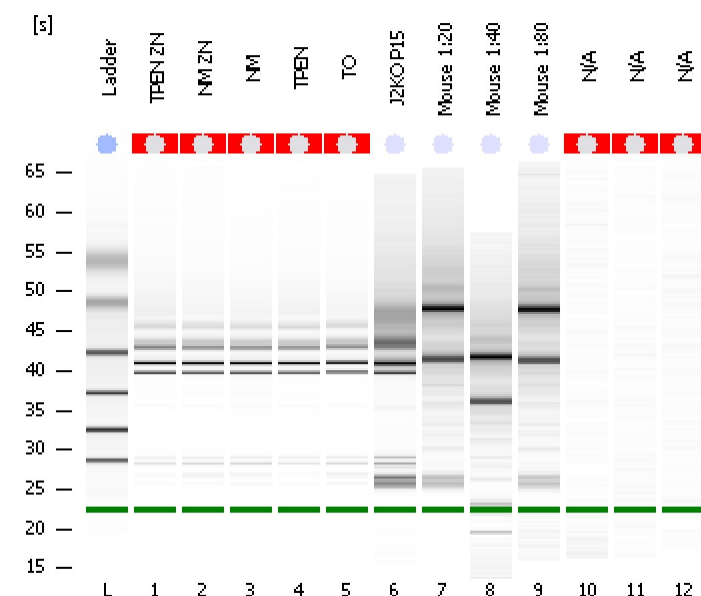


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903145
Serial#: DE34903145

Firmware: C.01.069
Type: G2938C

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)

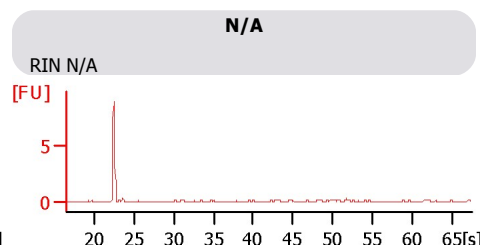
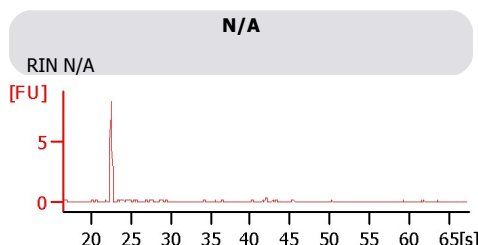
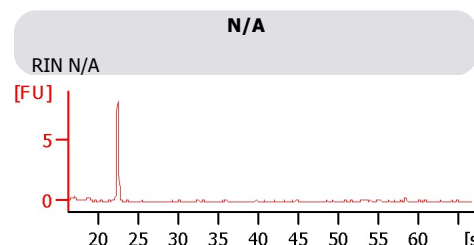
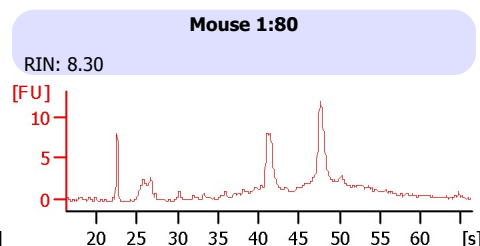
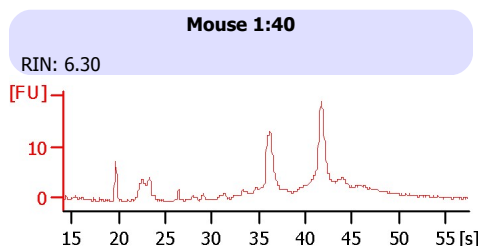
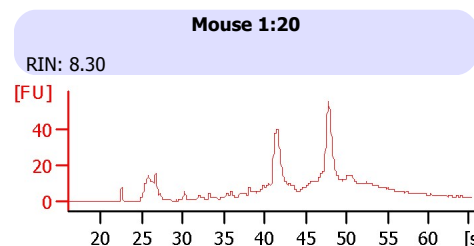
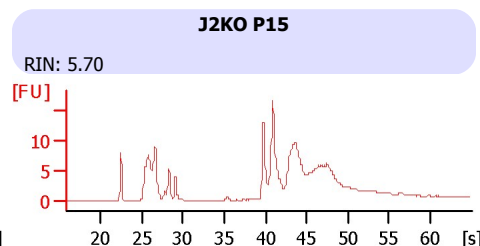
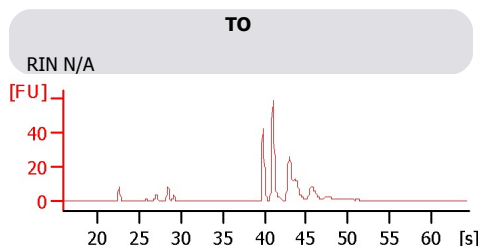
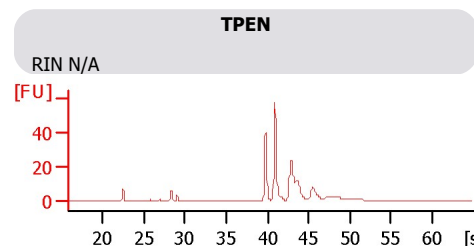
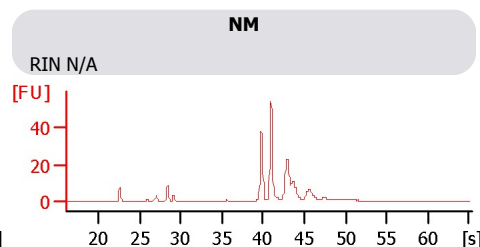
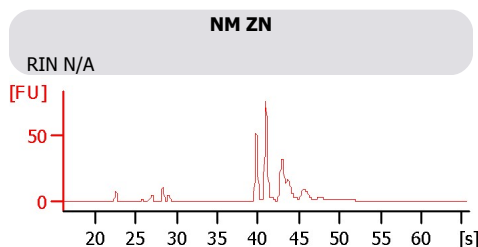
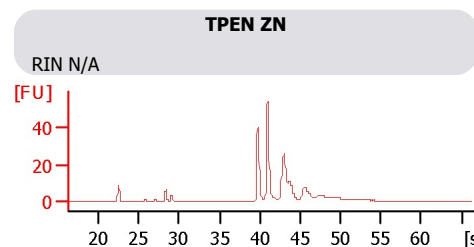
© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| TPEN ZN | | ✓ | RIN N/A | |
| NM ZN | | ✓ | RIN N/A | |
| NM | | ✓ | RIN N/A | |
| TPEN | | ✓ | RIN N/A | |
| TO | | ✓ | RIN N/A | |
| J2KO P15 | | ✓ | RIN: 5.70 | |
| Mouse 1:20 | | ✓ | RIN: 8.30 | |
| Mouse 1:40 | | ✓ | RIN: 6.30 | |
| Mouse 1:80 | | ✓ | RIN: 8.30 | |
| N/A | | ✓ | RIN N/A | |
| N/A | | ✓ | RIN N/A | |
| N/A | | ✓ | RIN N/A | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 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

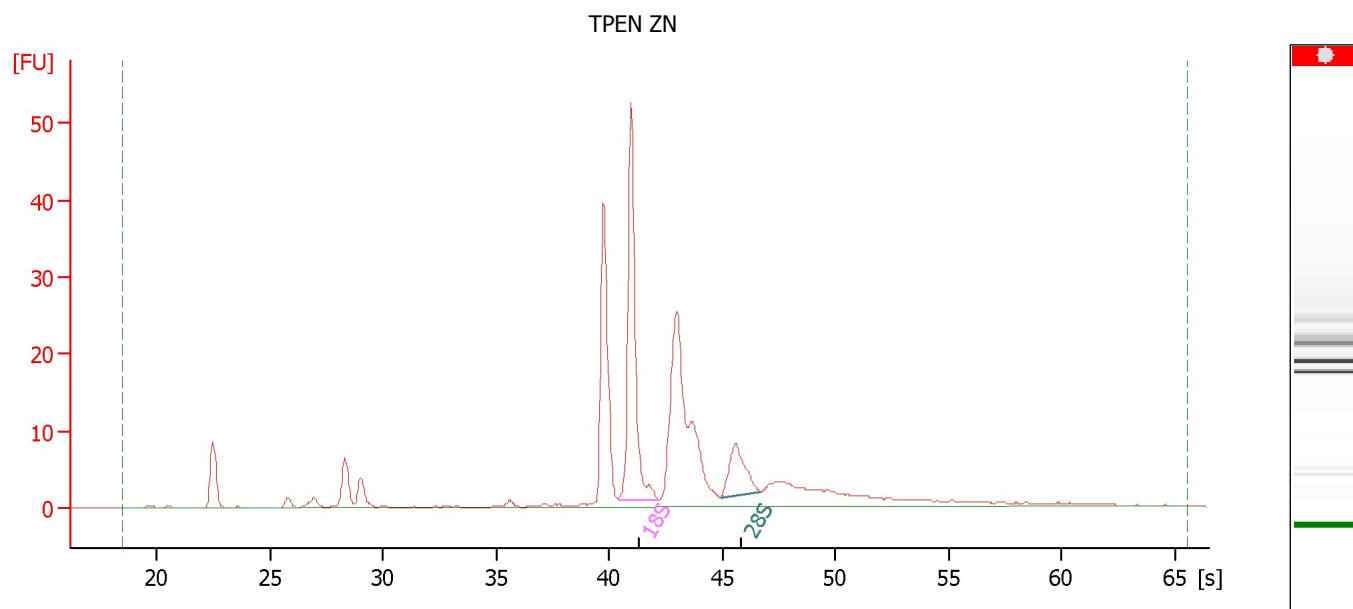
Filter Width [s] : 0.5
Polynomial Order : 4

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:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electropherogram Summary**Overall Results for sample 1 : TPEN ZN**

| | | | |
|-------------------------|-----------|-----------------------------|--|
| RNA Area: | 222.0 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 140 ng/μl | Result Flagging Color: | <div style="background-color: #cccccc; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.2 | Result Flagging Label: | RIN N/A |

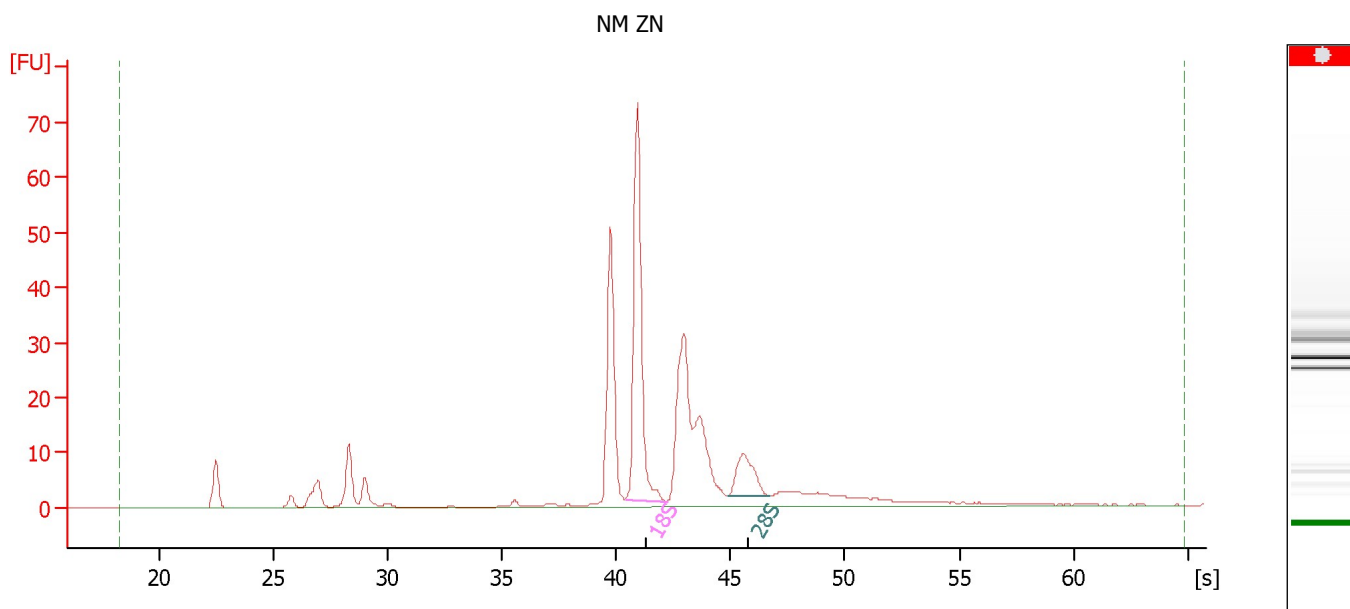
Fragment table for sample 1 : TPEN ZN

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.40 | 42.20 | 47.4 | 21.4 |
| 28S | 44.91 | 46.66 | 11.7 | 5.3 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : NM ZN

| | | | |
|-------------------------|-----------|-----------------------------|--|
| RNA Area: | 284.1 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 179 ng/μl | Result Flagging Color: | <div style="background-color: #cccccc; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.2 | Result Flagging Label: | RIN N/A |

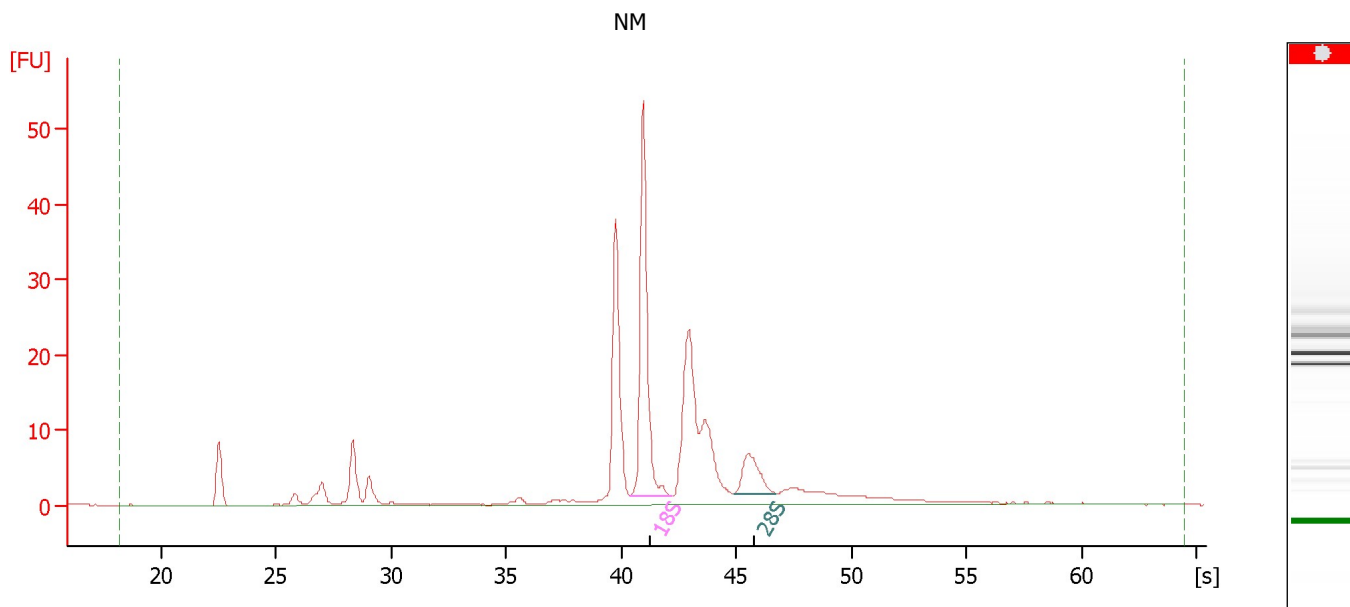
Fragment table for sample 2 : NM ZN

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.40 | 42.23 | 65.8 | 23.2 |
| 28S | 44.91 | 46.74 | 14.7 | 5.2 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : NM

| | | | |
|-------------------------|-----------|-----------------------------|--|
| RNA Area: | 206.8 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 130 ng/μl | Result Flagging Color: | <div style="background-color: #cccccc; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.2 | Result Flagging Label: | RIN N/A |

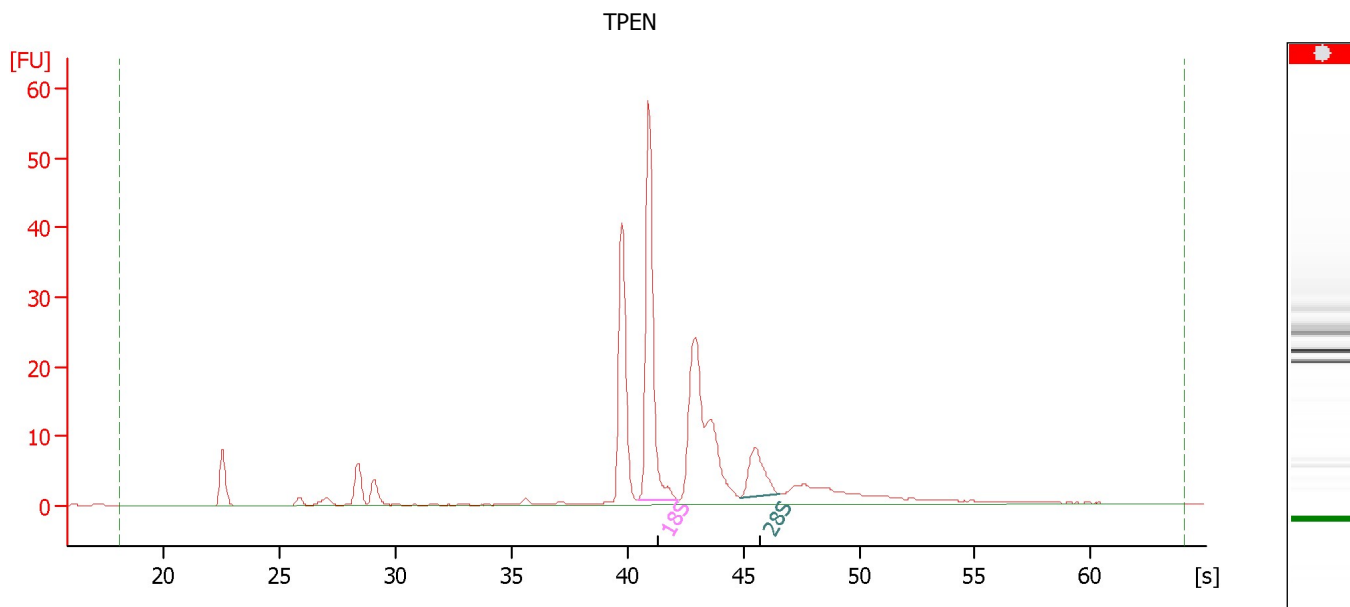
Fragment table for sample 3 : NM

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.38 | 42.20 | 46.8 | 22.6 |
| 28S | 44.86 | 46.73 | 10.1 | 4.9 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : TPEN

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 205.5 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 129 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.2 | Result Flagging Label: | RIN N/A |

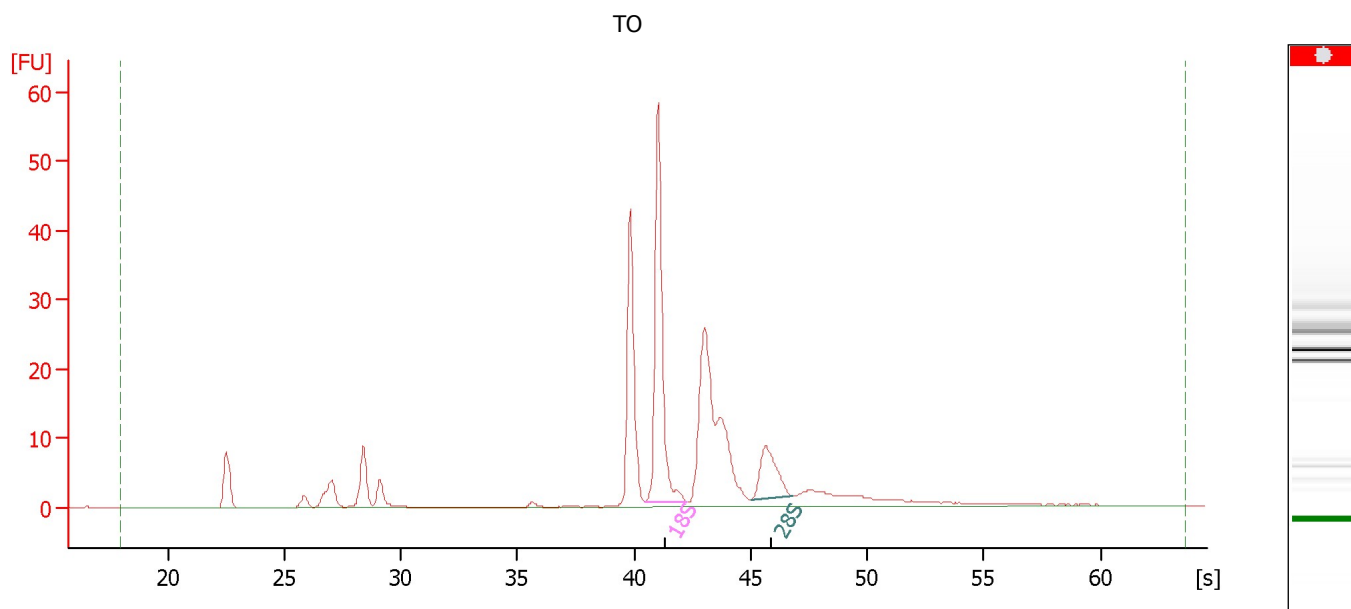
Fragment table for sample 4 : TPEN

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.41 | 42.22 | 48.9 | 23.8 |
| 28S | 44.86 | 46.62 | 11.5 | 5.6 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : TO

| | | | |
|-------------------------|-----------|-----------------------------|--|
| RNA Area: | 215.5 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 135 ng/μl | Result Flagging Color: | <div style="background-color: #cccccc; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.3 | Result Flagging Label: | RIN N/A |

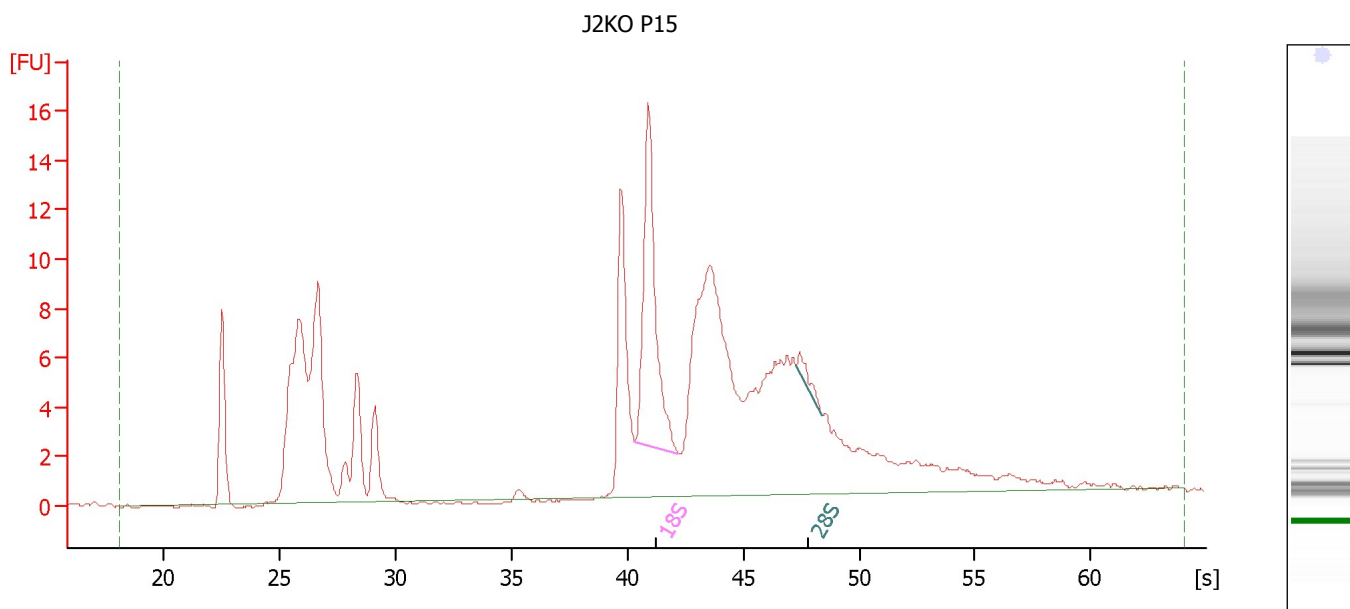
Fragment table for sample 5 : TO

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.48 | 42.28 | 52.7 | 24.4 |
| 28S | 45.00 | 46.80 | 13.5 | 6.3 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : J2KO P15

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 195.4 | RNA Integrity Number (RIN): | 5.7 (B.02.08) |
| RNA Concentration: | 123 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.1 | Result Flagging Label: | RIN: 5.70 |

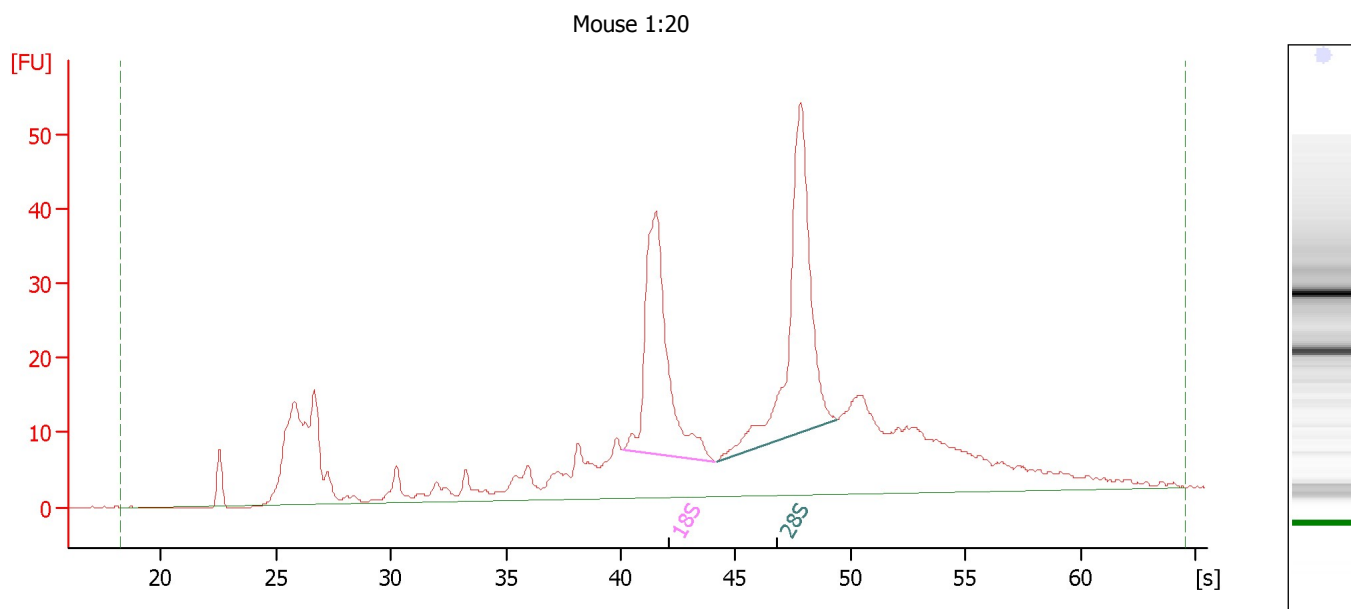
Fragment table for sample 6 : J2KO P15

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.31 | 42.22 | 19.2 | 9.8 |
| 28S | 47.27 | 48.39 | 1.2 | 0.6 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Mouse 1:20

| | | | |
|-------------------------|-----------|-----------------------------|--|
| RNA Area: | 614.5 | RNA Integrity Number (RIN): | 8.3 (B.02.08) |
| RNA Concentration: | 386 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.1 | Result Flagging Label: | RIN: 8.30 |

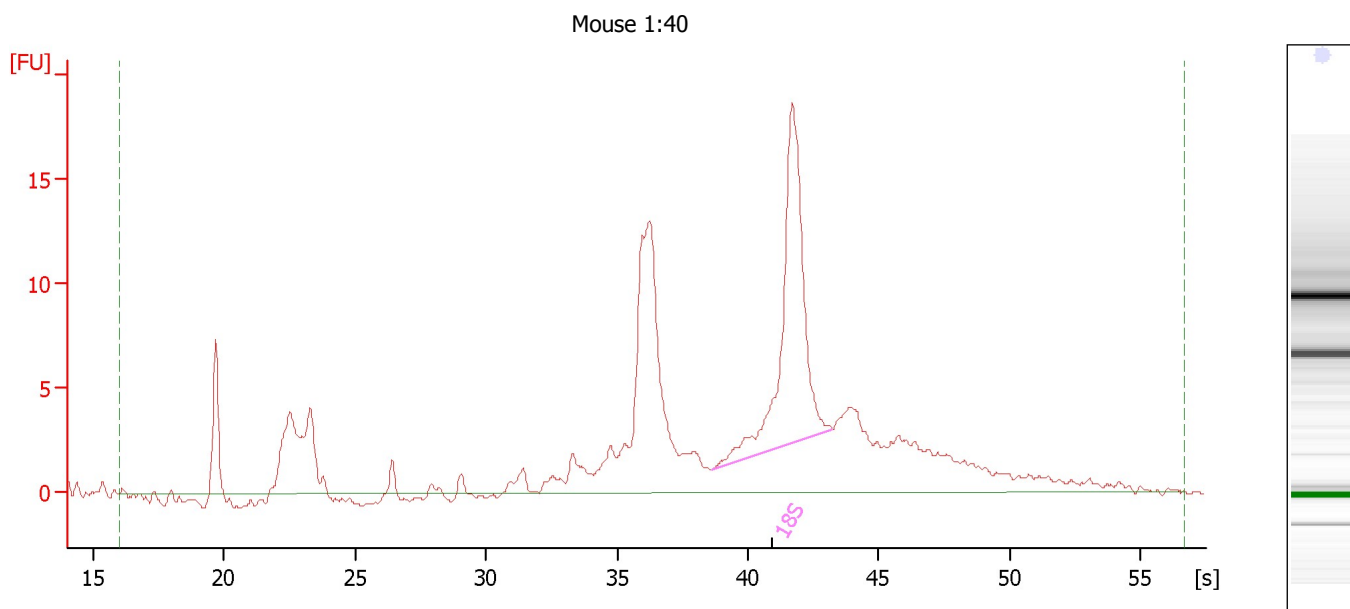
Fragment table for sample 7 : Mouse 1:20

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.09 | 44.11 | 87.2 | 14.2 |
| 28S | 44.20 | 49.44 | 97.2 | 15.8 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Mouse 1:40

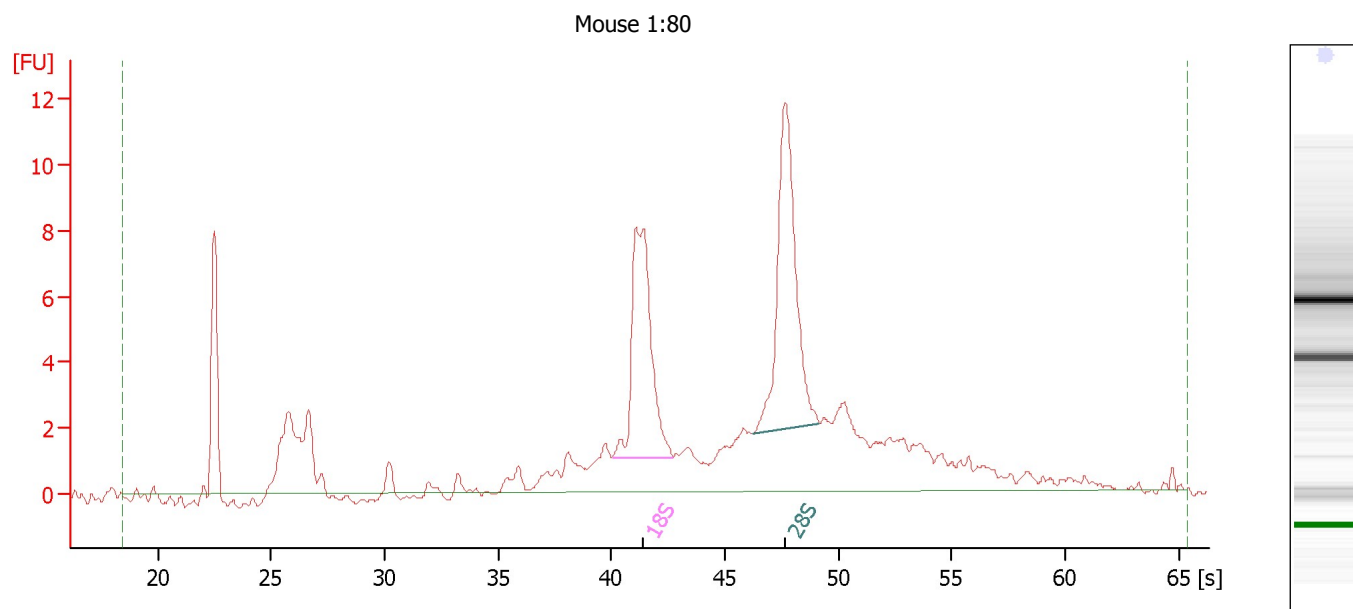
| | | | |
|-------------------------|-----------|-----------------------------|--|
| RNA Area: | 172.7 | RNA Integrity Number (RIN): | 6.3 (B.02.08) |
| RNA Concentration: | 109 ng/μl | Result Flagging Color: | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 6.30 |

Fragment table for sample 8 : Mouse 1:40

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 38.64 | 43.23 | 36.5 | 21.1 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electropherogram Summary Continued ...**Overall Results for sample 9 : Mouse 1:80**

| | | | |
|-------------------------|----------|-----------------------------|--|
| RNA Area: | 113.4 | RNA Integrity Number (RIN): | 8.3 (B.02.08) |
| RNA Concentration: | 71 ng/μl | Result Flagging Color: | <div style="background-color: #ccccff; width: 20px; height: 10px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 1.1 | Result Flagging Label: | RIN: 8.30 |

Fragment table for sample 9 : Mouse 1:80

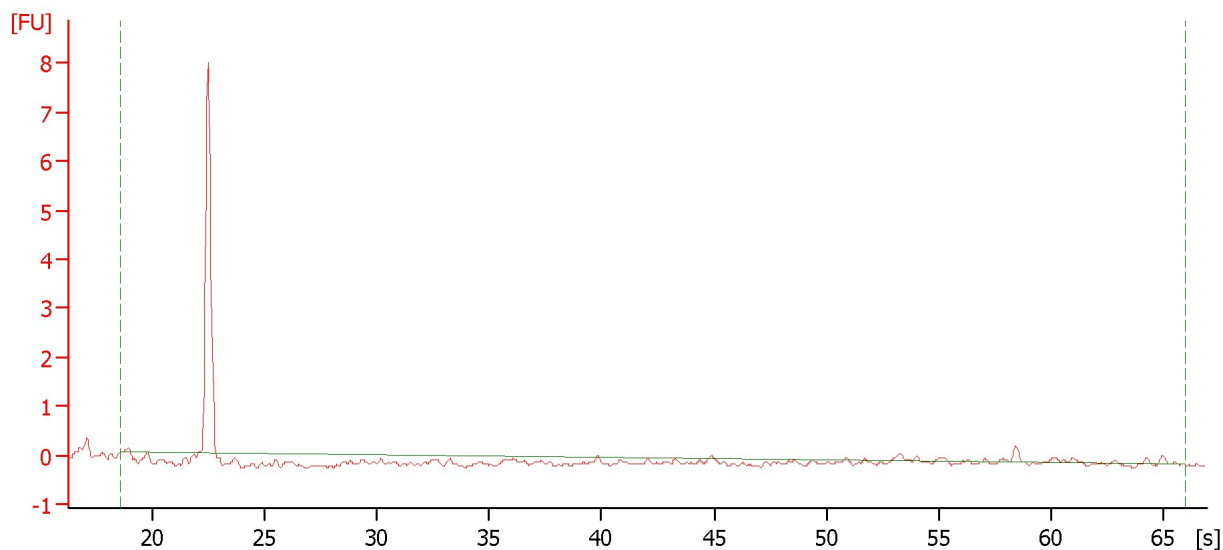
| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.03 | 42.73 | 16.8 | 14.8 |
| 28S | 46.23 | 49.17 | 19.1 | 16.9 |


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electropherogram Summary Continued ...

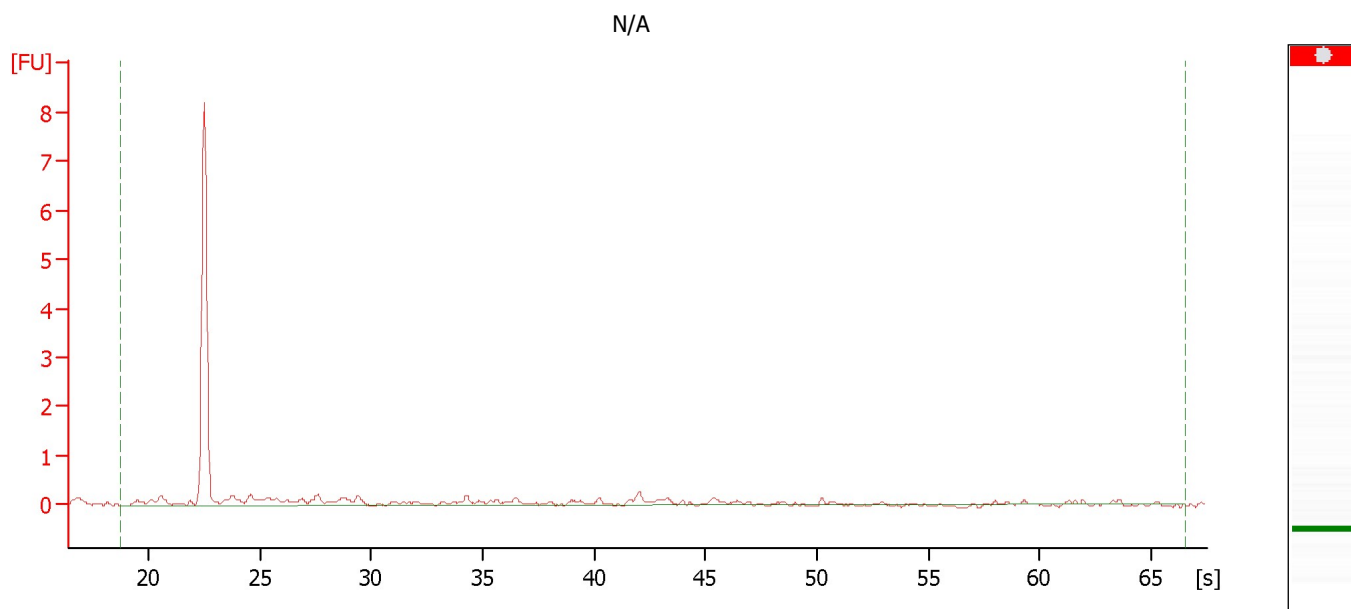
N/A

**Overall Results for sample 10 : N/A**

| | | | |
|-------------------------|---------|-----------------------------|--|
| RNA Area: | 0.7 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 0 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:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electropherogram Summary Continued ...**Overall Results for sample 11 : N/A**

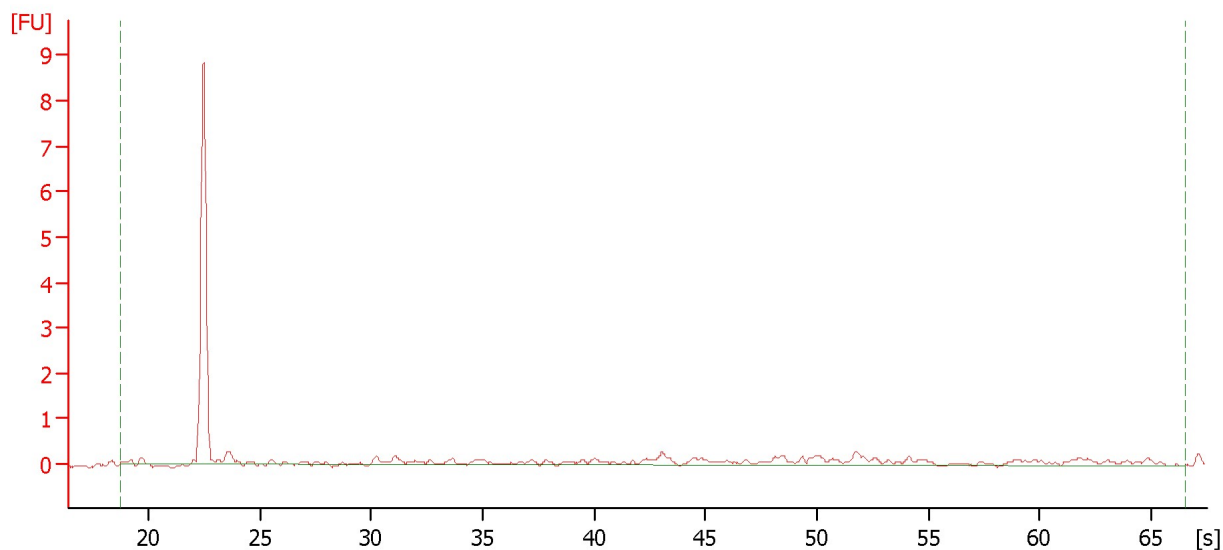
| | | | |
|-------------------------|---------|-----------------------------|--|
| RNA Area: | 6.9 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 4 ng/μl | Result Flagging Color: | <div style="background-color: #cccccc; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN N/A |


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Electropherogram Summary Continued ...

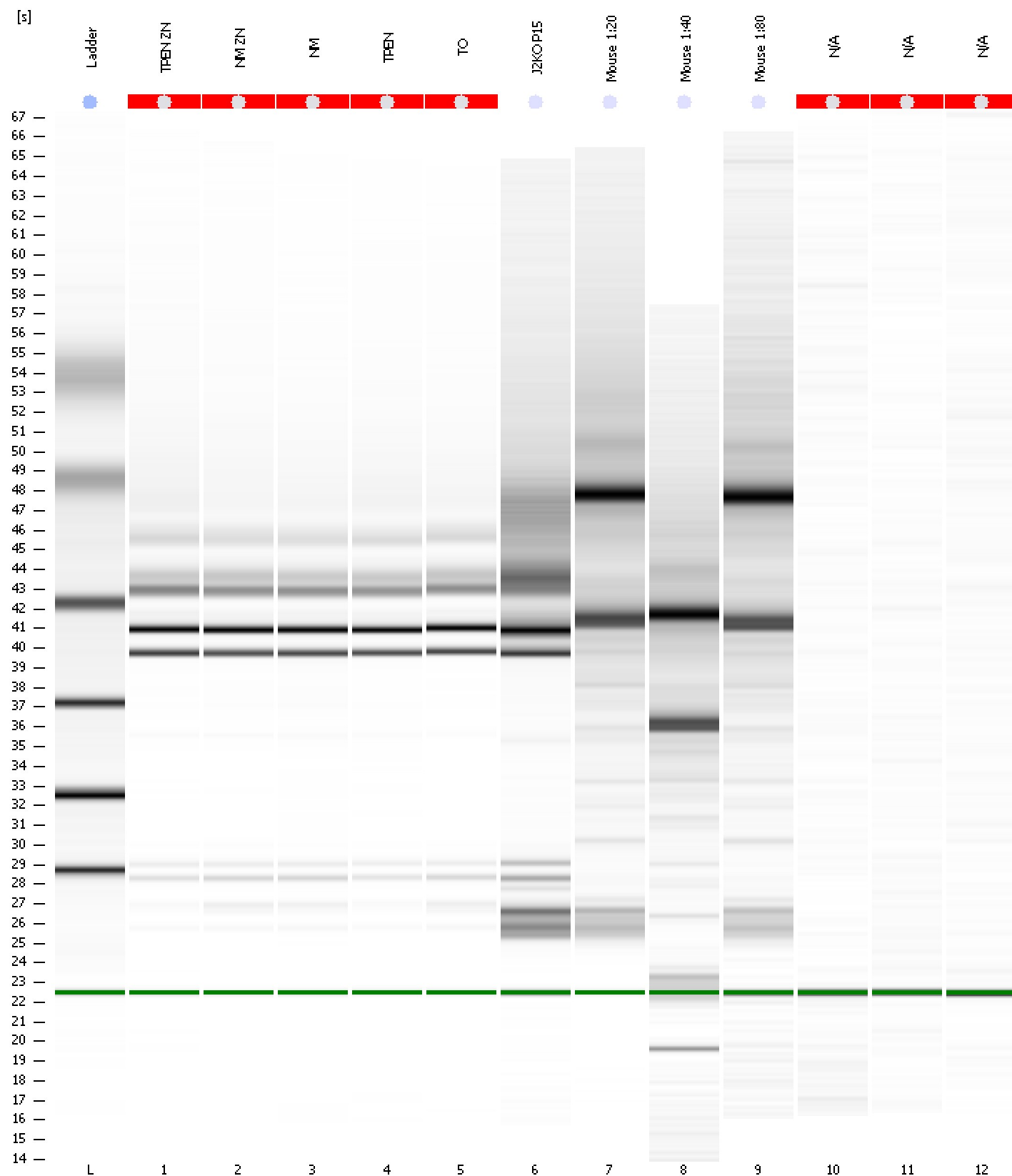
N/A

**Overall Results for sample 12 : N/A**

| | | | |
|-------------------------|---------|-----------------------------|--|
| RNA Area: | 6.0 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 4 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:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Gel Image

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\2100 expert\data\2014-01-30\TPEN Samples and Mouse RNA.xad

Created: 1/30/2014 12:13:53 PM
Modified: 1/30/2014 12:52:25 PM

Curves

Standard Curve

