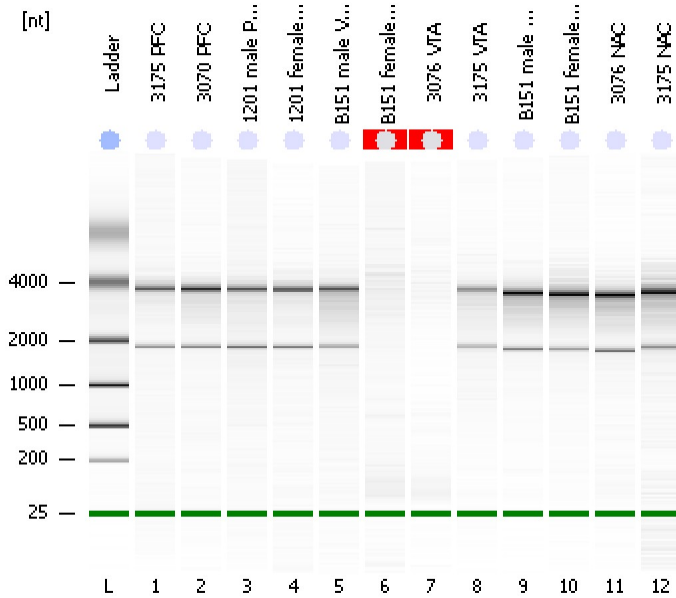


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

Electrophoresis File Run Summary



Instrument Information:

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

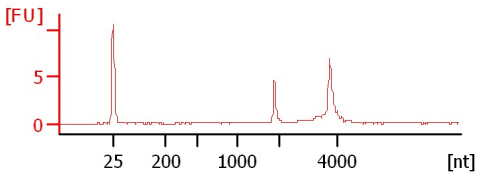
Assay Information:

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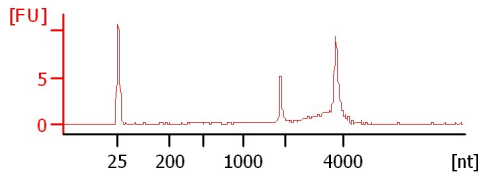
Chip Information:

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

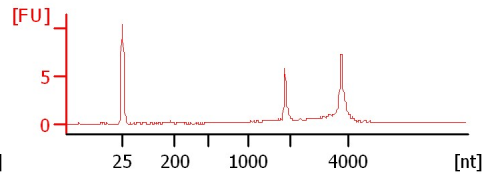
3175 PFC
MiSeq_234 Total RNA QC
RIN: 9.10



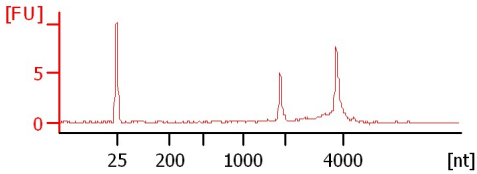
3070 PFC
MiSeq_234 Total RNA QC
RIN: 8.60



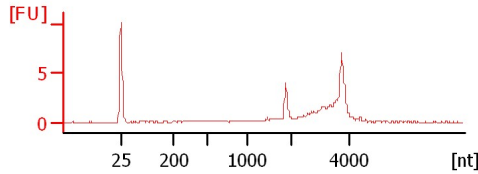
1201 male PFC
MiSeq_234 Total RNA QC
RIN: 8.60



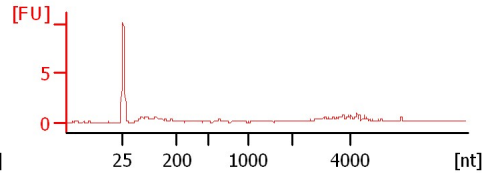
1201 female PFC
MiSeq_234 Total RNA QC
RIN: 9



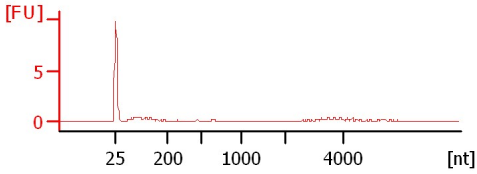
B151 male VTA
MiSeq_234 Total RNA QC
RIN: 8.10



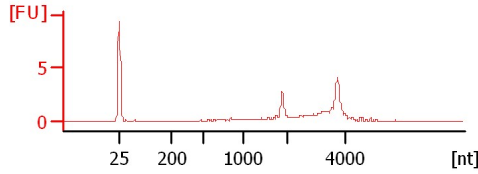
B151 female VTA
MiSeq_234 Total RNA QC
RIN N/A



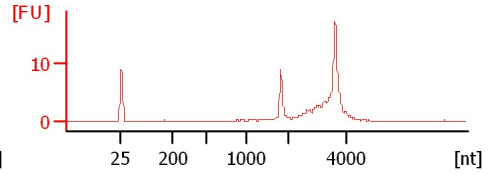
3076 VTA
MiSeq_234 Total RNA QC
RIN N/A



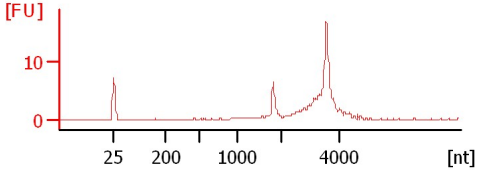
3175 VTA
MiSeq_234 Total RNA QC
RIN: 7.90



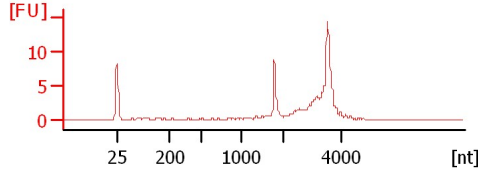
B151 male NAC
MiSeq_234 Total RNA QC
RIN: 9.50



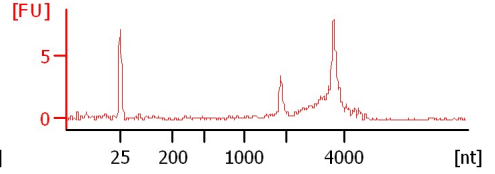
B151 female NAC
MiSeq_234 Total RNA QC
RIN: 9



3076 NAC
MiSeq_234 Total RNA QC
RIN: 8.50



3175 NAC
MiSeq_234 Total RNA QC
RIN: 9.10



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
 Modified: 11/23/2015 10:43:28 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
3175 PFC	MiSeq_234 Total RNA QC	✓	RIN: 9.10	
3070 PFC	MiSeq_234 Total RNA QC	✓	RIN: 8.60	
1201 male PFC	MiSeq_234 Total RNA QC	✓	RIN: 8.60	
1201 female PFC	MiSeq_234 Total RNA QC	✓	RIN:9	
B151 male VTA	MiSeq_234 Total RNA QC	✓	RIN: 8.10	
B151 female VTA	MiSeq_234 Total RNA QC	✓	RIN N/A	
3076 VTA	MiSeq_234 Total RNA QC	✓	RIN N/A	
3175 VTA	MiSeq_234 Total RNA QC	✓	RIN: 7.90	
B151 male NAC	MiSeq_234 Total RNA QC	✓	RIN: 9.50	
B151 female NAC	MiSeq_234 Total RNA QC	✓	RIN:9	
3076 NAC	MiSeq_234 Total RNA QC	✓	RIN: 8.50	
3175 NAC	MiSeq_234 Total RNA QC	✓	RIN: 9.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

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] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

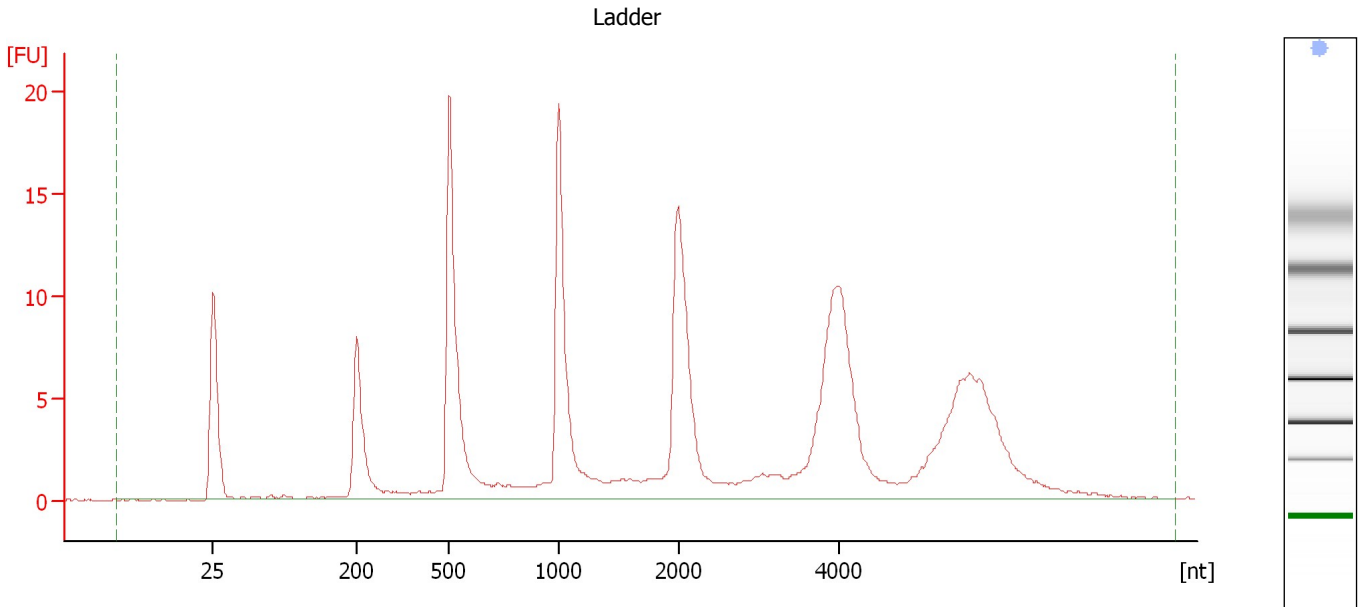
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

Electropherogram Summary



Overall Results for Ladder

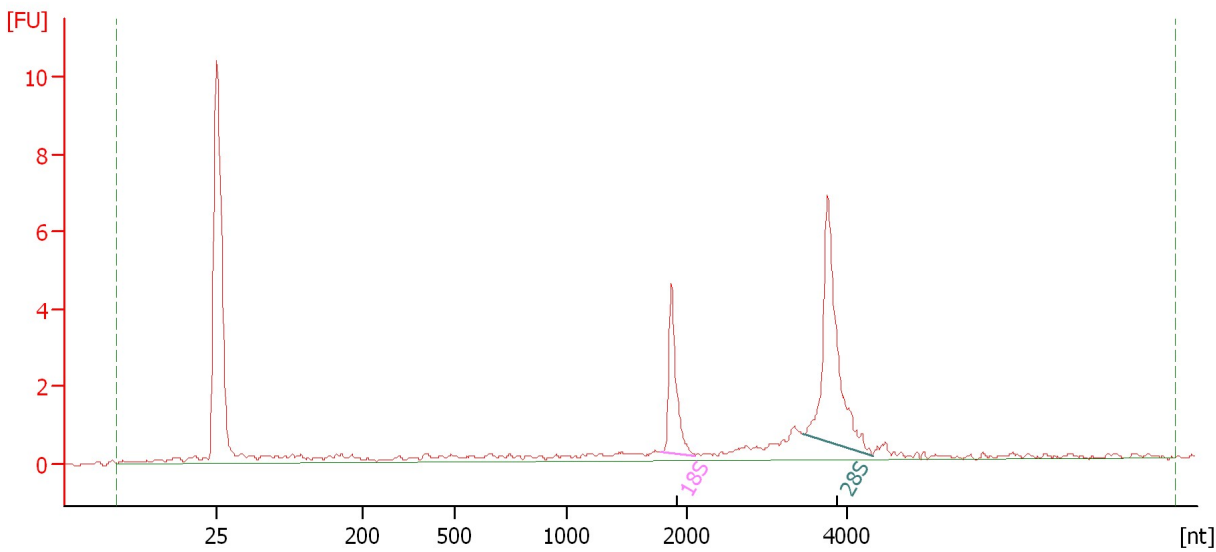
RNA Area:	189.9	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

Electropherogram Summary Continued ...

3175 PFC [MiSeq_234 Total RNA QC]



Overall Results for sample 1 : 3175 PFC

RNA Area:	30.4	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	24 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN: 9.10

Fragment table for sample 1 : 3175 PFC

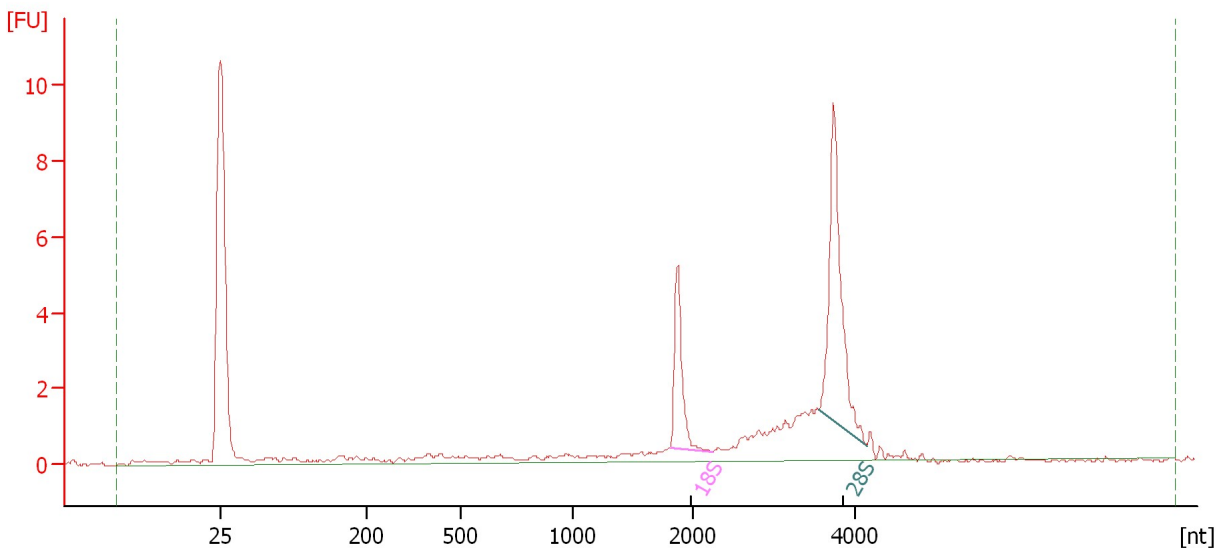
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,788	2,110	3.9	12.7
28S	3,446	4,305	9.2	30.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

Electropherogram Summary Continued ...

3070 PFC [MiSeq_234 Total RNA QC]



Overall Results for sample 2 : 3070 PFC

RNA Area: 37.6 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 30 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.4 Result Flagging Label: RIN: 8.60

Fragment table for sample 2 : 3070 PFC

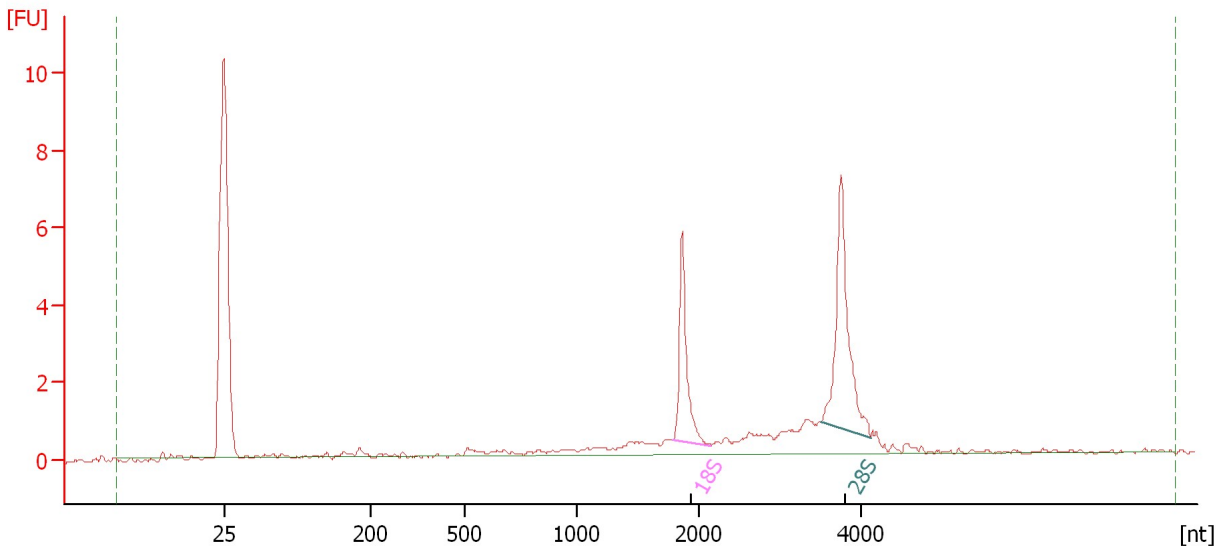
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,819	2,245	4.1	10.9
28S	3,559	4,150	9.7	25.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

Electropherogram Summary Continued ...

1201 male PFC [MiSeq_234 Total RNA QC]



Overall Results for sample 3 : 1201 male PFC

RNA Area: 30.3 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 24 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 8.60

Fragment table for sample 3 : 1201 male PFC

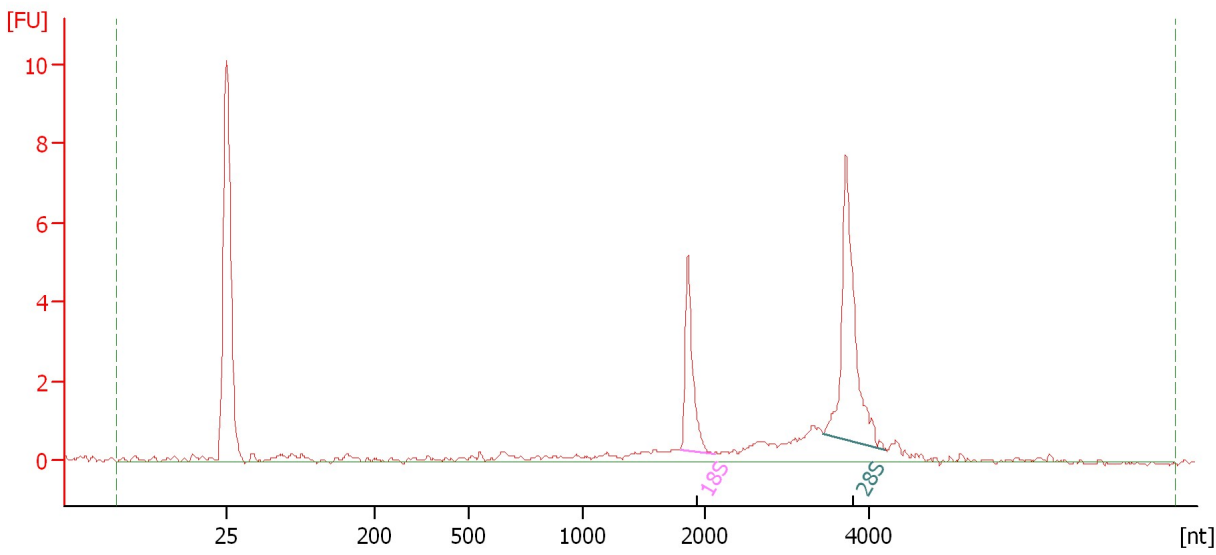
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,787	2,155	4.7	15.4
28S	3,501	4,102	7.9	26.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
 Modified: 11/23/2015 10:43:28 AM

Electropherogram Summary Continued ...

1201 female PFC [MiSeq_234 Total RNA QC]



Overall Results for sample 4 : 1201 female PFC

RNA Area:	31.1	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	25 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN:9

Fragment table for sample 4 : 1201 female PFC

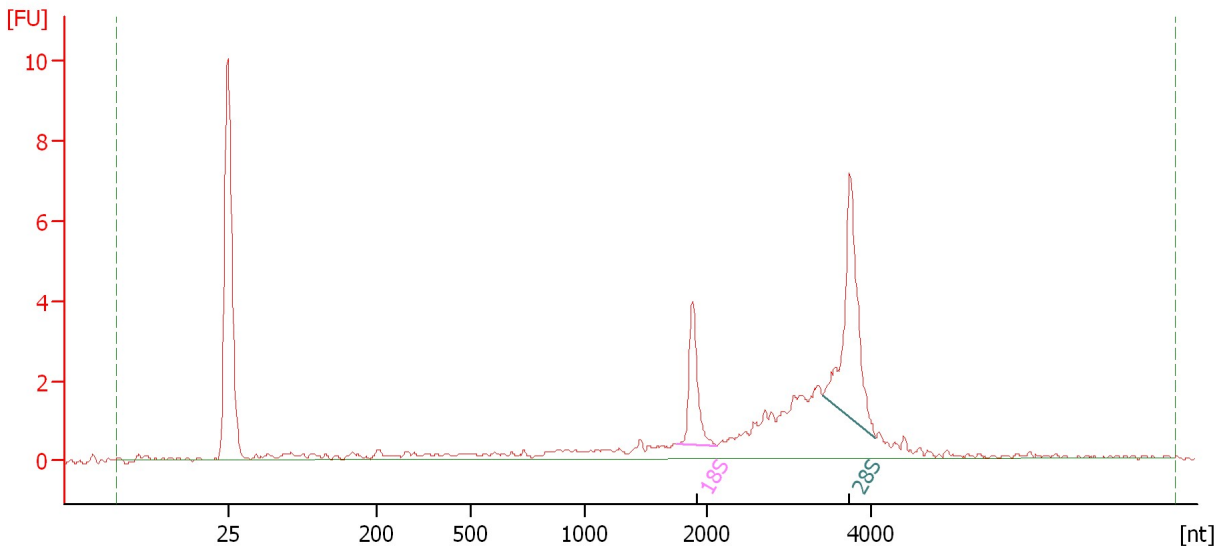
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,800	2,119	4.3	13.8
28S	3,443	4,183	9.3	29.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

Electropherogram Summary Continued ...

B151 male VTA [MiSeq_234 Total RNA QC]



Overall Results for sample 5 : B151 male VTA

RNA Area: 38.0 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 30 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.4 Result Flagging Label: RIN: 8.10

Fragment table for sample 5 : B151 male VTA

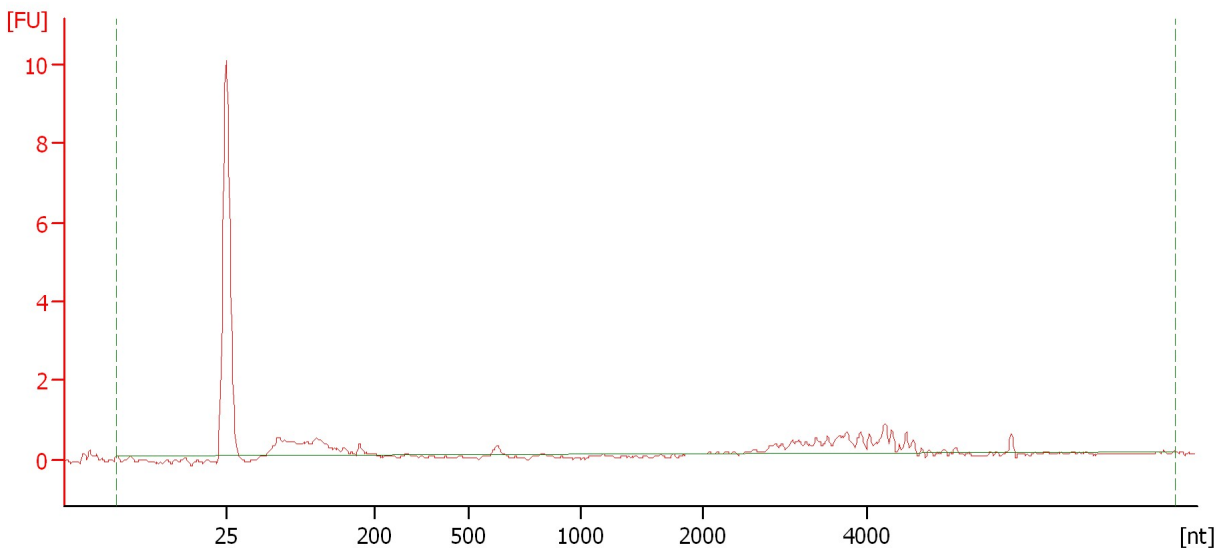
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,757	2,133	3.4	8.9
28S	3,403	4,051	8.1	21.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

Electropherogram Summary Continued ...

B151 female VTA [MiSeq_234 Total RNA QC]



Overall Results for sample 6 : B151 female VTA

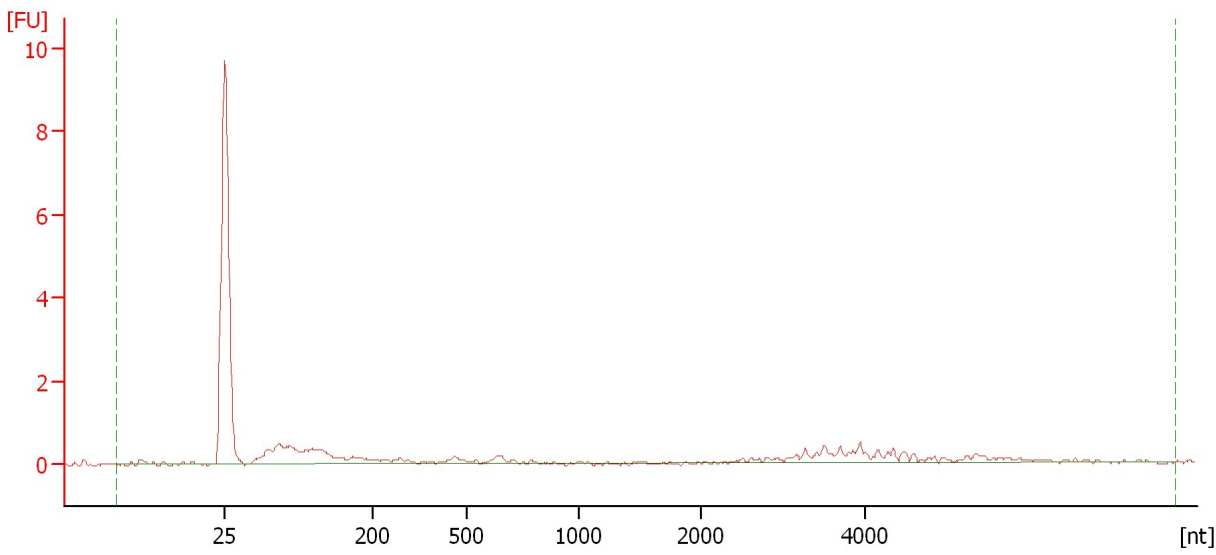
RNA Area:	8.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

Electropherogram Summary Continued ...

3076 VTA [MiSeq_234 Total RNA QC]



Overall Results for sample 7 : 3076 VTA

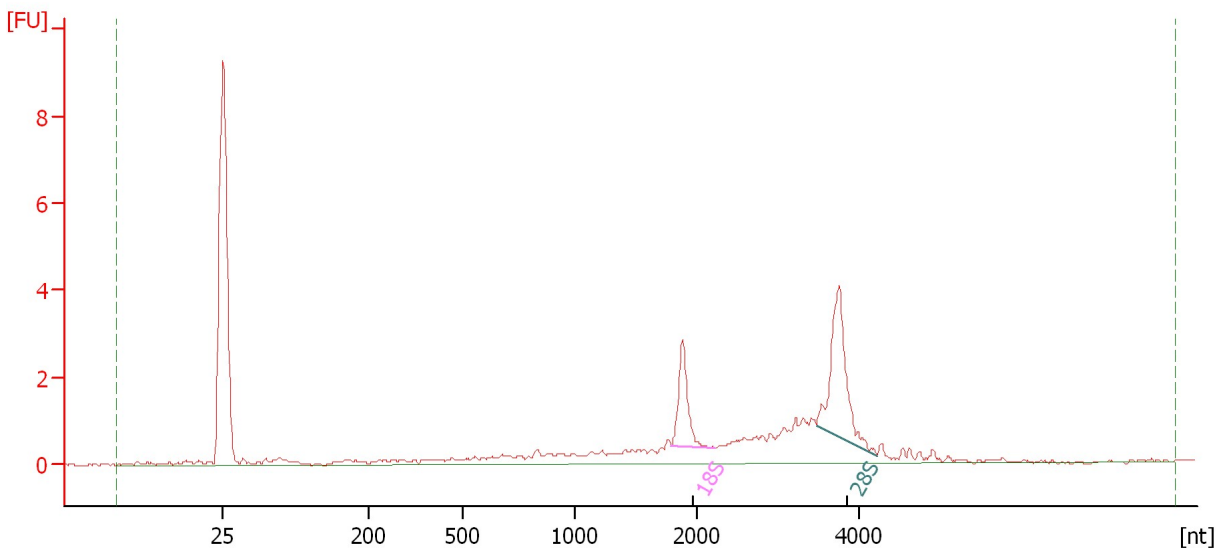
RNA Area:	11.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

Electropherogram Summary Continued ...

3175 VTA [MiSeq_234 Total RNA QC]



Overall Results for sample 8 : 3175 VTA

RNA Area:	28.4	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	22 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 7.90

Fragment table for sample 8 : 3175 VTA

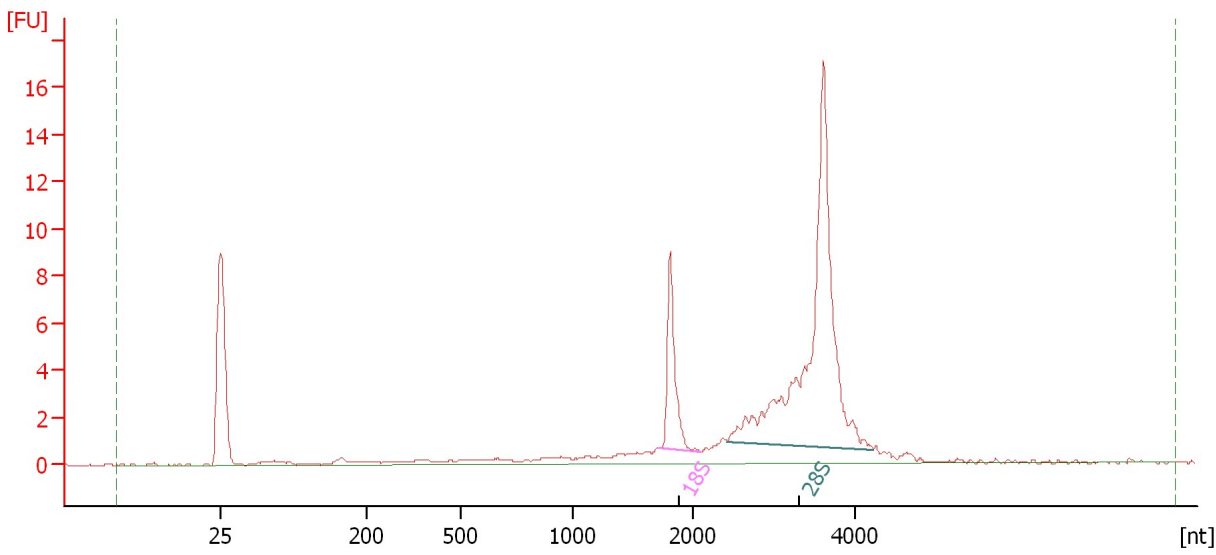
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,795	2,220	2.7	9.4
28S	3,476	4,222	5.3	18.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

Electropherogram Summary Continued ...

B151 male NAC [MiSeq_234 Total RNA QC]



Overall Results for sample 9 : B151 male NAC

RNA Area: 70.4 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 56 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 4.8 Result Flagging Label: RIN: 9.50

Fragment table for sample 9 : B151 male NAC

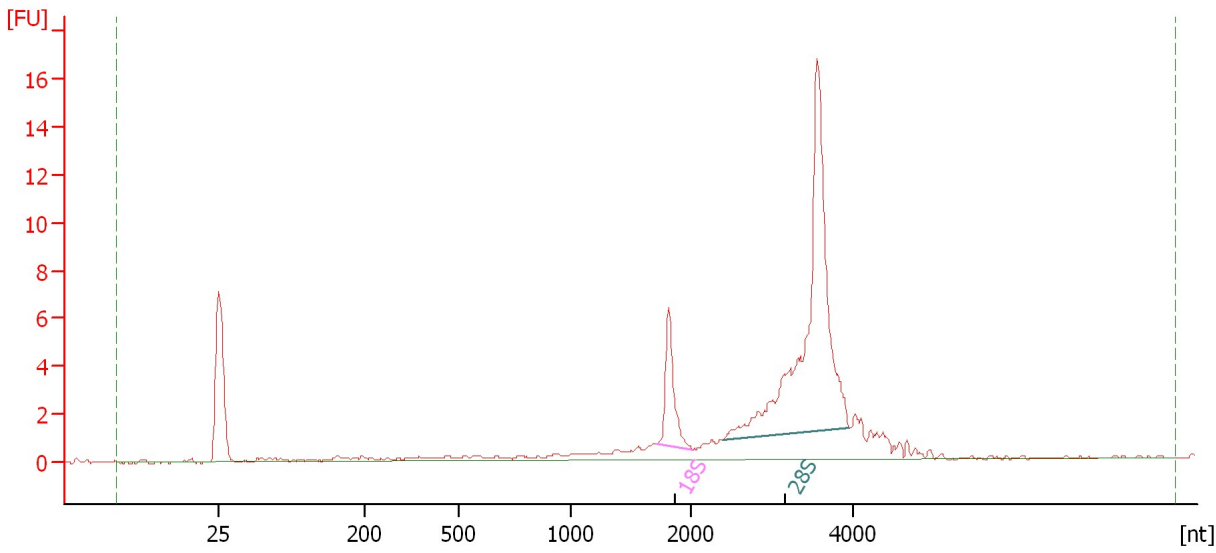
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,730	2,100	7.6	10.8
28S	2,429	4,229	36.5	51.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

Electropherogram Summary Continued ...

B151 female NAC [MiSeq_234 Total RNA QC]



Overall Results for sample 10 : B151 female NAC

RNA Area: 68.0 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 54 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 5.6 Result Flagging Label: RIN:9

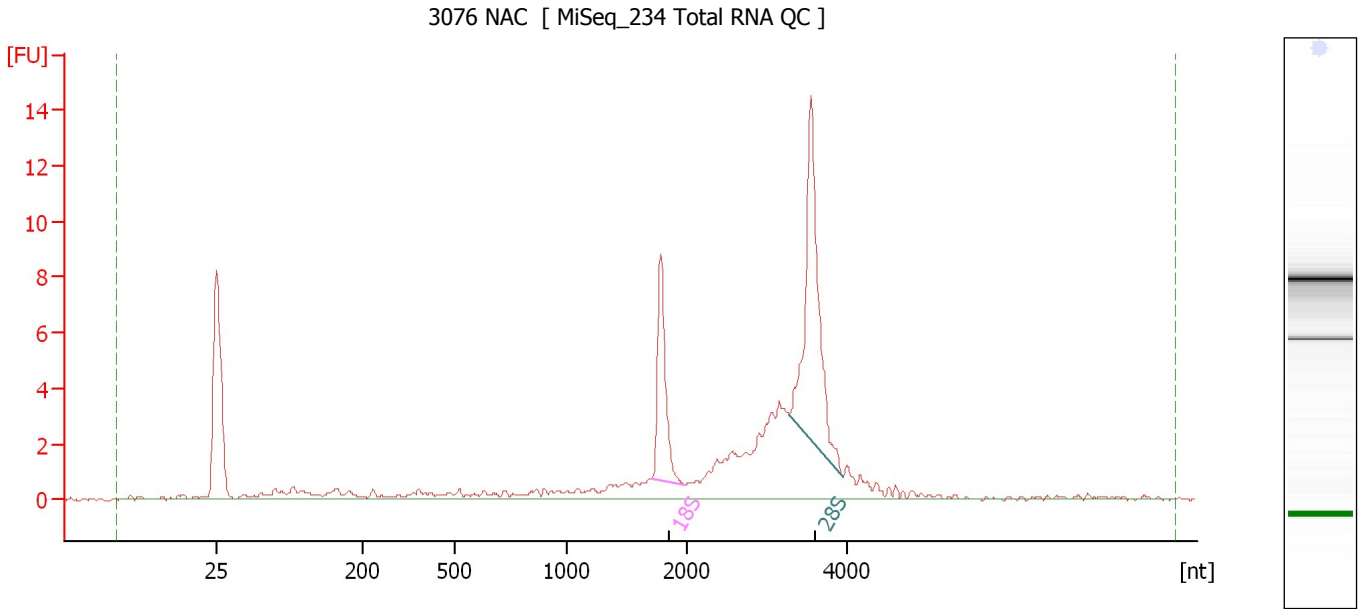
Fragment table for sample 10 : B151 female NAC

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,720	2,033	5.8	8.6
28S	2,415	3,956	32.8	48.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 3076 NAC

RNA Area:	69.4	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	55 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN: 8.50

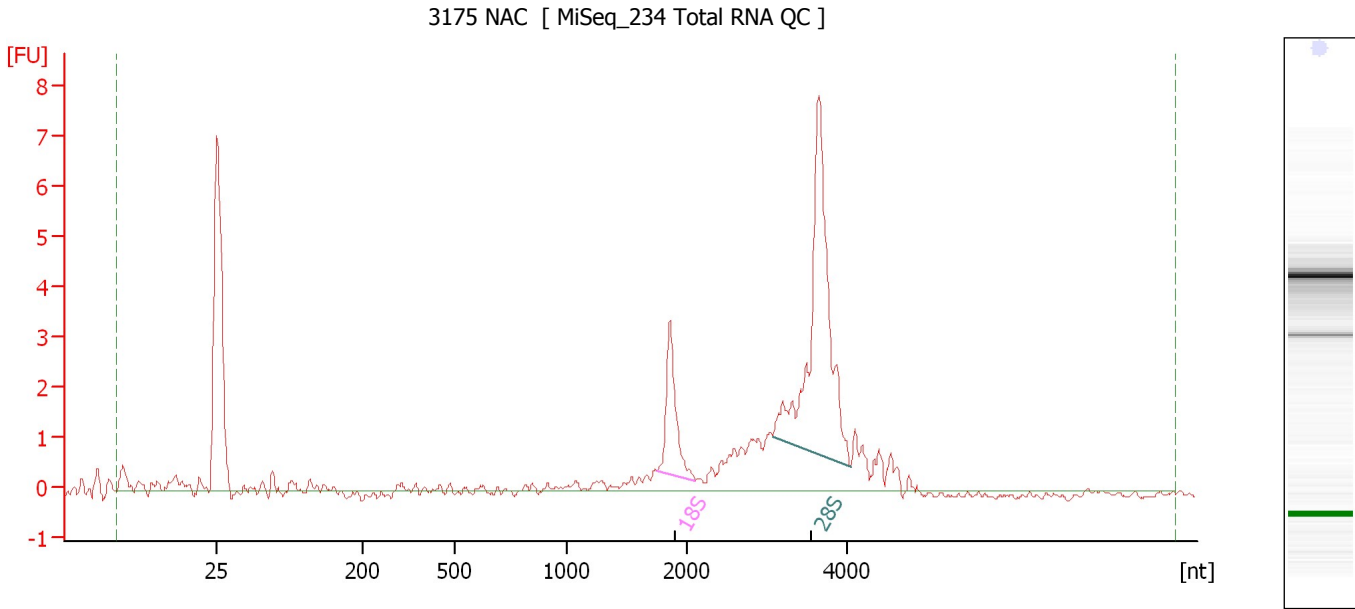
Fragment table for sample 11 : 3076 NAC

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,717	1,994	7.3	10.4
28S	3,274	3,935	16.8	24.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
 Modified: 11/23/2015 10:43:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 3175 NAC

RNA Area:	38.9	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	31 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.8	Result Flagging Label:	RIN: 9.10

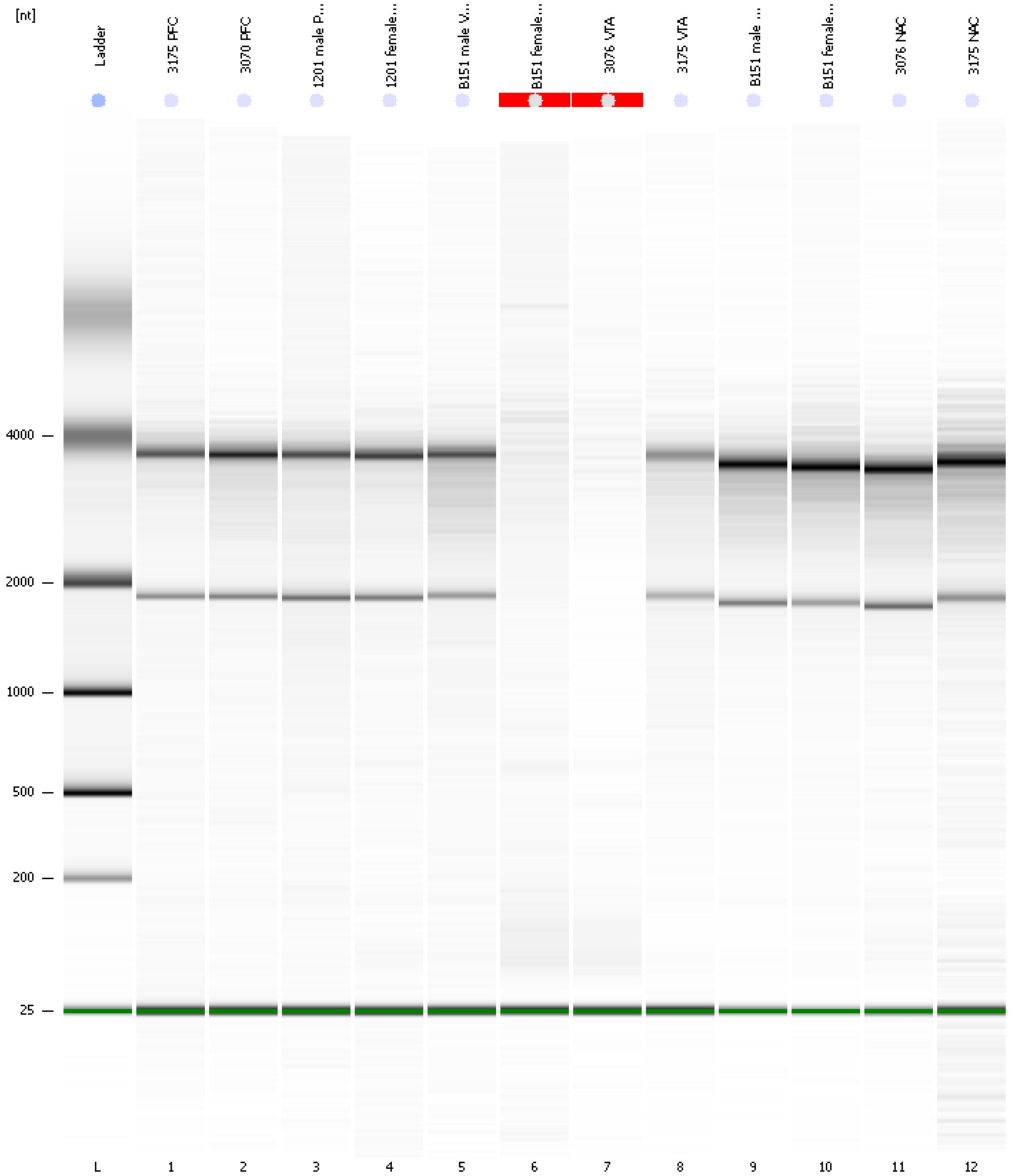
Fragment table for sample 12 : 3175 NAC

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,753	2,110	3.5	9.0
28S	3,062	4,041	13.2	34.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
Modified: 11/23/2015 10:43:28 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad

Created: 11/23/2015 10:19:40 AM
 Modified: 11/23/2015 10:43:28 AM

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		11/23/2015 10:43:27 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-23\2015-11-23_001.xad)		Instrument	Run		11/23/2015 10:19:45 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/23/2015 10:19:45 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/23/2015 10:19:45 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/23/2015 10:19:45 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/23/2015 10:19:45 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/23/2015 10:19:45 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/23/2015 10:19:45 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1