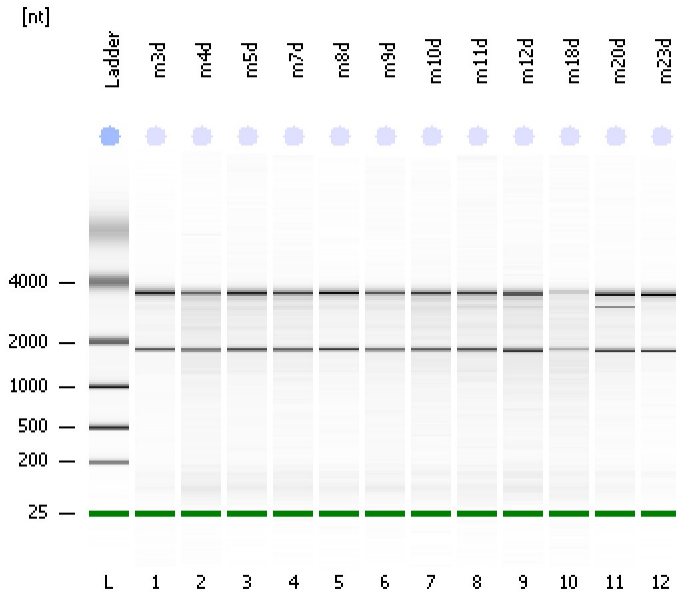


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Electrophoresis File Run Summary



Instrument Information:

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

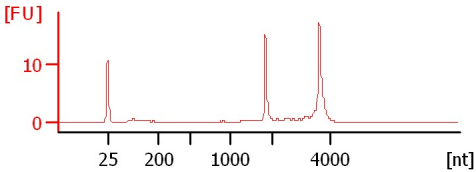
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\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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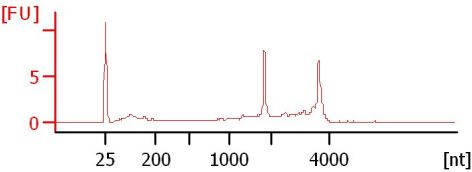
Chip Information:

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

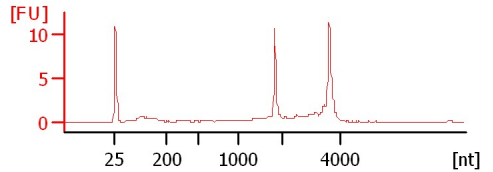
m3d
QC_017: Total RNA
RIN: 9.40



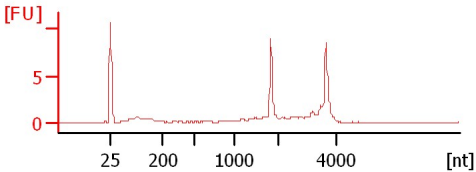
m4d
QC_017: Total RNA
RIN: 7.80



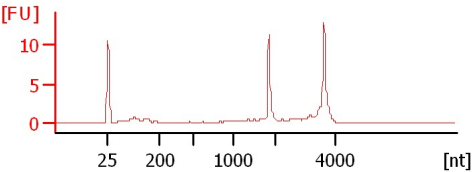
m5d
QC_017: Total RNA
RIN: 8.50



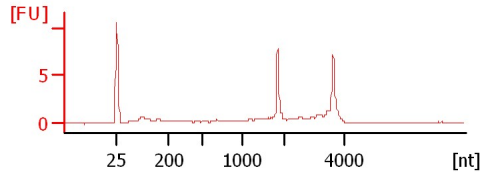
m7d
QC_017: Total RNA
RIN: 8.30



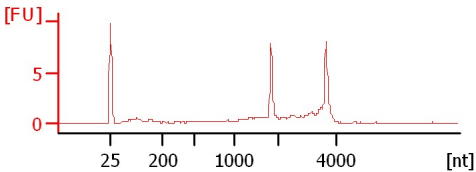
m8d
QC_017: Total RNA
RIN: 8.80



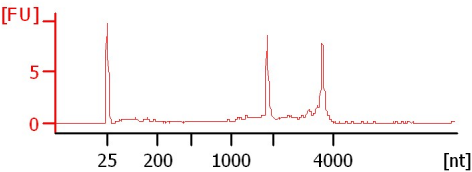
m9d
QC_017: Total RNA
RIN: 8.10



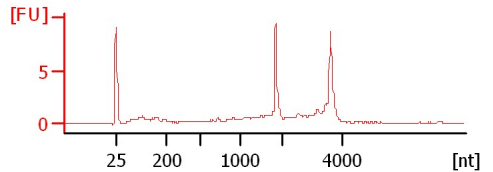
m10d
QC_017: Total RNA
RIN: 7.90



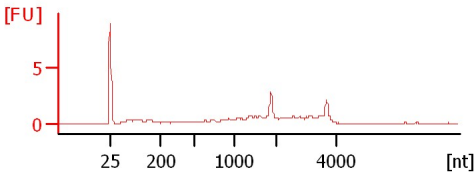
m11d
QC_017: Total RNA
RIN: 8.10



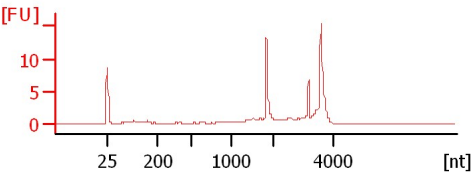
m12d
QC_017: Total RNA
RIN: 7.90



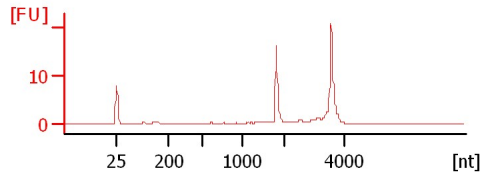
m18d
QC_017: Total RNA
RIN: 6.50



m20d
QC_017: Total RNA
RIN: 8.30



m23d
QC_017: Total RNA
RIN: 9.30



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
 Modified: 5/26/2015 3:18:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
m3d	QC_017: Total RNA	✓	RIN: 9.40	
m4d	QC_017: Total RNA	✓	RIN: 7.80	
m5d	QC_017: Total RNA	✓	RIN: 8.50	
m7d	QC_017: Total RNA	✓	RIN: 8.30	
m8d	QC_017: Total RNA	✓	RIN: 8.80	
m9d	QC_017: Total RNA	✓	RIN: 8.10	
m10d	QC_017: Total RNA	✓	RIN: 7.90	
m11d	QC_017: Total RNA	✓	RIN: 8.10	
m12d	QC_017: Total RNA	✓	RIN: 7.90	
m18d	QC_017: Total RNA	✓	RIN: 6.50	
m20d	QC_017: Total RNA	✓	RIN: 8.30	
m23d	QC_017: Total RNA	✓	RIN: 9.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 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] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

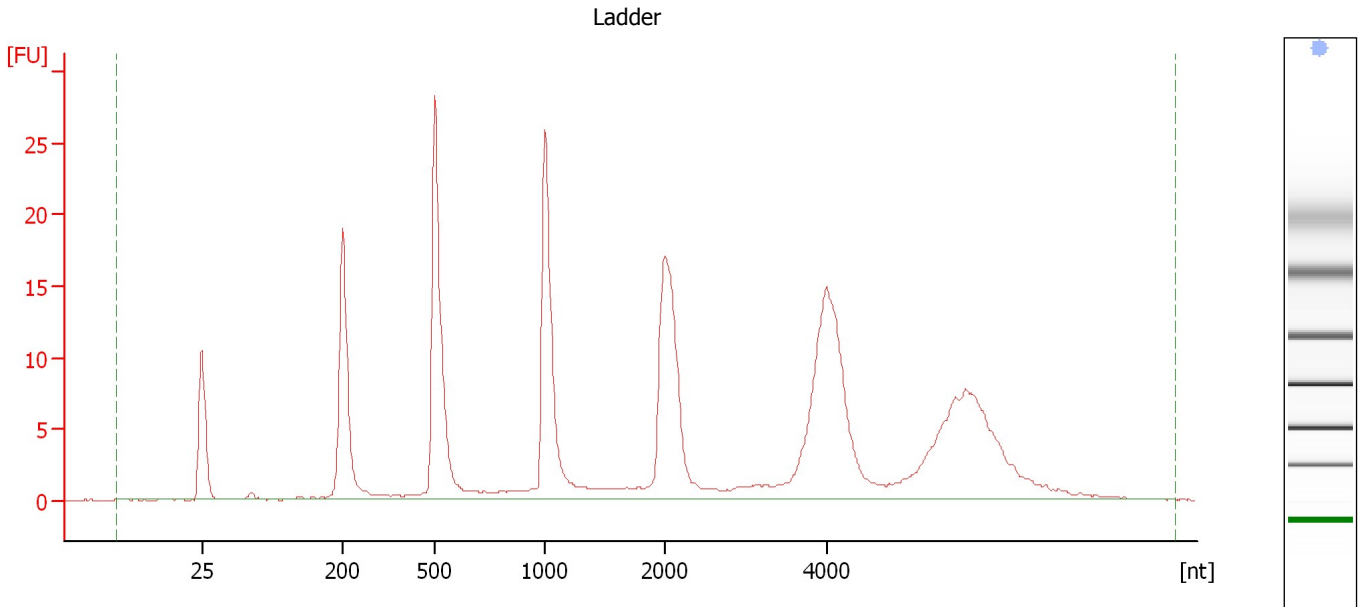
Ladder

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\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Electropherogram Summary



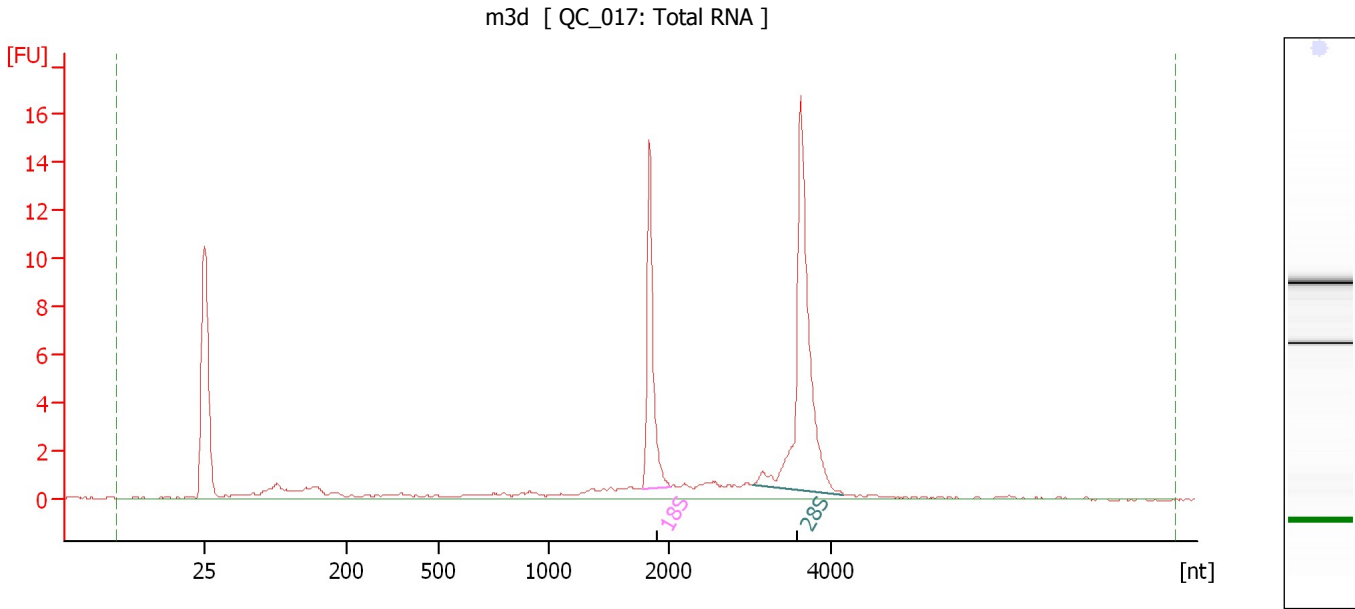
Overall Results for Ladder

RNA Area:	258.1	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\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : m3d

RNA Area: 56.5 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 33 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.40

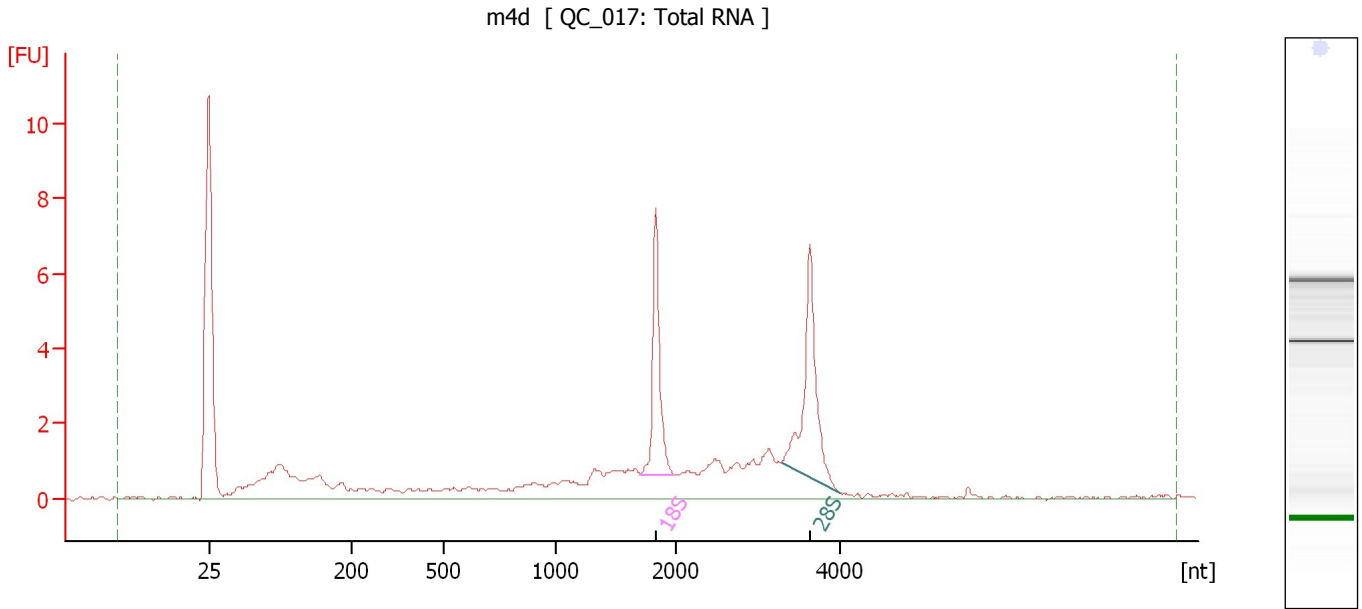
Fragment table for sample 1 : m3d

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,786	2,028	10.7	19.0
28S	3,037	4,150	20.6	36.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : m4d

RNA Area: 51.3 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 30 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 7.80

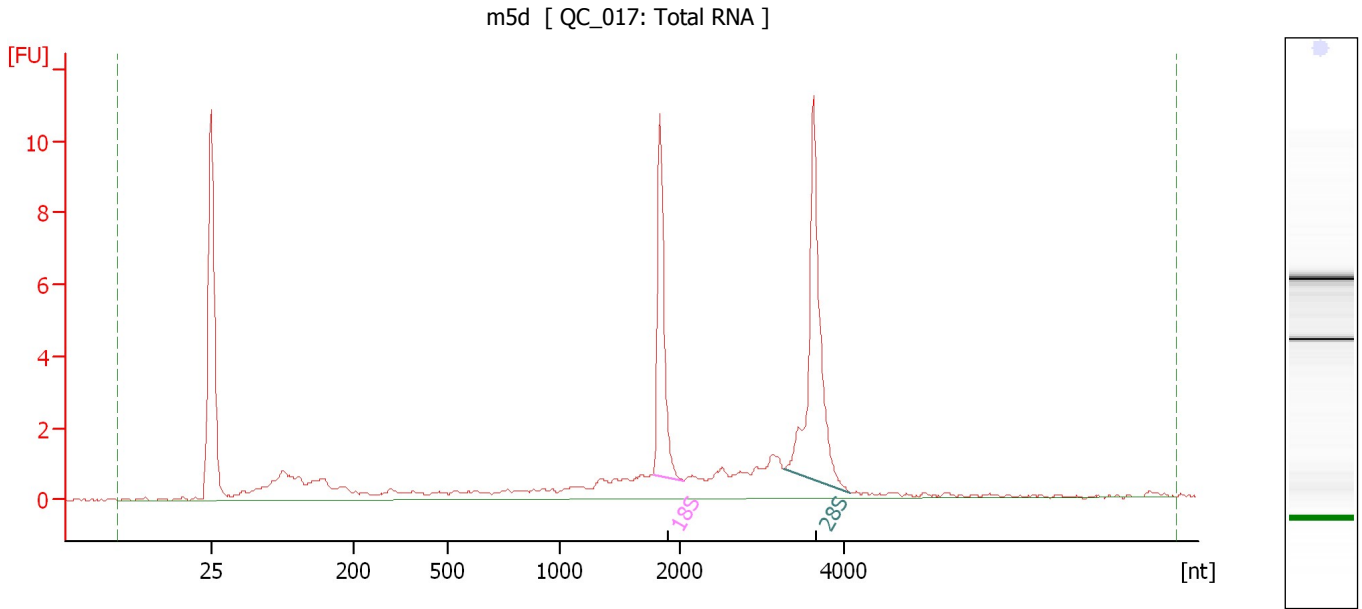
Fragment table for sample 2 : m4d

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,709	1,994	6.0	11.6
28S	3,294	3,997	7.8	15.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : m5d

RNA Area: 51.7 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 30 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 8.50

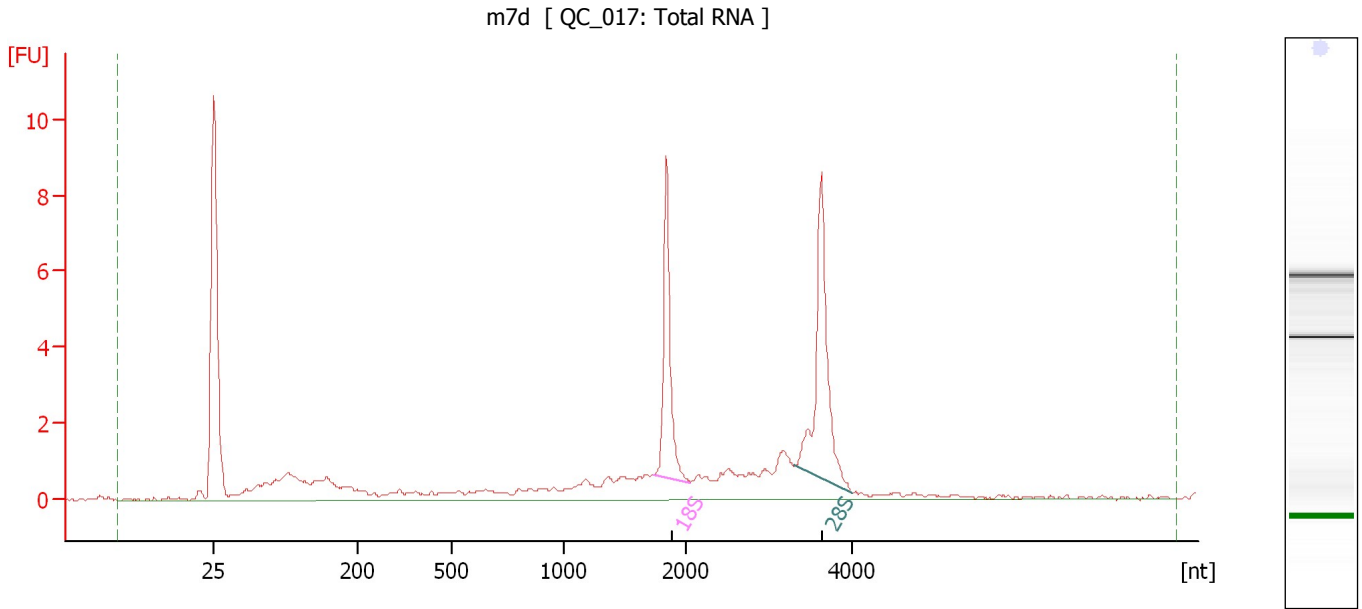
Fragment table for sample 3 : m5d

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,783	2,059	7.6	14.7
28S	3,264	4,068	12.3	23.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : m7d

RNA Area: 49.2 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 29 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.30

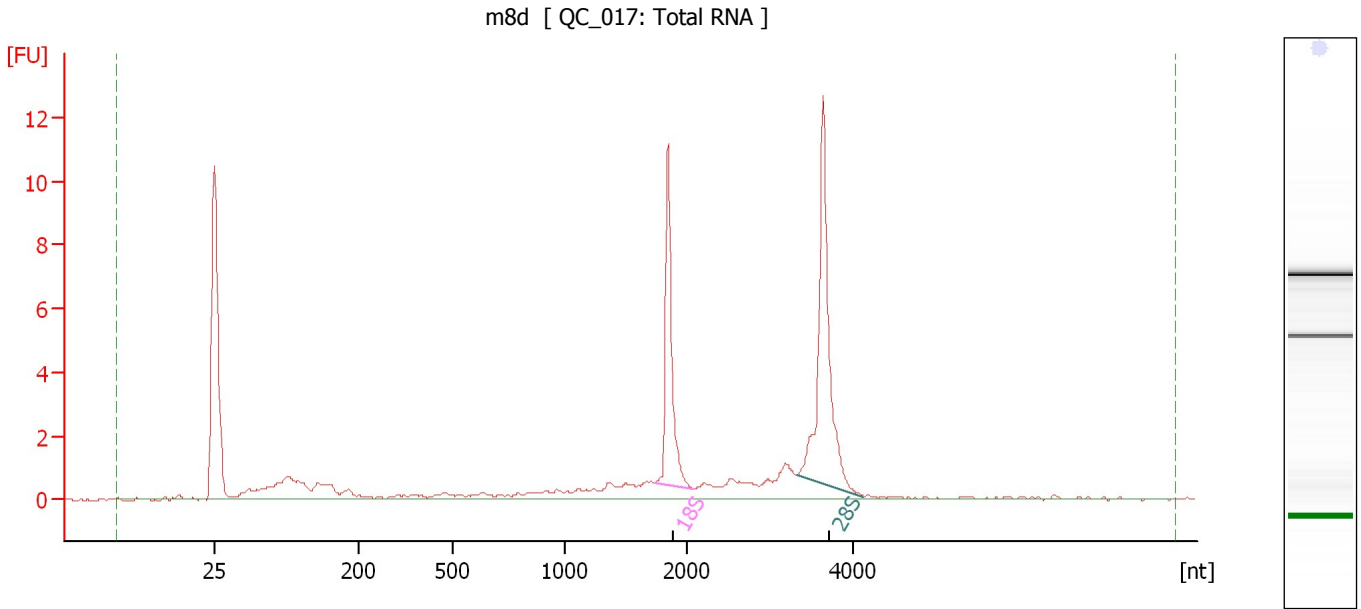
Fragment table for sample 4 : m7d

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,742	2,061	6.6	13.5
28S	3,311	4,007	8.9	18.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : m8d

RNA Area: 47.2 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 27 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.80

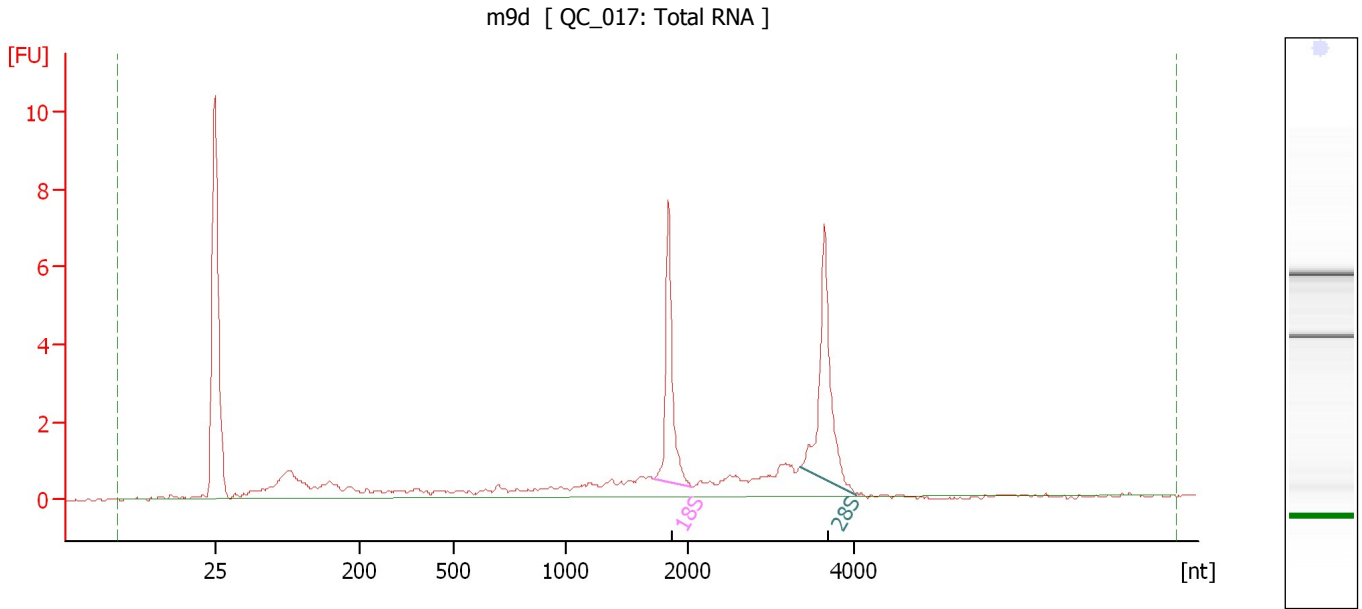
Fragment table for sample 5 : m8d

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,743	2,075	8.3	17.5
28S	3,322	4,132	12.7	26.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : m9d

RNA Area: 38.3 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 22 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 8.10

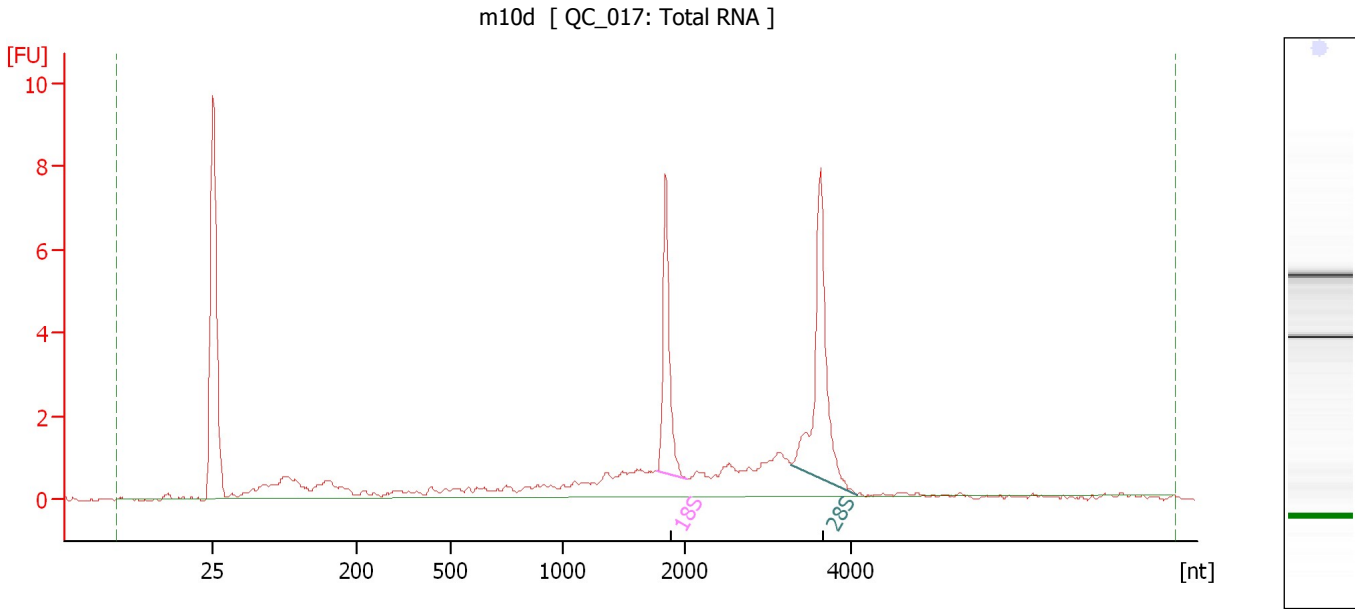
Fragment table for sample 6 : m9d

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,717	2,062	5.9	15.5
28S	3,361	4,017	7.1	18.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : m10d

RNA Area:	42.1	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	24 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 7.90

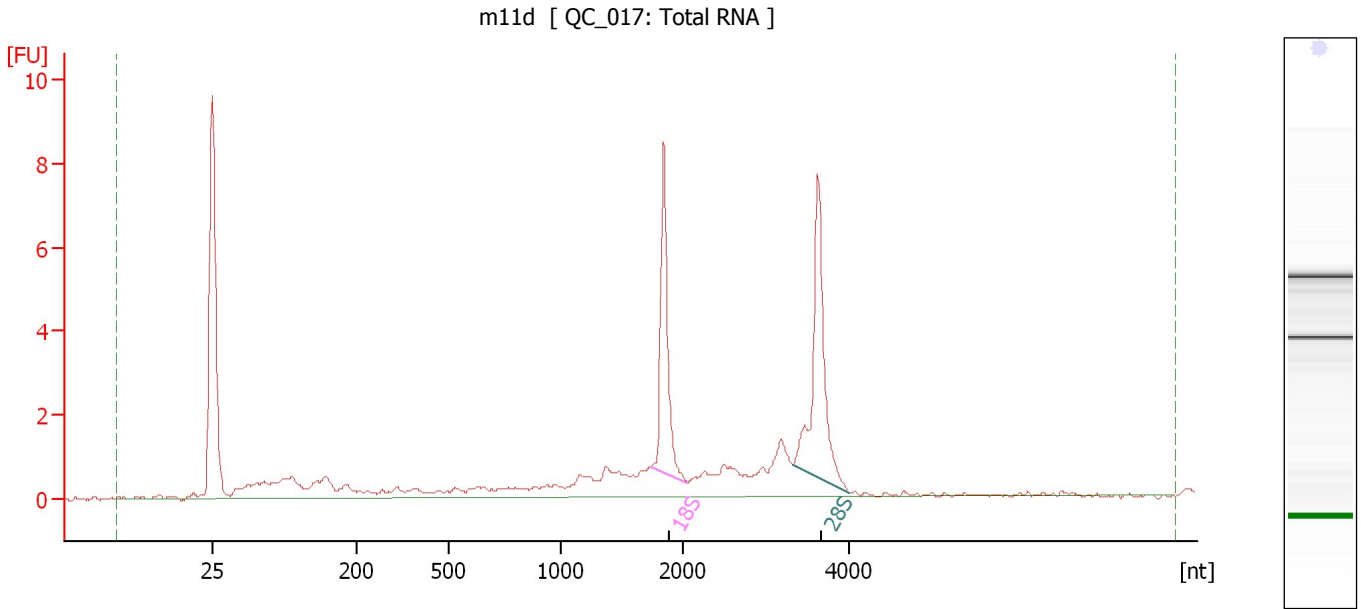
Fragment table for sample 7 : m10d

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,768	2,036	5.6	13.3
28S	3,285	4,071	8.3	19.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : m11d

RNA Area:	41.5	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	24 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.10

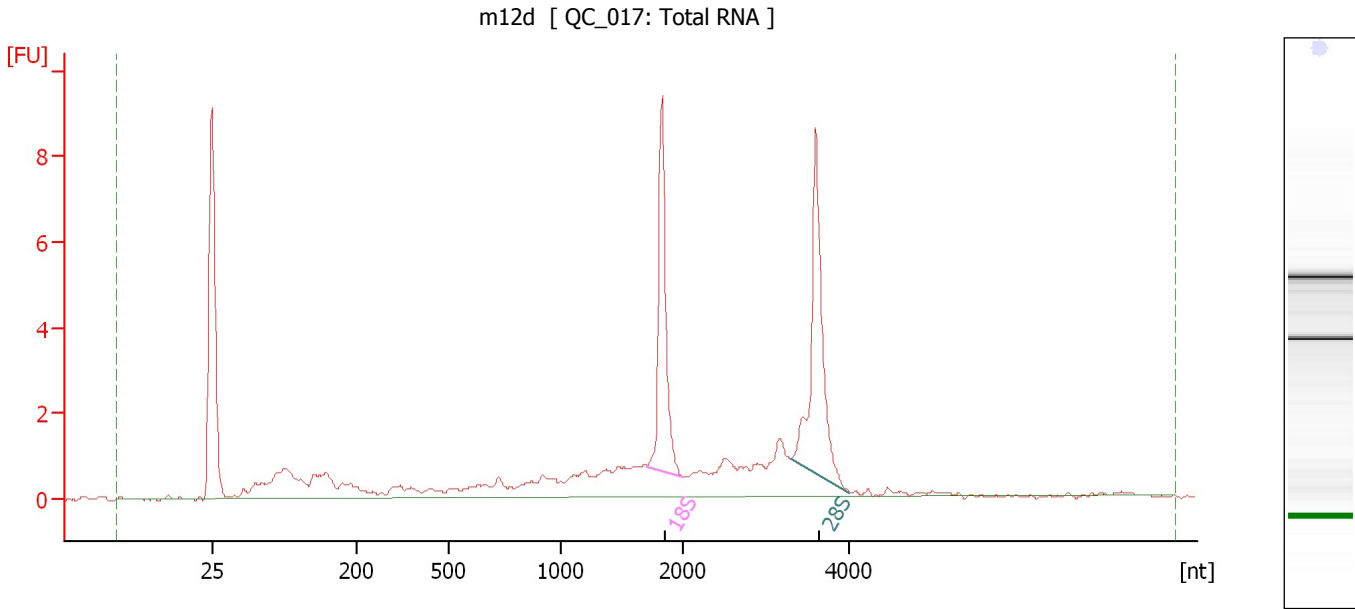
Fragment table for sample 8 : m11d

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,732	2,061	6.3	15.2
28S	3,339	4,023	8.0	19.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
 Modified: 5/26/2015 3:18:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : m12d

RNA Area:	50.4	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	29 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.90

Fragment table for sample 9 : m12d

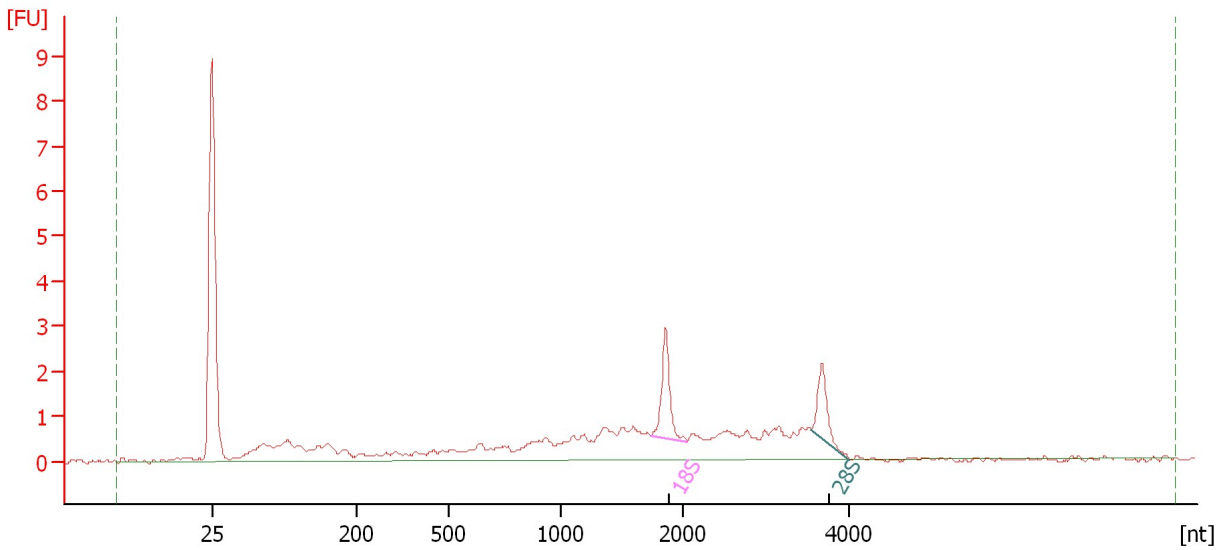
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	2,009	7.2	14.3
28S	3,313	4,023	8.8	17.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Electropherogram Summary Continued ...

m18d [QC_017: Total RNA]



Overall Results for sample 10 : m18d

RNA Area:	32.4	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	19 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 6.50

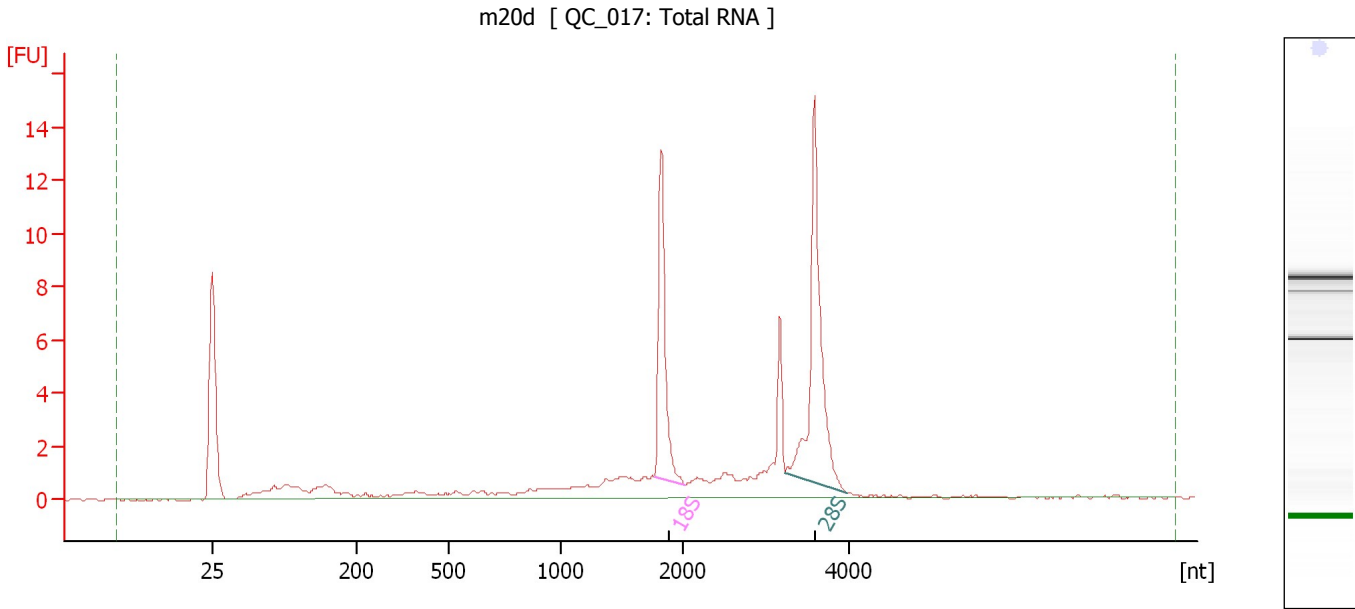
Fragment table for sample 10 : m18d

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,732	2,061	2.3	7.2
28S	3,558	4,023	1.6	4.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : m20d

RNA Area: 60.1 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 35 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 8.30

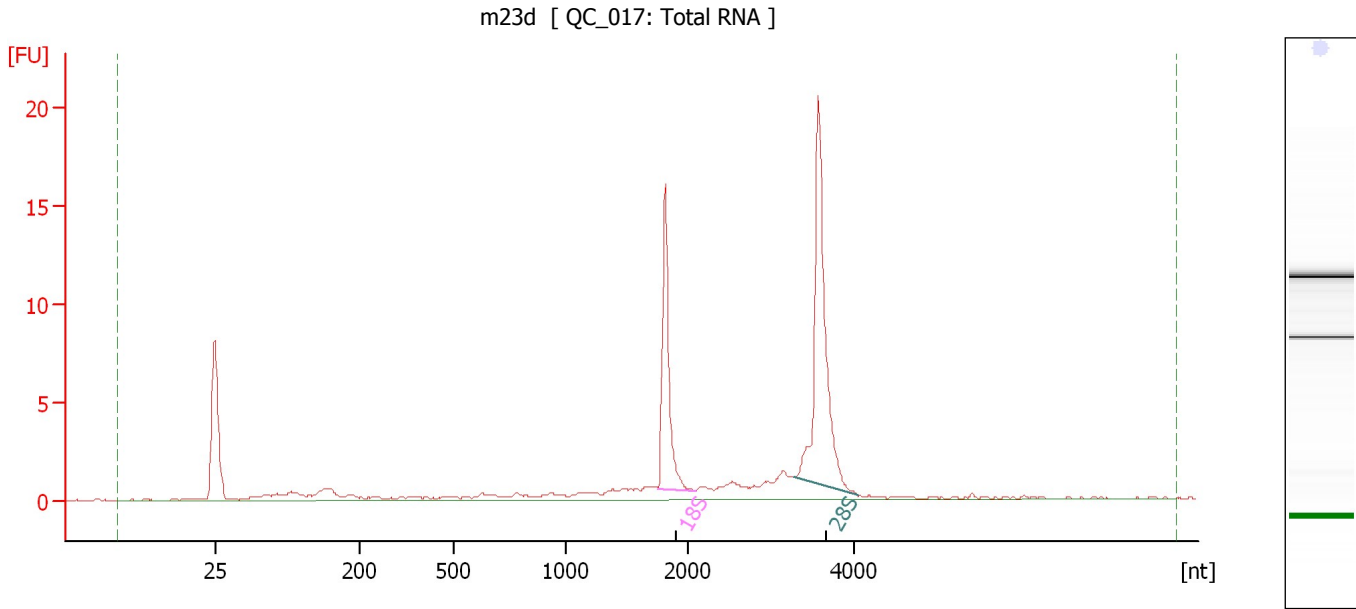
Fragment table for sample 11 : m20d

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,767	2,035	9.4	15.6
28S	3,235	3,997	15.2	25.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : m23d

RNA Area:	62.1	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	36 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.30

Fragment table for sample 12 : m23d

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,761	2,088	11.8	18.9
28S	3,284	4,042	20.8	33.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-26\2015-05-26_002.xad

Created: 5/26/2015 2:55:05 PM
Modified: 5/26/2015 3:18:54 PM

Gel Image

