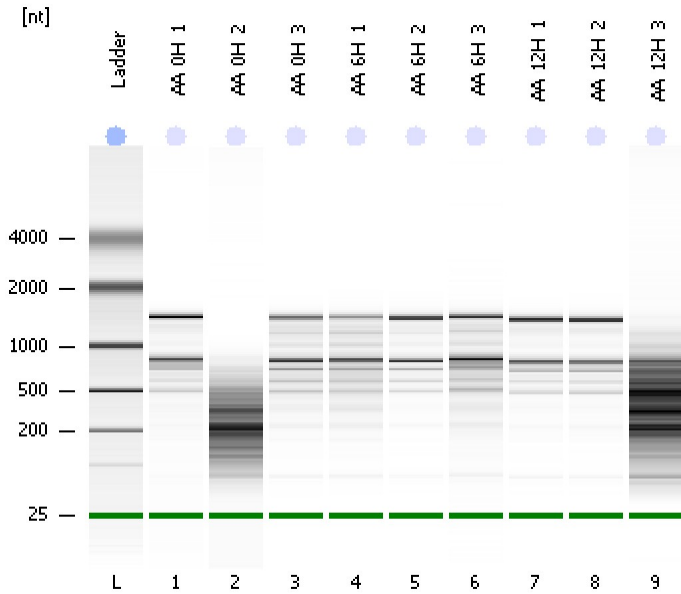


Assay Class: Plant RNA Nano
Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
Modified: 1/19/2016 3:46:11 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

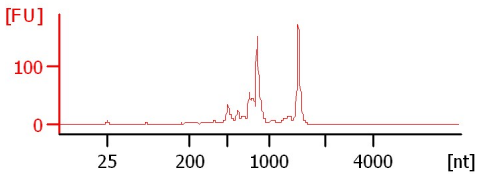
Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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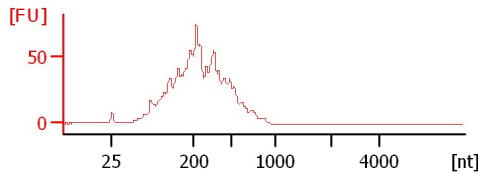
Chip Information:

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

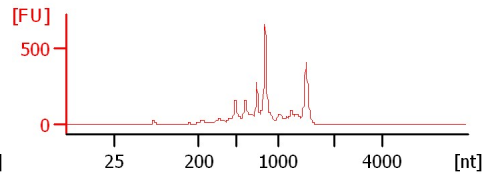
AA_0H_1
RIN: 7



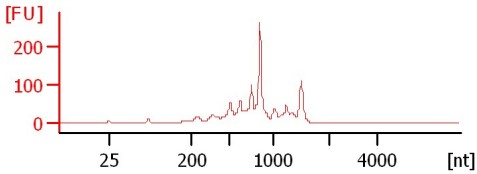
AA_0H_2
RIN: 1.10



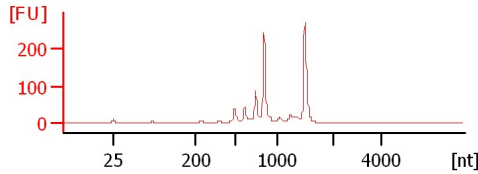
AA_0H_3
RIN: 6.40



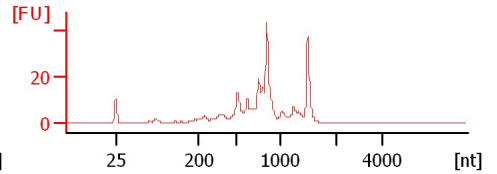
AA_6H_1
RIN: 6.10



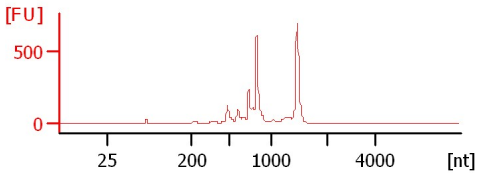
AA_6H_2
RIN: 7.40



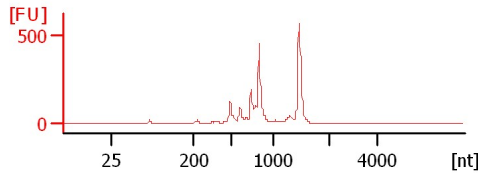
AA_6H_3
RIN: 6.50



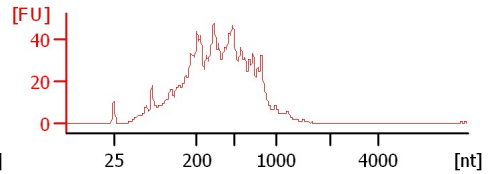
AA_12H_1
RIN: 7.50



AA_12H_2
RIN: 7.50



AA_12H_3
RIN: 2.30



Assay Class: Plant RNA Nano
 Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
 Modified: 1/19/2016 3:46:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
AA_0H_1		✓	RIN:7	
AA_0H_2		✓	RIN: 1.10	
AA_0H_3		✓	RIN: 6.40	
AA_6H_1		✓	RIN: 6.10	
AA_6H_2		✓	RIN: 7.40	
AA_6H_3		✓	RIN: 6.50	
AA_12H_1		✓	RIN: 7.50	
AA_12H_2		✓	RIN: 7.50	
AA_12H_3		✓	RIN: 2.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
Modified: 1/19/2016 3:46:11 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

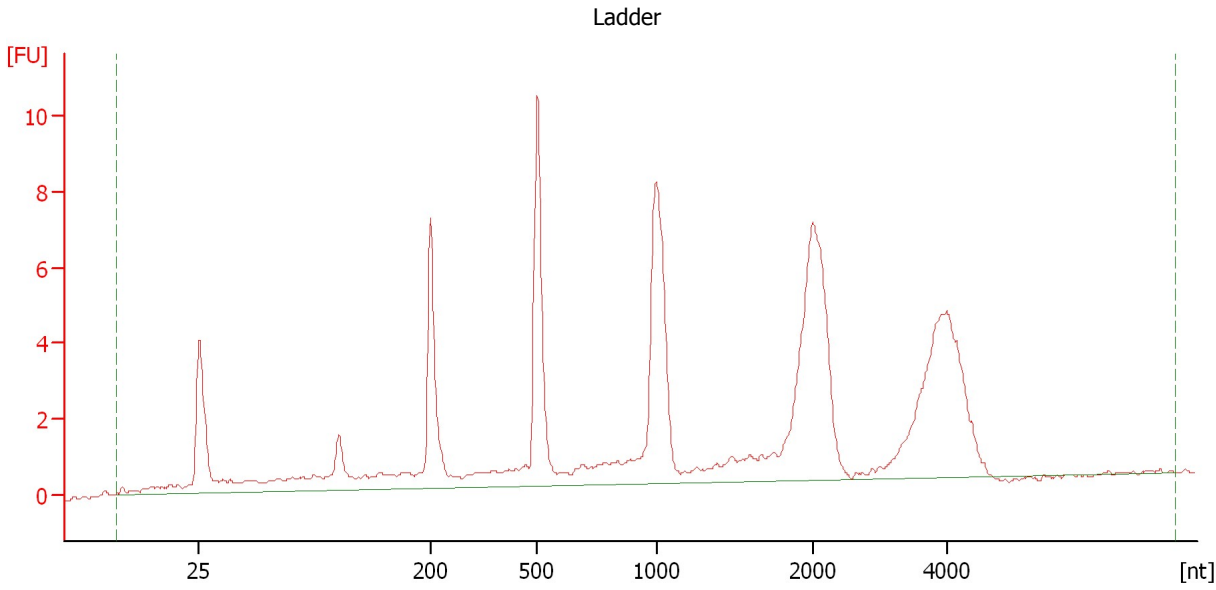
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
Modified: 1/19/2016 3:46:11 PM

Electropherogram Summary



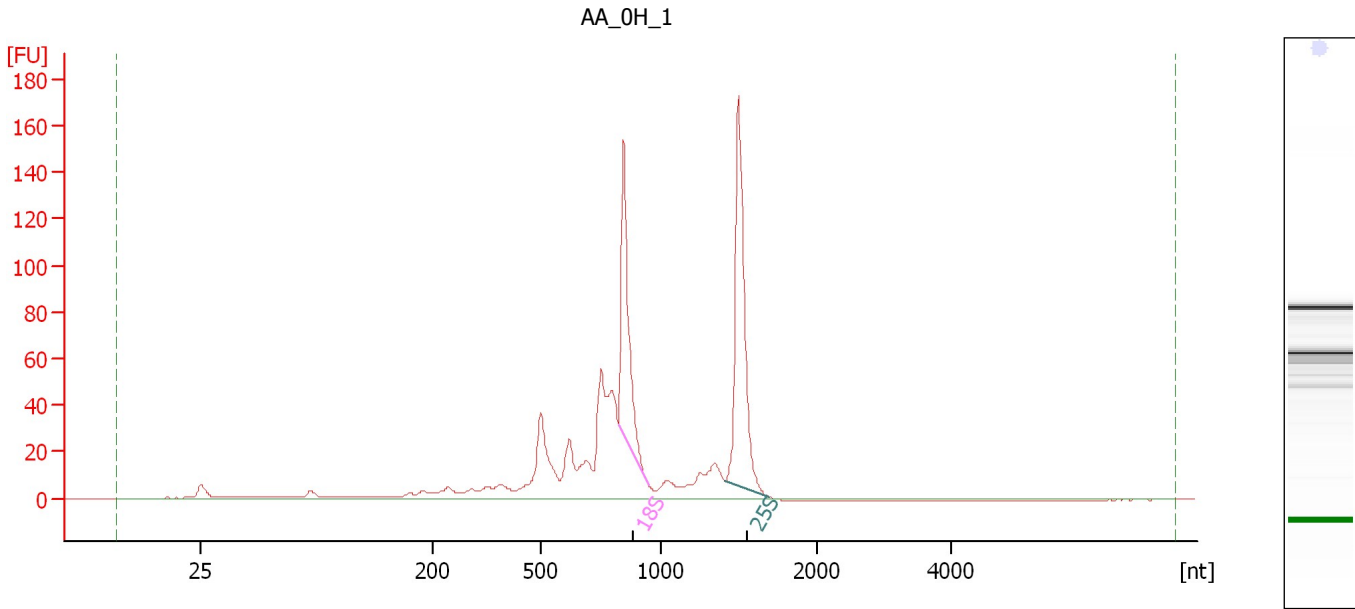
Overall Results for Ladder

RNA Area:	97.2	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
 Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
 Modified: 1/19/2016 3:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : AA_0H_1

RNA Area:	733.8	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	1,132 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN:7

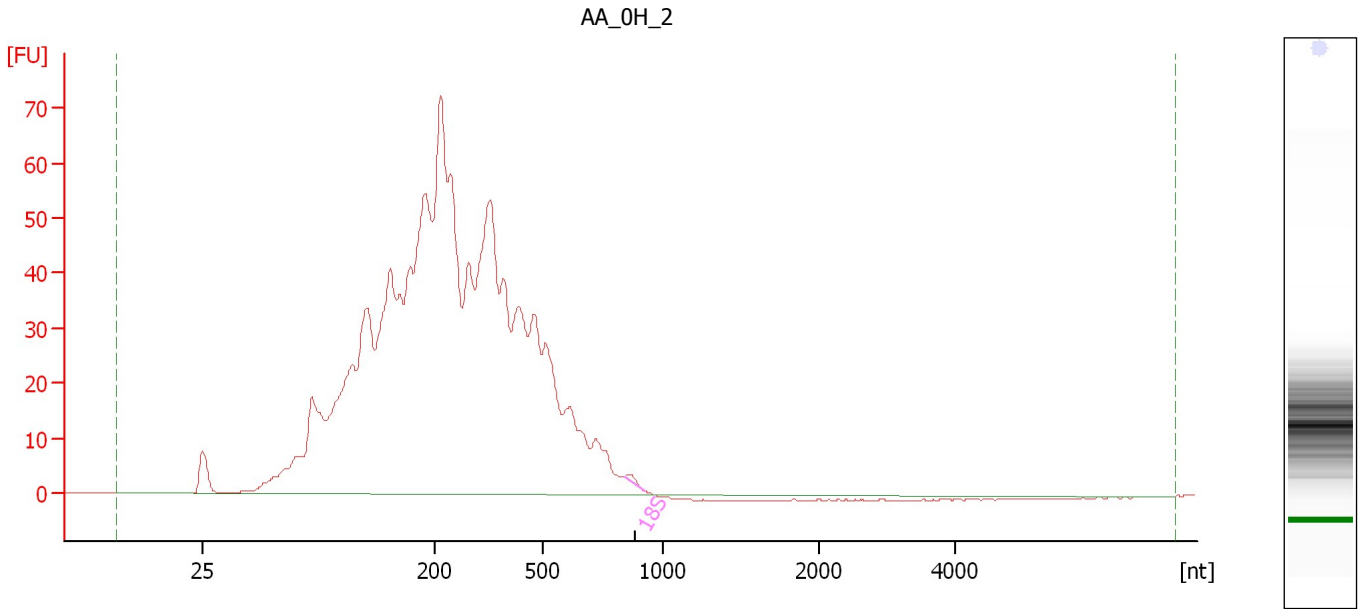
Fragment table for sample 1 : AA_0H_1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	822	947	114.9	15.7
25S	1,410	1,689	162.6	22.2

Assay Class: Plant RNA Nano
Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
Modified: 1/19/2016 3:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AA_0H_2

RNA Area:	1,292.1	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	1,993 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

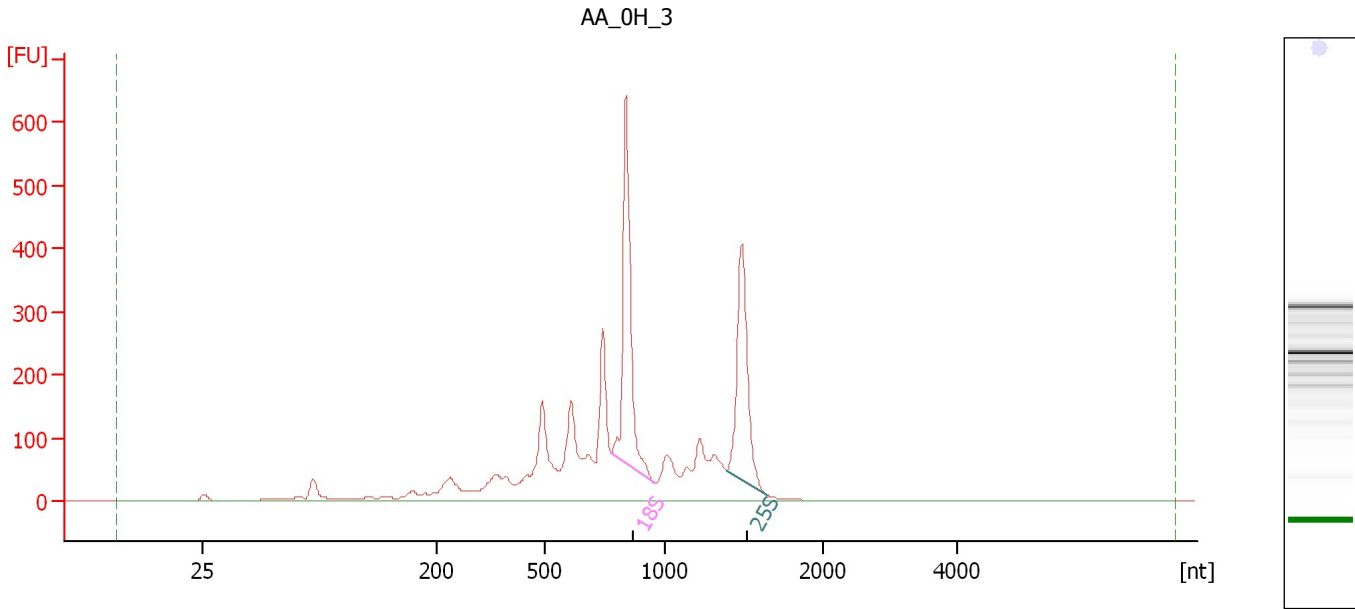
Fragment table for sample 2 : AA_0H_2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	841	925	1.2	0.1

Assay Class: Plant RNA Nano
 Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
 Modified: 1/19/2016 3:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : AA_0H_3

RNA Area:	3,132.6	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	4,833 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.8	Result Flagging Label:	RIN: 6.40

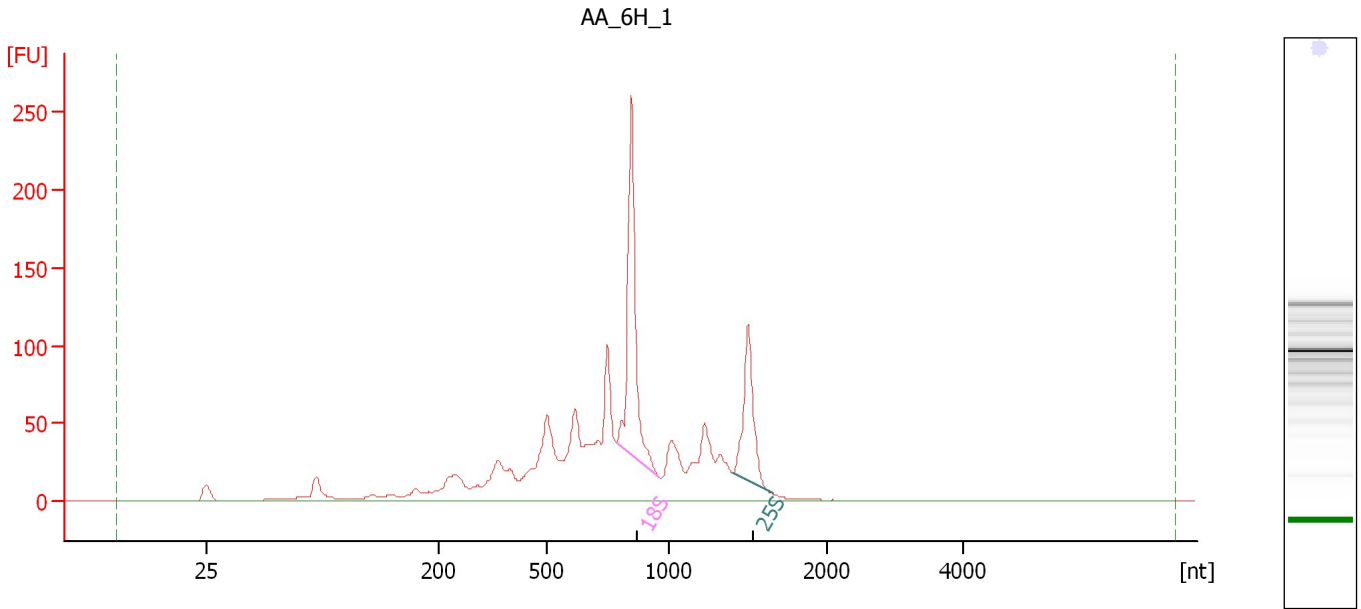
Fragment table for sample 3 : AA_0H_3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	780	957	533.4	17.0
25S	1,396	1,654	420.7	13.4

Assay Class: Plant RNA Nano
 Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
 Modified: 1/19/2016 3:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : AA_6H_1

RNA Area:	1,356.0	RNA Integrity Number (RIN):	6.1 (B.02.08)
RNA Concentration:	2,092 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.5	Result Flagging Label:	RIN: 6.10

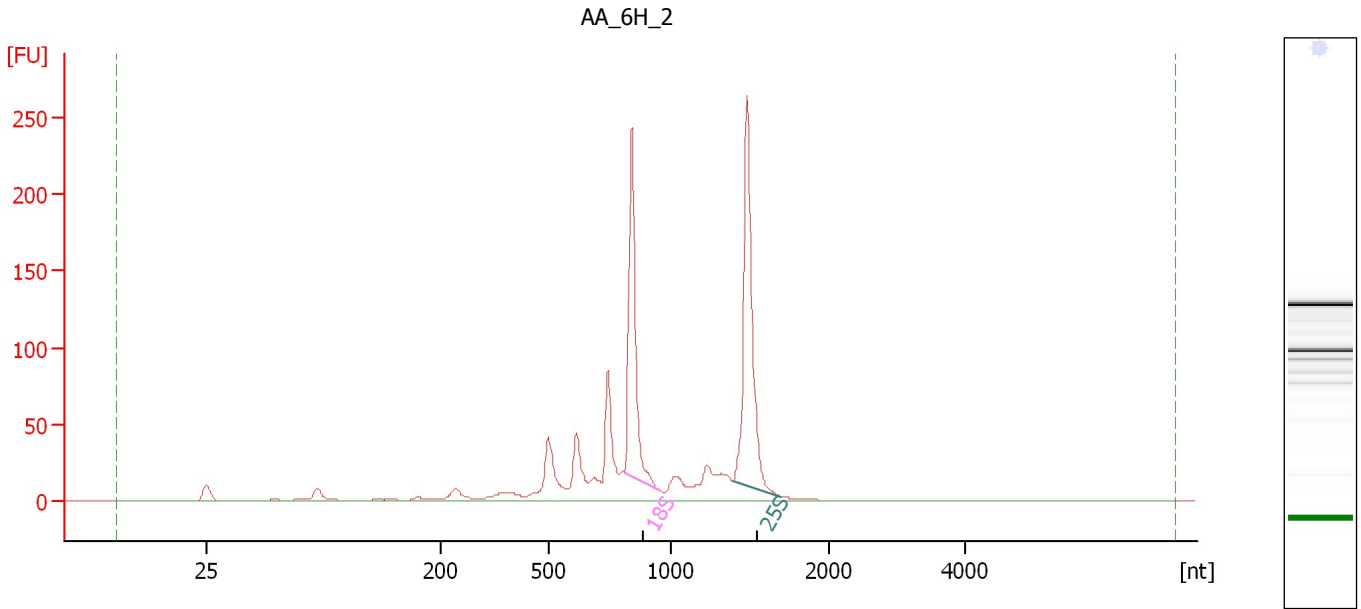
Fragment table for sample 4 : AA_6H_1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	781	962	212.4	15.7
25S	1,409	1,652	109.2	8.1

Assay Class: Plant RNA Nano
Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
Modified: 1/19/2016 3:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AA_6H_2

RNA Area: 924.4 RNA Integrity Number (RIN): 7.4 (B.02.08)
RNA Concentration: 1,426 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.3 Result Flagging Label: RIN: 7.40

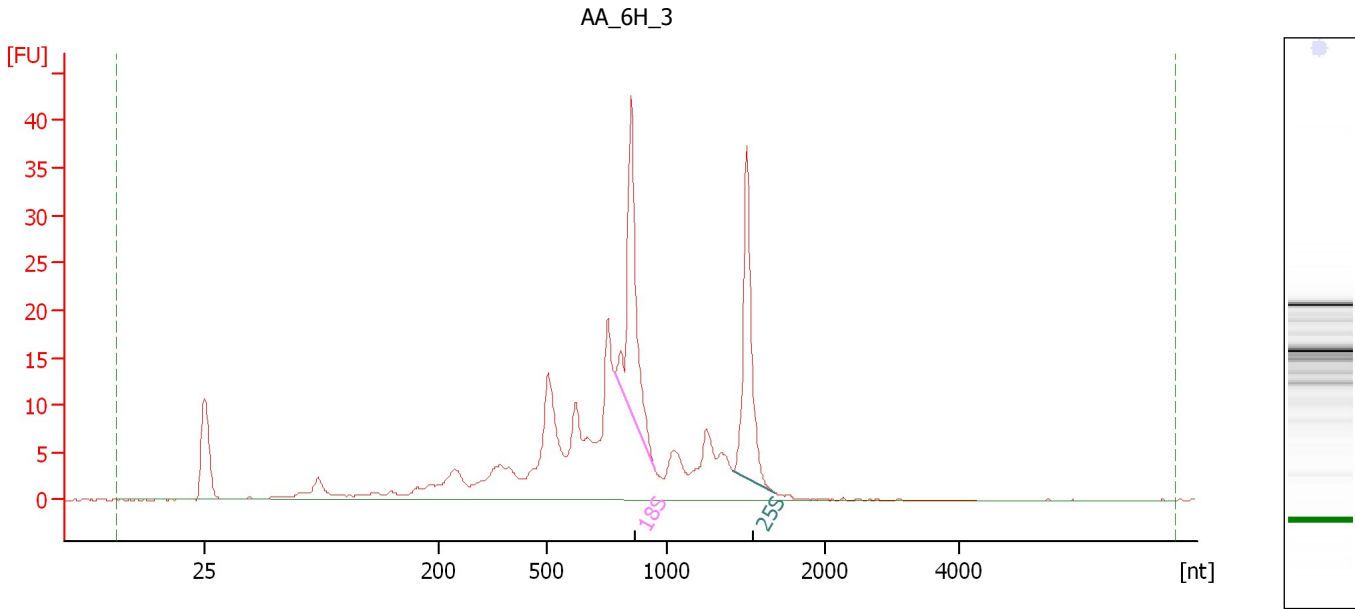
Fragment table for sample 5 : AA_6H_2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	813	958	182.8	19.8
25S	1,388	1,692	239.7	25.9

Assay Class: Plant RNA Nano
 Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
 Modified: 1/19/2016 3:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : AA_6H_3

RNA Area:	269.2	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	415 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.9	Result Flagging Label:	RIN: 6.50

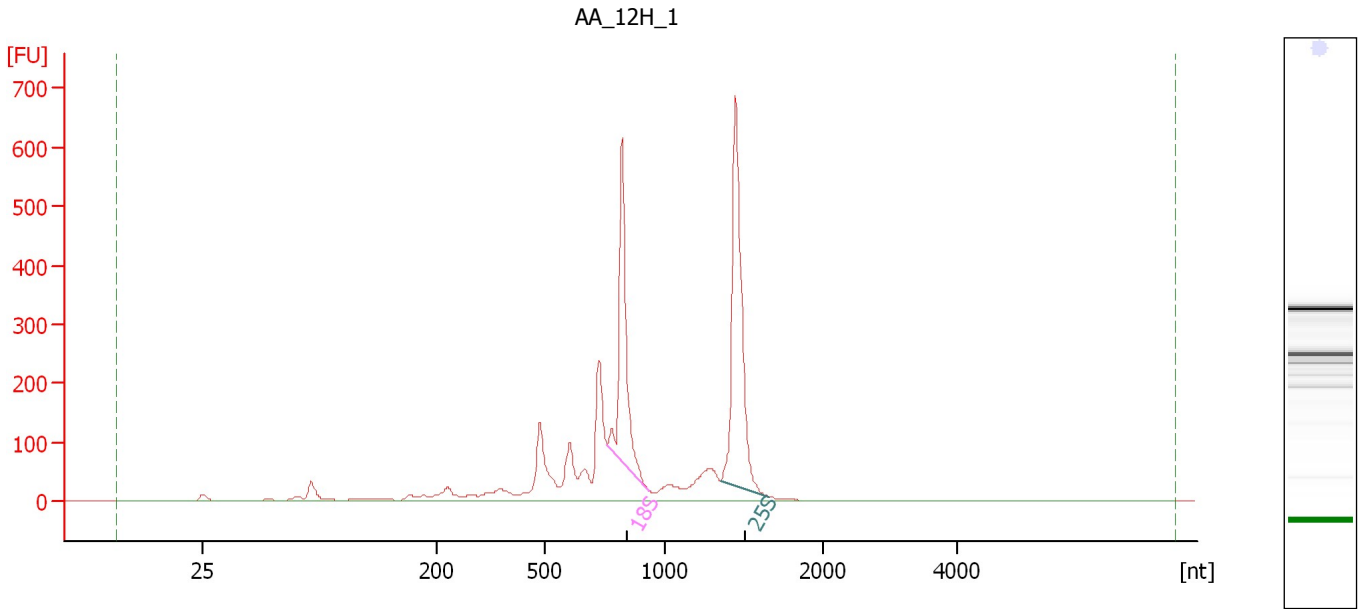
Fragment table for sample 6 : AA_6H_3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	785	948	34.7	12.9
25S	1,422	1,680	31.8	11.8

Assay Class: Plant RNA Nano
 Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
 Modified: 1/19/2016 3:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : AA_12H_1

RNA Area:	2,694.8	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	4,157 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 7.50

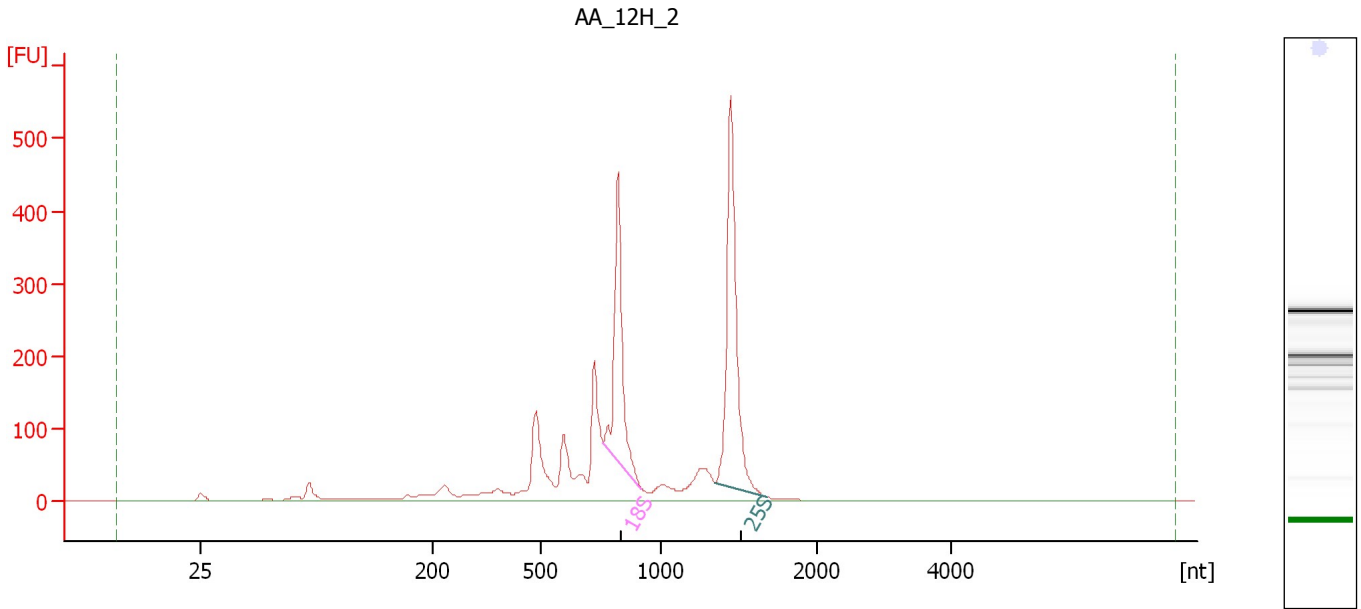
Fragment table for sample 7 : AA_12H_1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	762	930	490.7	18.2
25S	1,355	1,661	695.3	25.8

Assay Class: Plant RNA Nano
 Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
 Modified: 1/19/2016 3:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : AA_12H_2

RNA Area:	2,200.7	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	3,395 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN: 7.50

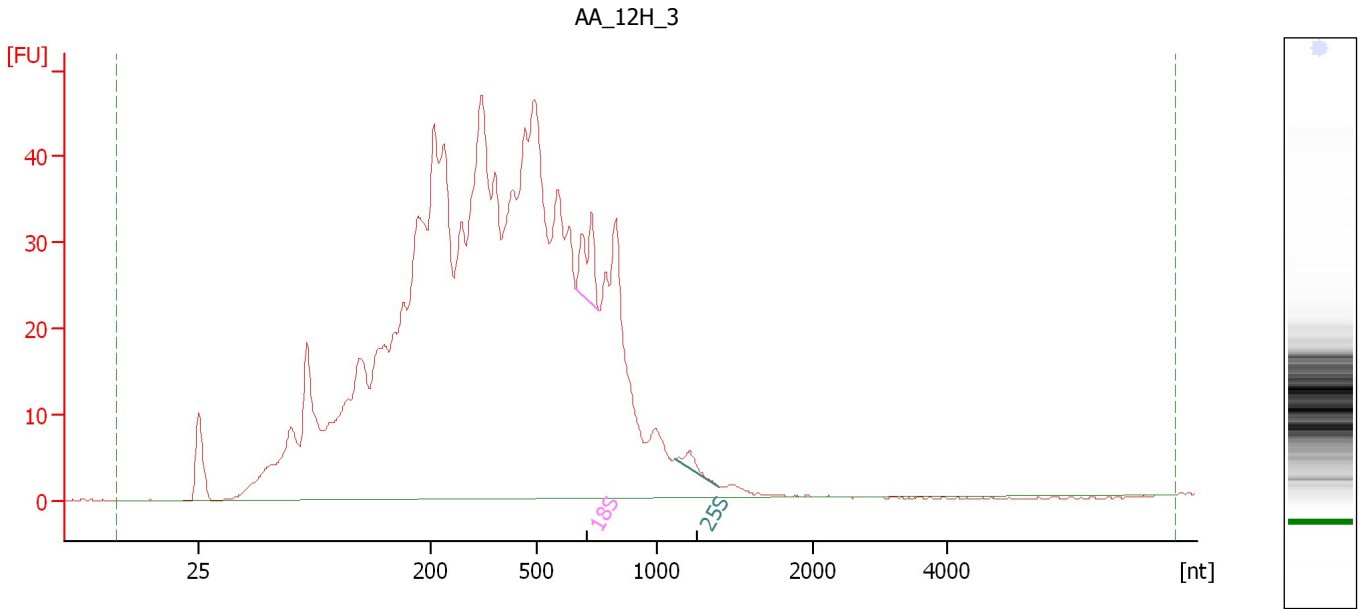
Fragment table for sample 8 : AA_12H_2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	760	920	372.0	16.9
25S	1,348	1,683	577.0	26.2

Assay Class: Plant RNA Nano
Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
Modified: 1/19/2016 3:46:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : AA_12H_3

RNA Area: 1,227.6 RNA Integrity Number (RIN): 2.3 (B.02.08)
RNA Concentration: 1,894 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.2 Result Flagging Label: RIN: 2.30

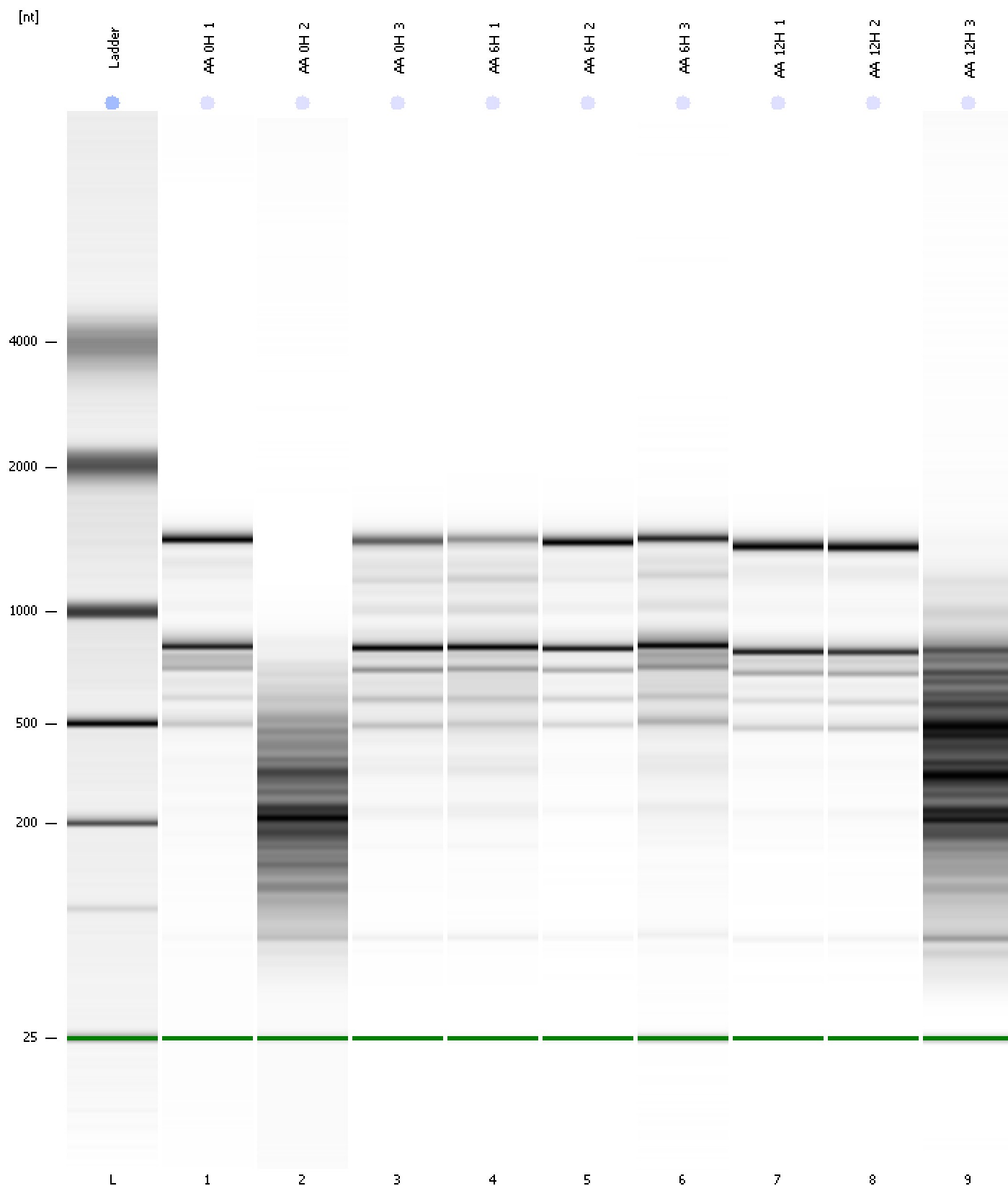
Fragment table for sample 9 : AA_12H_3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	660	758	13.6	1.1
25S	1,116	1,397	2.7	0.2

Assay Class: Plant RNA Nano
Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad

Created: 1/19/2016 2:09:55 PM
Modified: 1/19/2016 3:46:11 PM

Gel Image



Assay Class: Plant RNA Nano Created: 1/19/2016 2:09:55 PM
 Data Path: C:\...ngs\Bioanalyzer\2016-01-19\2016-01-19_003_AA_TotalRNAQC.xad Modified: 1/19/2016 3:46:11 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		1/19/2016 2:32:59 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-01-19\2016-01-19_003.xad)		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/19/2016 2:10:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1