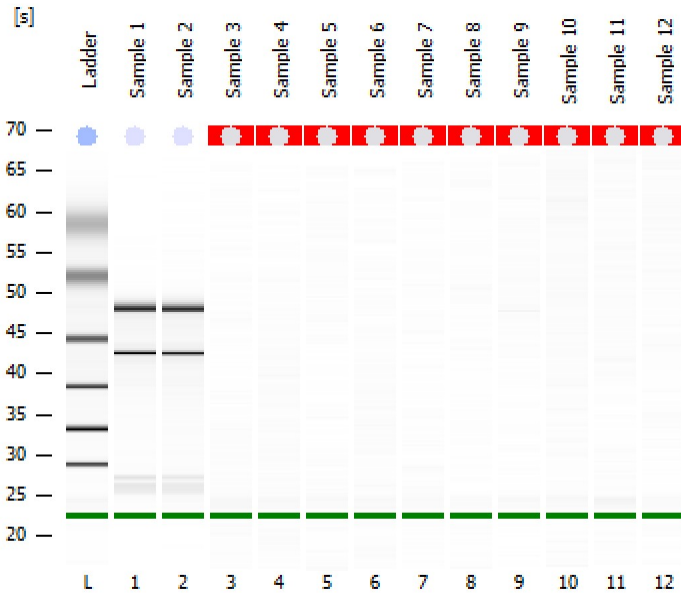


Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
Modified: 12/11/2019 4:45:39 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

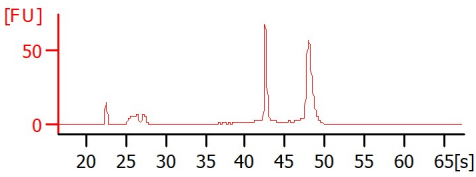
Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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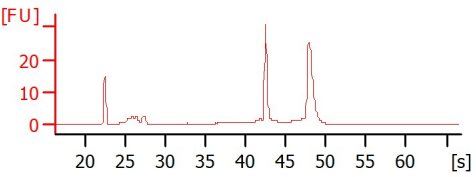
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

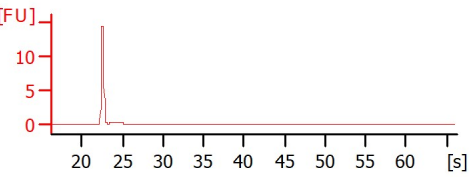
Sample 1
RIN: 9.30



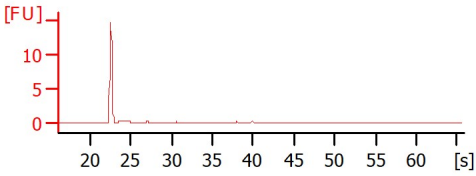
Sample 2
RIN: 8.90



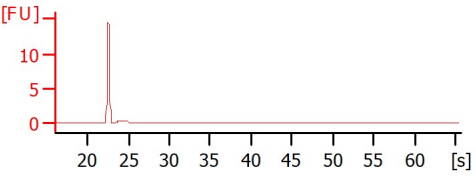
Sample 3
RIN N/A



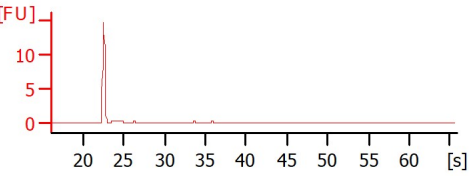
Sample 4
RIN N/A



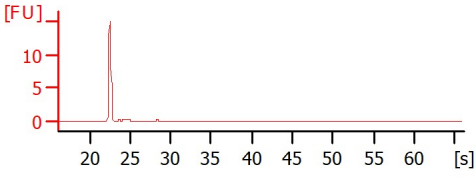
Sample 5
RIN N/A



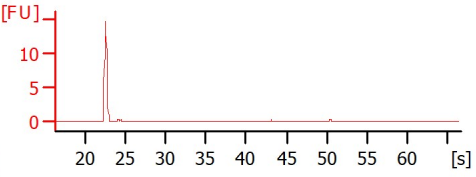
Sample 6
RIN N/A



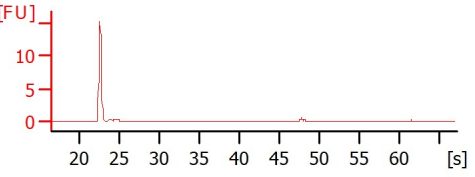
Sample 7
RIN N/A



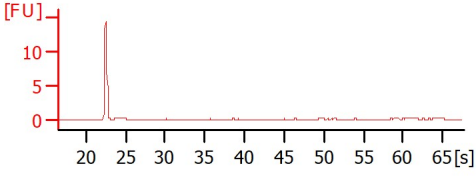
Sample 8
RIN N/A



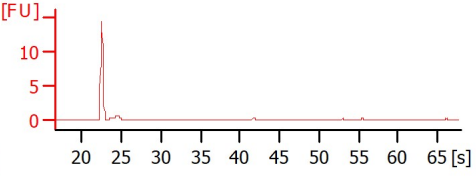
Sample 9
RIN N/A



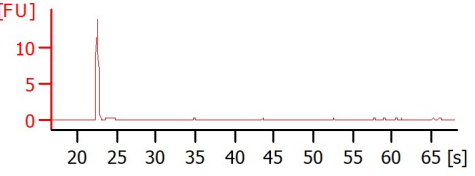
Sample 10
RIN N/A



Sample 11
RIN N/A



Sample 12
RIN N/A



Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
 Modified: 12/11/2019 4:45:39 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 9.30	
Sample 2		✓	RIN: 8.90	
Sample 3		✓	RIN N/A	
Sample 4		✓	RIN N/A	
Sample 5		✓	RIN N/A	
Sample 6		✓	RIN N/A	
Sample 7		✓	RIN N/A	
Sample 8		✓	RIN N/A	
Sample 9		✓	RIN N/A	
Sample 10		✓	RIN N/A	
Sample 11		✓	RIN N/A	
Sample 12		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
 Modified: 12/11/2019 4:45:39 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

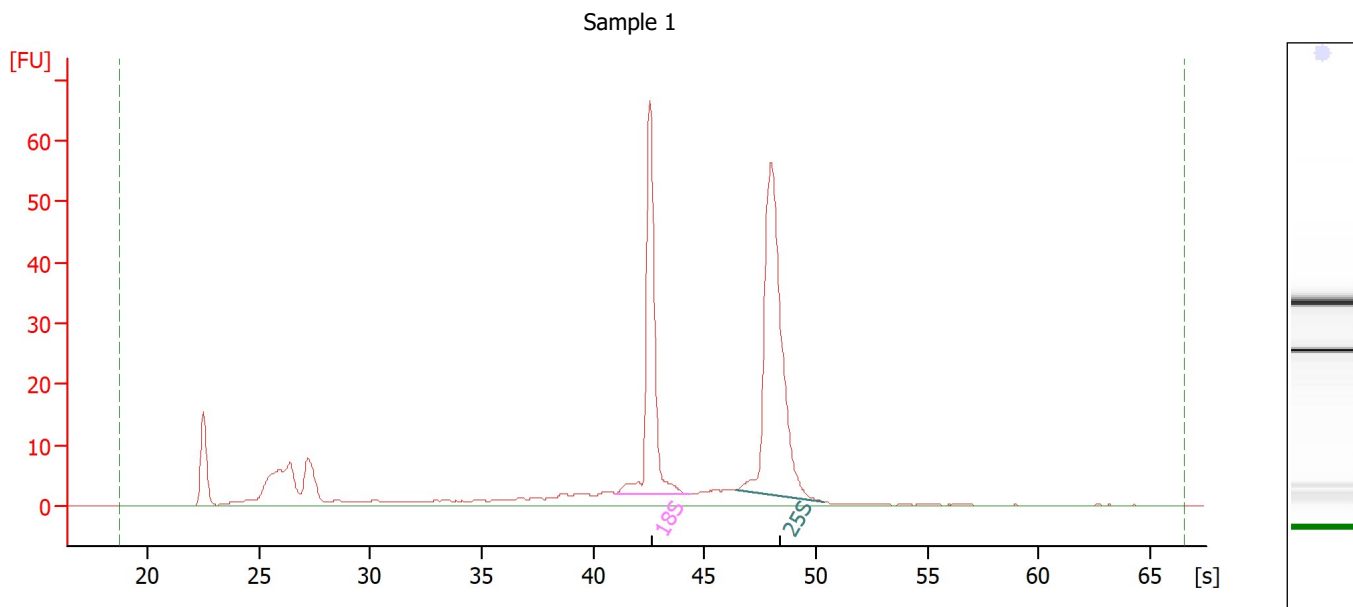
Ladder

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

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
 Modified: 12/11/2019 4:45:39 PM

Electropherogram Summary



Overall Results for sample 1 : Sample 1

RNA Area:	303.4	RNA Integrity Number (RIN):	9.3 (B.02.10)
RNA Concentration:	154 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN: 9.30

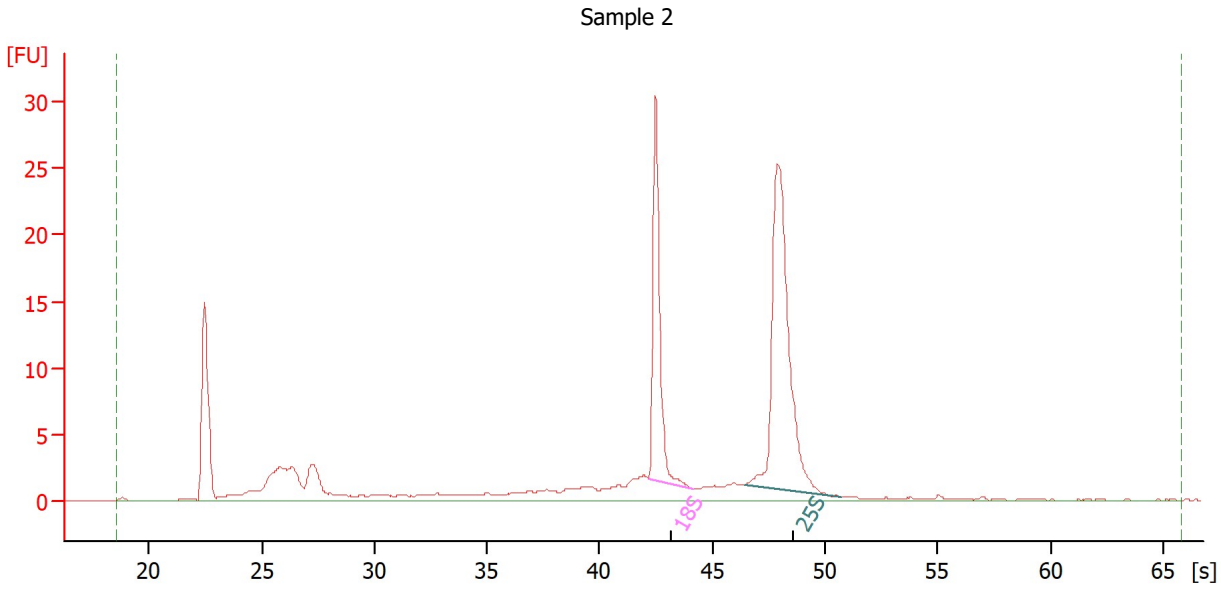
Fragment table for sample 1 : Sample 1

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.05	44.33	63.7	21.0
25S	46.45	50.40	99.6	32.8

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
 Modified: 12/11/2019 4:45:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	135.6	RNA Integrity Number (RIN):	8.9 (B.02.10)
RNA Concentration:	69 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.8	Result Flagging Label:	RIN: 8.90

Fragment table for sample 2 : Sample 2

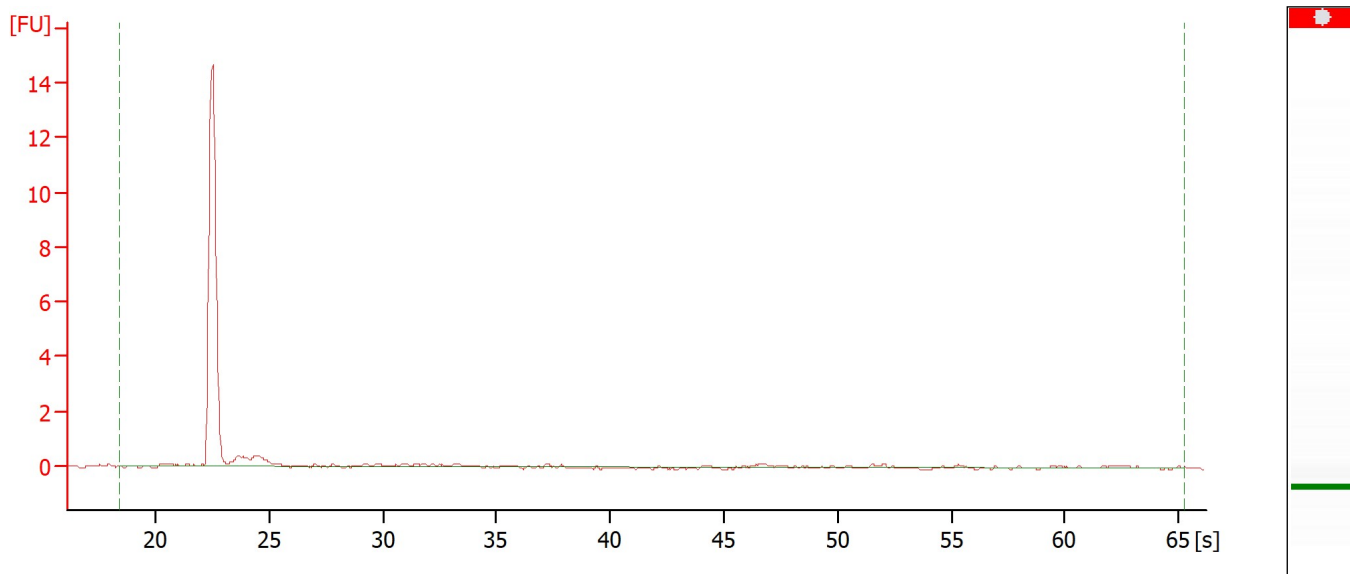
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	42.14	44.09	24.4	18.0
25S	46.43	50.72	43.7	32.2

Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
Modified: 12/11/2019 4:45:39 PM

Electropherogram Summary Continued ...

Sample 3



Overall Results for sample 3 : Sample 3

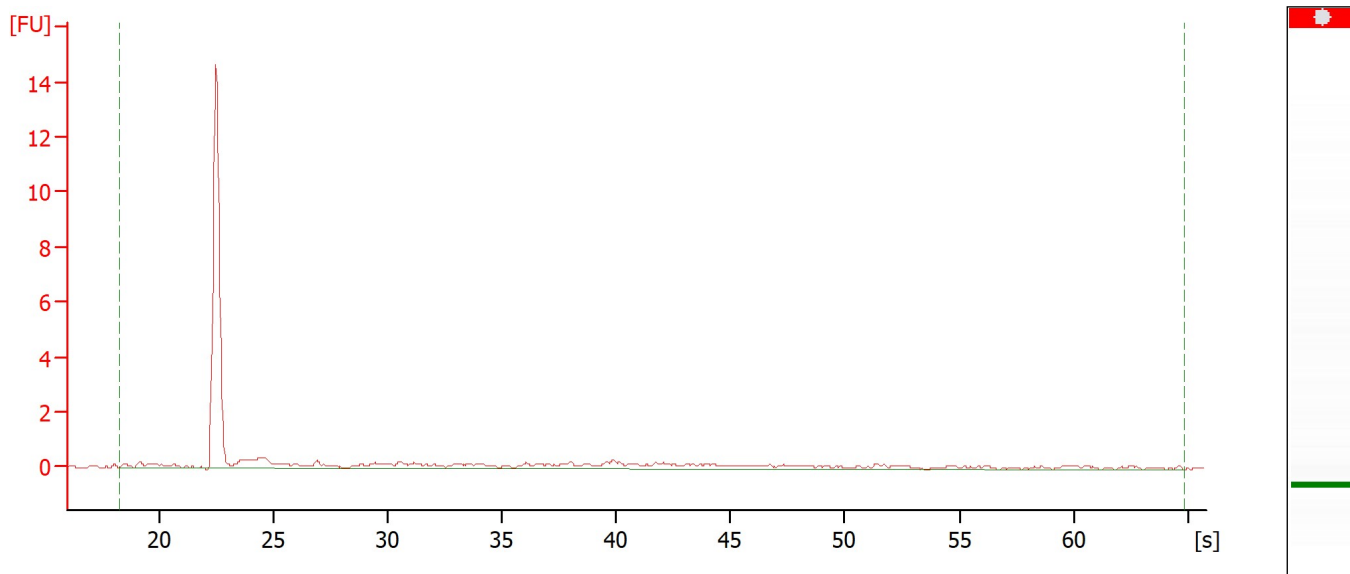
RNA Area:	5.7	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	3 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
Modified: 12/11/2019 4:45:39 PM

Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

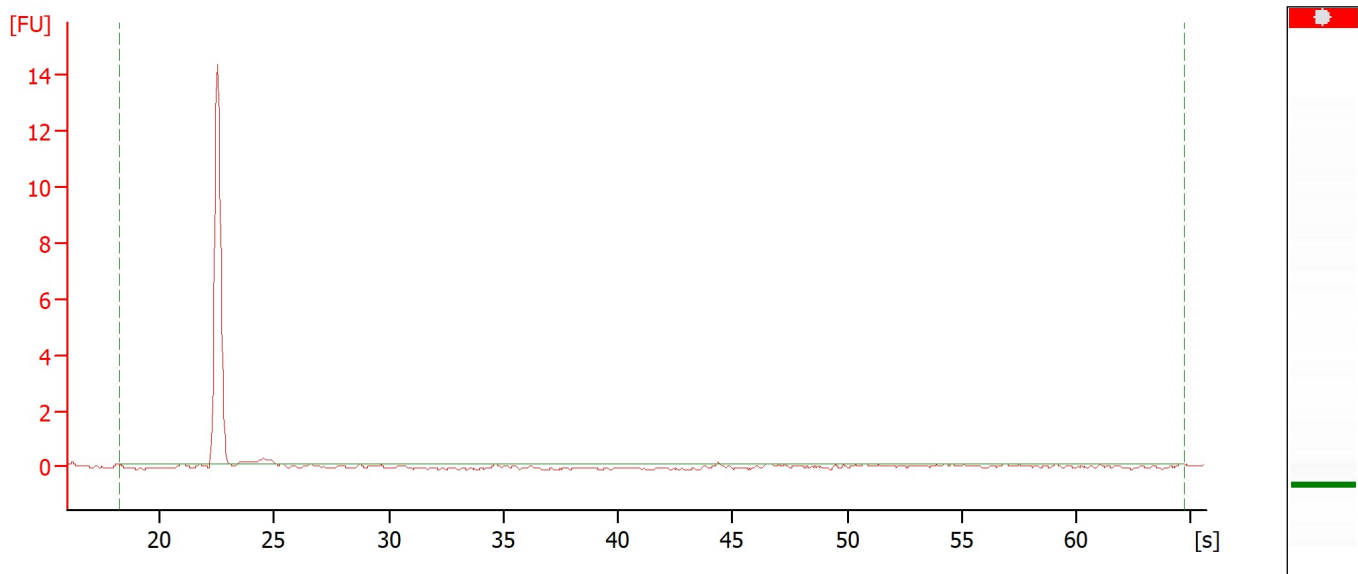
RNA Area:	15.8	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	8 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
 Modified: 12/11/2019 4:45:39 PM

Electropherogram Summary Continued ...

Sample 5



Overall Results for sample 5 : Sample 5

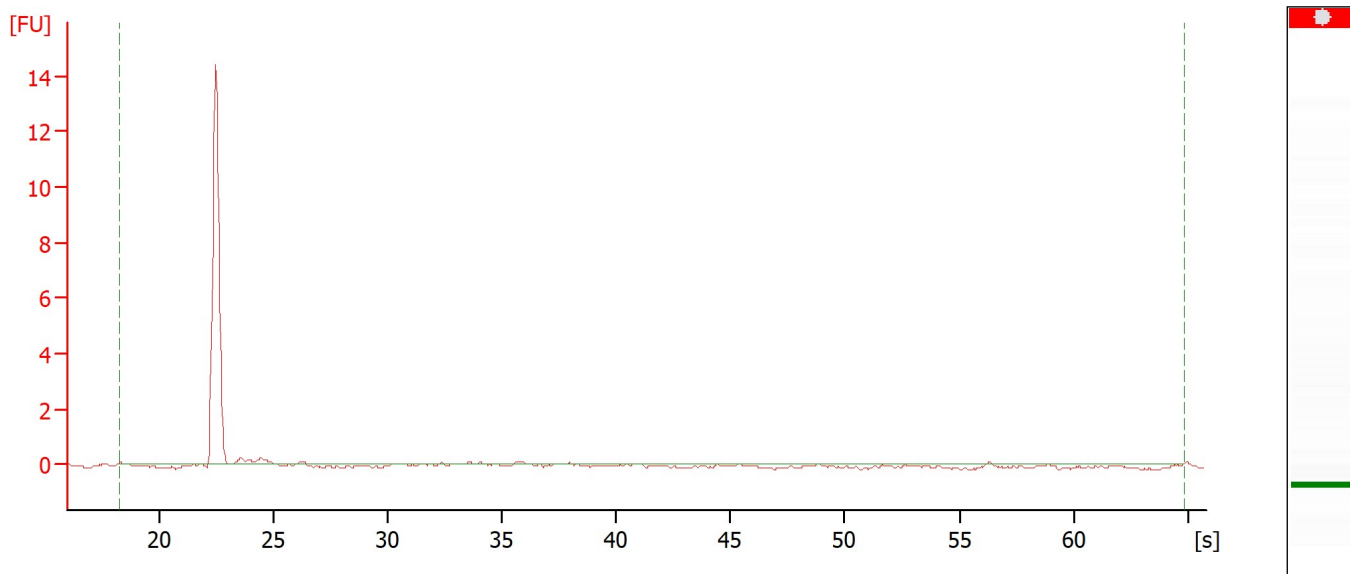
RNA Area:	0.9	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	0 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
 Modified: 12/11/2019 4:45:39 PM

Electropherogram Summary Continued ...

Sample 6



Overall Results for sample 6 : Sample 6

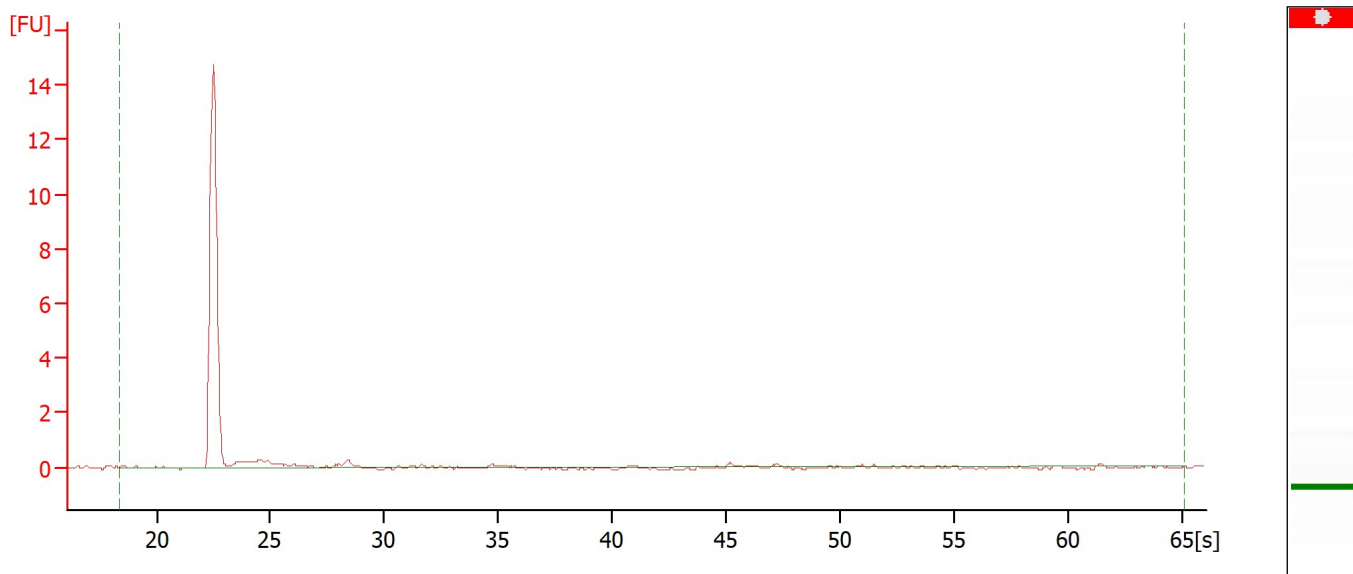
RNA Area:	1.0	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	0 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
Modified: 12/11/2019 4:45:39 PM

Electropherogram Summary Continued ...

Sample 7



Overall Results for sample 7 : Sample 7

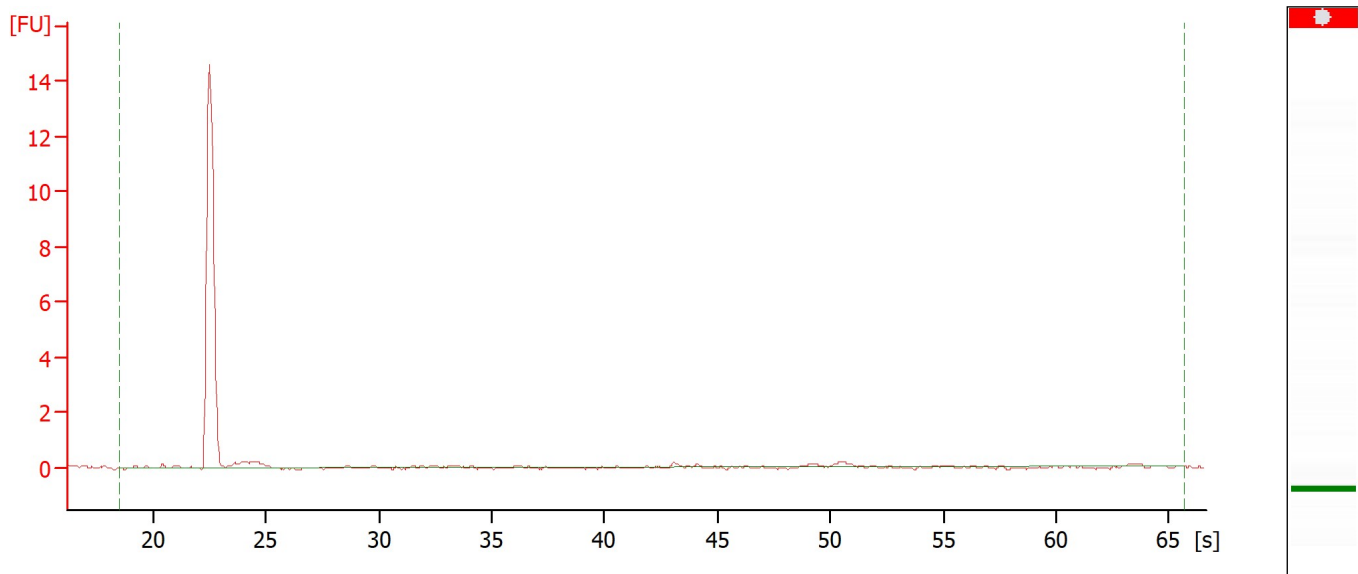
RNA Area:	3.7	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	2 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
Modified: 12/11/2019 4:45:39 PM

Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

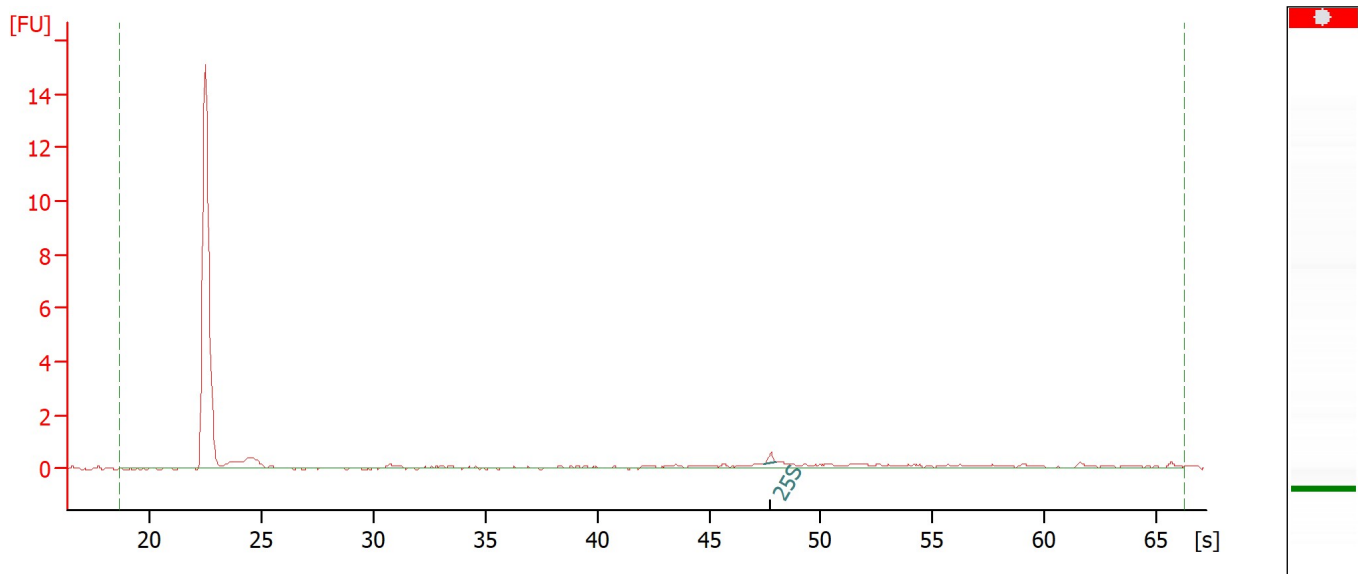
RNA Area:	2.3	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	1 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
 Modified: 12/11/2019 4:45:39 PM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

RNA Area:	6.3	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	3 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Fragment table for sample 9 : Sample 9

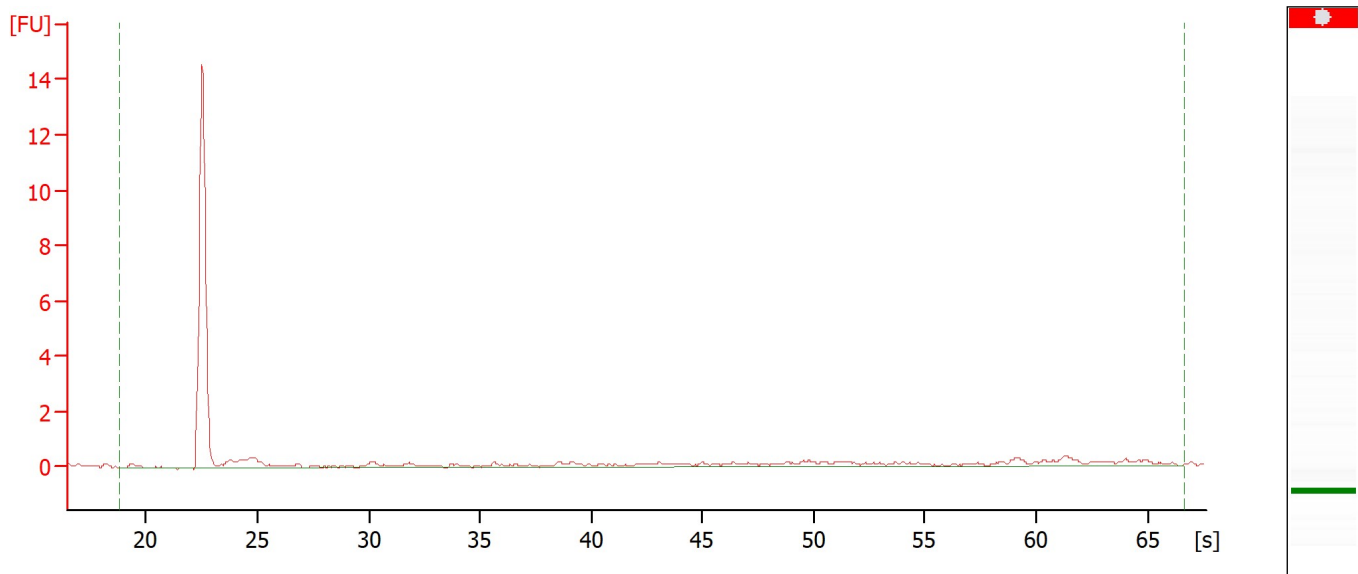
Name	Start Time [s]	End Time [s]	Area	% of total Area
25S	47.49	47.97	0.2	2.9

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
 Modified: 12/11/2019 4:45:39 PM

Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

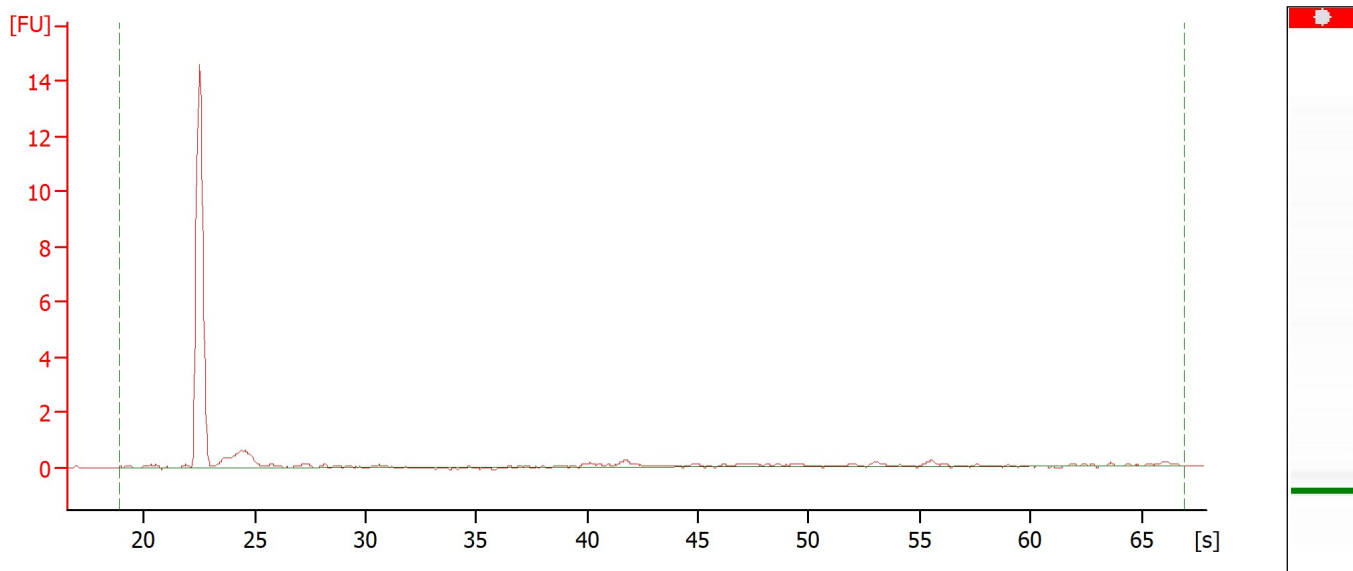
RNA Area:	8.7	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	4 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
Modified: 12/11/2019 4:45:39 PM

Electropherogram Summary Continued ...

Sample 11



Overall Results for sample 11 : Sample 11

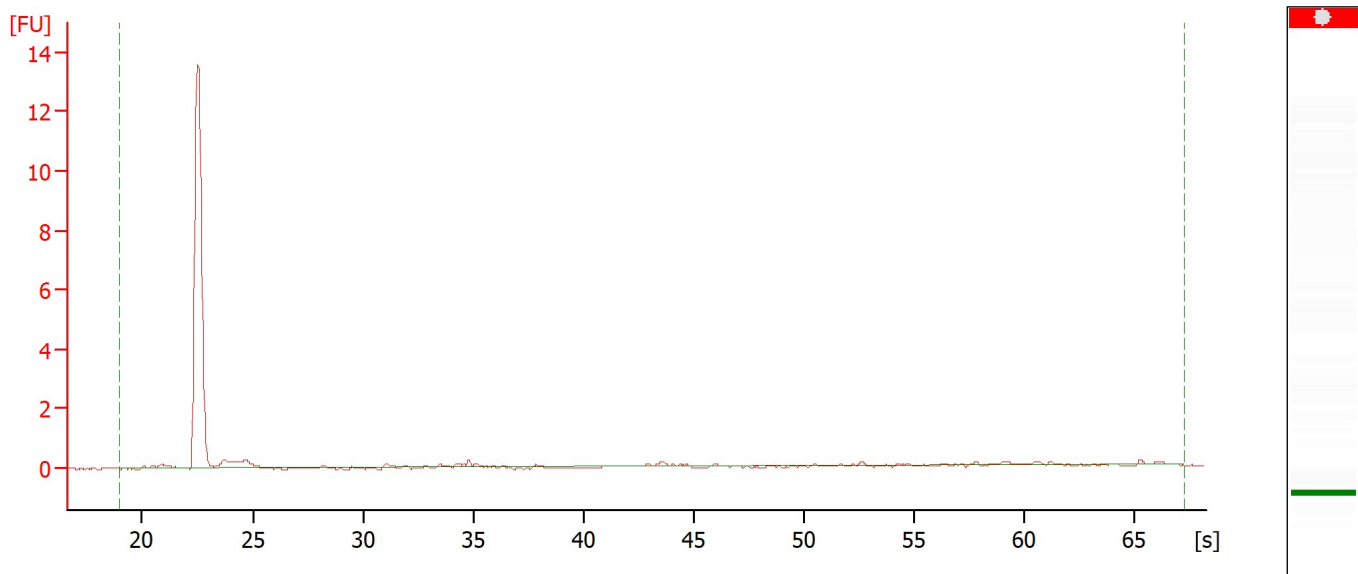
RNA Area:	6.4	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	3 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
 Modified: 12/11/2019 4:45:39 PM

Electropherogram Summary Continued ...

Sample 12



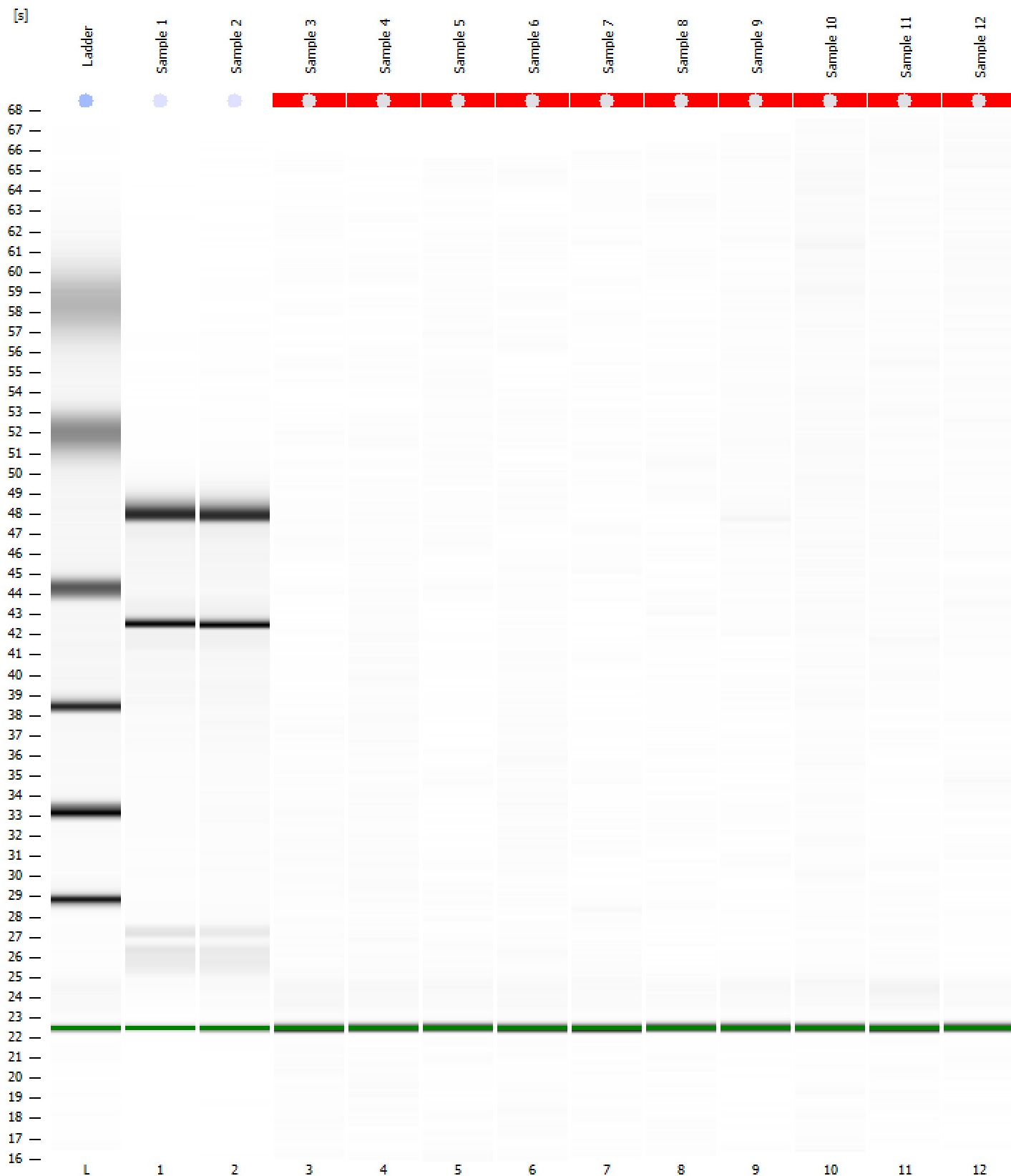
Overall Results for sample 12 : Sample 12

RNA Area:	5.2	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	3 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
Modified: 12/11/2019 4:45:39 PM

Gel Image

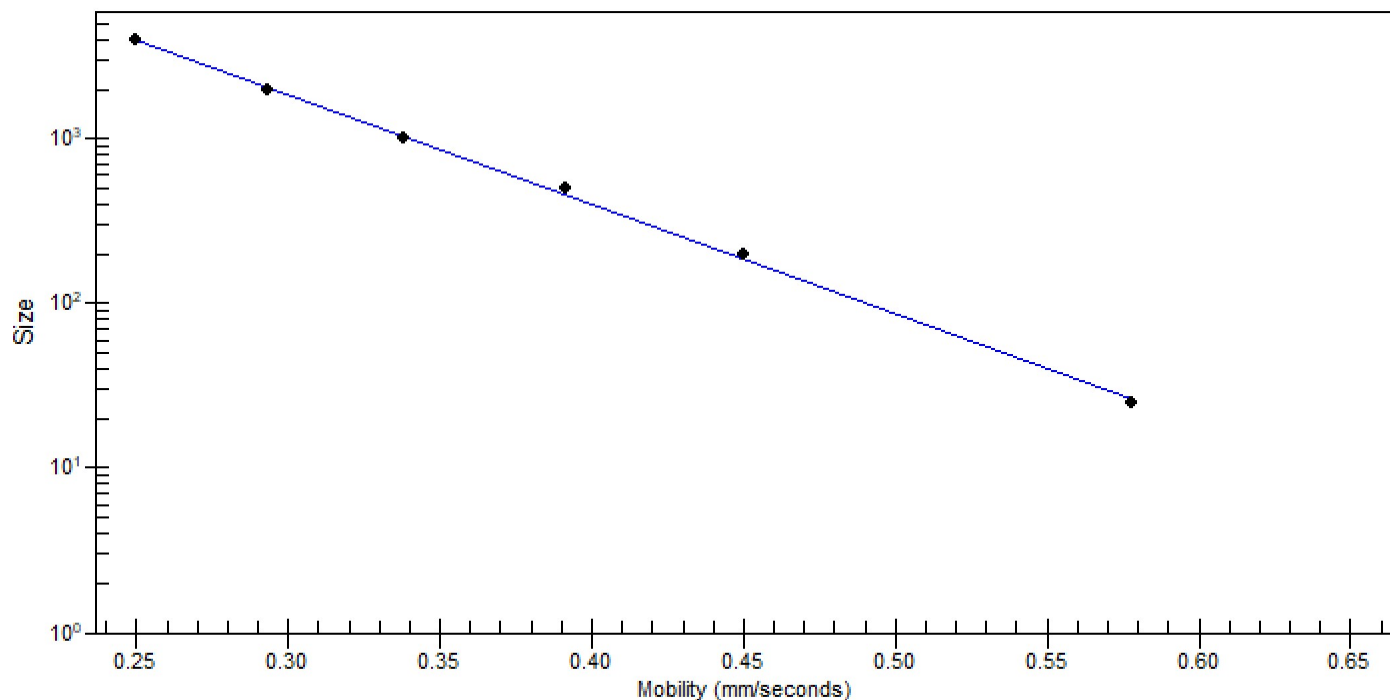


Assay Class: Plant RNA Nano
Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
Modified: 12/11/2019 4:45:39 PM

Curves

Standard Curve



Assay Class: Plant RNA Nano
 Data Path: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad

Created: 12/11/2019 4:21:50 PM
 Modified: 12/11/2019 4:45:39 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		12/11/2019 4:45:38 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-12-11\Bioanalyzer1_Plant RNA Nano_2019-12-11_001.xad)		Instrument	Run		12/11/2019 4:21:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/11/2019 4:21:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/11/2019 4:21:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/11/2019 4:21:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/11/2019 4:21:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/11/2019 4:21:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/11/2019 4:21:56 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB