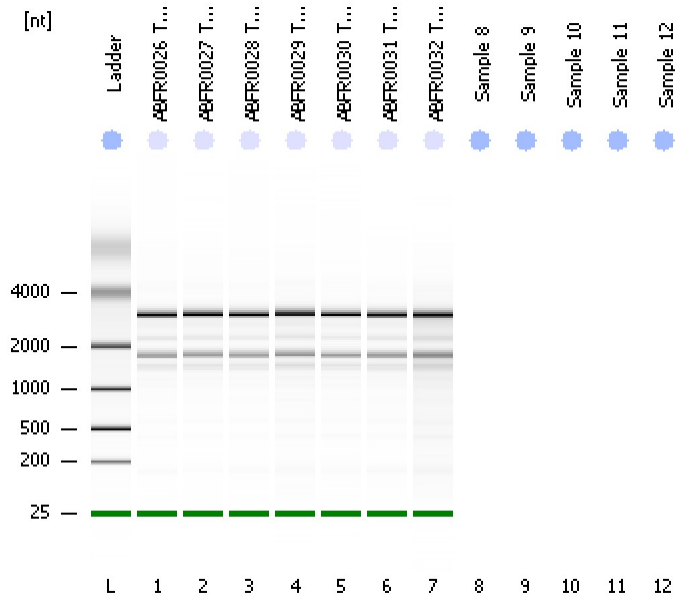


Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-16\2013-10-16_002.xad

Created: 10/16/2013 12:13:20 PM
 Modified: 10/16/2013 12:30:22 PM

Electrophoresis File Run Summary



Instrument Information:

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

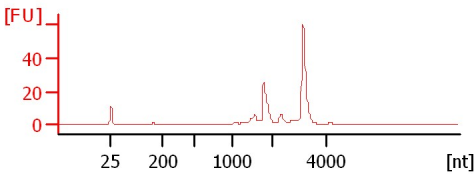
Assay Information:

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)
 © Copyright 2003 - 2009 Agilent Technologies, Inc.

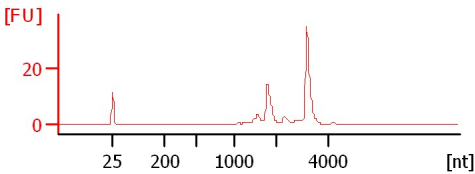
Chip Information:

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

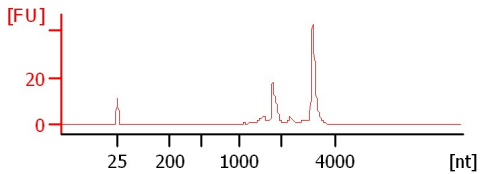
ABFR0026 Total RNA
 RIN: 8.70



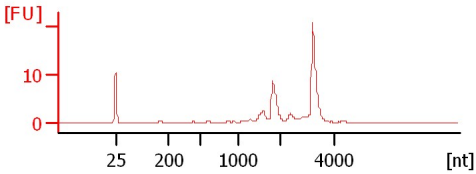
ABFR0027 Total RNA
 RIN: 8.60



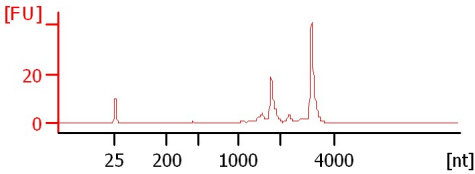
ABFR0028 Total RNA
 RIN: 8.70



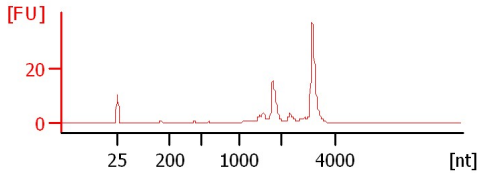
ABFR0029 Total RNA
 RIN: 8.50



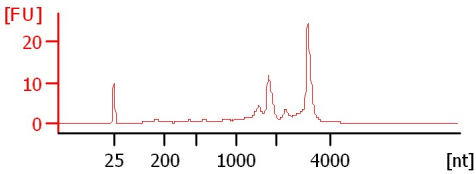
ABFR0030 Total RNA
 RIN: 8.60



ABFR0031 Total RNA
 RIN: 8.50



ABFR0032 Total RNA
 RIN: 8.20



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-16\2013-10-16_002.xad

Created: 10/16/2013 12:13:20 PM
Modified: 10/16/2013 12:30:22 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|--------------------|----------------|--------|-------------------|--------------|
| ABFR0026 Total RNA | | ✓ | RIN: 8.70 | |
| ABFR0027 Total RNA | | ✓ | RIN: 8.60 | |
| ABFR0028 Total RNA | | ✓ | RIN: 8.70 | |
| ABFR0029 Total RNA | | ✓ | RIN: 8.50 | |
| ABFR0030 Total RNA | | ✓ | RIN: 8.60 | |
| ABFR0031 Total RNA | | ✓ | RIN: 8.50 | |
| ABFR0032 Total RNA | | ✓ | RIN: 8.20 | |
| Sample 8 | | | | |
| Sample 9 | | | | |
| Sample 10 | | | | |
| Sample 11 | | | | |
| Sample 12 | | | | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-16\2013-10-16_002.xad

Created: 10/16/2013 12:13:20 PM
Modified: 10/16/2013 12:30:22 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

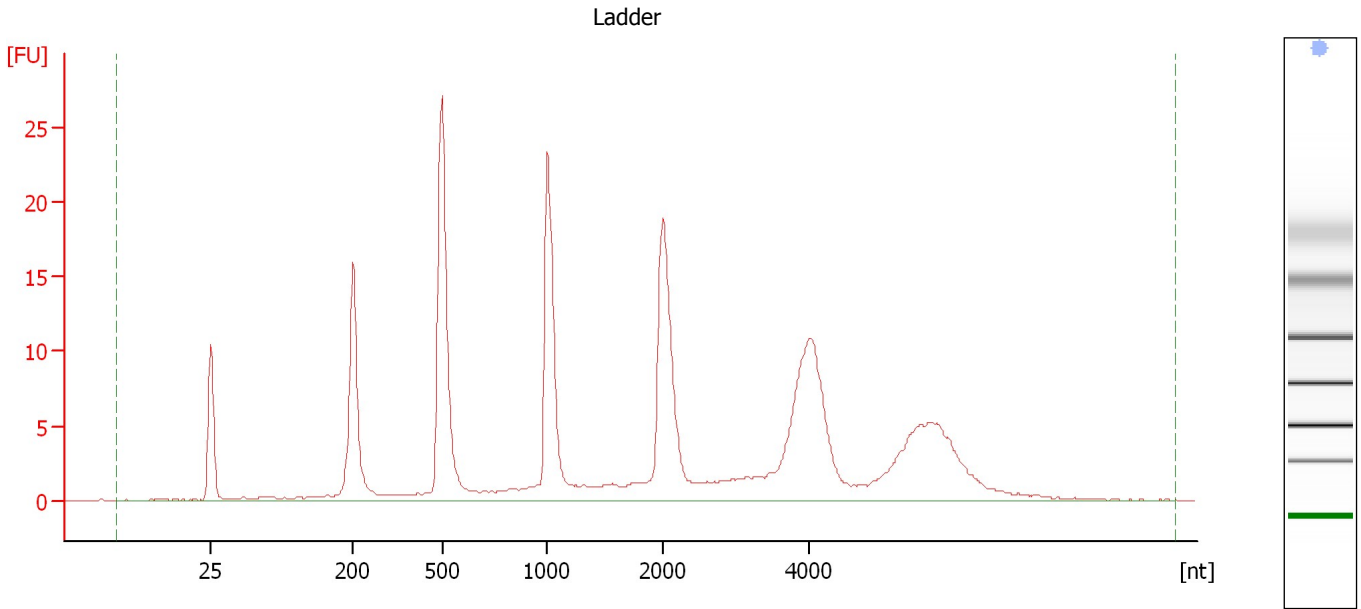
Ladder

| 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\2013-10-16\2013-10-16_002.xad

Created: 10/16/2013 12:13:20 PM
Modified: 10/16/2013 12:30:22 PM

Electropherogram Summary



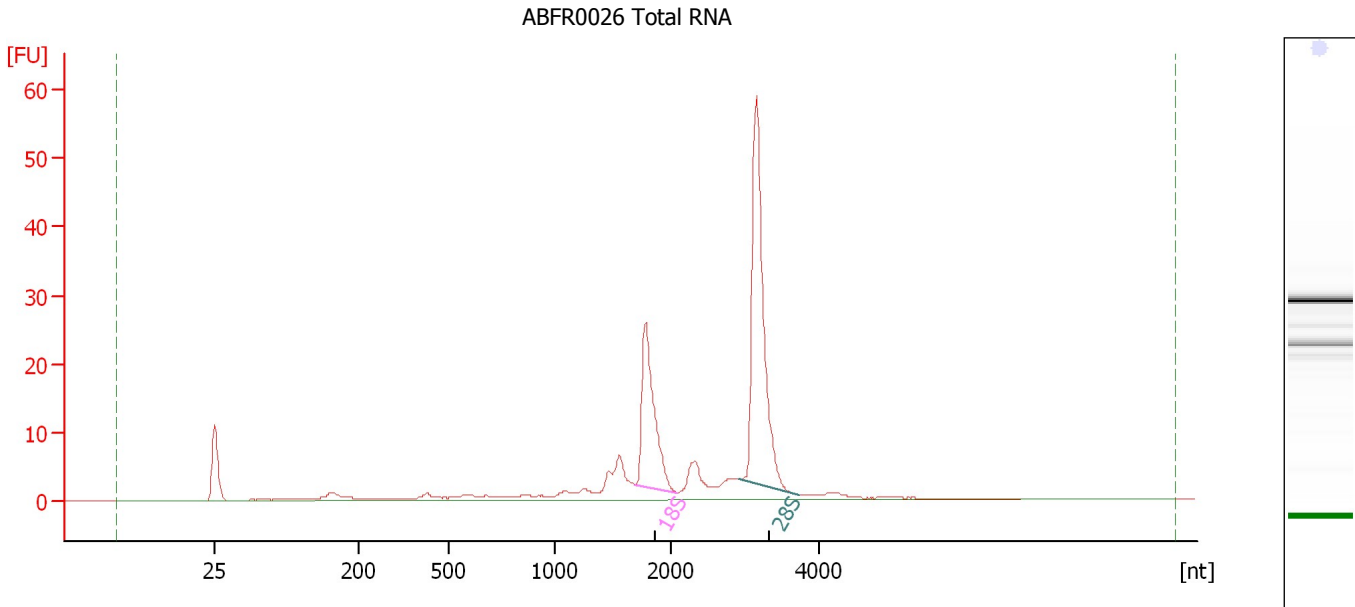
Overall Results for Ladder

| | | | |
|--------------------|-----------|------------------------|---|
| RNA Area: | 227.2 | 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\2013-10-16\2013-10-16_002.xad

Created: 10/16/2013 12:13:20 PM
Modified: 10/16/2013 12:30:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : ABFR0026 Total RNA

RNA Area: 181.8 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 120 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 8.70

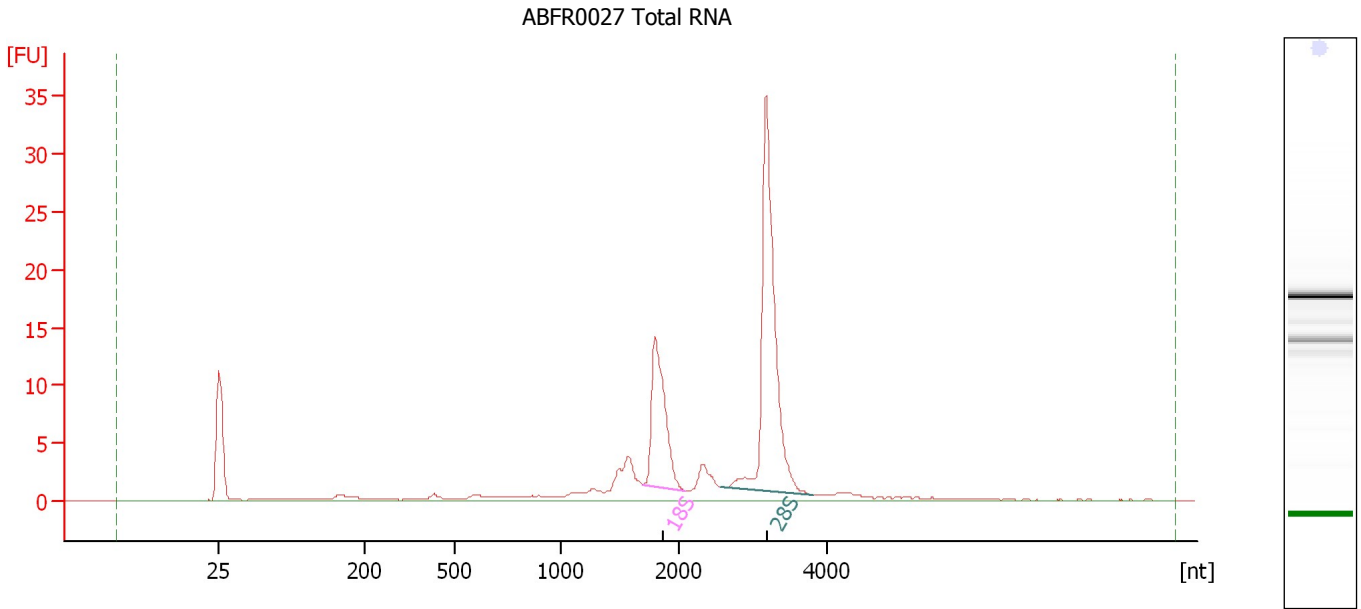
Fragment table for sample 1 : ABFR0026 Total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,692 | 2,079 | 34.3 | 18.9 |
| 28S | 2,918 | 3,729 | 67.5 | 37.1 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-16\2013-10-16_002.xad

Created: 10/16/2013 12:13:20 PM
Modified: 10/16/2013 12:30:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : ABFR0027 Total RNA

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 111.3 | RNA Integrity Number (RIN): | 8.6 (B.02.08) |
| RNA Concentration: | 74 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 2.2 | Result Flagging Label: | RIN: 8.60 |

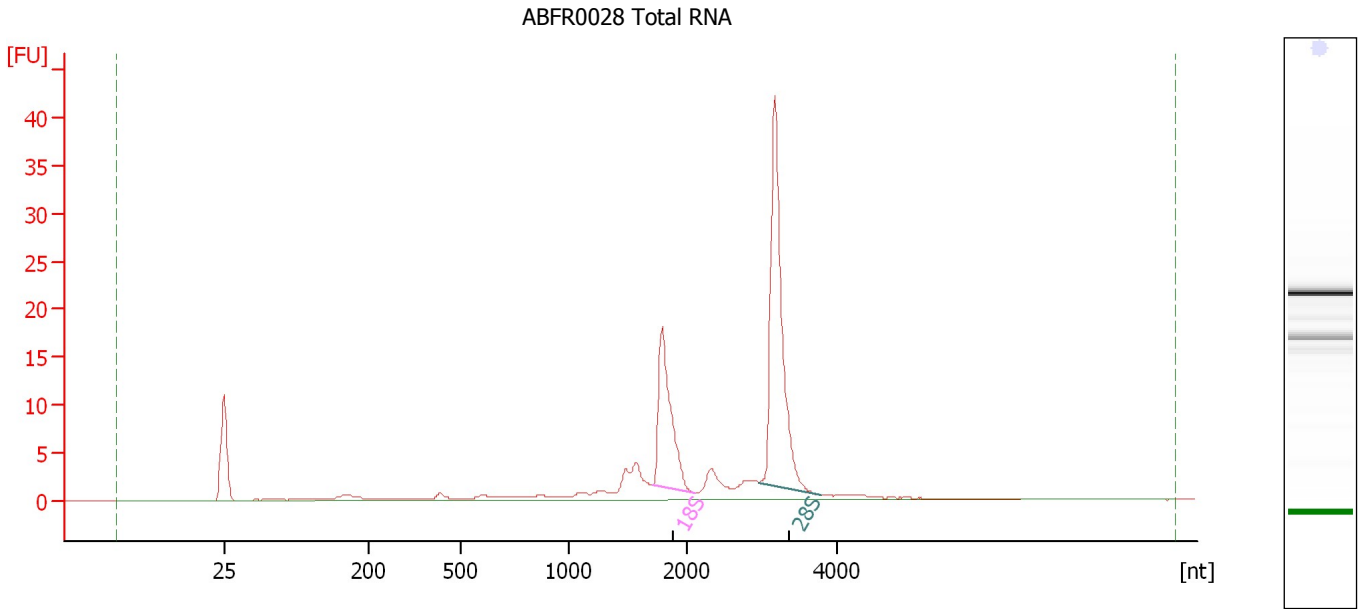
Fragment table for sample 2 : ABFR0027 Total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,698 | 2,085 | 20.7 | 18.6 |
| 28S | 2,558 | 3,807 | 45.9 | 41.2 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-16\2013-10-16_002.xad

Created: 10/16/2013 12:13:20 PM
Modified: 10/16/2013 12:30:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : ABFR0028 Total RNA

RNA Area: 122.6 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 81 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 8.70

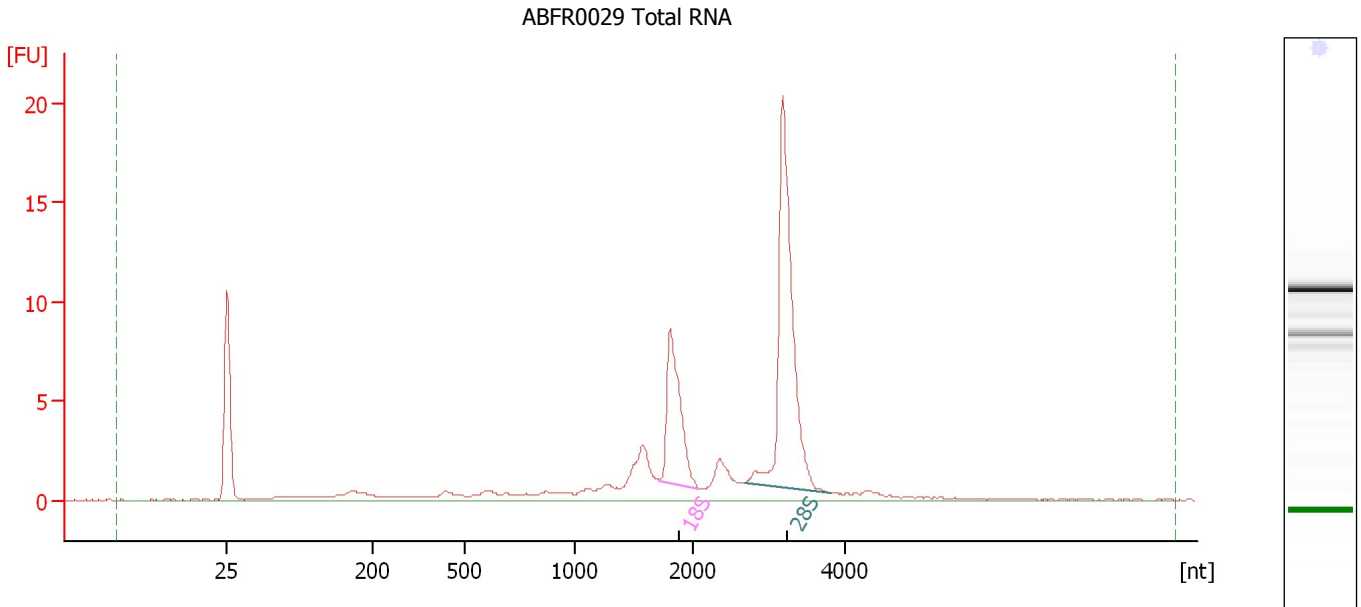
Fragment table for sample 3 : ABFR0028 Total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,705 | 2,105 | 23.7 | 19.3 |
| 28S | 2,945 | 3,771 | 47.5 | 38.7 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-16\2013-10-16_002.xad

Created: 10/16/2013 12:13:20 PM
Modified: 10/16/2013 12:30:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ABFR0029 Total RNA

RNA Area: 80.6 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 53 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.3 Result Flagging Label: RIN: 8.50

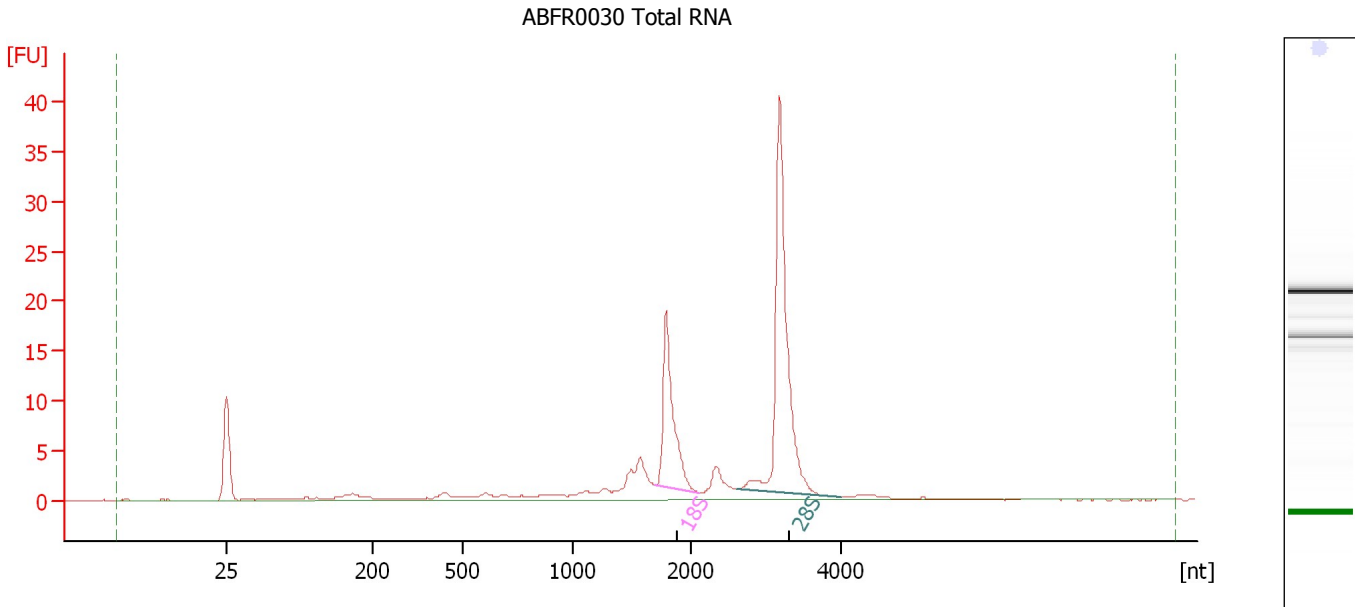
Fragment table for sample 4 : ABFR0029 Total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,719 | 2,081 | 12.1 | 15.0 |
| 28S | 2,675 | 3,822 | 28.1 | 34.8 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-16\2013-10-16_002.xad

Created: 10/16/2013 12:13:20 PM
Modified: 10/16/2013 12:30:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : ABRF0030 Total RNA

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 120.8 | RNA Integrity Number (RIN): | 8.6 (B.02.08) |
| RNA Concentration: | 80 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 2.3 | Result Flagging Label: | RIN: 8.60 |

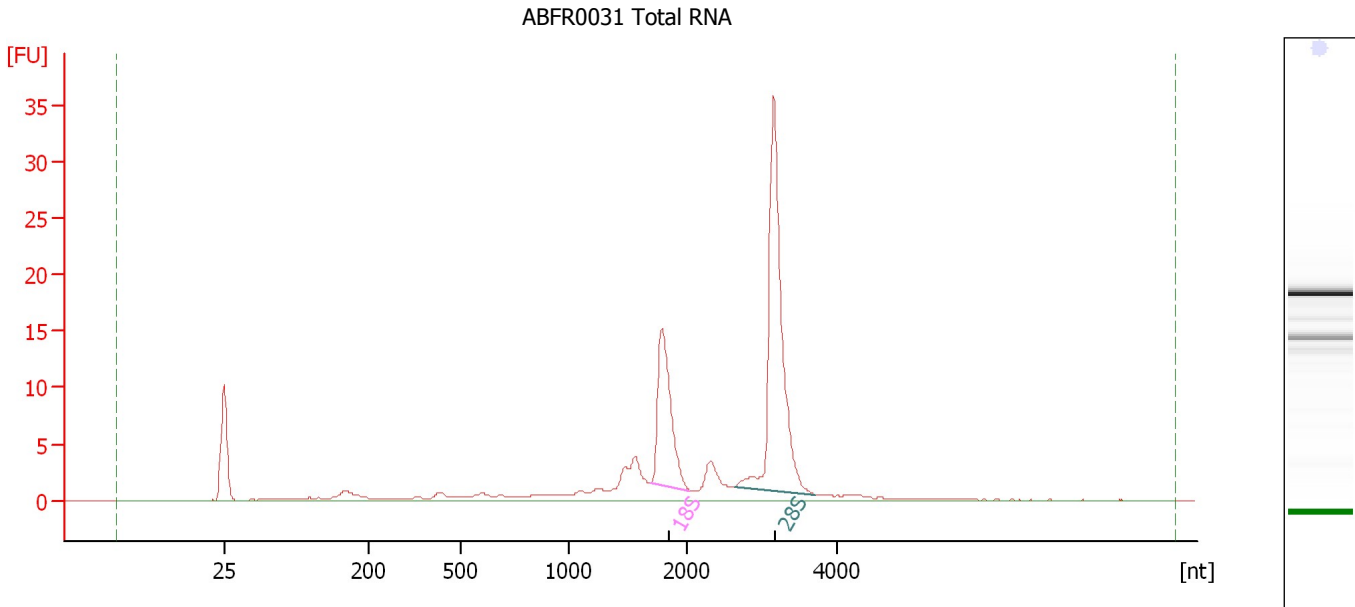
Fragment table for sample 5 : ABRF0030 Total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,690 | 2,107 | 21.1 | 17.5 |
| 28S | 2,618 | 3,994 | 47.5 | 39.3 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-16\2013-10-16_002.xad

Created: 10/16/2013 12:13:20 PM
Modified: 10/16/2013 12:30:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : ABRF0031 Total RNA

RNA Area: 116.5 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 77 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN: 8.50

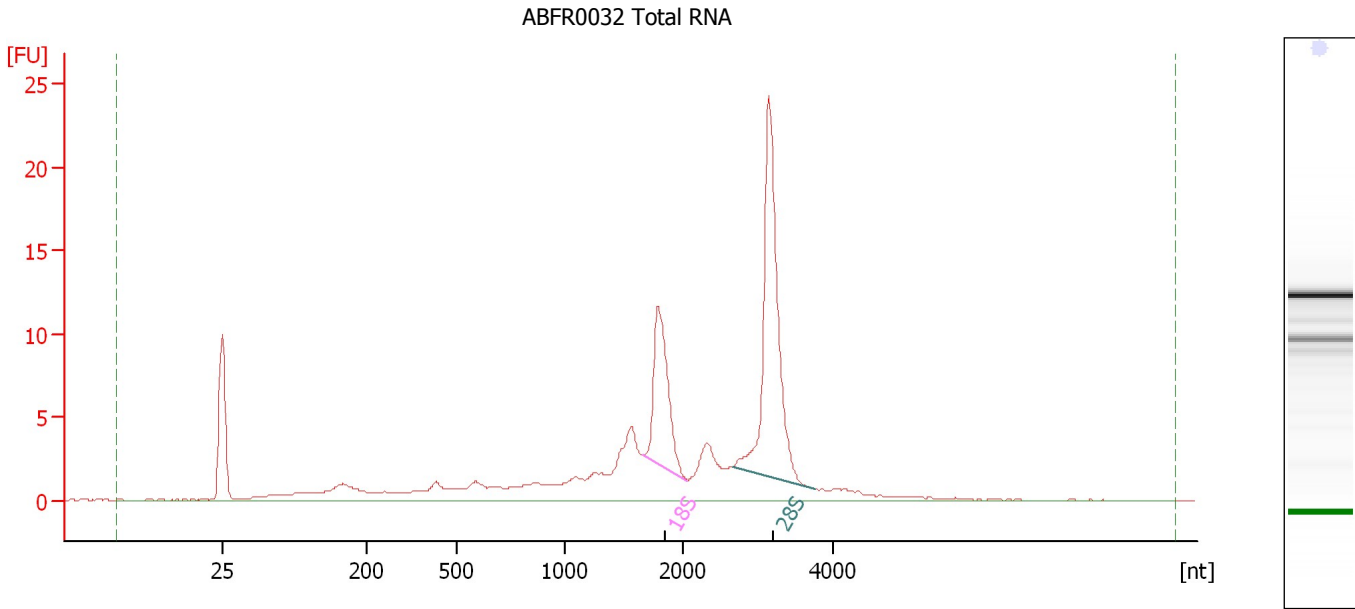
Fragment table for sample 6 : ABRF0031 Total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,687 | 2,033 | 21.0 | 18.0 |
| 28S | 2,632 | 3,700 | 46.2 | 39.7 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-16\2013-10-16_002.xad

Created: 10/16/2013 12:13:20 PM
Modified: 10/16/2013 12:30:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : ABRF0032 Total RNA

RNA Area: 131.7 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 87 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN: 8.20

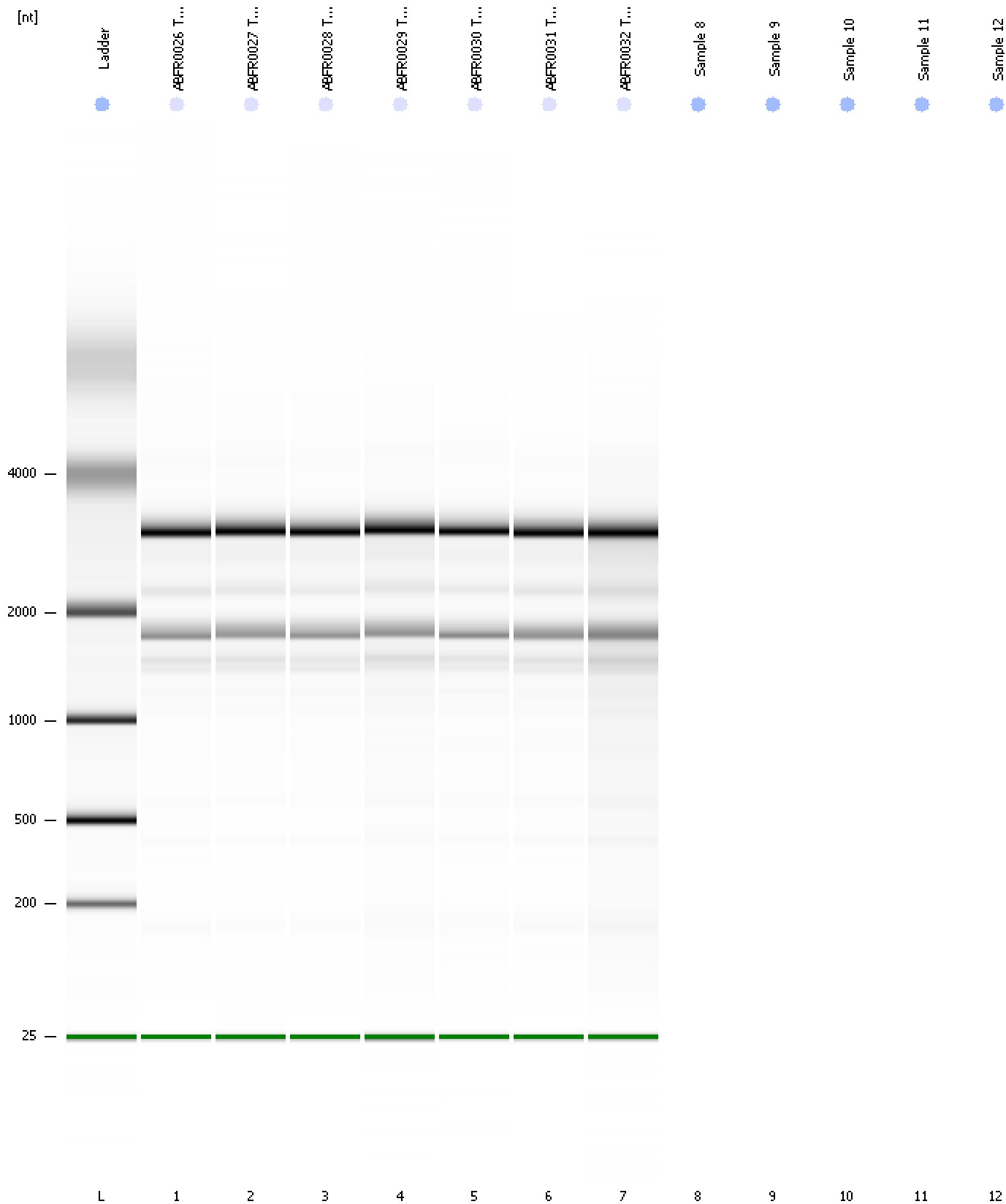
Fragment table for sample 7 : ABRF0032 Total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,656 | 2,059 | 16.1 | 12.2 |
| 28S | 2,659 | 3,775 | 33.8 | 25.7 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-16\2013-10-16_002.xad

Created: 10/16/2013 12:13:20 PM
Modified: 10/16/2013 12:30:22 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-16\2013-10-16_002.xad

Created: 10/16/2013 12:13:20 PM
Modified: 10/16/2013 12:30:22 PM

Invalid Samples

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.