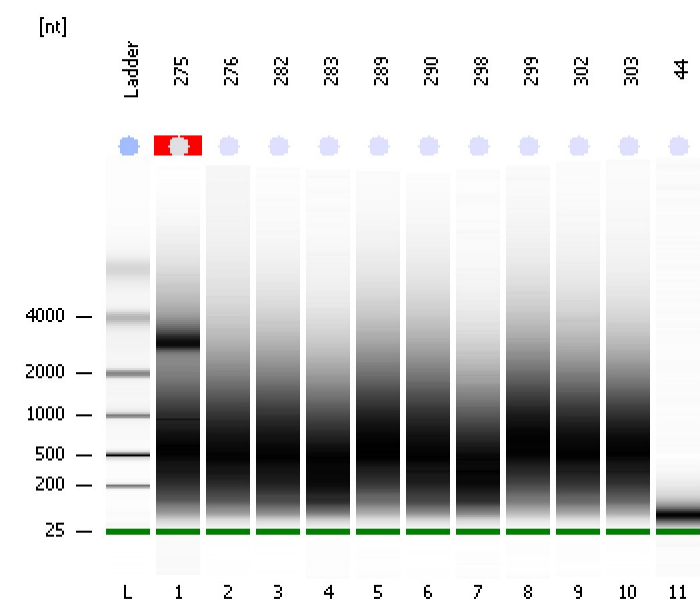


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

Electrophoresis File Run SummaryInstrument Information:

Instrument Name: DE72902486
Serial#: DE72902486

Firmware: C.01.069
Type: G2939A

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)

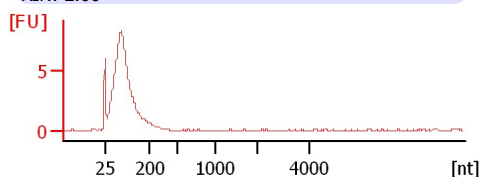
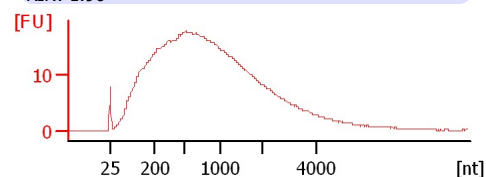
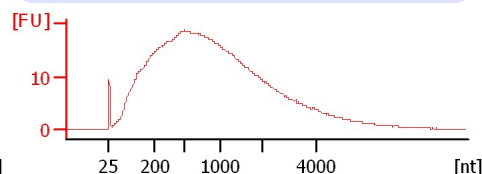
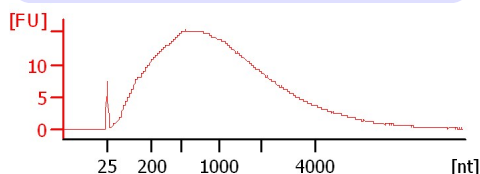
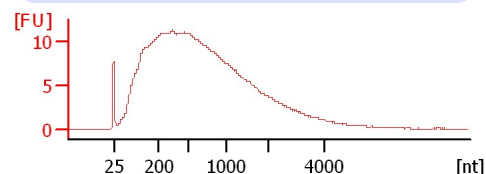
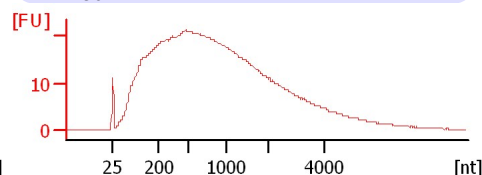
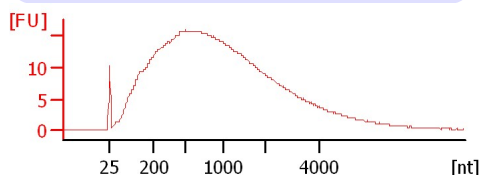
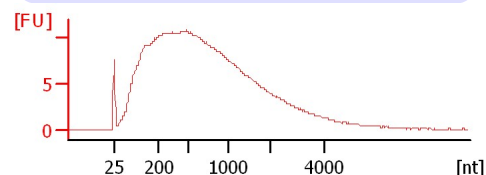
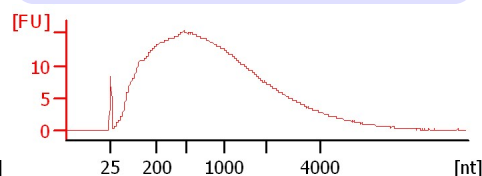
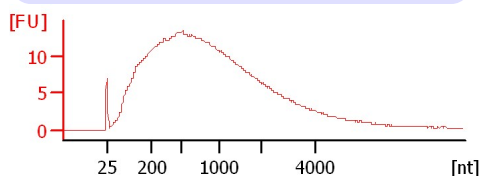
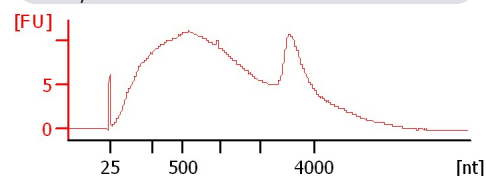
© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Stat Result Label | Result Color |
|-------------|----------------|-------------------|--------------|
| | | us | |
| 275 | | ✓ RIN N/A | |
| 276 | | ✓ RIN:2 | |
| 282 | | ✓ RIN:2 | |
| 283 | | ✓ RIN:2 | |
| 289 | | ✓ RIN:2 | |
| 290 | | ✓ RIN: 1.90 | |
| 298 | | ✓ RIN:2 | |
| 299 | | ✓ RIN: 1.90 | |
| 302 | | ✓ RIN: 1.90 | |
| 303 | | ✓ RIN: 1.90 | |
| 44 | | ✓ RIN: 2.60 | |

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...\Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

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

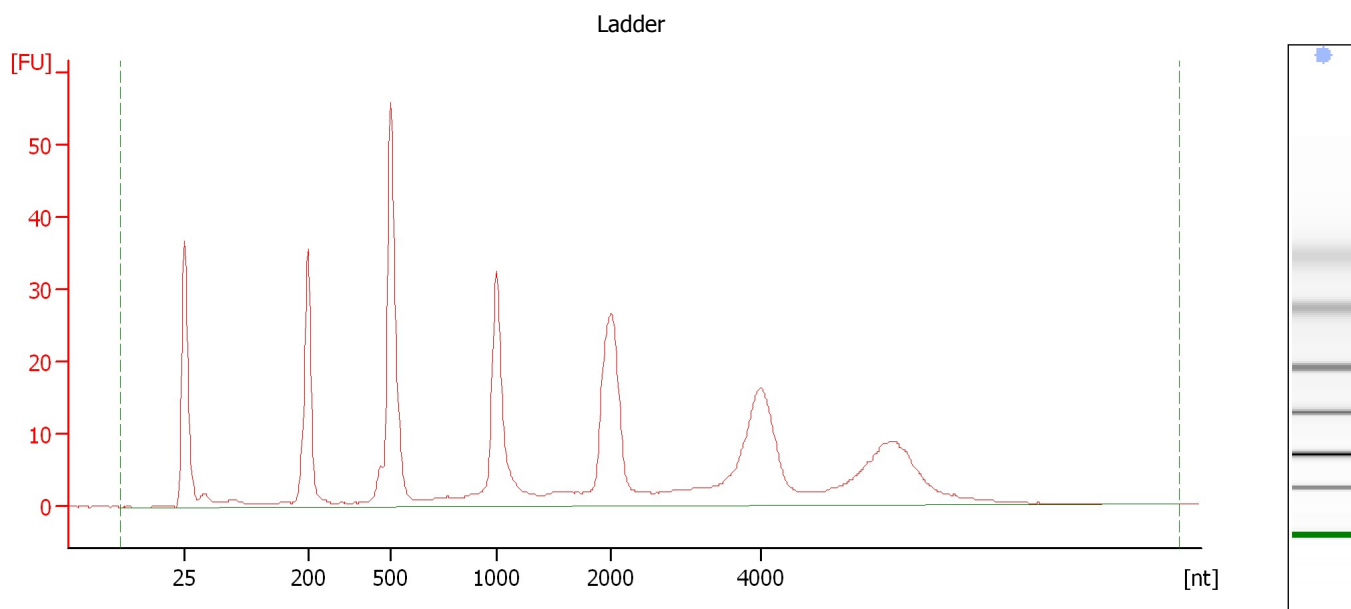
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

Electropherogram Summary



Overall Results for Ladder

RNA Area: 430.5

Result Flagging Color:



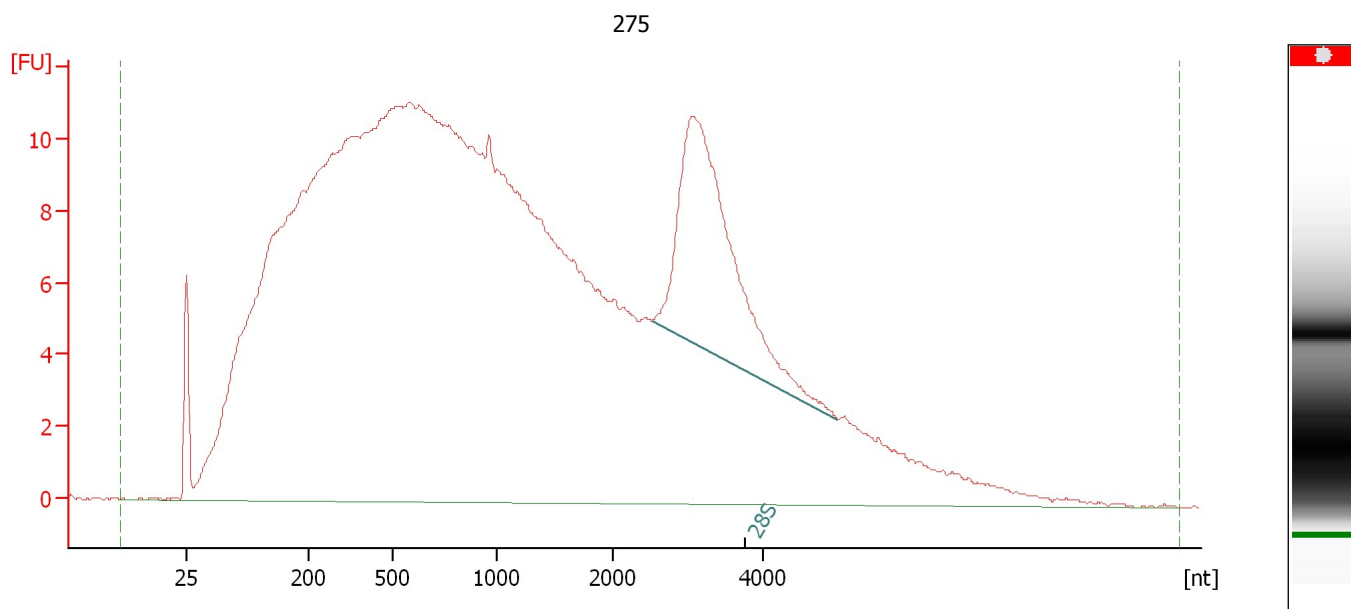
RNA Concentration: 1,000 pg/μl

Result Flagging Label:

All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

Electropherogram Summary Continued ...**Overall Results for sample 1 : 275**

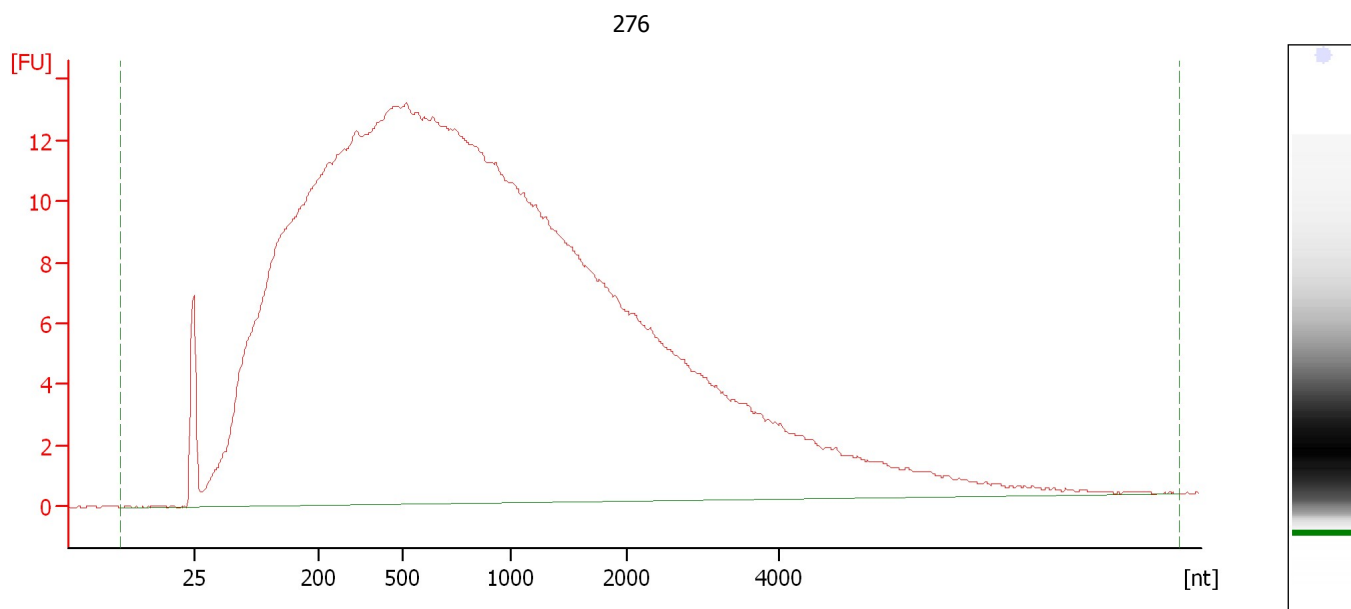
| | | | |
|-------------------------|-------------|-----------------------------|--|
| RNA Area: | 625.3 | RNA Integrity Number (RIN): | N/A (B.02.07) |
| RNA Concentration: | 1,453 pg/μl | Result Flagging Color: | <div style="background-color: #cccccc; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN N/A |

Fragment table for sample 1 : 275

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 28S | 2,514 | 4,994 | 39.0 | 6.2 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

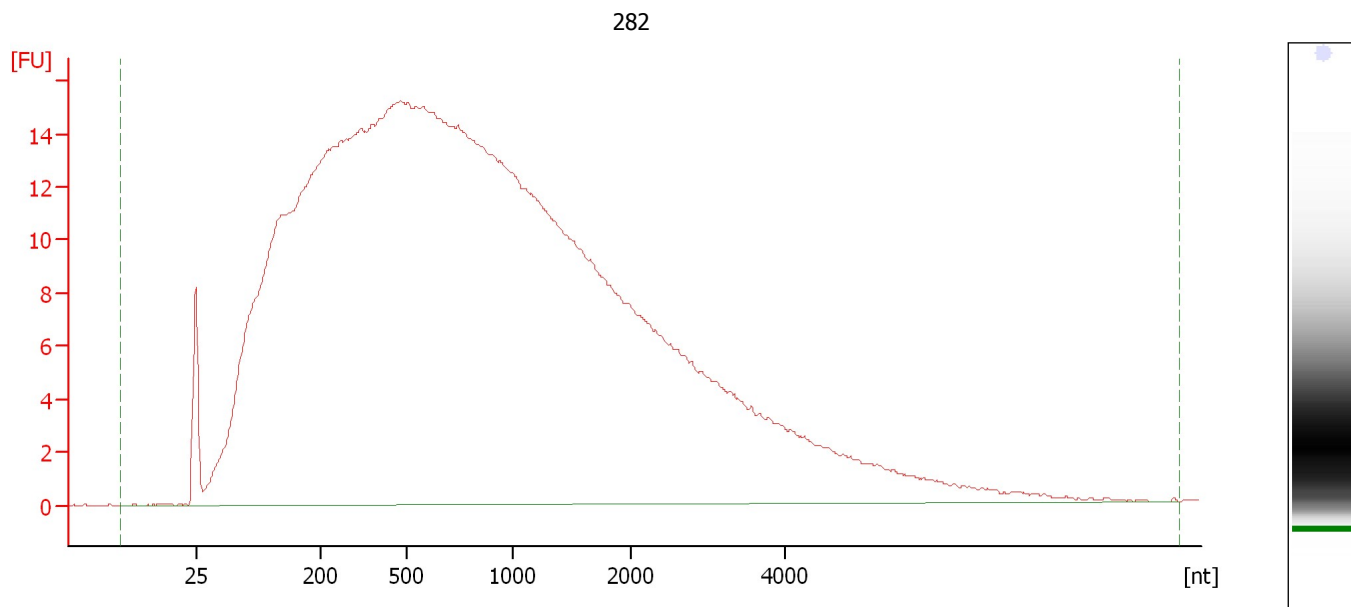
Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

Electropherogram Summary Continued ...**Overall Results for sample 2 : 276**

| | | | |
|-------------------------|-------------|-----------------------------|--|
| RNA Area: | 653.0 | RNA Integrity Number (RIN): | 2 (B.02.07) |
| RNA Concentration: | 1,517 pg/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:2 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

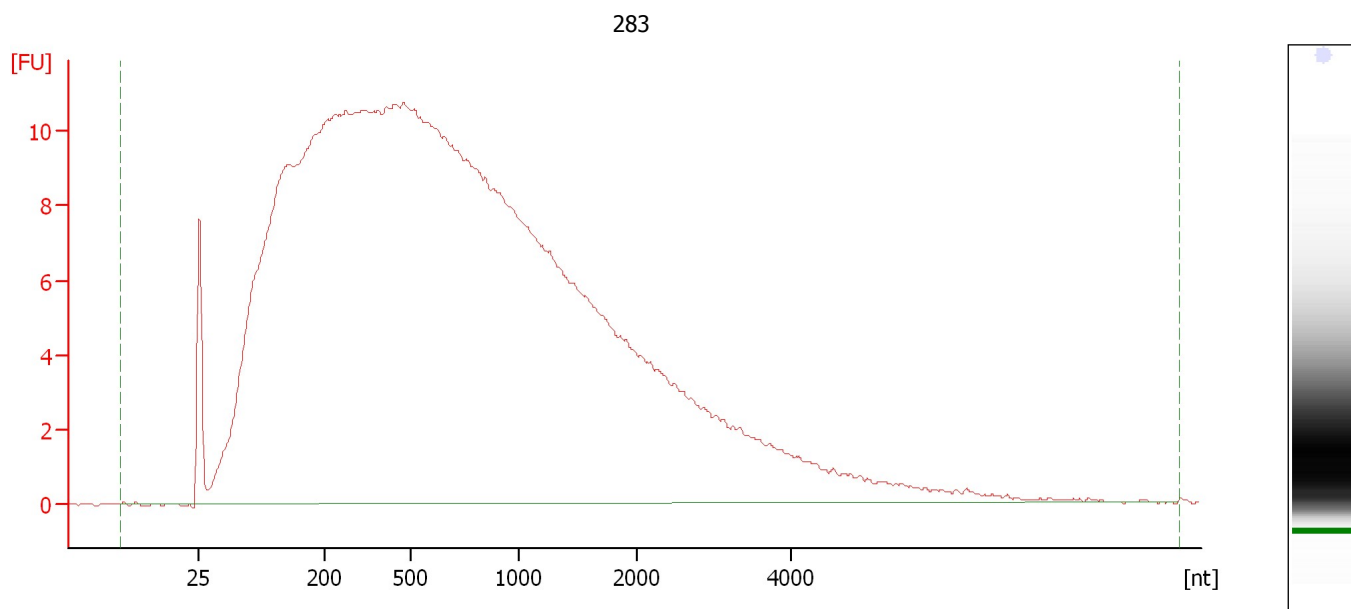
Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

Electropherogram Summary Continued ...**Overall Results for sample 3 : 282**

| | | | |
|-------------------------|-------------------|-----------------------------|--|
| RNA Area: | 775.7 | RNA Integrity Number (RIN): | 2 (B.02.07) |
| RNA Concentration: | 1,802 pg/ μ l | 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:2 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

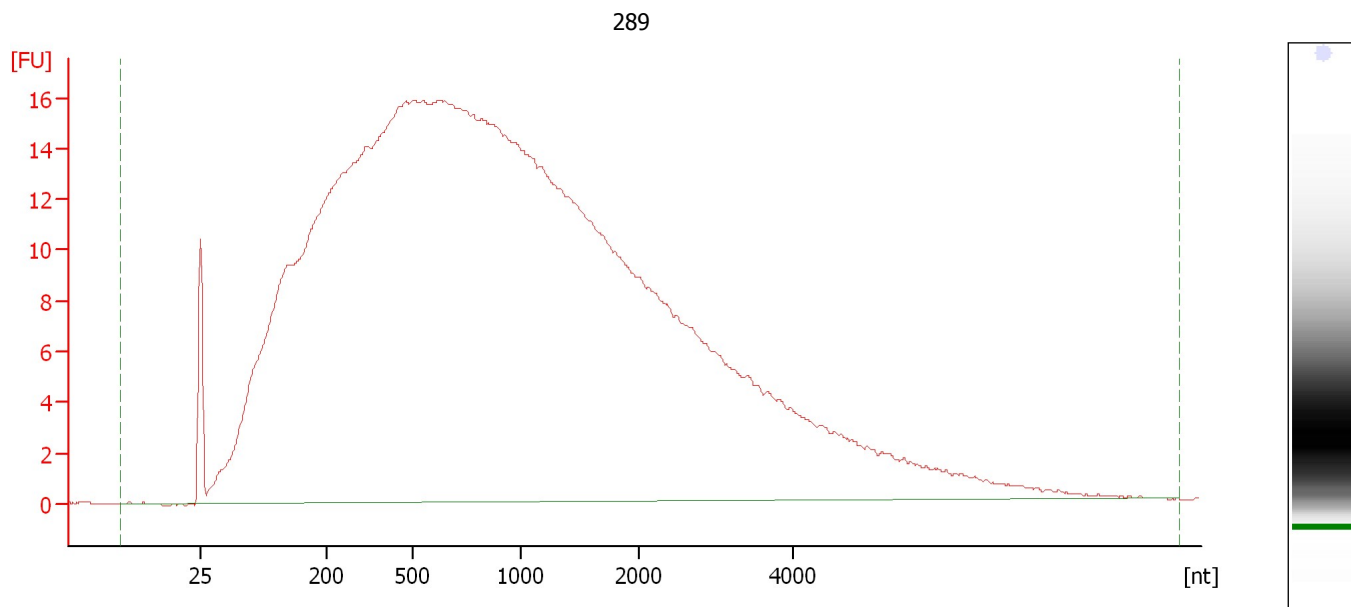
Electropherogram Summary Continued ...**Overall Results for sample 4 : 283**

RNA Area: 521.6
RNA Concentration: 1,212 pg/μl
rRNA Ratio [28s / 18s]: 0.0

RNA Integrity Number (RIN): 2 (B.02.07)
Result Flagging Color:
Result Flagging Label: RIN:2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

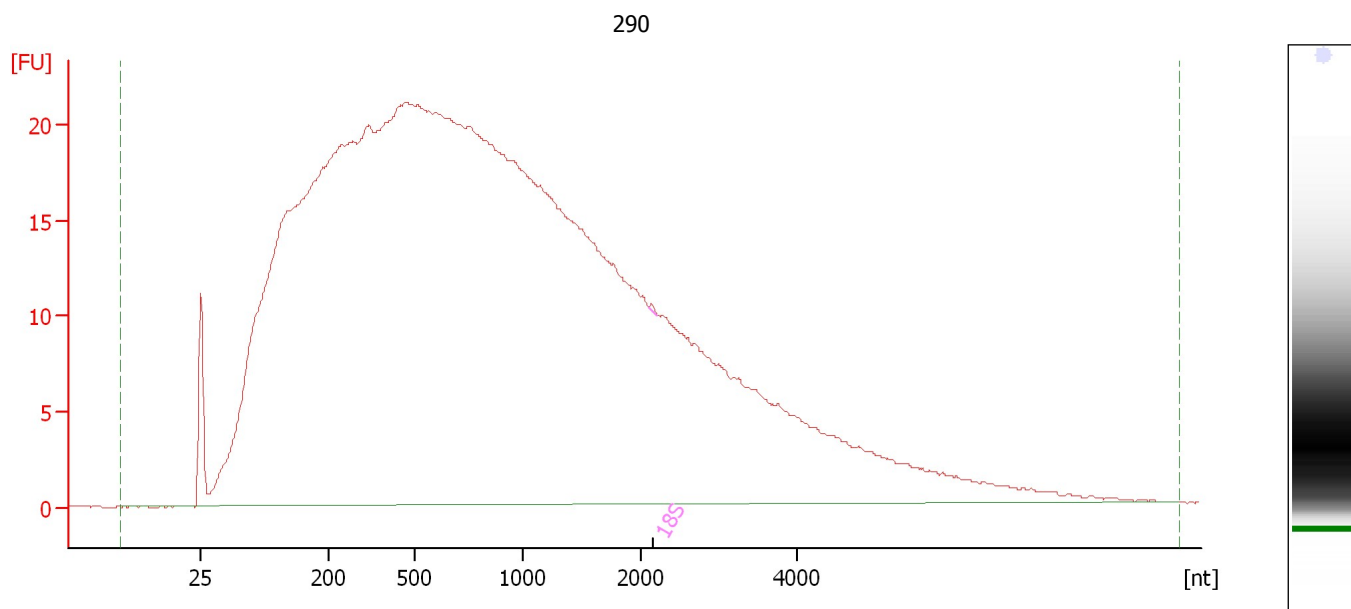
Electropherogram Summary Continued ...**Overall Results for sample 5 : 289**

RNA Area: 809.5
RNA Concentration: 1,881 pg/μl
rRNA Ratio [28s / 18s]: 0.0

RNA Integrity Number (RIN): 2 (B.02.07)
Result Flagging Color:
Result Flagging Label: RIN:2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

Electropherogram Summary Continued ...**Overall Results for sample 6 : 290**

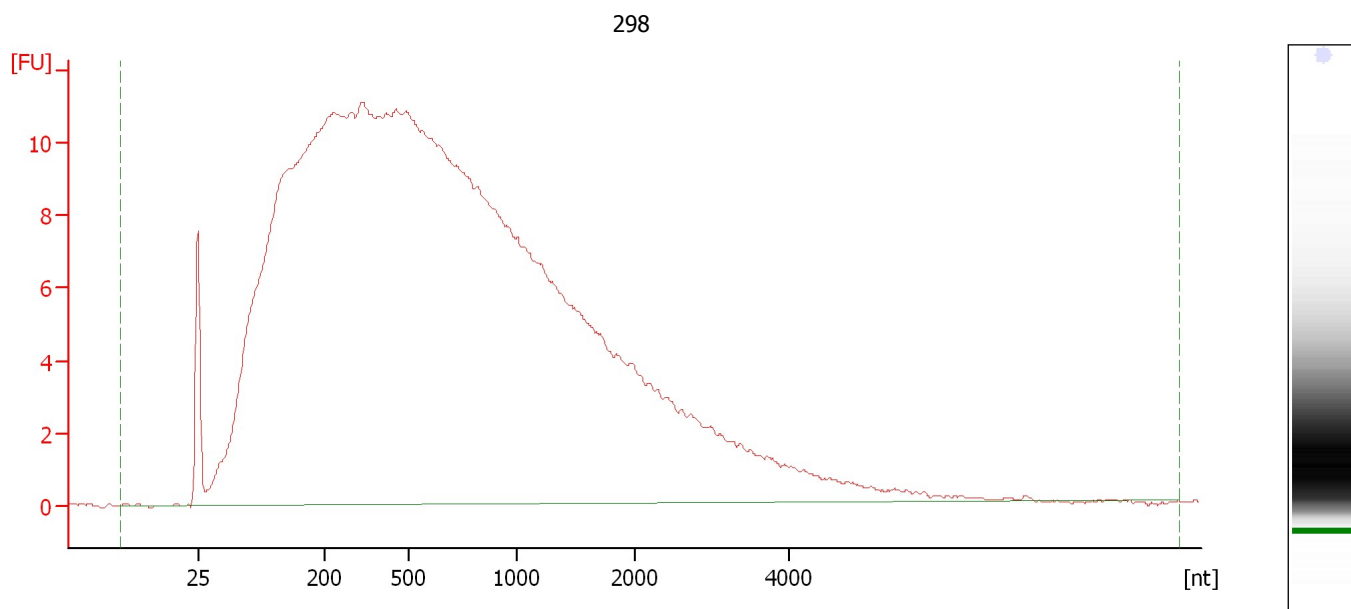
| | | | |
|-------------------------|-------------|-----------------------------|--|
| RNA Area: | 1,104.1 | RNA Integrity Number (RIN): | 1.9 (B.02.07) |
| RNA Concentration: | 2,565 pg/μl | Result Flagging Color: | <div style="background-color: #ccccff; width: 20px; height: 10px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 1.90 |

Fragment table for sample 6 : 290

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 2,092 | 2,203 | 0.1 | 0.0 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

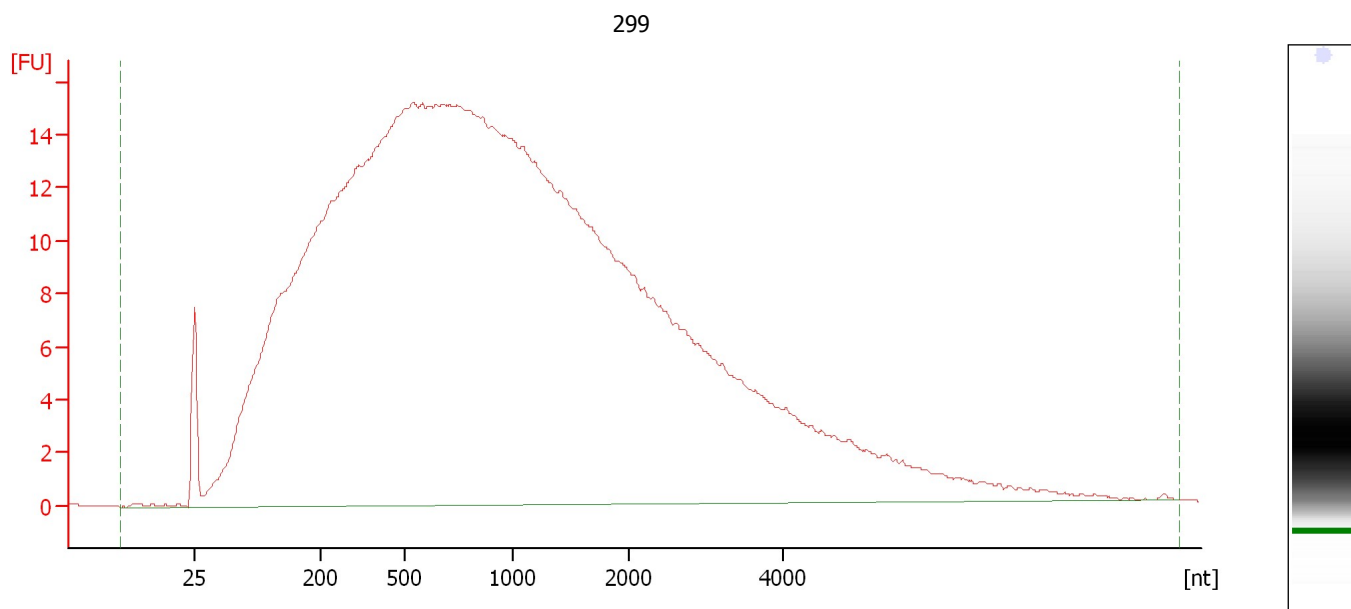
Electropherogram Summary Continued ...**Overall Results for sample 7 : 298**

RNA Area: 508.1
RNA Concentration: 1,180 pg/μl
rRNA Ratio [28s / 18s]: 0.0

RNA Integrity Number (RIN): 2 (B.02.07)
Result Flagging Color:
Result Flagging Label: RIN:2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

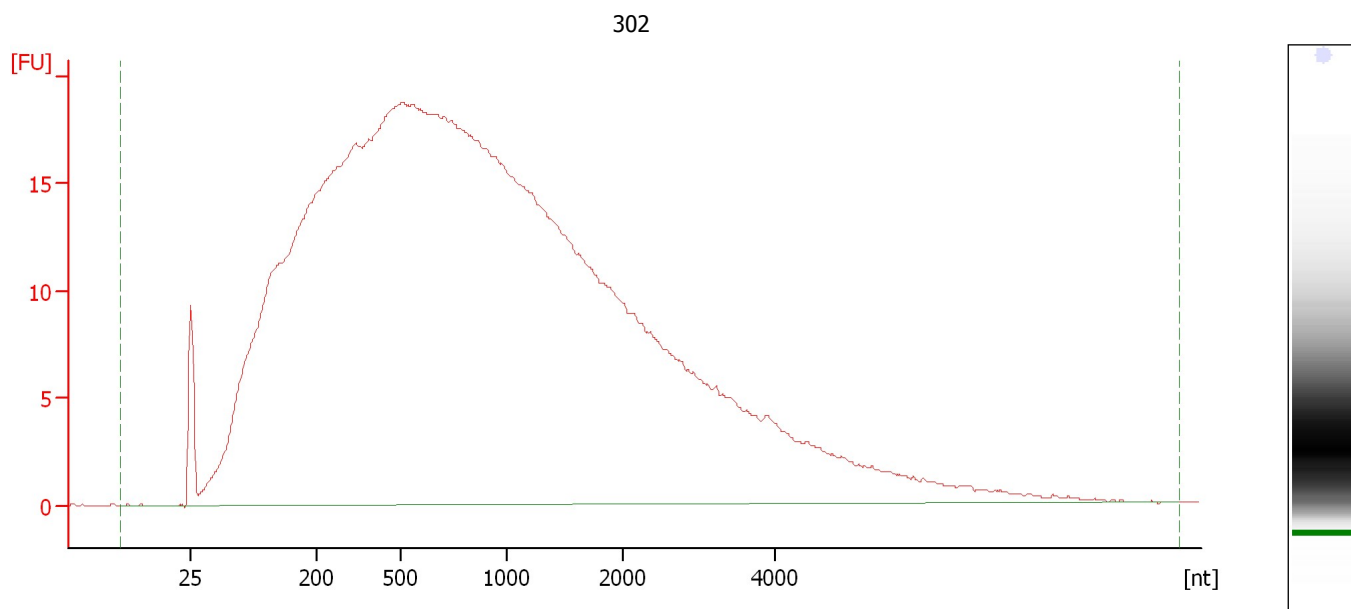
Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

Electropherogram Summary Continued ...**Overall Results for sample 8 : 299**

| | | | |
|-------------------------|-------------|-----------------------------|--|
| RNA Area: | 769.7 | RNA Integrity Number (RIN): | 1.9 (B.02.07) |
| RNA Concentration: | 1,788 pg/μl | Result Flagging Color: | <div style="background-color: #ccccff; width: 20px; height: 10px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 1.90 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

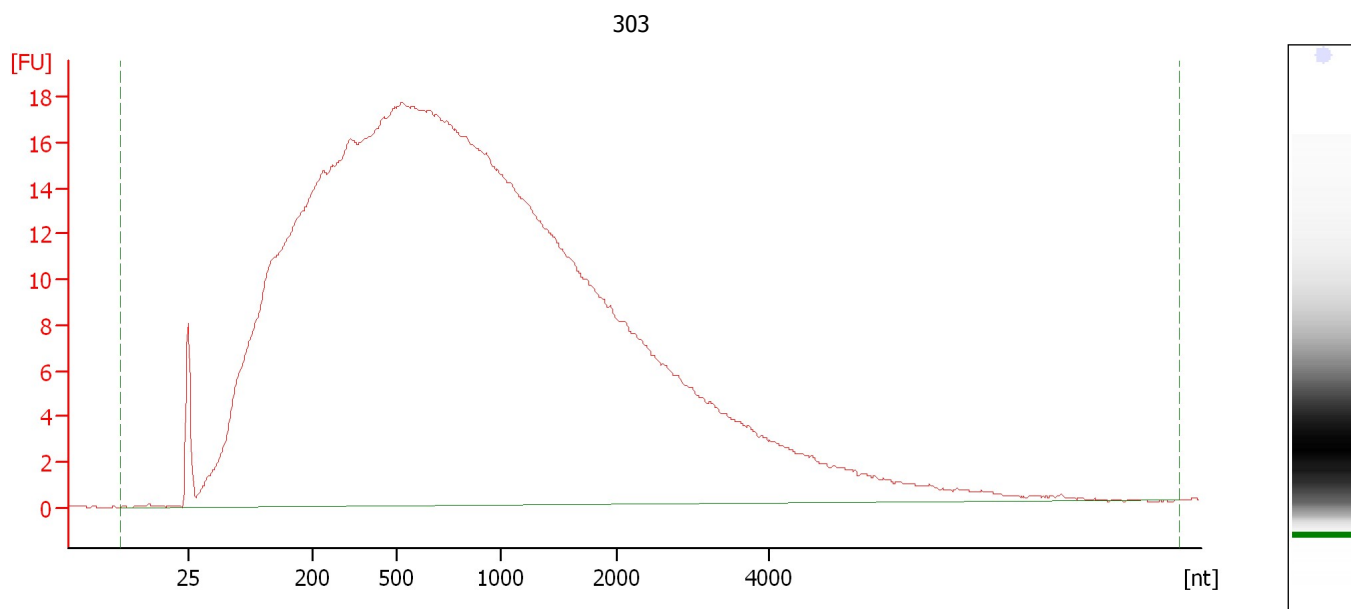
Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

Electropherogram Summary Continued ...**Overall Results for sample 9 : 302**

| | | | |
|-------------------------|-------------|-----------------------------|--|
| RNA Area: | 922.2 | RNA Integrity Number (RIN): | 1.9 (B.02.07) |
| RNA Concentration: | 2,142 pg/μl | Result Flagging Color: | <div style="background-color: #ccccff; width: 20px; height: 10px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 1.90 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

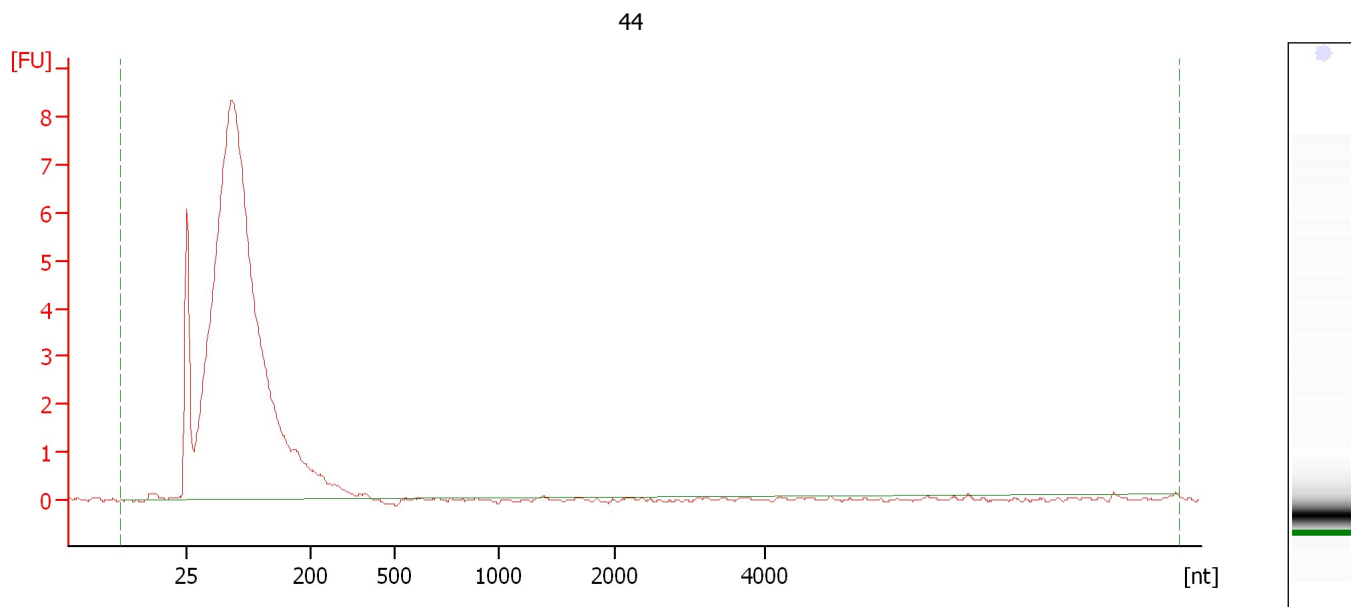
Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

Electropherogram Summary Continued ...**Overall Results for sample 10 : 303**

| | | | |
|-------------------------|-------------|-----------------------------|--|
| RNA Area: | 850.5 | RNA Integrity Number (RIN): | 1.9 (B.02.07) |
| RNA Concentration: | 1,976 pg/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: 1.90 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

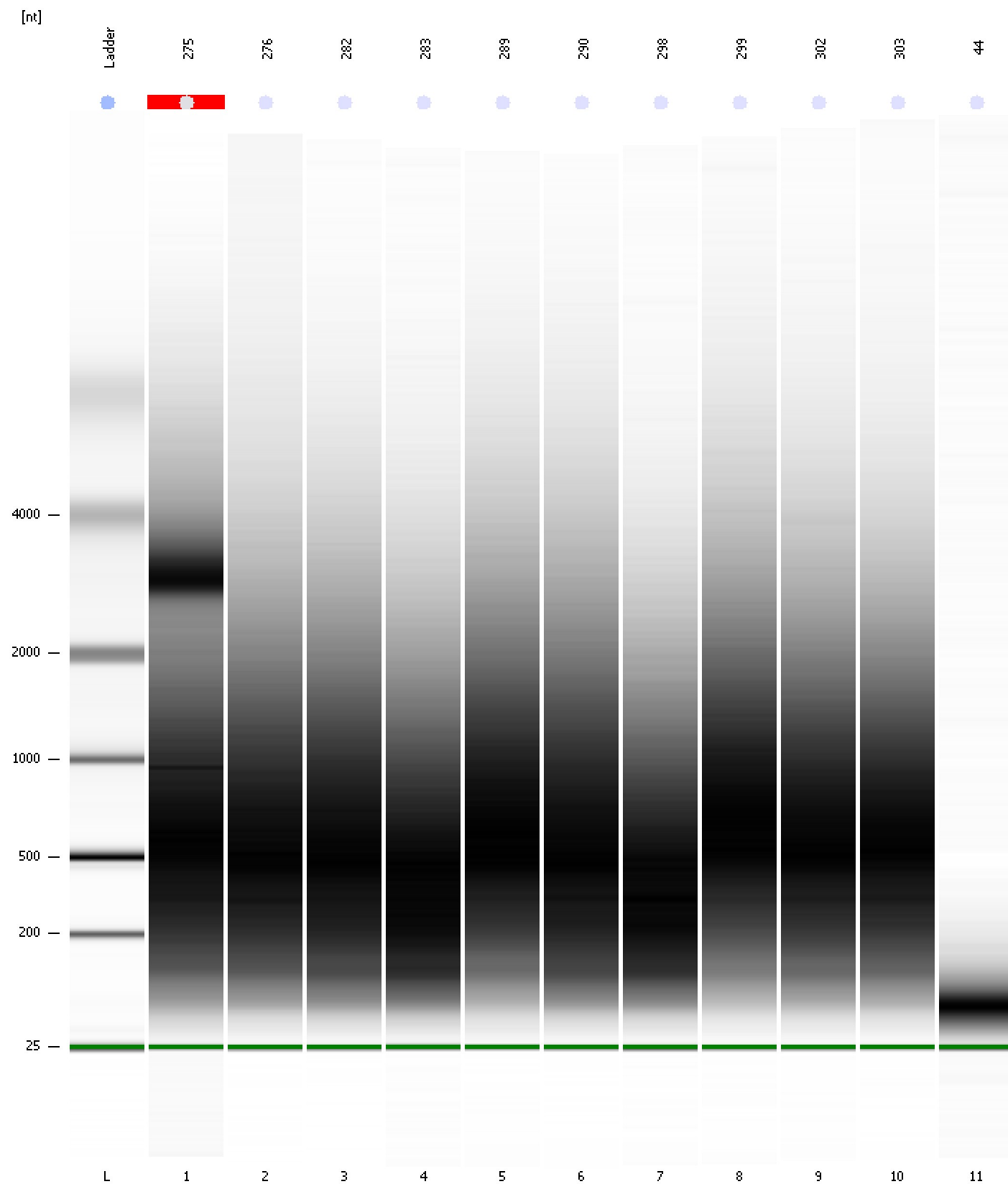
Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

Electropherogram Summary Continued ...**Overall Results for sample 11 : 44**

| | | | |
|-------------------------|-----------|-----------------------------|--|
| RNA Area: | 80.5 | RNA Integrity Number (RIN): | 2.6 (B.02.07) |
| RNA Concentration: | 187 pg/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: 2.60 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

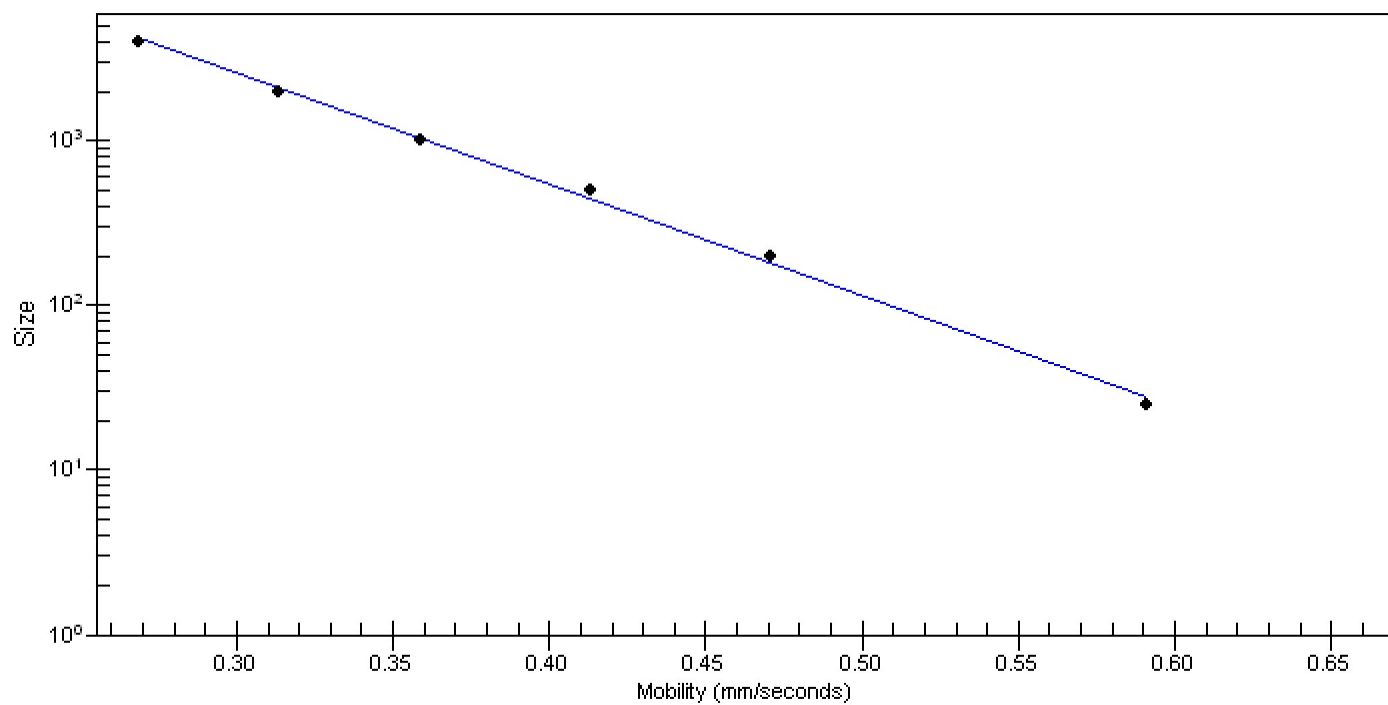
Gel Image

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...\Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

Created: 12/12/2016 6:30:34 PM
Modified: 12/12/2016 6:53:32 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad

Created: 12/12/2016 6:30:34 PM
 Modified: 12/12/2016 6:53:32 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time Stamp | Time Zone | User | Host |
|---|--------|------------|----------|--------------|-----------------------|-------------------------------------|---------------|--------------|
| Run ended on port 1 (Number of wells acquired: 12) | | Instrument | Run | | 12/12/2016 6:53:27 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2016-12-12\2100 expert_Eukaryote Total RNA Pico_DE72902486_2016-12-12_18-30-34.xad) | | Instrument | Run | | 12/12/2016 6:30:39 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Product Number : G2939A | | Instrument | Run | | 12/12/2016 6:30:39 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Name : | | Instrument | Run | | 12/12/2016 6:30:39 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Vendor : Agilent Technologies | | Instrument | Run | | 12/12/2016 6:30:39 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Serial# : DE72902486 | | Instrument | Run | | 12/12/2016 6:30:39 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Firmware : C.01.069 | | Instrument | Run | | 12/12/2016 6:30:39 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |
| Cartridge : Electrode | | Instrument | Run | | 12/12/2016 6:30:39 PM | (GMT --08:00) Pacific Standard Time | Administrator | DATASYSTEM01 |