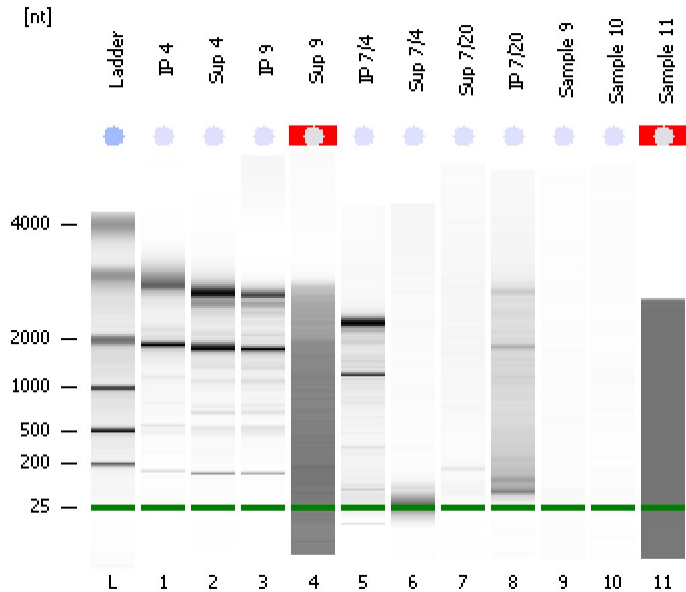


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
Modified: 9/28/2017 4:07:43 PM

Electrophoresis File Run Summary



Instrument Information:

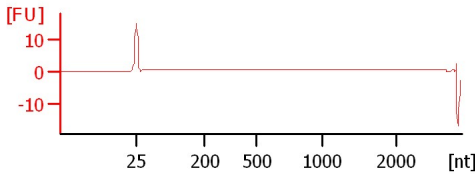
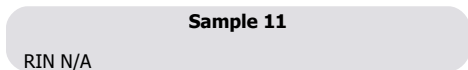
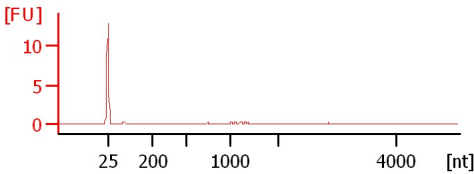
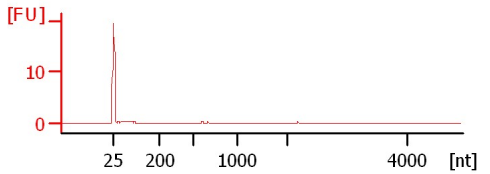
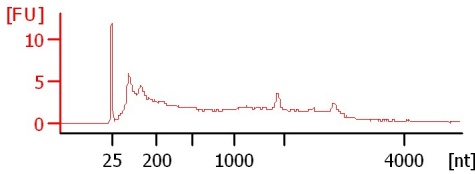
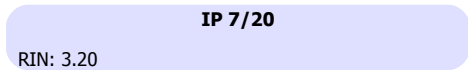
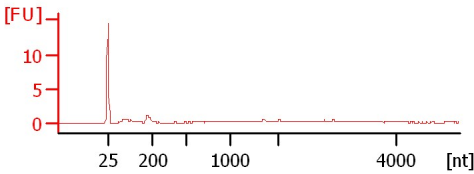
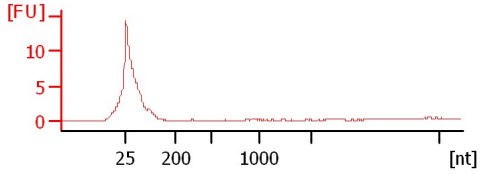
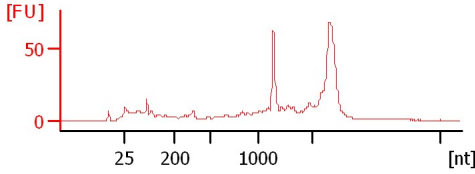
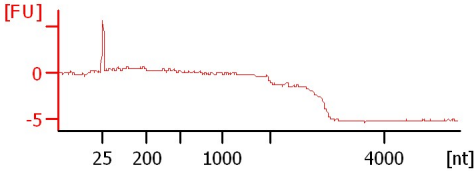
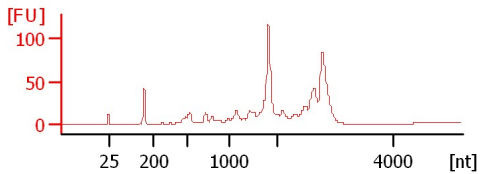
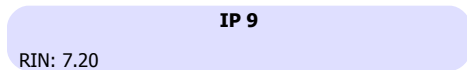
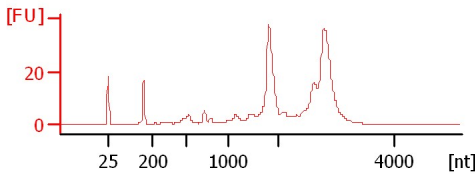
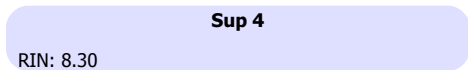
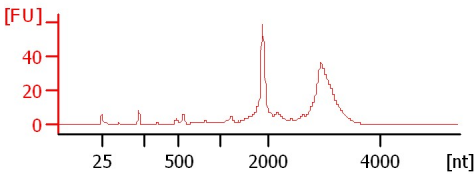
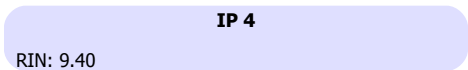
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
 Modified: 9/28/2017 4:07:43 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| IP 4 | | ✓ | RIN: 9.40 | |
| Sup 4 | | ✓ | RIN: 8.30 | |
| IP 9 | | ✓ | RIN: 7.20 | |
| Sup 9 | | ✓ | RIN N/A | |
| IP 7/4 | | ✓ | RIN: 7.70 | |
| Sup 7/4 | | ✓ | RIN: 1.40 | |
| Sup 7/20 | | ✓ | RIN: 1.10 | |
| IP 7/20 | | ✓ | RIN: 3.20 | |
| Sample 9 | | ✓ | RIN:1 | |
| Sample 10 | | ✓ | RIN:1 | |
| Sample 11 | | ✗ | RIN N/A | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
Modified: 9/28/2017 4:07:43 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] : 2
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

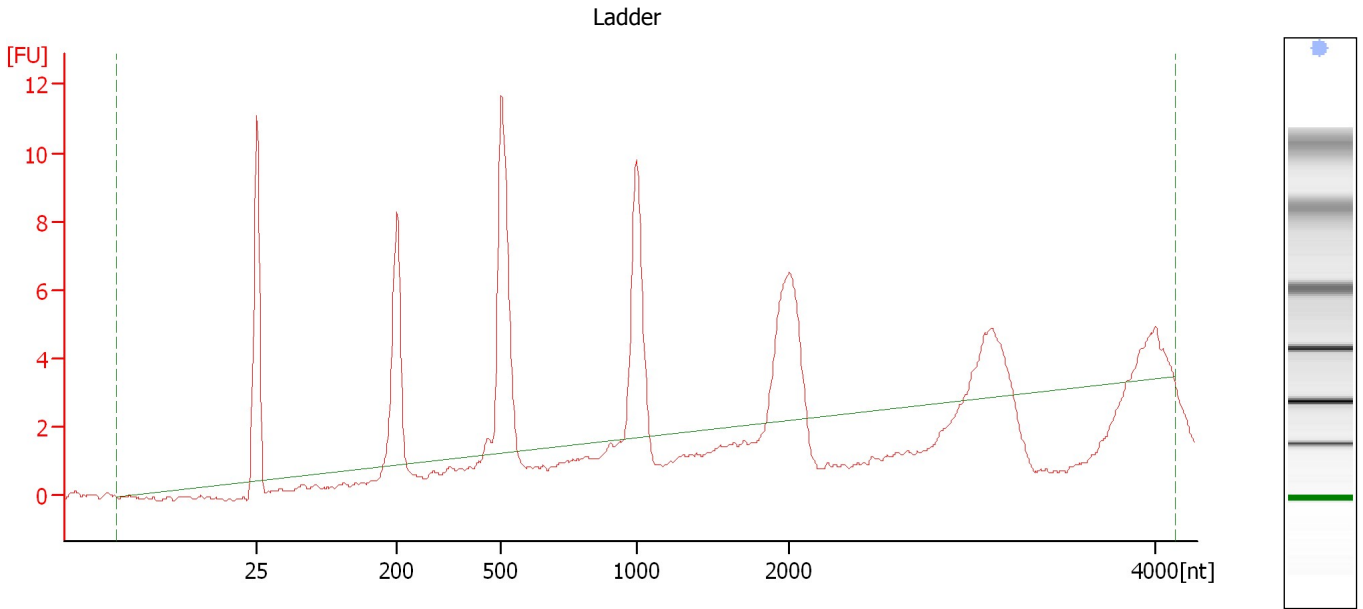
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
Modified: 9/28/2017 4:07:43 PM

Electropherogram Summary



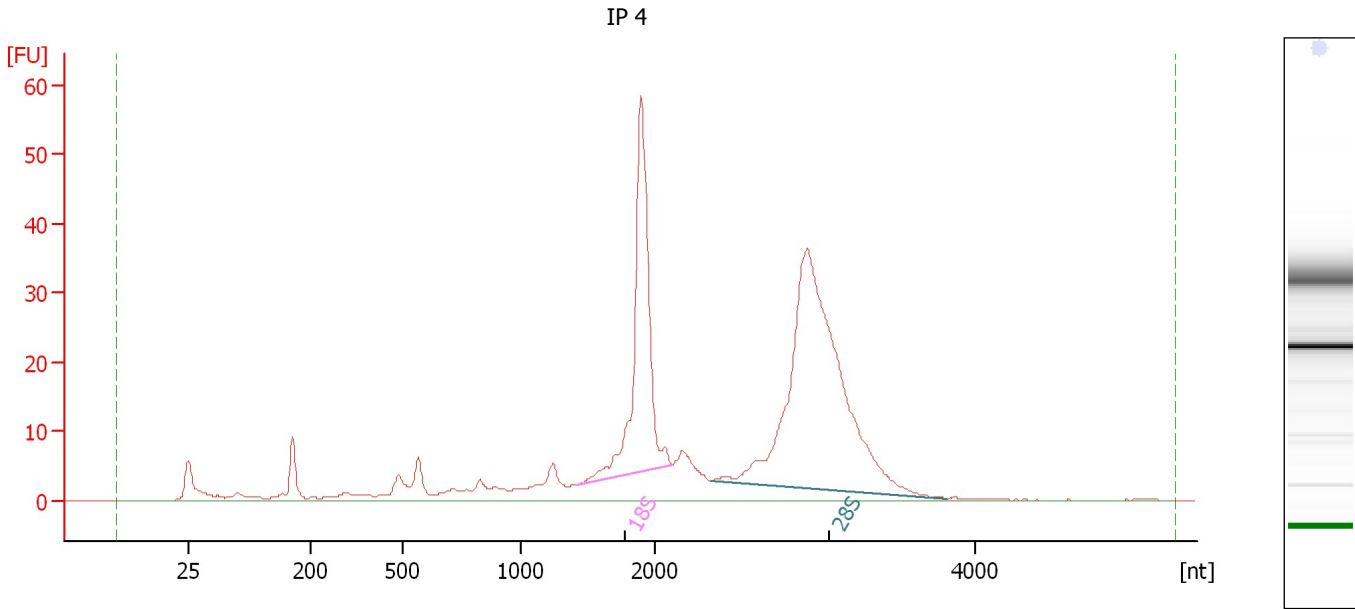
Overall Results for Ladder

| | | | |
|--------------------|-------------|------------------------|---|
| RNA Area: | 52.2 | Result Flagging Color: | |
| RNA Concentration: | 1,000 pg/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
 Modified: 9/28/2017 4:07:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : IP 4

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 453.1 | RNA Integrity Number (RIN): | 9.4 (B.02.08) |
| RNA Concentration: | 8,674 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.9 | Result Flagging Label: | RIN: 9.40 |

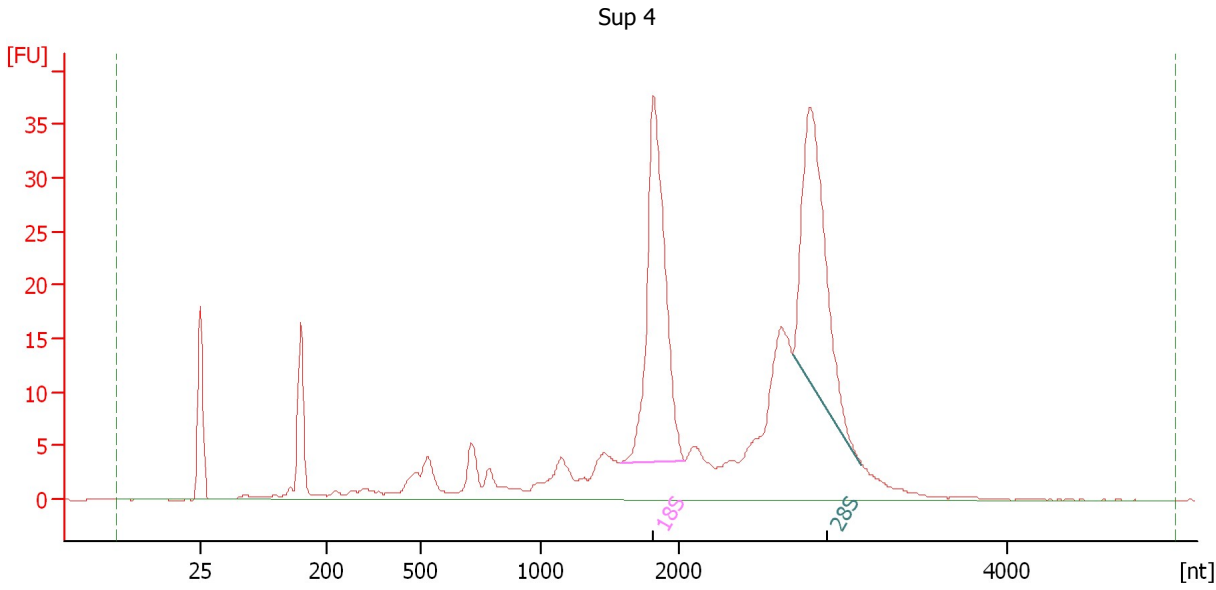
Fragment table for sample 1 : IP 4

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,419 | 2,107 | 94.4 | 20.8 |
| 28S | 2,347 | 3,821 | 178.3 | 39.3 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
Modified: 9/28/2017 4:07:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sup 4

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 375.7 | RNA Integrity Number (RIN): | 8.3 (B.02.08) |
| RNA Concentration: | 7,193 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.8 | Result Flagging Label: | RIN: 8.30 |

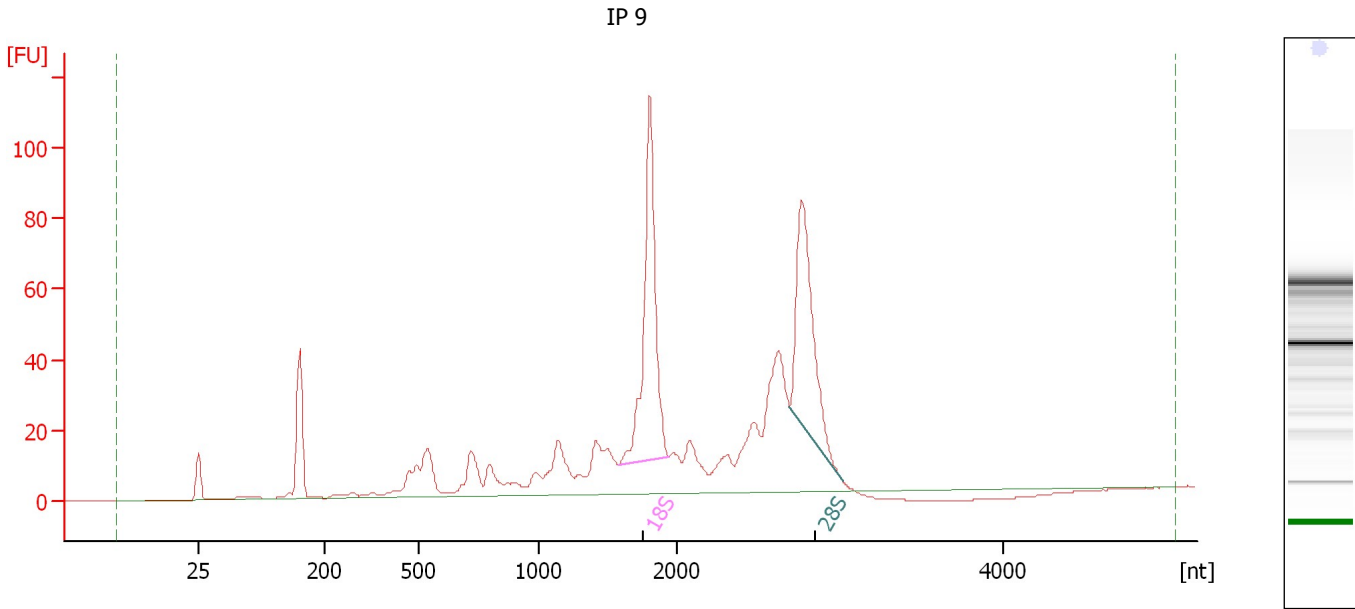
Fragment table for sample 2 : Sup 4

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,576 | 2,036 | 73.7 | 19.6 |
| 28S | 2,694 | 3,117 | 62.5 | 16.6 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
Modified: 9/28/2017 4:07:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : IP 9

| | | | |
|-------------------------|--------------|-----------------------------|---|
| RNA Area: | 787.7 | RNA Integrity Number (RIN): | 7.2 (B.02.08) |
| RNA Concentration: | 15,079 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.8 | Result Flagging Label: | RIN: 7.20 |

Fragment table for sample 3 : IP 9

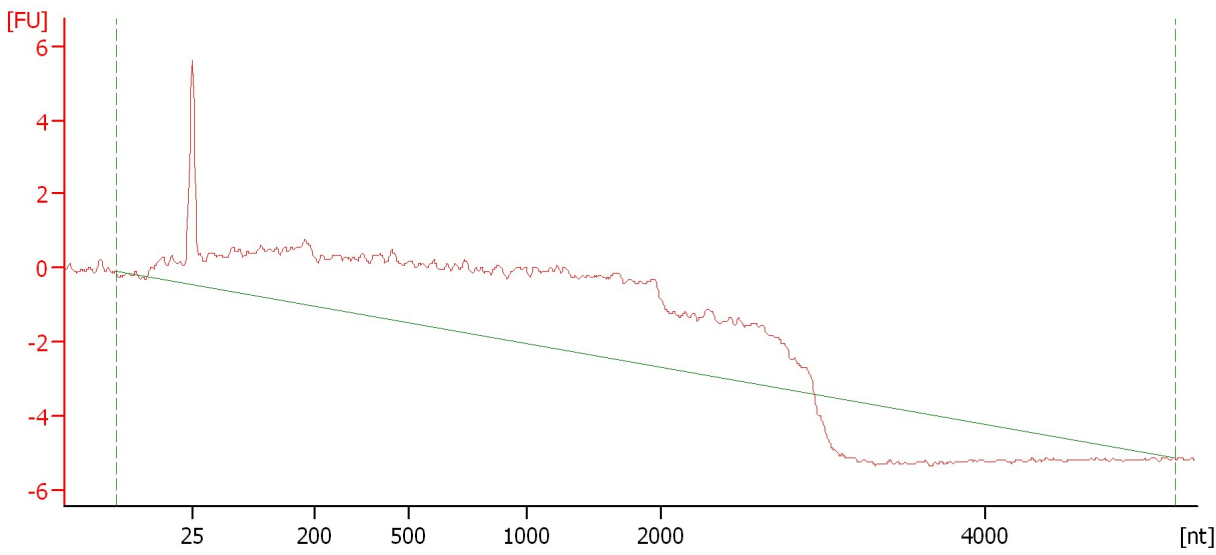
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,575 | 1,942 | 139.5 | 17.7 |
| 28S | 2,689 | 3,015 | 108.6 | 13.8 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad


Created: 9/28/2017 3:36:06 PM
Modified: 9/28/2017 4:07:43 PM

Electropherogram Summary Continued ...

Sup 9



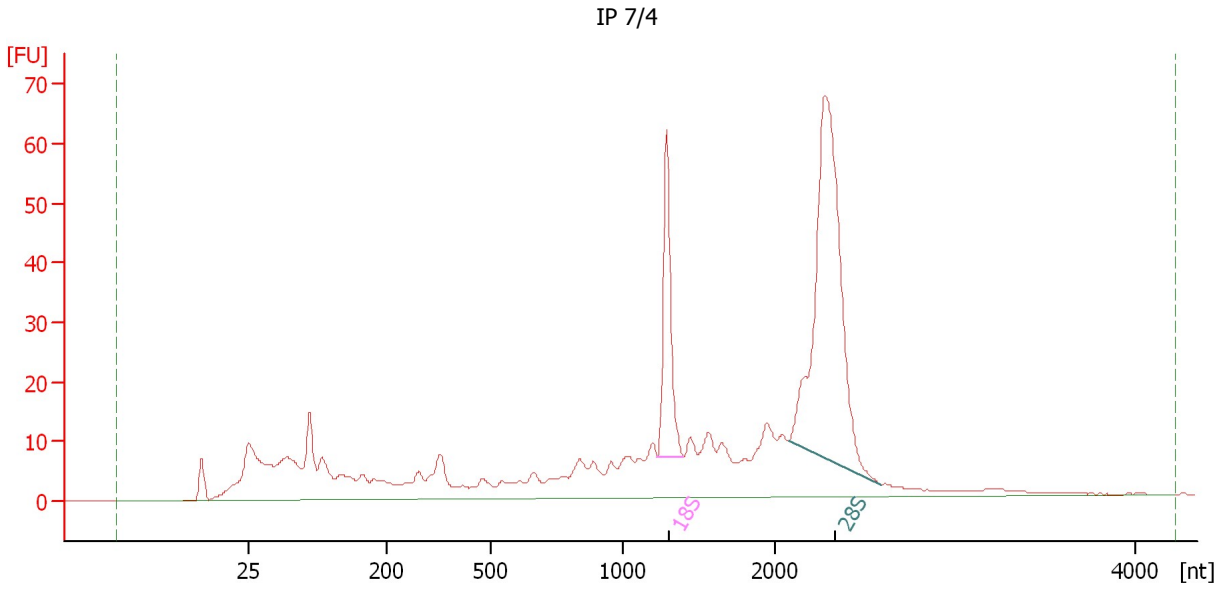
Overall Results for sample 4 : Sup 9

| | | | |
|-------------------------|-------------|-----------------------------|--|
| RNA Area: | 130.7 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 2,503 pg/μl | Result Flagging Color: |  |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN N/A |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
 Modified: 9/28/2017 4:07:43 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : IP 7/4

Height Threshold [FU] : 0.3 Width Threshold [s] : 0.5
 Area Threshold : 3

Overall Results for sample 5 : IP 7/4

RNA Area: 608.7 RNA Integrity Number (RIN): 7.7 (B.02.08)
 RNA Concentration: 11,653 pg/μl Result Flagging Color:
 rRNA Ratio [28s / 18s]: 3.2 Result Flagging Label: RIN: 7.70

Fragment table for sample 5 : IP 7/4

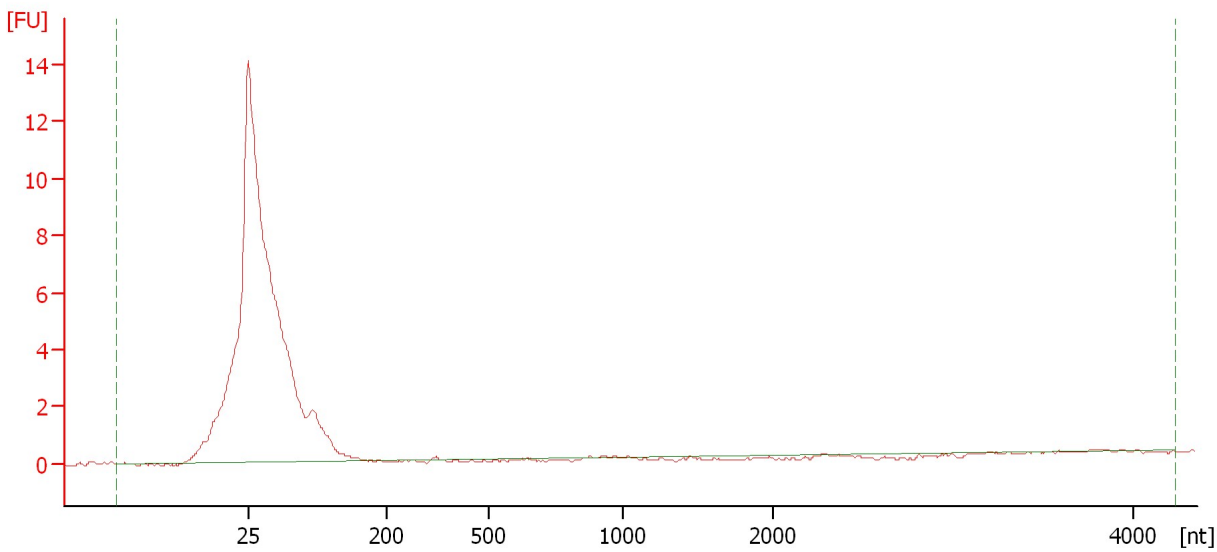
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,225 | 1,395 | 49.2 | 8.1 |
| 28S | 2,075 | 2,590 | 159.3 | 26.2 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
Modified: 9/28/2017 4:07:43 PM

Electropherogram Summary Continued ...

Sup 7/4



Overall Results for sample 6 : Sup 7/4

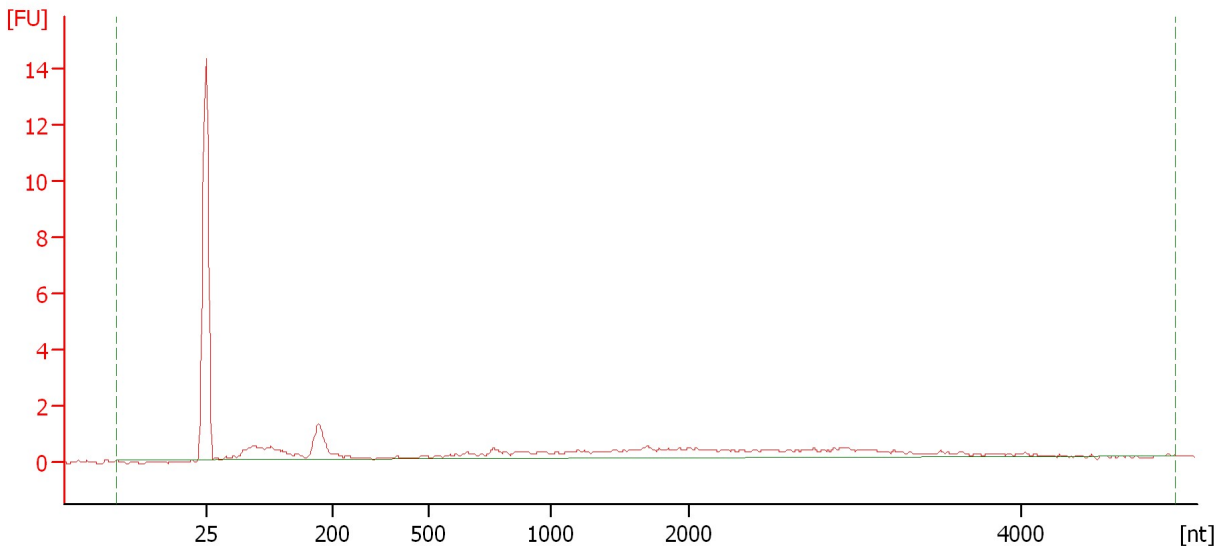
| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 9.5 | RNA Integrity Number (RIN): | 1.4 (B.02.08) |
| RNA Concentration: | 183 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 1.40 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
Modified: 9/28/2017 4:07:43 PM

Electropherogram Summary Continued ...

Sup 7/20



Overall Results for sample 7 : Sup 7/20

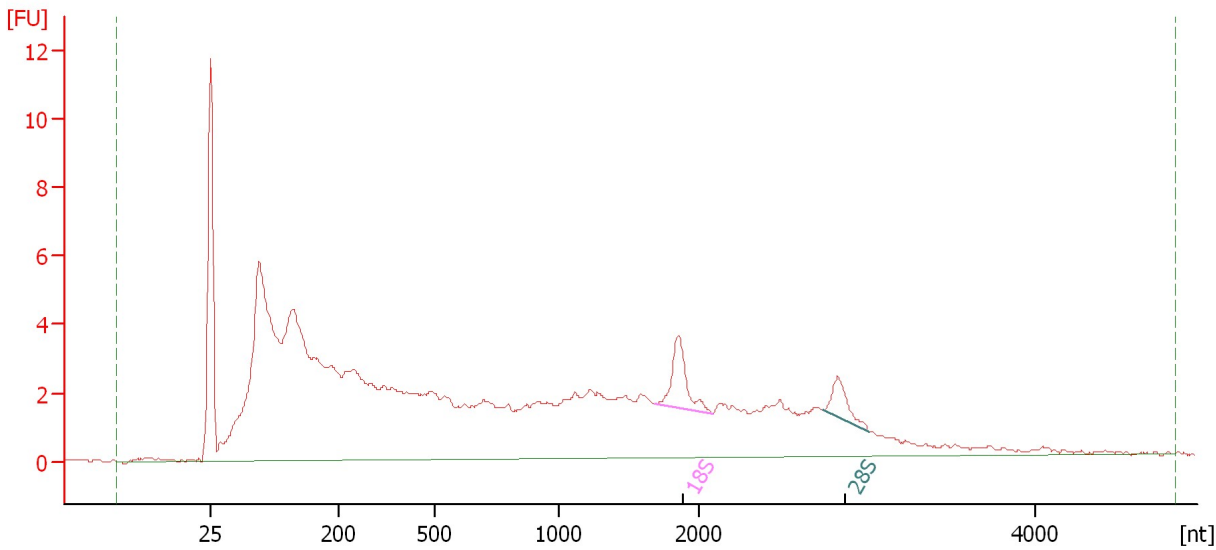
| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 18.1 | RNA Integrity Number (RIN): | 1.1 (B.02.08) |
| RNA Concentration: | 347 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 1.10 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
Modified: 9/28/2017 4:07:43 PM

Electropherogram Summary Continued ...

IP 7/20



Overall Results for sample 8 : IP 7/20

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 174.1 | RNA Integrity Number (RIN): | 3.2 (B.02.08) |
| RNA Concentration: | 3,334 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.5 | Result Flagging Label: | RIN: 3.20 |

Fragment table for sample 8 : IP 7/20

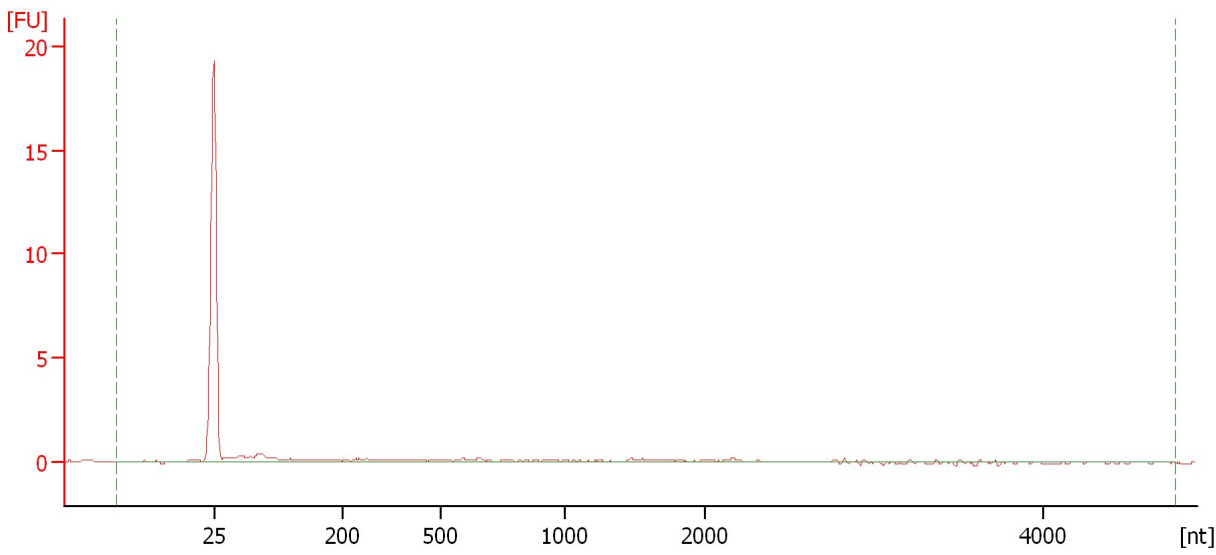
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,680 | 2,077 | 3.5 | 2.0 |
| 28S | 2,733 | 3,014 | 1.9 | 1.1 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
Modified: 9/28/2017 4:07:43 PM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

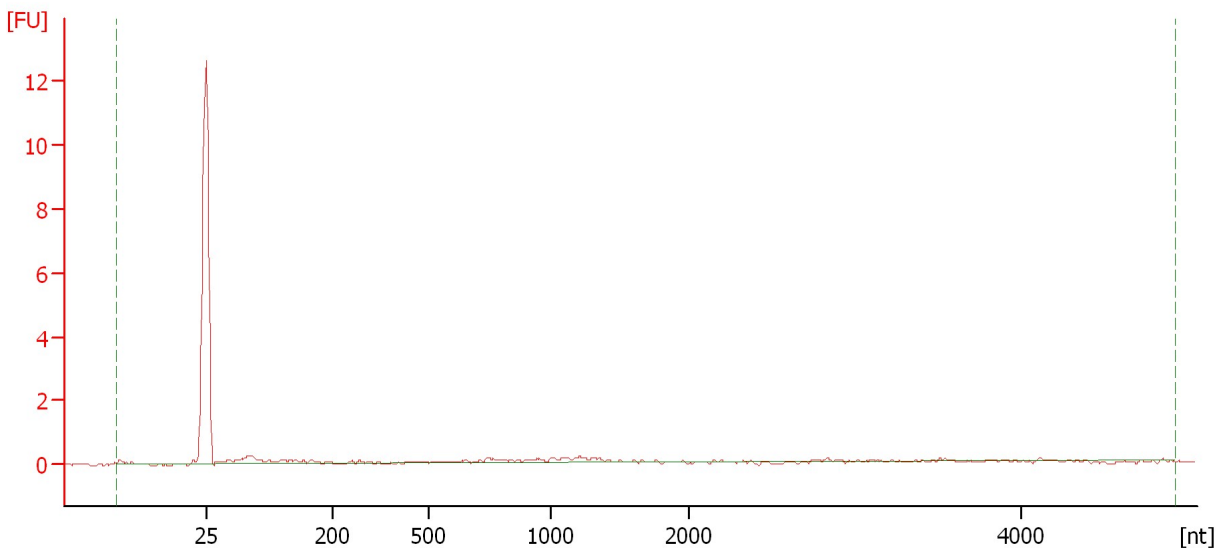
| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 8.7 | RNA Integrity Number (RIN): | 1 (B.02.08) |
| RNA Concentration: | 167 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN:1 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
Modified: 9/28/2017 4:07:43 PM

Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

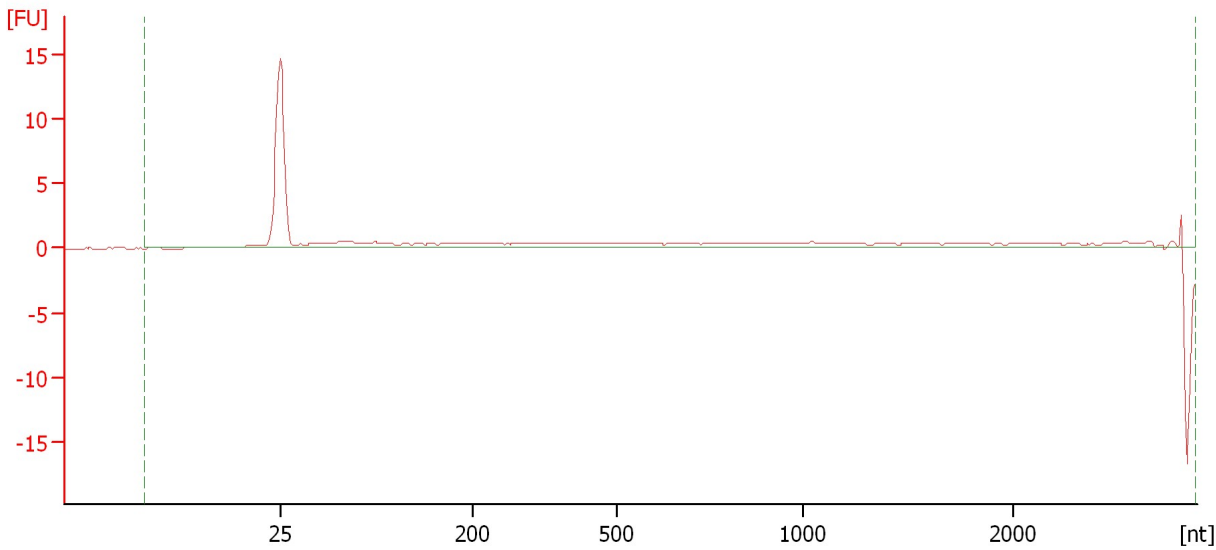
| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 4.2 | RNA Integrity Number (RIN): | 1 (B.02.08) |
| RNA Concentration: | 81 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN:1 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
Modified: 9/28/2017 4:07:43 PM

Electropherogram Summary Continued ...

Sample 11



Setpoint Deviations for sample 11 : Sample 11

End Analysis Time Range [s] : 52

Overall Results for sample 11 : Sample 11

| | | | |
|-------------------------|-----------|-----------------------------|--------------------------|
| RNA Area: | 27.8 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 531 pg/μl | Result Flagging Color: | <input type="checkbox"/> |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN N/A |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-28\2017-09-28_002.xad

Created: 9/28/2017 3:36:06 PM
Modified: 9/28/2017 4:07:43 PM

Gel Image

