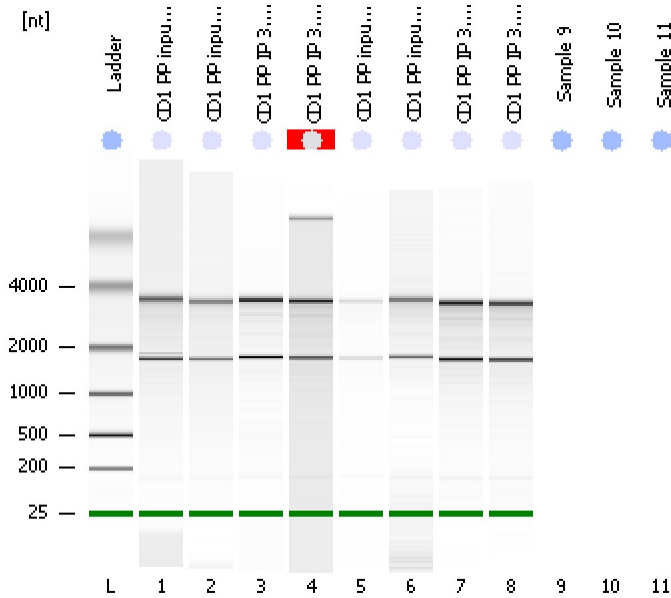


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
Modified: 4/1/2019 2:09:08 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

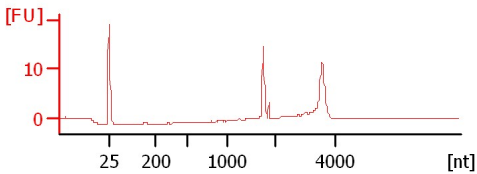
Assay Information:

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.

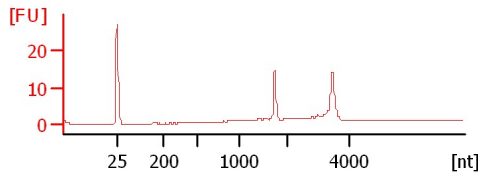
Chip Information:

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

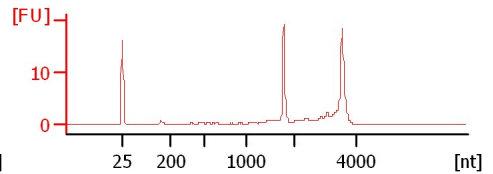
CD1 PP input 3.19.19
RIN: 9.40



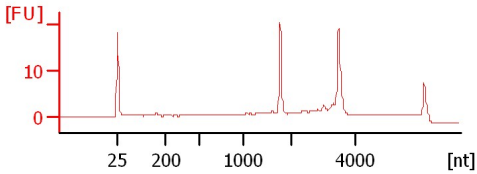
CD1 PP input 3.19.19
RIN: 8.60



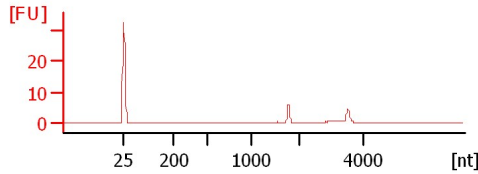
CD1 PP IP 3.19.19
RIN: 9.30



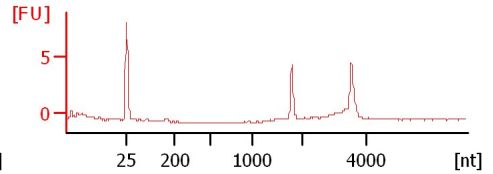
CD1 PP IP 3.19.19
RIN N/A



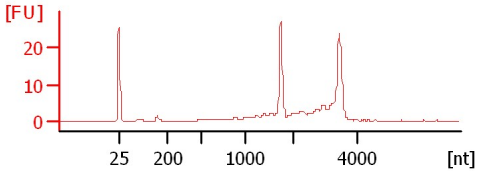
CD1 PP input 3.28.19
RIN: 8.80



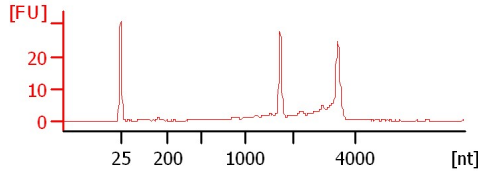
CD1 PP input 3.28.19
RIN: 10



CD1 PP IP 3.28.19
RIN: 8.60



CD1 PP IP 3.28.19
RIN: 8.40



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
 Modified: 4/1/2019 2:09:08 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|----------------------|----------------|--------|-------------------|--------------|
| CD1 PP input 3.19.19 | | ✓ | RIN: 9.40 | |
| CD1 PP input 3.19.19 | | ✓ | RIN: 8.60 | |
| CD1 PP IP 3.19.19 | | ✓ | RIN: 9.30 | |
| CD1 PP IP 3.19.19 | | ✓ | RIN N/A | |
| CD1 PP input 3.28.19 | | ✓ | RIN: 8.80 | |
| CD1 PP input 3.28.19 | | ✓ | RIN:10 | |
| CD1 PP IP 3.28.19 | | ✓ | RIN: 8.60 | |
| CD1 PP IP 3.28.19 | | ✓ | RIN: 8.40 | |
| Sample 9 | | | | |
| Sample 10 | | | | |
| Sample 11 | | | | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
Modified: 4/1/2019 2:09:08 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/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/μl] : 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

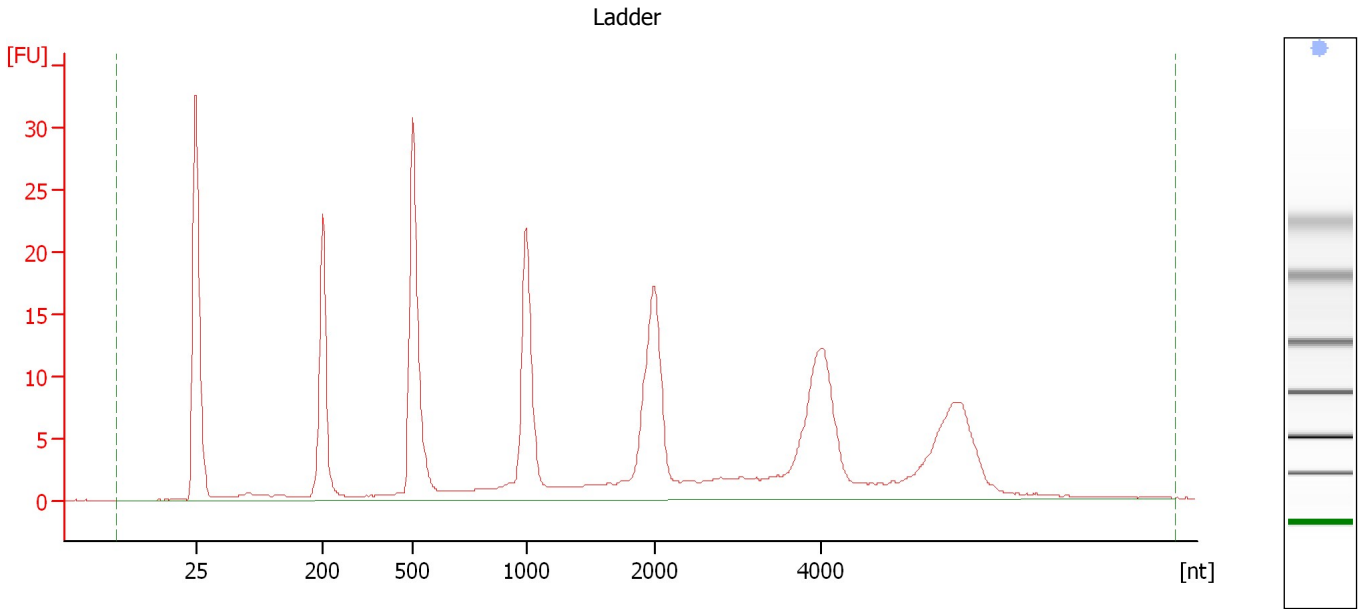
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
Modified: 4/1/2019 2:09:08 PM

Electropherogram Summary



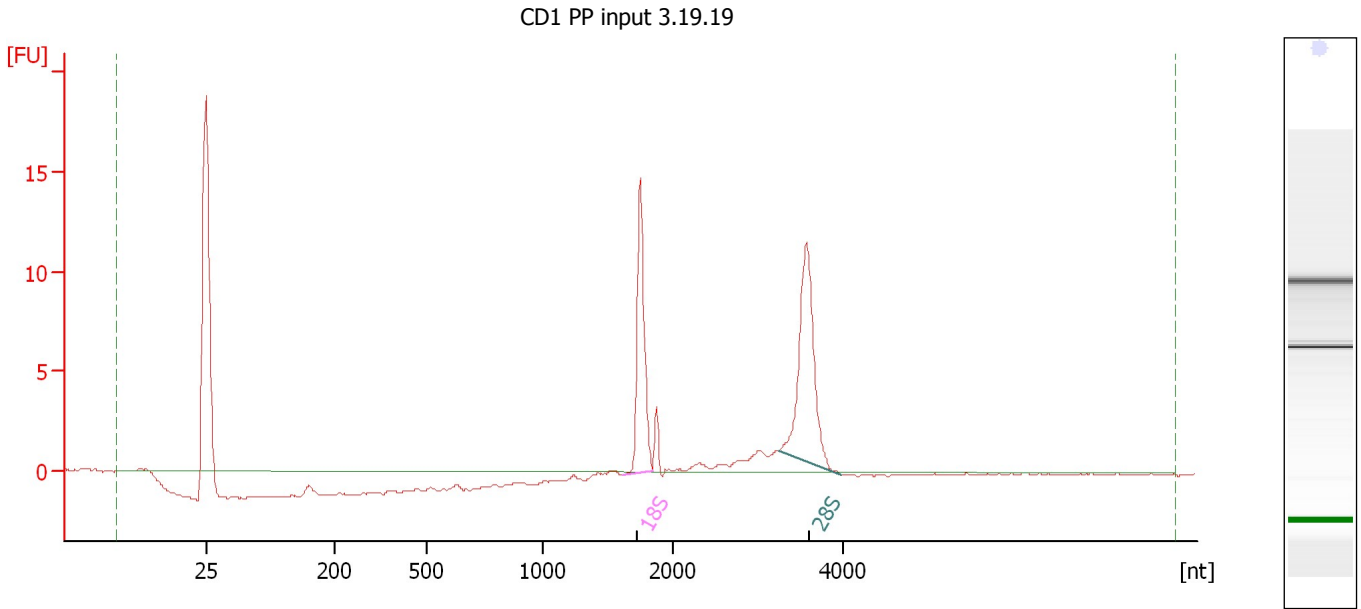
Overall Results for Ladder

| | | | |
|--------------------|-------------|------------------------|---|
| RNA Area: | 268.4 | 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\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
Modified: 4/1/2019 2:09:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : CD1 PP input 3.19.19

RNA Area: 39.4 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 147 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 9.40

Fragment table for sample 1 : CD1 PP input 3.19.19

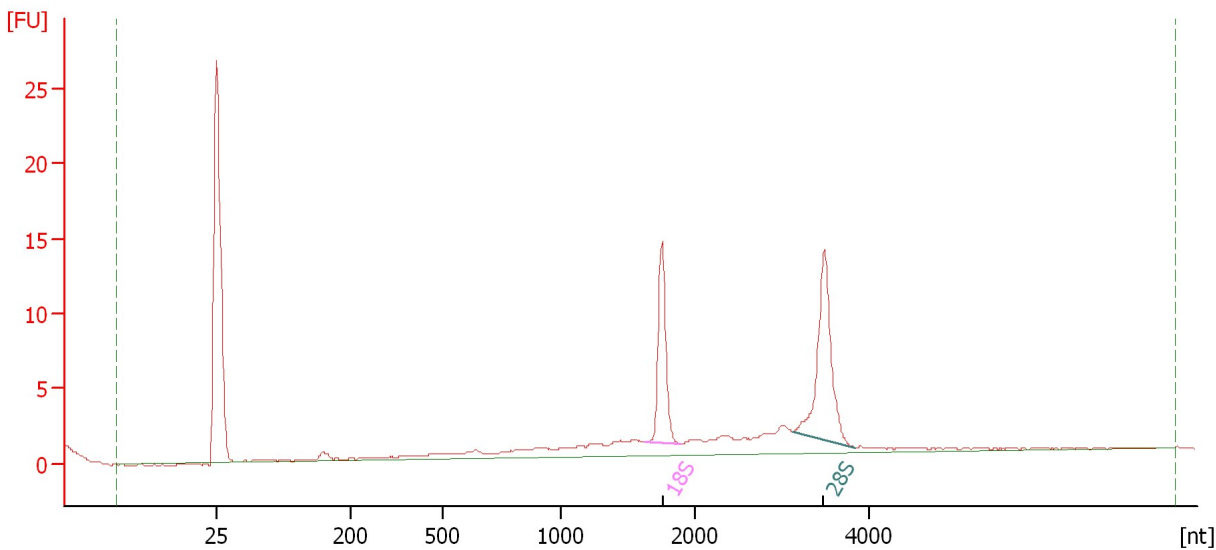
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,621 | 1,842 | 12.7 | 32.4 |
| 28S | 3,241 | 3,983 | 16.8 | 42.6 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
Modified: 4/1/2019 2:09:08 PM

Electropherogram Summary Continued ...

CD1 PP input 3.19.19



Overall Results for sample 2 : CD1 PP input 3.19.19

RNA Area: 75.0 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 279 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.60

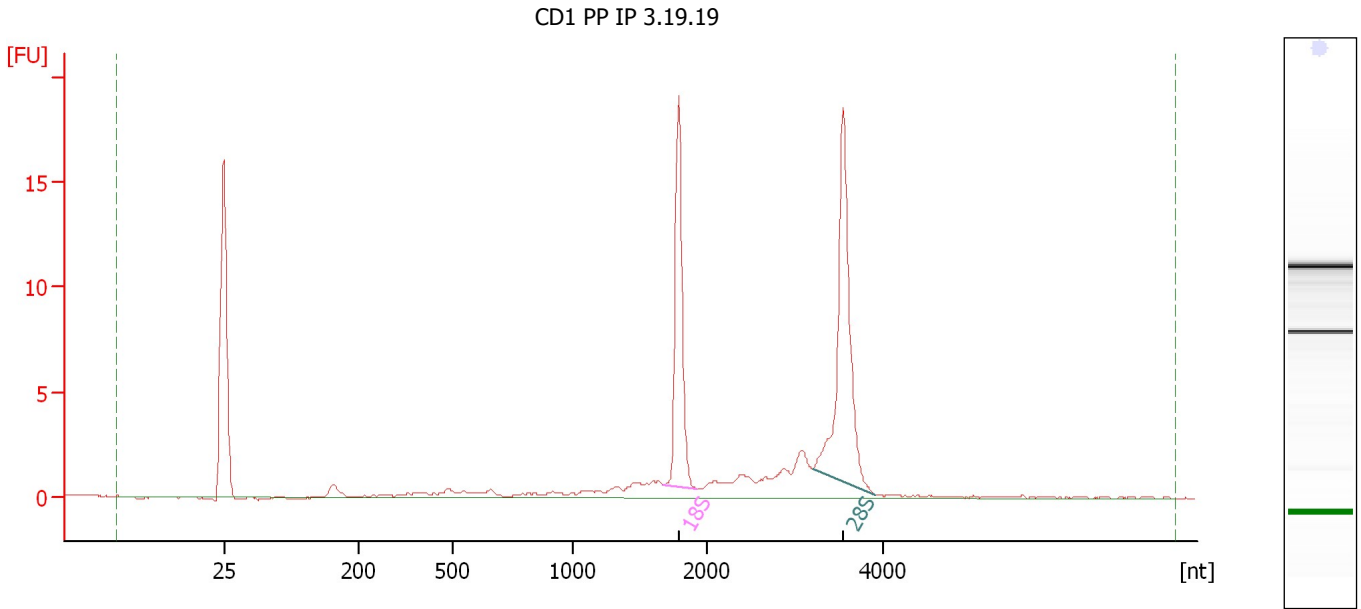
Fragment table for sample 2 : CD1 PP input 3.19.19

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,620 | 1,892 | 11.7 | 15.6 |
| 28S | 3,124 | 3,825 | 17.5 | 23.4 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
Modified: 4/1/2019 2:09:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : CD1 PP IP 3.19.19

RNA Area: 65.5 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 244 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.30

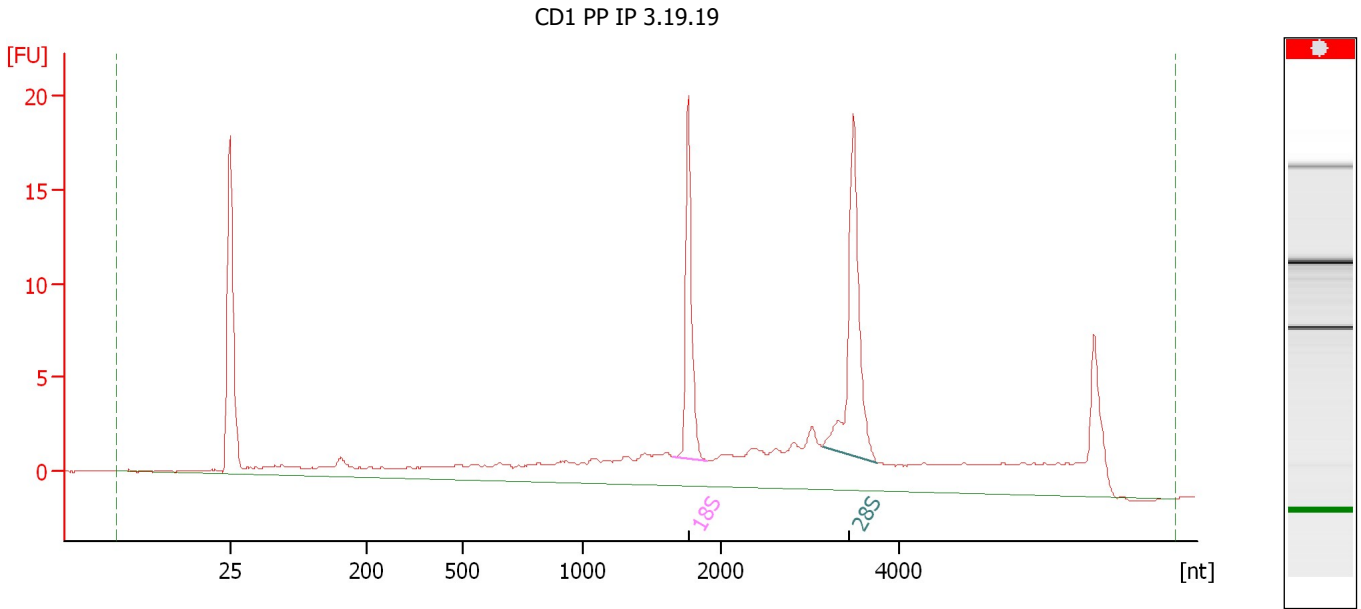
Fragment table for sample 3 : CD1 PP IP 3.19.19

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,668 | 1,920 | 14.8 | 22.6 |
| 28S | 3,189 | 3,893 | 21.5 | 32.9 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
Modified: 4/1/2019 2:09:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : CD1 PP IP 3.19.19

RNA Area: 148.8 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 554 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN N/A

Fragment table for sample 4 : CD1 PP IP 3.19.19

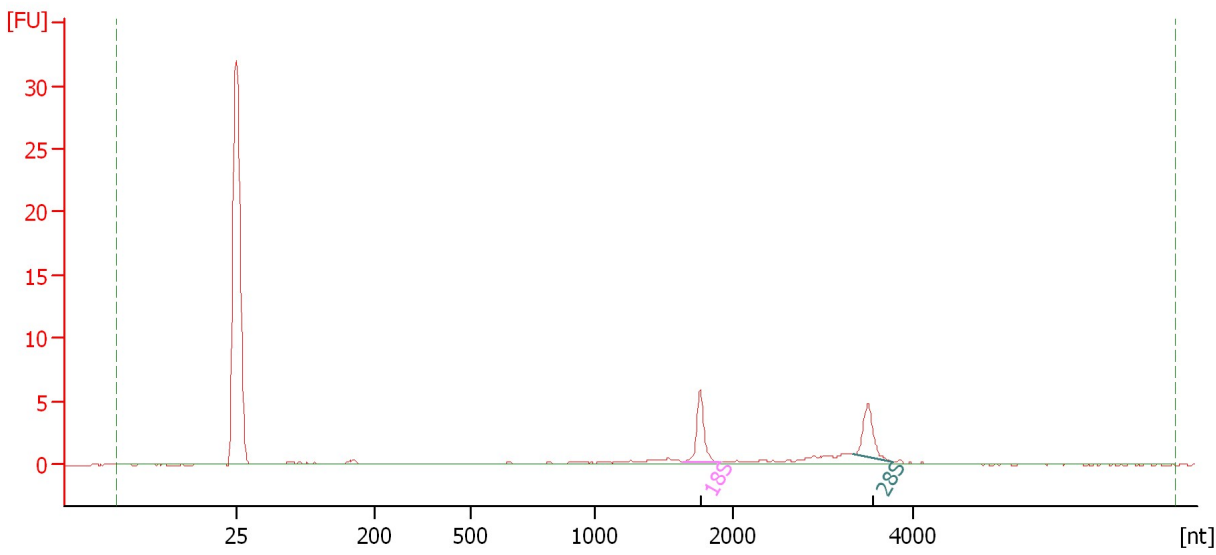
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,660 | 1,909 | 13.4 | 9.0 |
| 28S | 3,144 | 3,767 | 18.7 | 12.6 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
Modified: 4/1/2019 2:09:08 PM

Electropherogram Summary Continued ...

CD1 PP input 3.28.19



Overall Results for sample 5 : CD1 PP input 3.28.19

RNA Area: 23.3 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 87 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 8.80

Fragment table for sample 5 : CD1 PP input 3.28.19

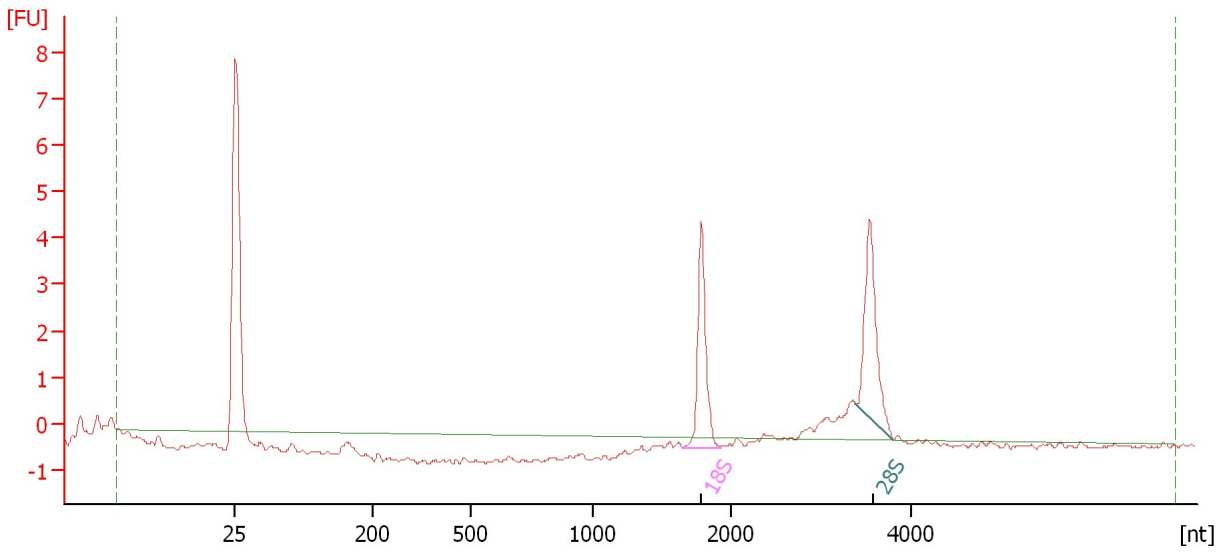
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,644 | 1,898 | 5.1 | 21.8 |
| 28S | 3,337 | 3,787 | 4.0 | 17.4 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
Modified: 4/1/2019 2:09:08 PM

Electropherogram Summary Continued ...

CD1 PP input 3.28.19



Overall Results for sample 6 : CD1 PP input 3.28.19

RNA Area: 12.3 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 46 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN:10

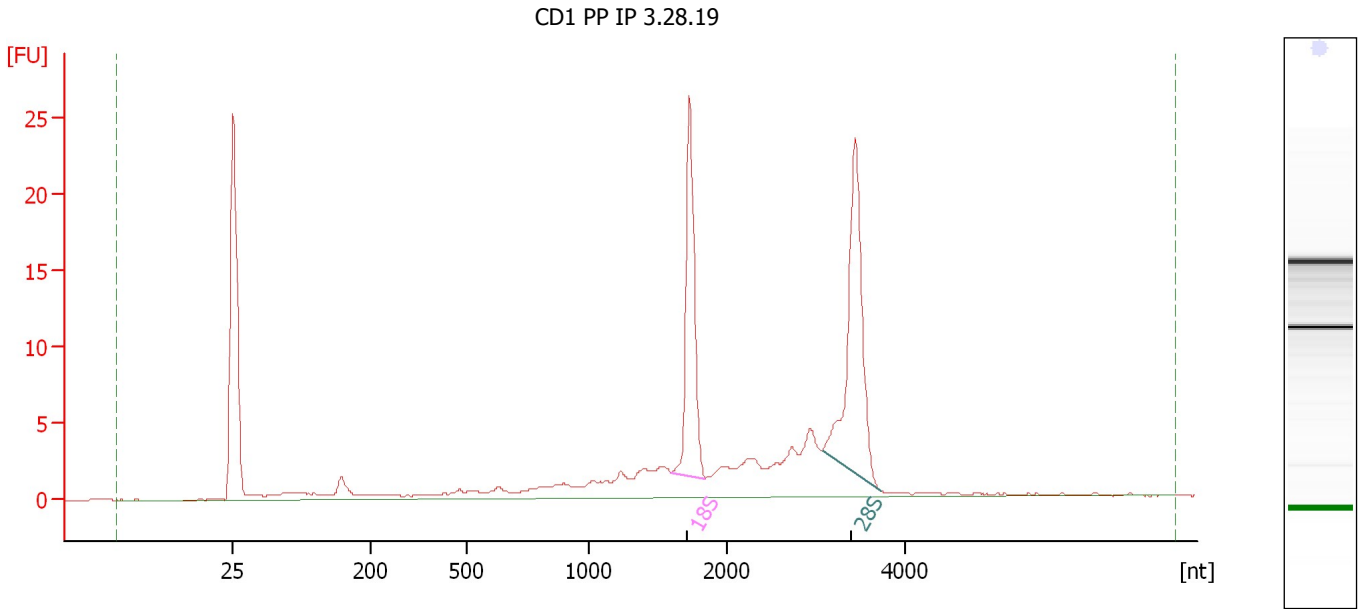
Fragment table for sample 6 : CD1 PP input 3.28.19

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,651 | 1,928 | 4.5 | 36.6 |
| 28S | 3,386 | 3,814 | 4.8 | 38.6 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
Modified: 4/1/2019 2:09:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CD1 PP IP 3.28.19

RNA Area: 129.6 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 483 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 8.60

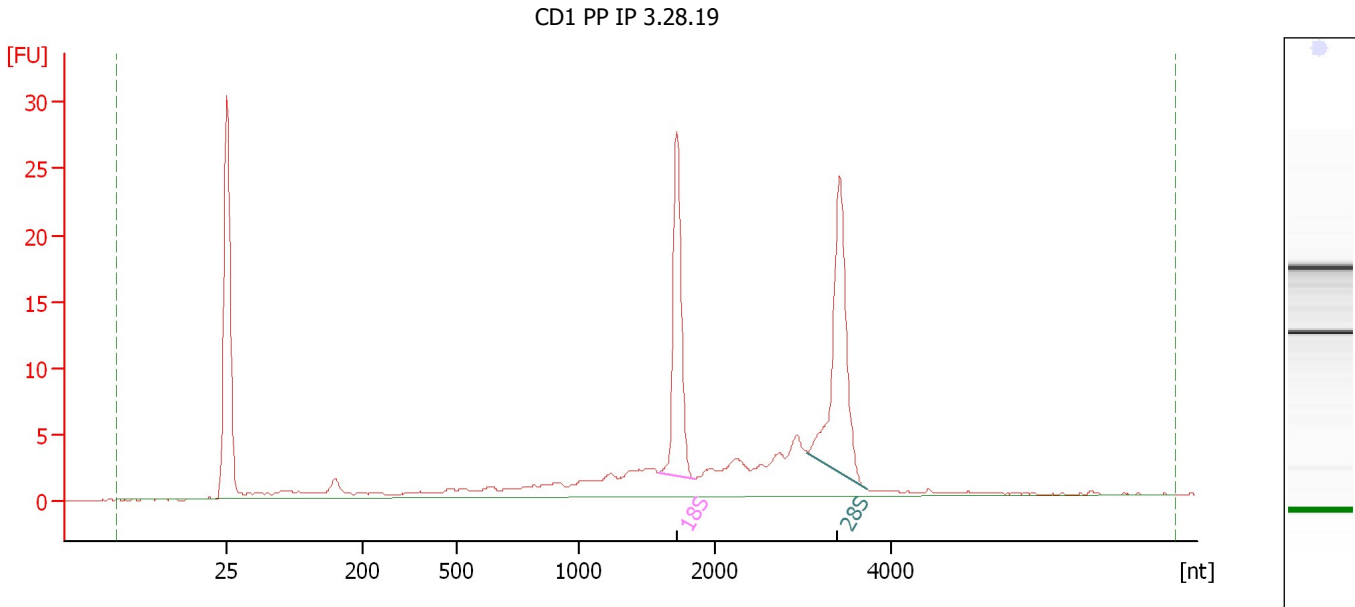
Fragment table for sample 7 : CD1 PP IP 3.28.19

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,602 | 1,849 | 23.3 | 18.0 |
| 28S | 3,068 | 3,724 | 30.5 | 23.5 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
Modified: 4/1/2019 2:09:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : CD1 PP IP 3.28.19

RNA Area: 145.2 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 541 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 8.40

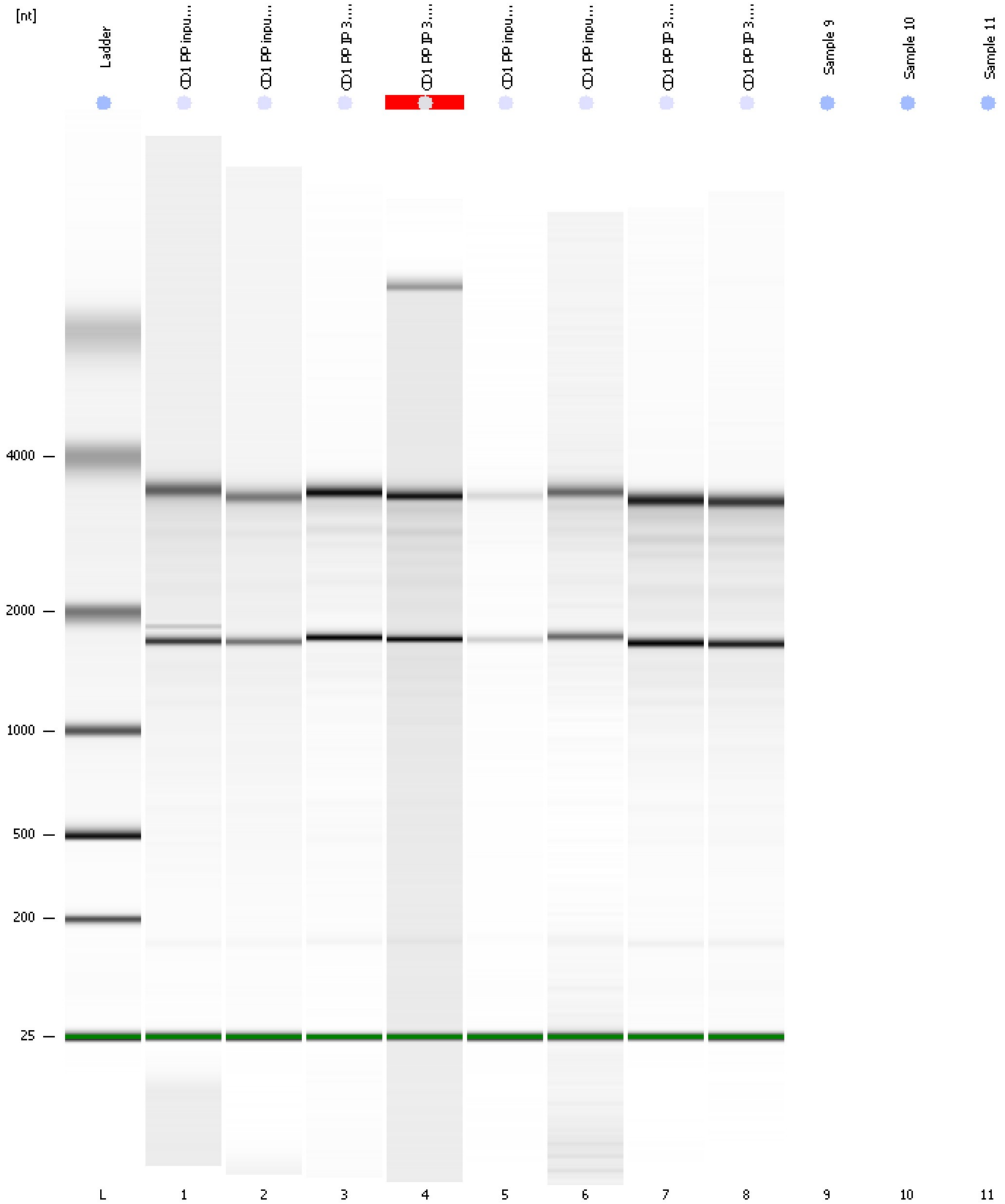
Fragment table for sample 8 : CD1 PP IP 3.28.19

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,593 | 1,852 | 24.3 | 16.7 |
| 28S | 3,052 | 3,715 | 30.8 | 21.2 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
Modified: 4/1/2019 2:09:08 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad

Created: 4/1/2019 1:50:25 PM
Modified: 4/1/2019 2:09:08 PM

Invalid Samples

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.

Assay Class: Eukaryote Total RNA Pico Created: 4/1/2019 1:50:25 PM
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad Modified: 4/1/2019 2:09:08 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|--|--------|------------|----------|--------------|---------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 9) | | Instrument | Run | | 4/1/2019 2:09:02 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-04-01\2019-04-01_001.xad) | | Instrument | Run | | 4/1/2019 1:50:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938C | | Instrument | Run | | 4/1/2019 1:50:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 4/1/2019 1:50:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 4/1/2019 1:50:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE34903152 | | Instrument | Run | | 4/1/2019 1:50:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 4/1/2019 1:50:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 4/1/2019 1:50:30 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |