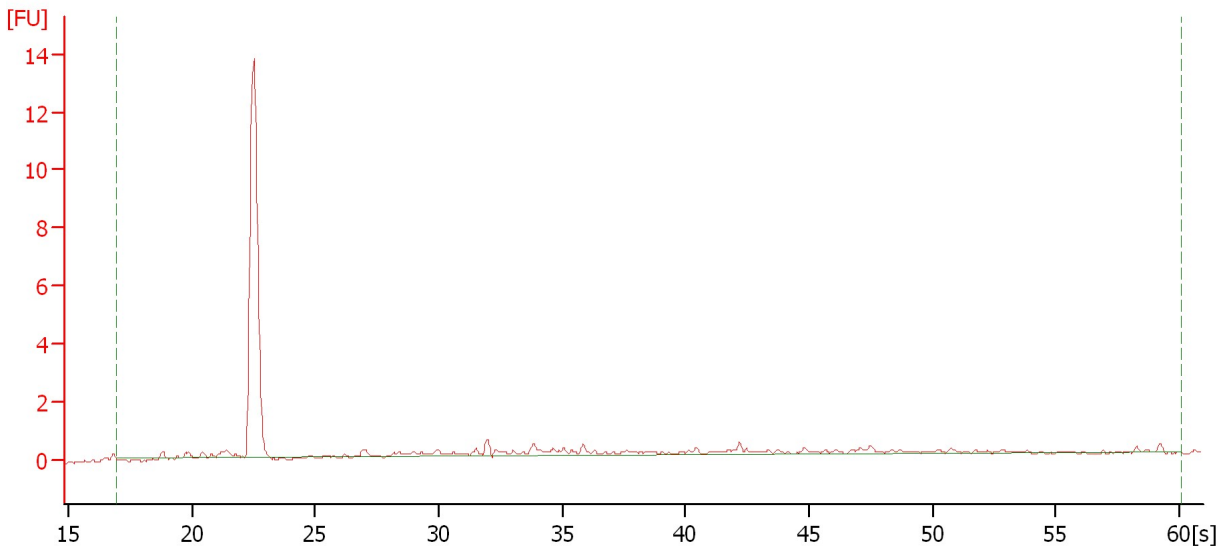
RNA Area:	10.4	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	48 ng/ μ l	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Electropherogram Summary Continued ...

82



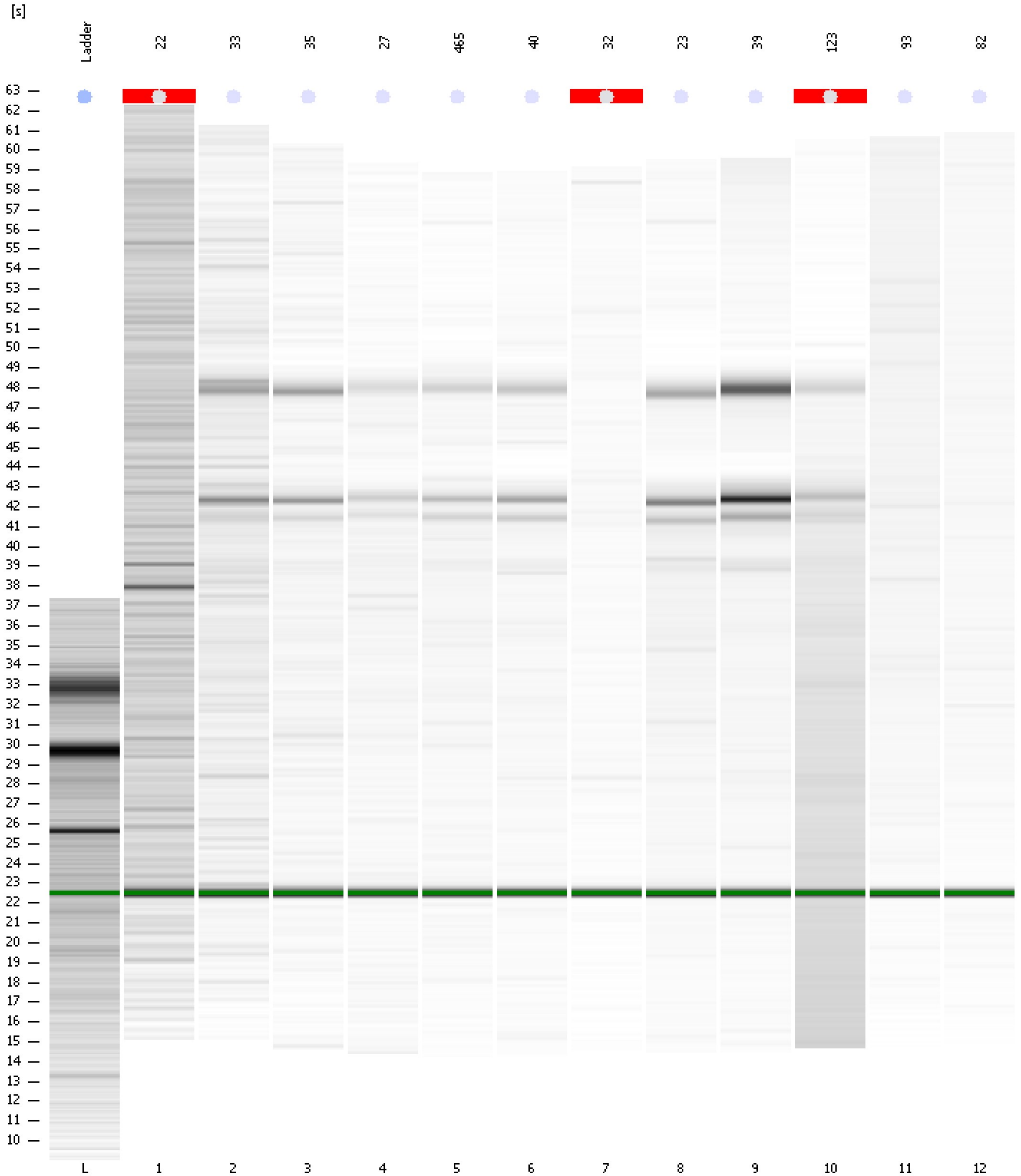
Overall Results for sample 12 : 82

RNA Area:	10.3	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	47 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\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Gel Image

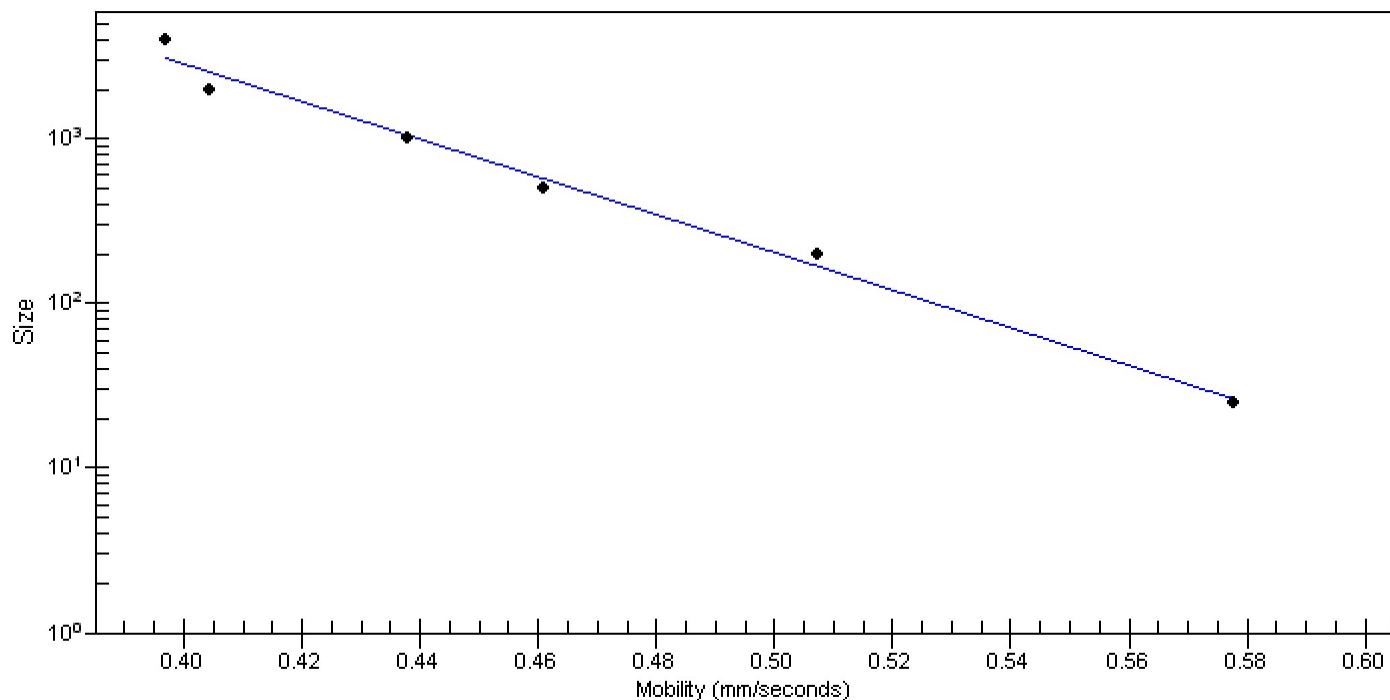


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:48:41 PM

Curves

Standard Curve



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad

Created: 11/4/2015 3:20:32 PM
 Modified: 11/4/2015 3:48:41 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		11/4/2015 1:44:20 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad)		Instrument	Run		11/4/2015 1:20:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/4/2015 1:20:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/4/2015 1:20:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/4/2015 1:20:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/4/2015 1:20:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/4/2015 1:20:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/4/2015 1:20:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1