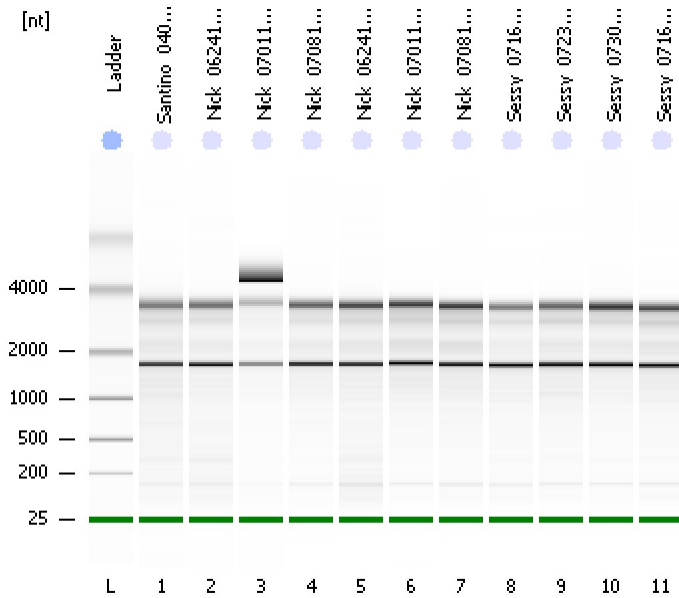


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
Modified: 11/5/2019 11:06:27 AM

Electrophoresis File Run Summary



Instrument Information:

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

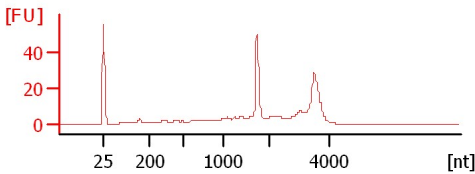
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
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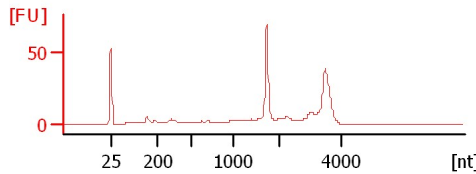
Chip Information:

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

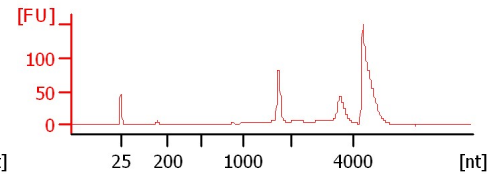
Santino_040819_bright
HiSeq1978 Sample#23
RIN: 7.90



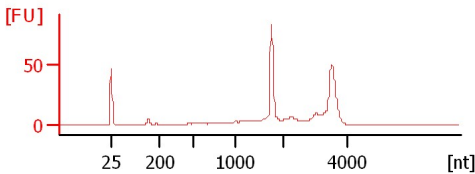
Nick_062419_dim
HiSeq1978 Sample#25
RIN: 8.30



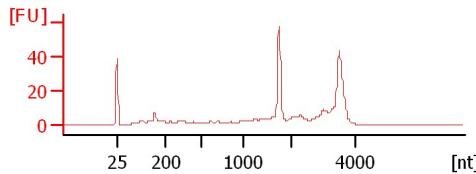
Nick_070119_dim
HiSeq1978 Sample#26
RIN: 7.80



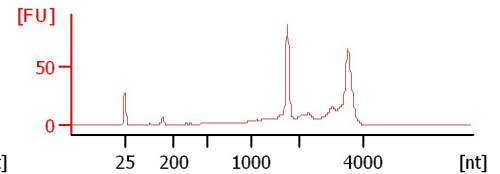
Nick_070819_dim
HiSeq1978 Sample#27
RIN: 8.60



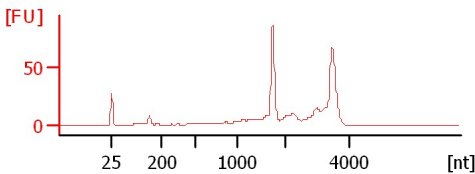
Nick_062419_bright
HiSeq1978 Sample#28
RIN: 8.10



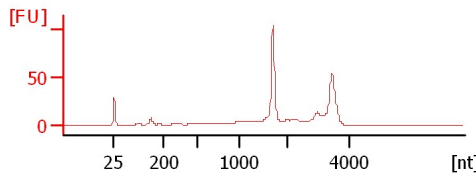
Nick_070119_bright
HiSeq1978 Sample#29
RIN: 8.30



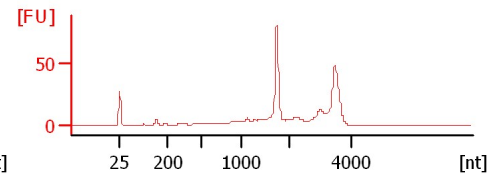
Nick_070819_bright
HiSeq1978 Sample#30
RIN: 8.20



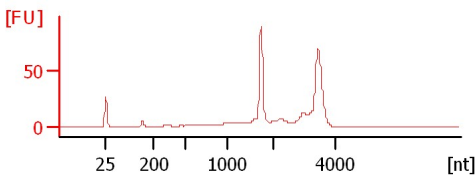
Sessy_071619_dim
HiSeq1978 Sample#31
RIN: 8.20



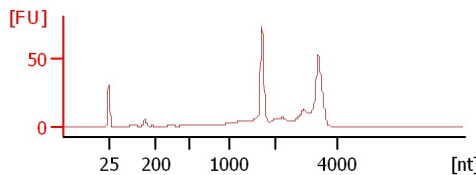
Sessy_072319_dim
HiSeq1978 Sample#32
RIN: 8.10



Sessy_073019_dim
HiSeq1978 Sample#33
RIN: 8.70



Sessy_071619_bright
HiSeq1978 Sample#34
RIN: 8.30



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
 Modified: 11/5/2019 11:06:27 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Santino_040819_bright	HiSeq1978 Sample#23	✓	RIN: 7.90	
Nick_062419_dim	HiSeq1978 Sample#25	✓	RIN: 8.30	
Nick_070119_dim	HiSeq1978 Sample#26	✓	RIN: 7.80	
Nick_070819_dim	HiSeq1978 Sample#27	✓	RIN: 8.60	
Nick_062419_bright	HiSeq1978 Sample#28	✓	RIN: 8.10	
Nick_070119_bright	HiSeq1978 Sample#29	✓	RIN: 8.30	
Nick_070819_bright	HiSeq1978 Sample#30	✓	RIN: 8.20	
Sessy_071619_dim	HiSeq1978 Sample#31	✓	RIN: 8.20	
Sessy_072319_dim	HiSeq1978 Sample#32	✓	RIN: 8.10	
Sessy_073019_dim	HiSeq1978 Sample#33	✓	RIN: 8.70	
Sessy_071619_bright	HiSeq1978 Sample#34	✓	RIN: 8.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
Modified: 11/5/2019 11:06:27 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ 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] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

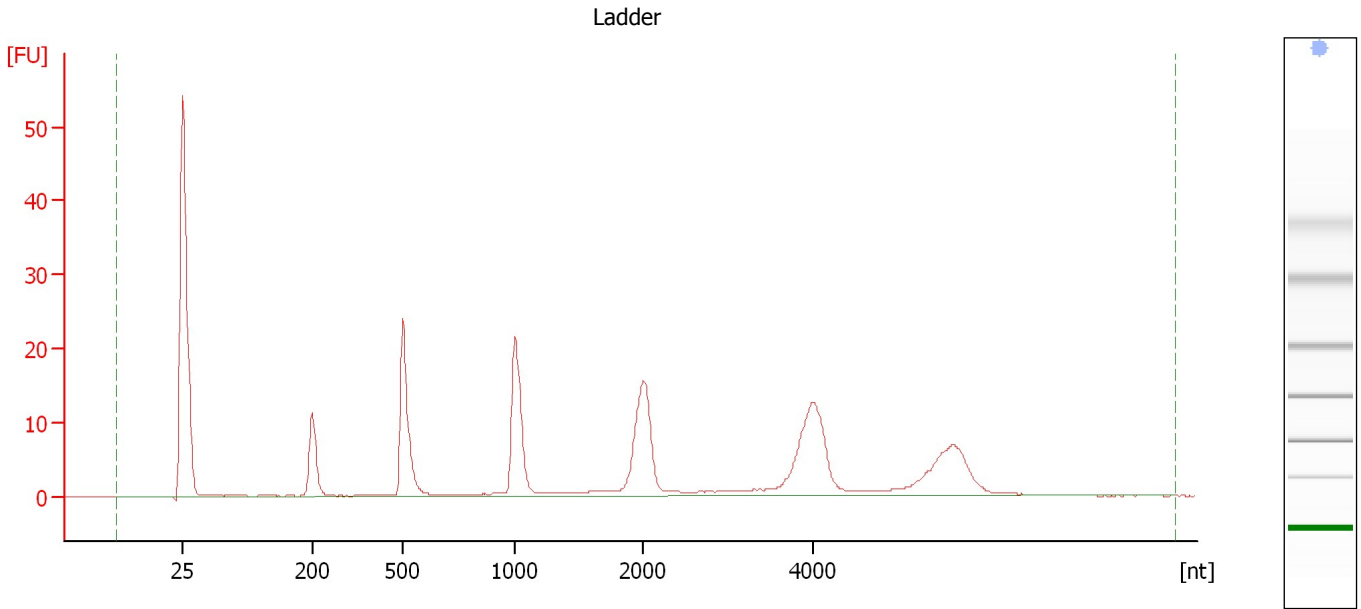
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
Modified: 11/5/2019 11:06:27 AM

Electropherogram Summary



Overall Results for Ladder

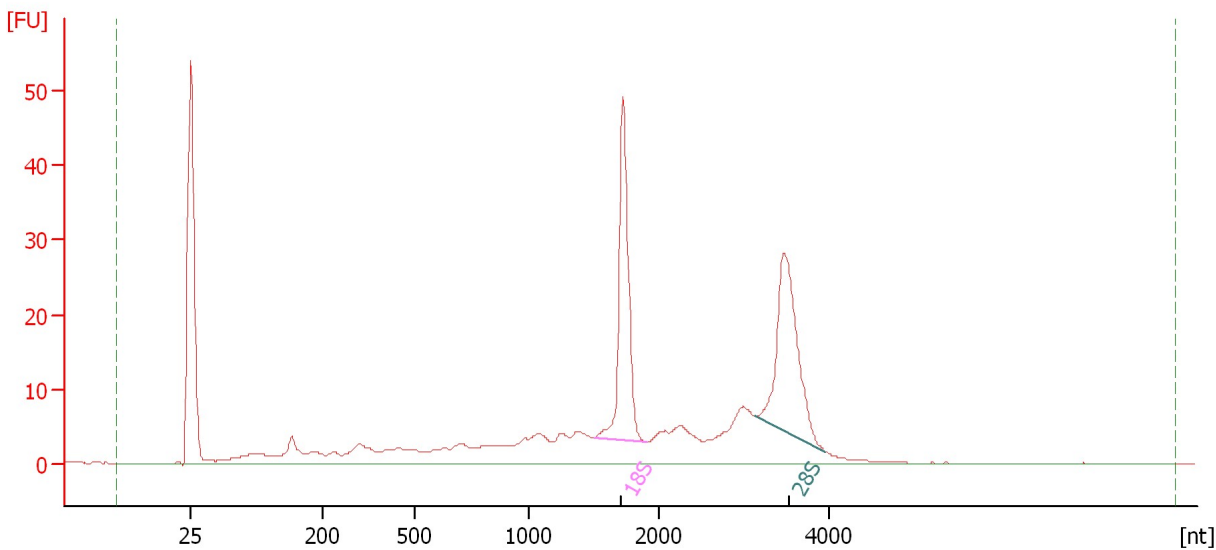
RNA Area:	193.2	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
 Modified: 11/5/2019 11:06:27 AM

Electropherogram Summary Continued ...

Santino_040819_bright [HiSeq1978 Sample#23]



Overall Results for sample 1 : Santino_040819_bright

RNA Area:	314.1	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	1,625 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.90

Fragment table for sample 1 : Santino_040819_bright

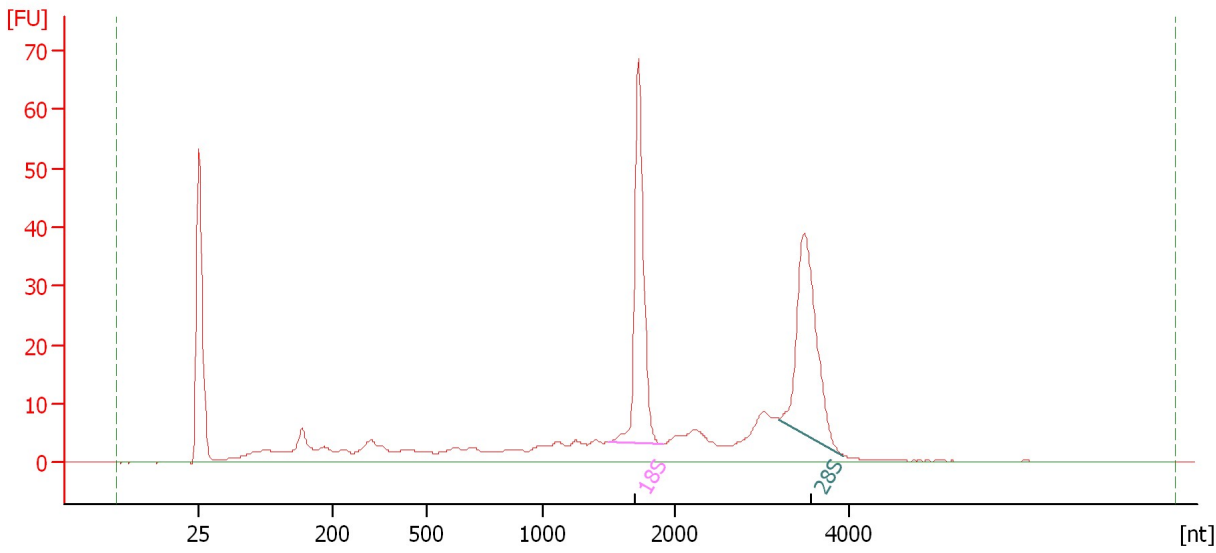
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,518	1,912	54.0	17.2
28S	3,125	3,948	52.8	16.8

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
 Modified: 11/5/2019 11:06:27 AM

Electropherogram Summary Continued ...

Nick_062419_dim [HiSeq1978 Sample#25]



Overall Results for sample 2 : Nick_062419_dim

RNA Area:	366.3	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	1,895 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 8.30

Fragment table for sample 2 : Nick_062419_dim

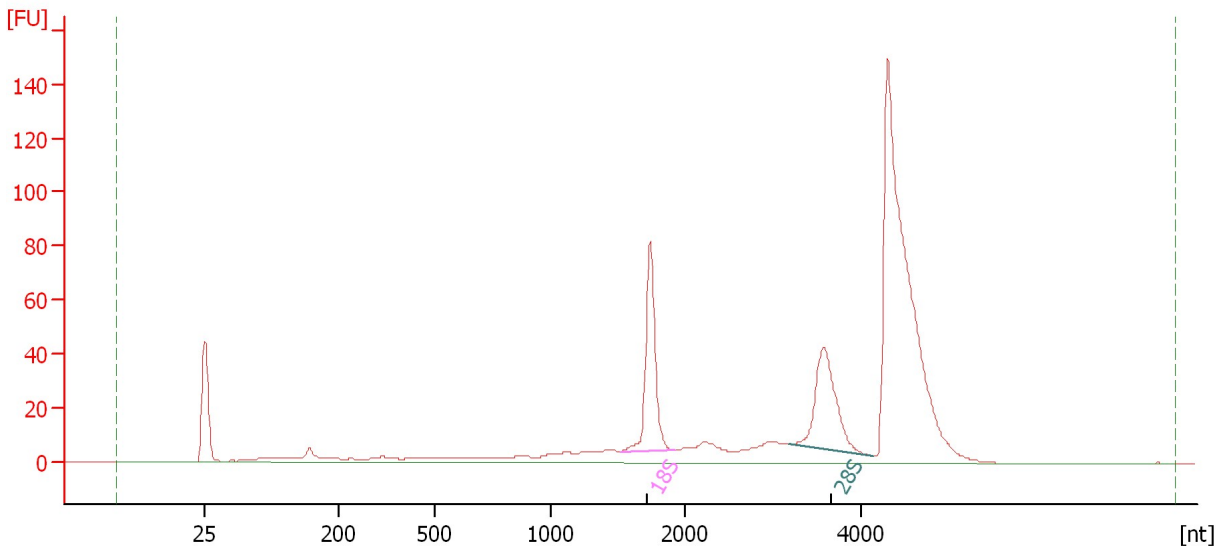
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,497	1,900	72.4	19.8
28S	3,196	3,932	68.5	18.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
Modified: 11/5/2019 11:06:27 AM

Electropherogram Summary Continued ...

Nick_070119_dim [HiSeq1978 Sample#26]



Overall Results for sample 3 : Nick_070119_dim

RNA Area: 749.9 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 3,881 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 7.80

Fragment table for sample 3 : Nick_070119_dim

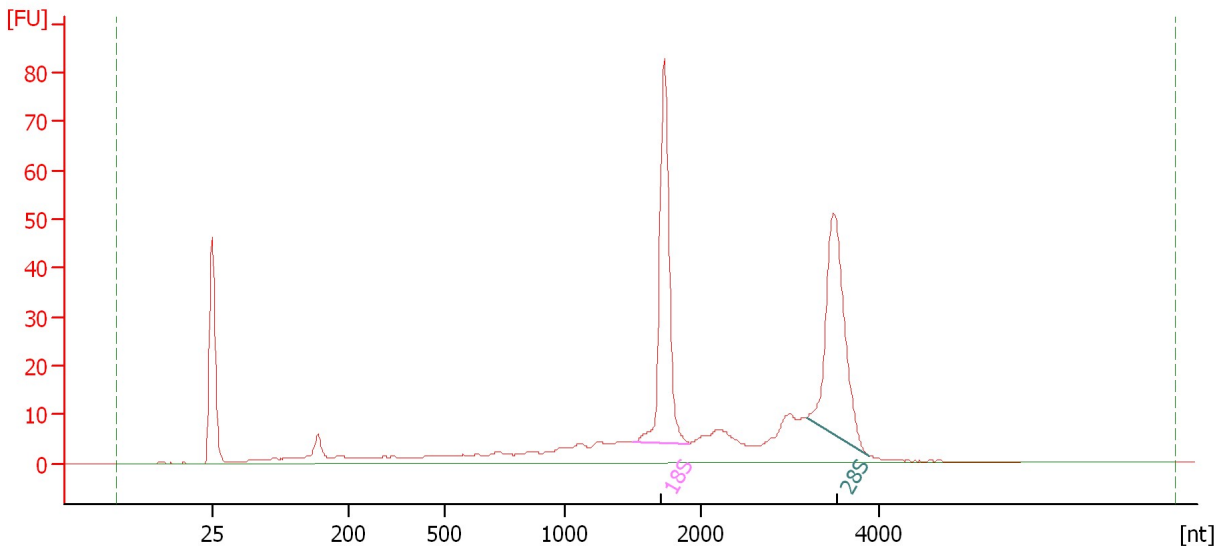
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,512	1,919	90.3	12.0
28S	3,174	4,120	80.4	10.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
Modified: 11/5/2019 11:06:27 AM

Electropherogram Summary Continued ...

Nick_070819_dim [HiSeq1978 Sample#27]



Overall Results for sample 4 : Nick_070819_dim

RNA Area: 398.2 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 2,060 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 8.60

Fragment table for sample 4 : Nick_070819_dim

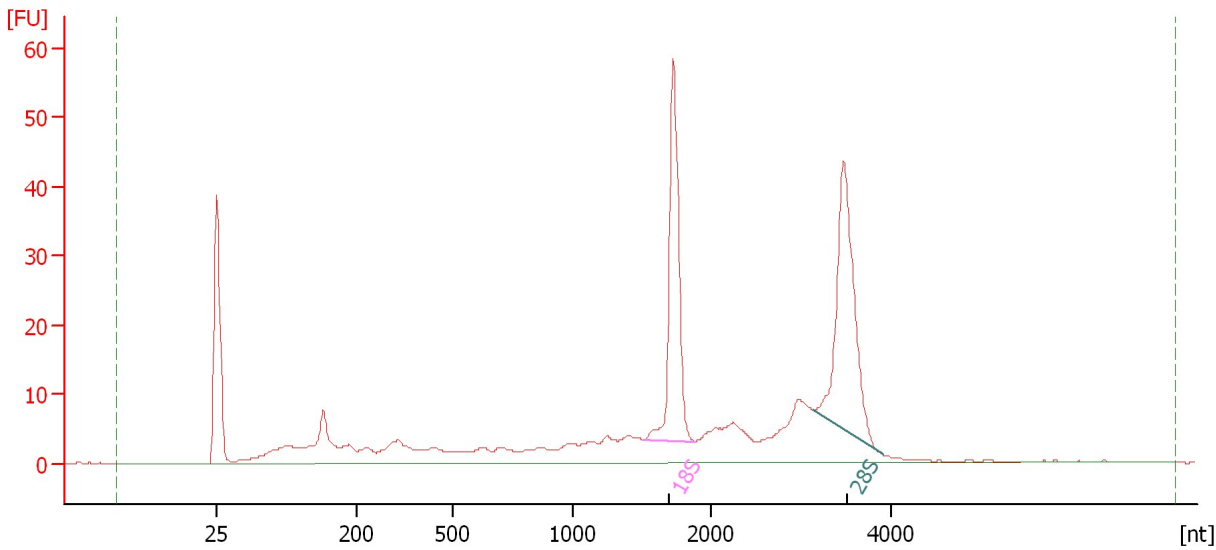
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,506	1,923	89.2	22.4
28S	3,185	3,890	85.0	21.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
Modified: 11/5/2019 11:06:27 AM

Electropherogram Summary Continued ...

Nick_062419_bright [HiSeq1978 Sample#28]



Overall Results for sample 5 : Nick_062419_bright

RNA Area: 361.0 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 1,868 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 8.10

Fragment table for sample 5 : Nick_062419_bright

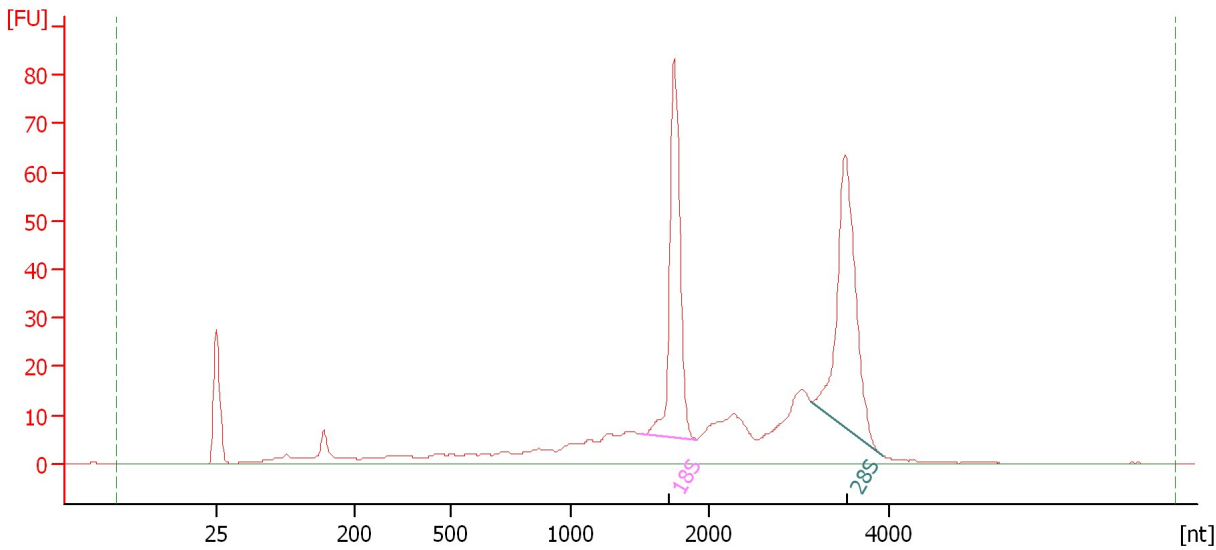
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,505	1,887	60.9	16.9
28S	3,128	3,897	68.3	18.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
Modified: 11/5/2019 11:06:27 AM

Electropherogram Summary Continued ...

Nick_070119_bright [HiSeq1978 Sample#29]



Overall Results for sample 6 : Nick_070119_bright

RNA Area: 503.8 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 2,607 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 8.30

Fragment table for sample 6 : Nick_070119_bright

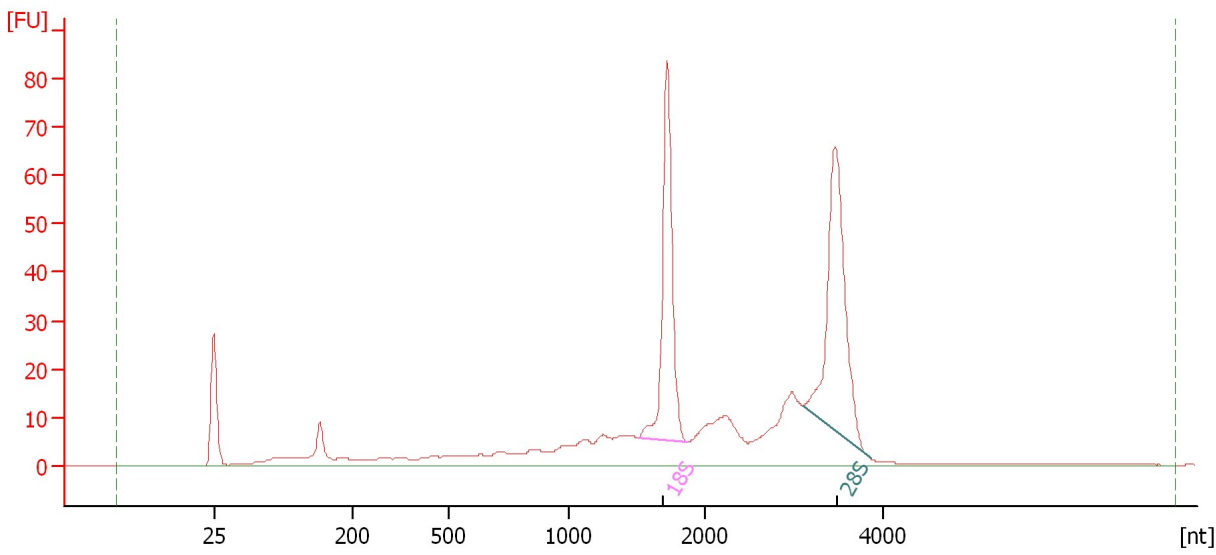
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,512	1,909	94.0	18.7
28S	3,142	3,924	104.5	20.8

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
 Modified: 11/5/2019 11:06:27 AM

Electropherogram Summary Continued ...

Nick_070819_bright [HiSeq1978 Sample#30]



Overall Results for sample 7 : Nick_070819_bright

RNA Area:	503.1	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	2,603 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 8.20

Fragment table for sample 7 : Nick_070819_bright

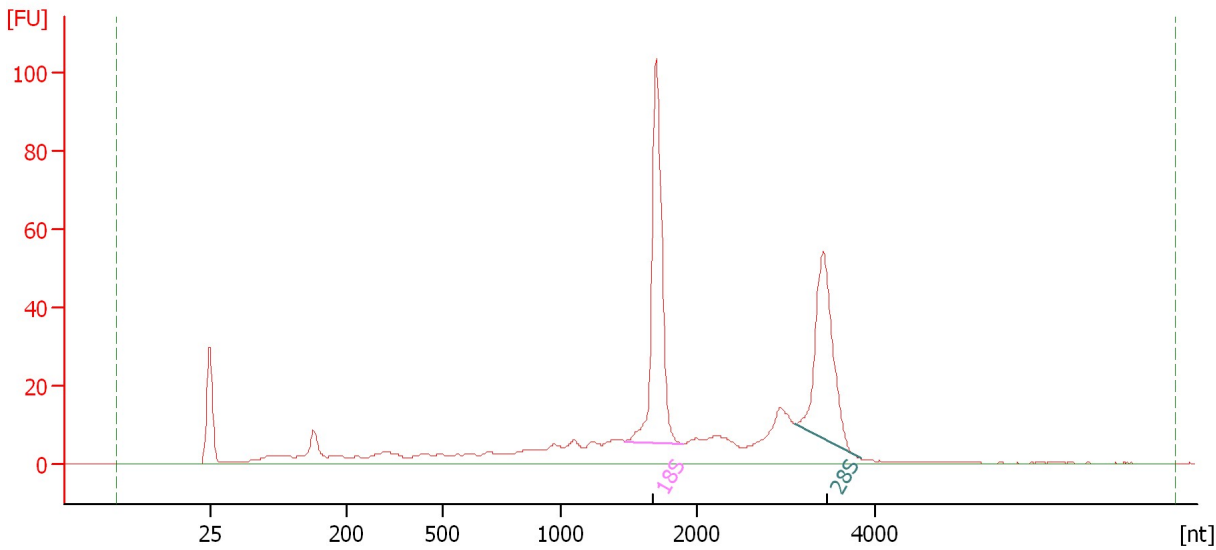
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,517	1,877	91.7	18.2
28S	3,098	3,847	103.5	20.6

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
 Modified: 11/5/2019 11:06:27 AM

Electropherogram Summary Continued ...

Sessy_071619_dim [HiSeq1978 Sample#31]



Overall Results for sample 8 : Sessy_071619_dim

RNA Area:	502.9	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	2,602 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 8.20

Fragment table for sample 8 : Sessy_071619_dim

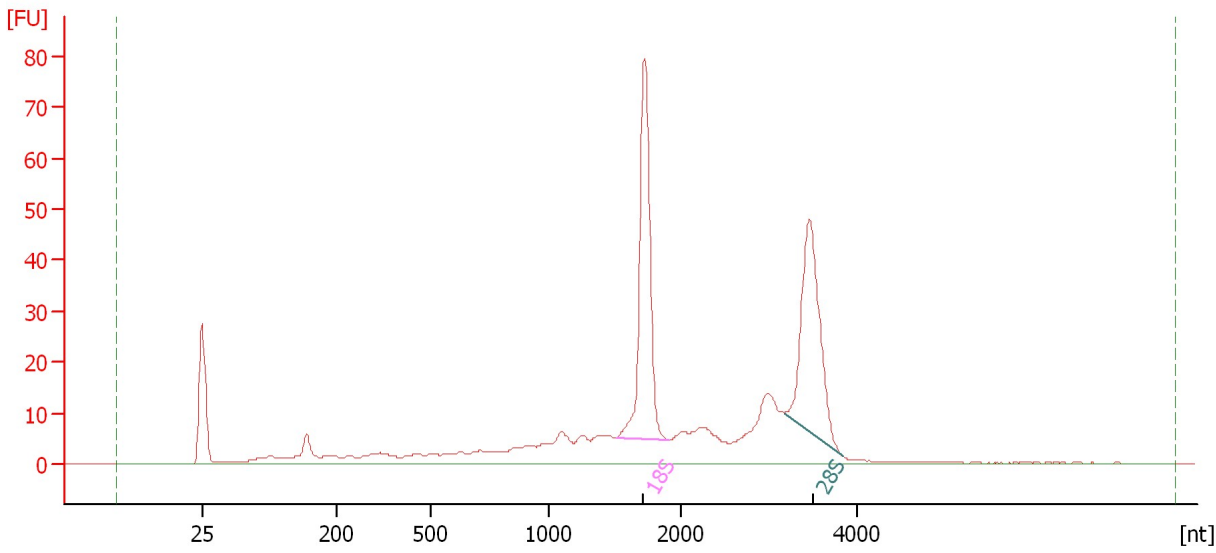
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,472	1,898	118.4	23.5
28S	3,117	3,849	85.0	16.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
Modified: 11/5/2019 11:06:27 AM

Electropherogram Summary Continued ...

Sessy_072319_dim [HiSeq1978 Sample#32]



Overall Results for sample 9 : Sessy_072319_dim

RNA Area:	437.4	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	2,263 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 8.10

Fragment table for sample 9 : Sessy_072319_dim

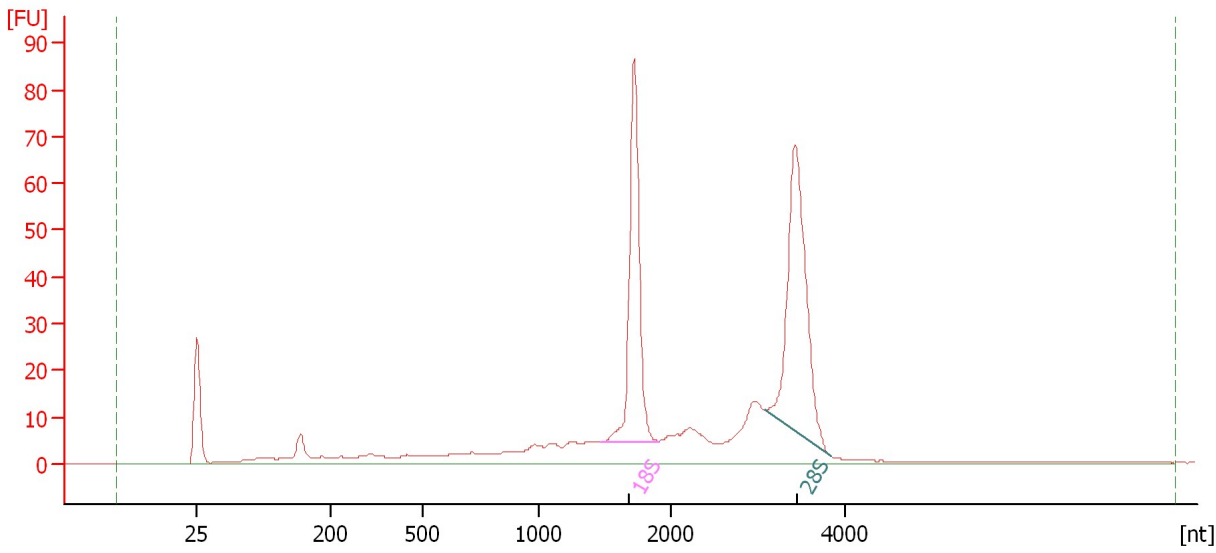
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,509	1,910	93.0	21.3
28S	3,178	3,848	79.1	18.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
Modified: 11/5/2019 11:06:27 AM

Electropherogram Summary Continued ...

Sessy_073019_dim [HiSeq1978 Sample#33]



Overall Results for sample 10 : Sessy_073019_dim

RNA Area: 477.7 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 2,472 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 8.70

Fragment table for sample 10 : Sessy_073019_dim

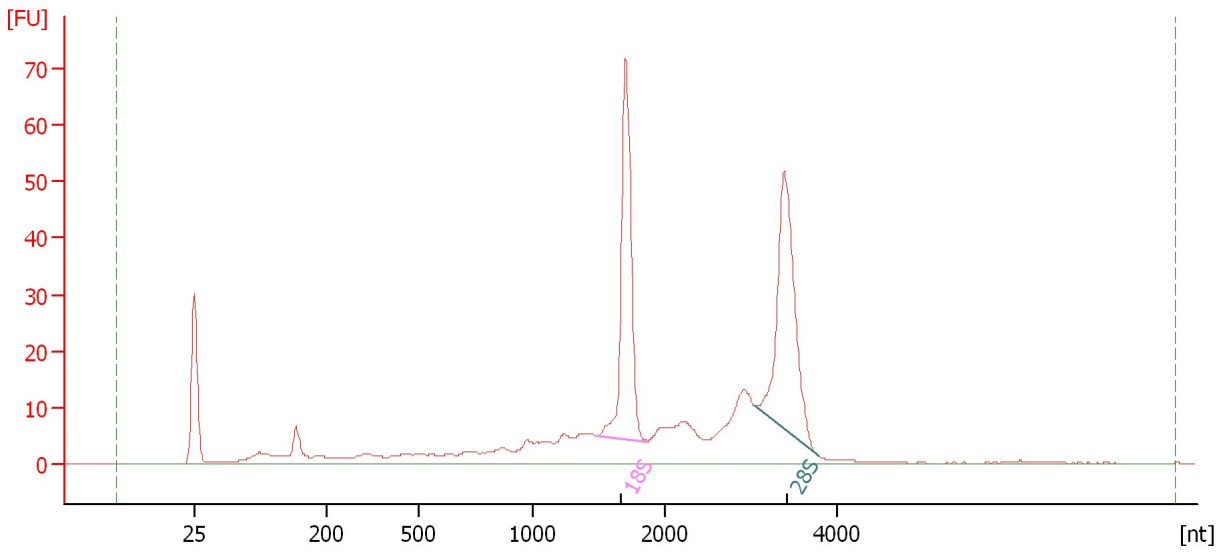
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,470	1,907	100.8	21.1
28S	3,090	3,853	118.9	24.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
Modified: 11/5/2019 11:06:27 AM

Electropherogram Summary Continued ...

Sessy_071619_bright [HiSeq1978 Sample#34]



Overall Results for sample 11 : Sessy_071619_bright

RNA Area:	411.3	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	2,128 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 8.30

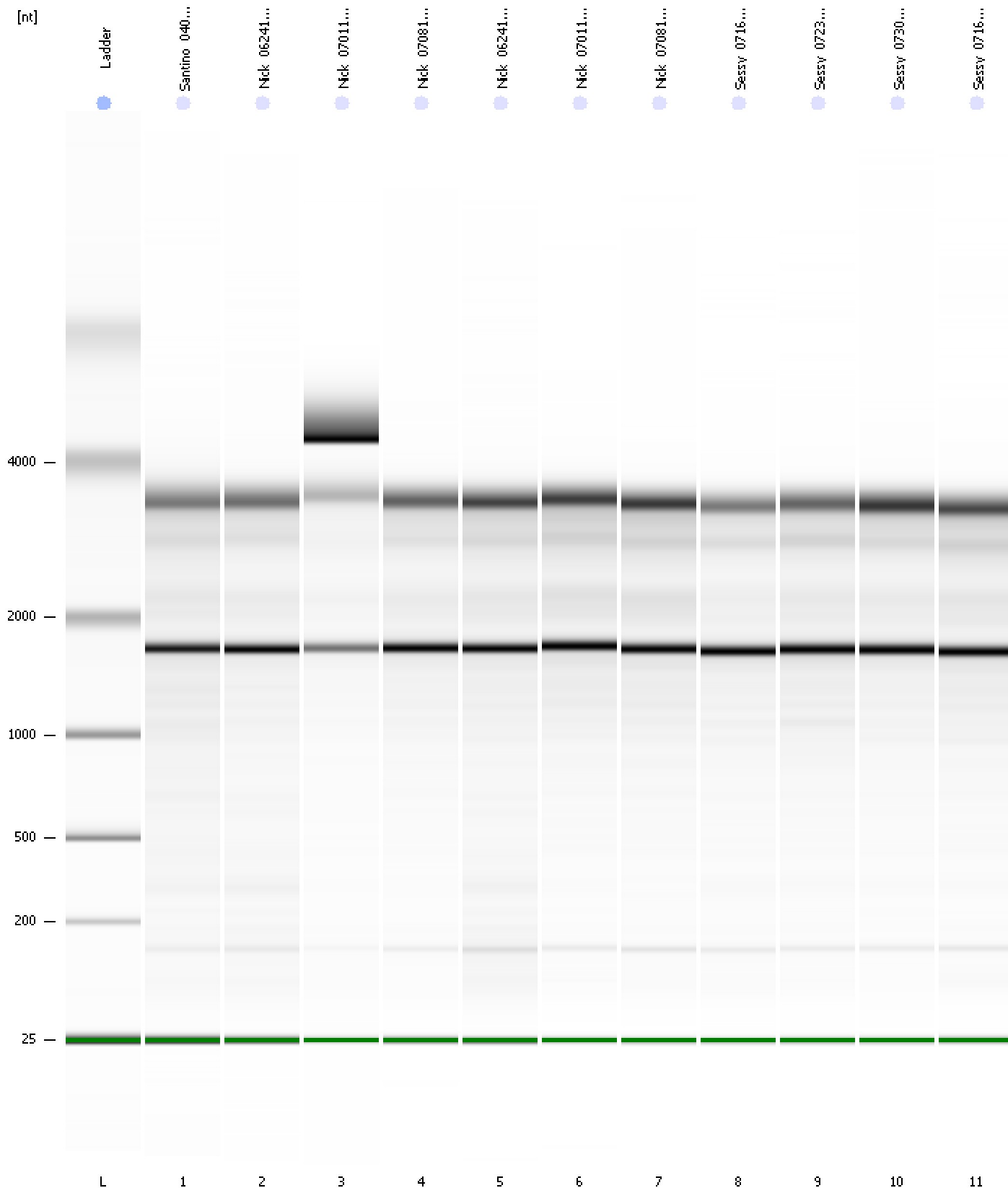
Fragment table for sample 11 : Sessy_071619_bright

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,490	1,865	81.2	19.7
28S	3,046	3,789	84.6	20.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
Modified: 11/5/2019 11:06:27 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad

Created: 11/5/2019 9:34:16 AM
 Modified: 11/5/2019 11:06:27 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		11/5/2019 9:57:09 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad)		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1