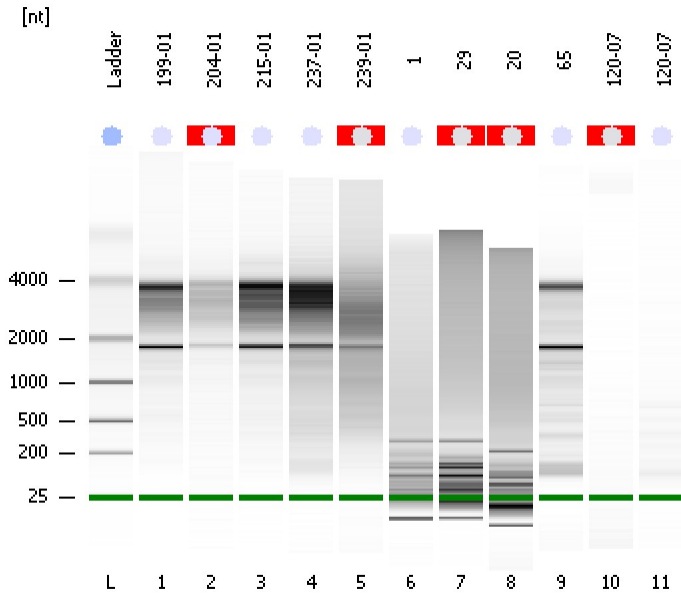


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
Modified: 7/8/2013 10:47:06 AM

Electrophoresis File Run Summary



Instrument Information:

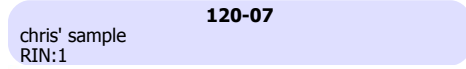
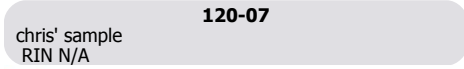
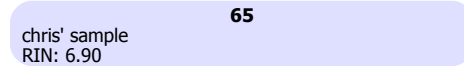
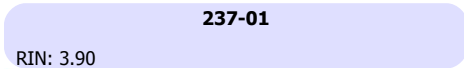
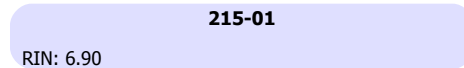
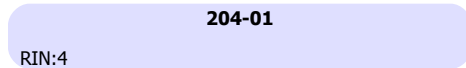
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
 Modified: 7/8/2013 10:47:06 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| 199-01 | | ✓ | RIN: 7.60 | |
| 204-01 | | ✓ | RIN:4 | |
| 215-01 | | ✓ | RIN: 6.90 | |
| 237-01 | | ✓ | RIN: 3.90 | |
| 239-01 | | ✓ | RIN N/A | |
| 1 | chris' sample | ✓ | RIN: 2.40 | |
| 29 | chris' sample | ✓ | RIN N/A | |
| 20 | chris' sample | ✓ | RIN N/A | |
| 65 | chris' sample | ✓ | RIN: 6.90 | |
| 120-07 | chris' sample | ✓ | RIN N/A | |
| 120-07 | chris' sample | ✓ | RIN:1 | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
Modified: 7/8/2013 10:47:06 AM

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

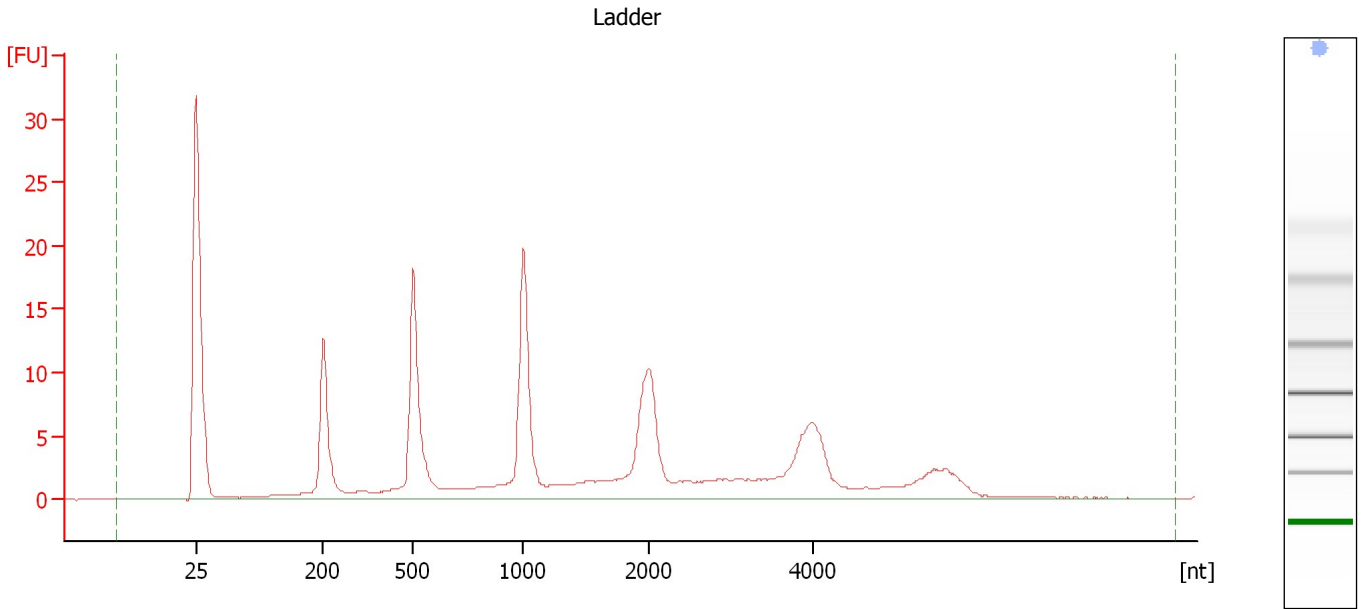
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
Modified: 7/8/2013 10:47:06 AM

Electropherogram Summary



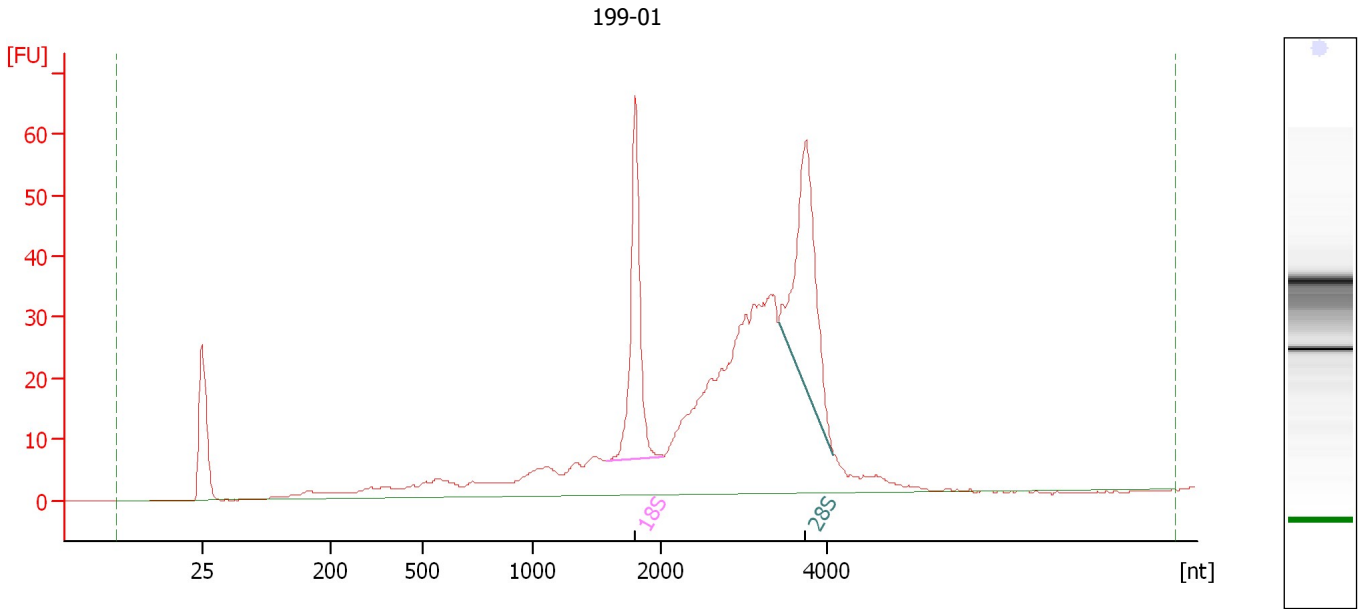
Overall Results for Ladder

| | | | |
|--------------------|-------------|------------------------|---|
| RNA Area: | 177.8 | Result Flagging Color: | |
| RNA Concentration: | 1,000 pg/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
Modified: 7/8/2013 10:47:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 199-01

RNA Area: 622.8 RNA Integrity Number (RIN): 7.6 (B.02.08)
RNA Concentration: 3,504 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 7.60

Fragment table for sample 1 : 199-01

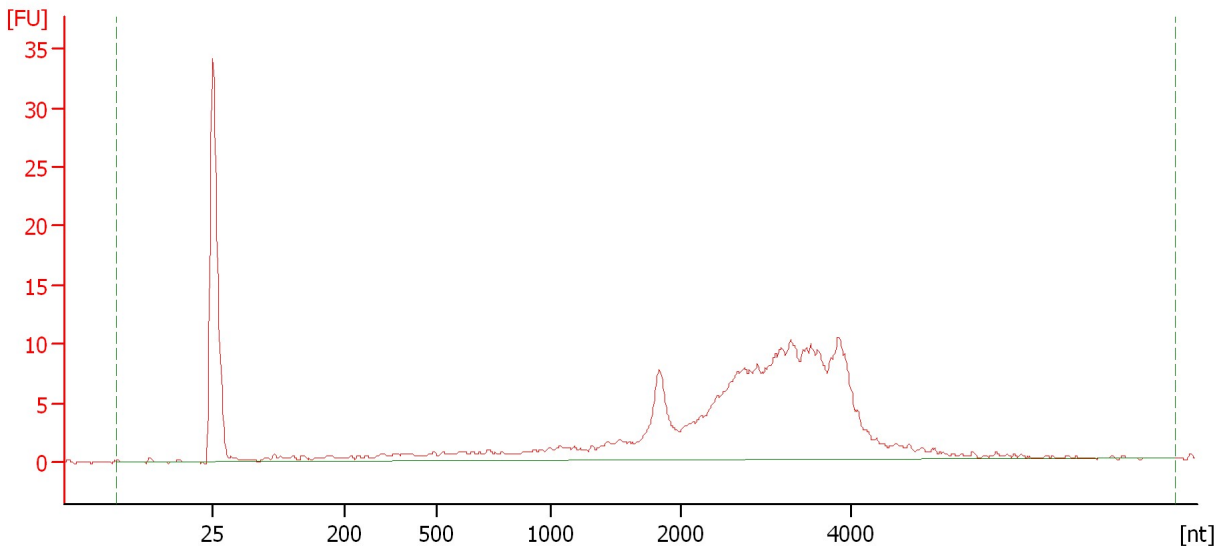
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,582 | 2,032 | 67.8 | 10.9 |
| 28S | 3,417 | 4,083 | 81.1 | 13.0 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
Modified: 7/8/2013 10:47:06 AM

Electropherogram Summary Continued ...

204-01



Overall Results for sample 2 : 204-01

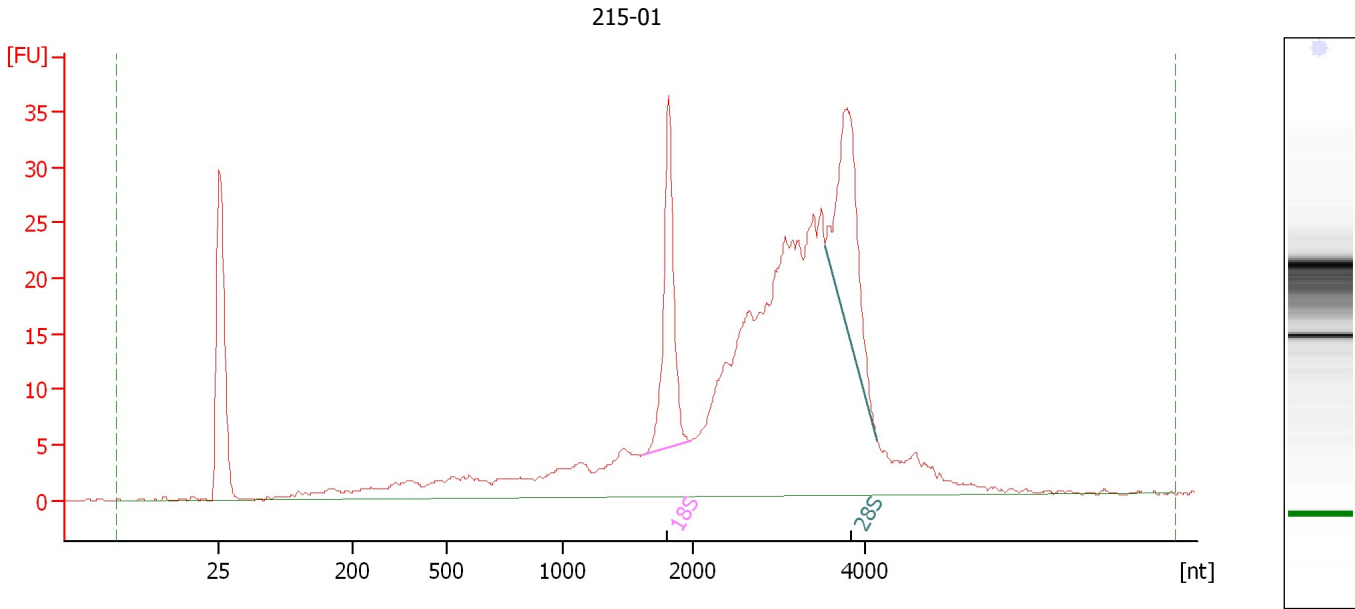
RNA Area: 0.0
RNA Integrity Number (RIN): 4 (B.02.08)

Result Flagging Color:
Result Flagging Label: RIN:4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
Modified: 7/8/2013 10:47:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 215-01

RNA Area: 464.3 RNA Integrity Number (RIN): 6.9 (B.02.08)
RNA Concentration: 2,612 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 6.90

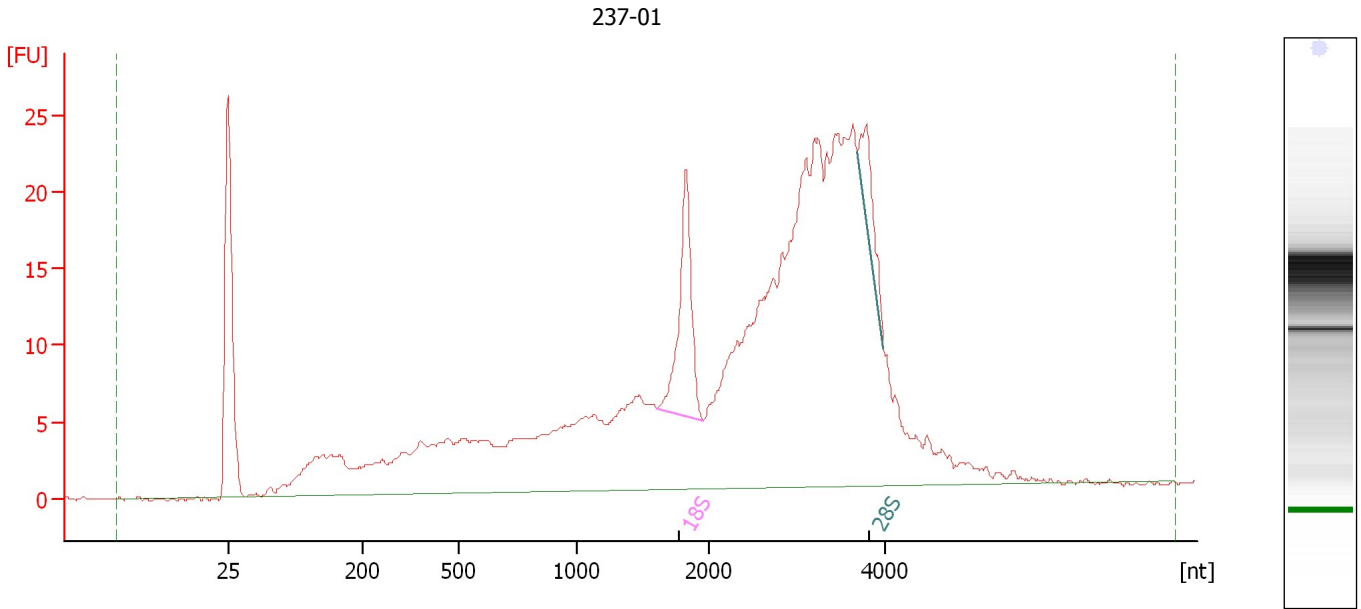
Fragment table for sample 3 : 215-01

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,624 | 1,983 | 38.0 | 8.2 |
| 28S | 3,524 | 4,144 | 40.1 | 8.6 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
 Modified: 7/8/2013 10:47:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 237-01

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 487.2 | RNA Integrity Number (RIN): | 3.9 (B.02.08) |
| RNA Concentration: | 2,741 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.3 | Result Flagging Label: | RIN: 3.90 |

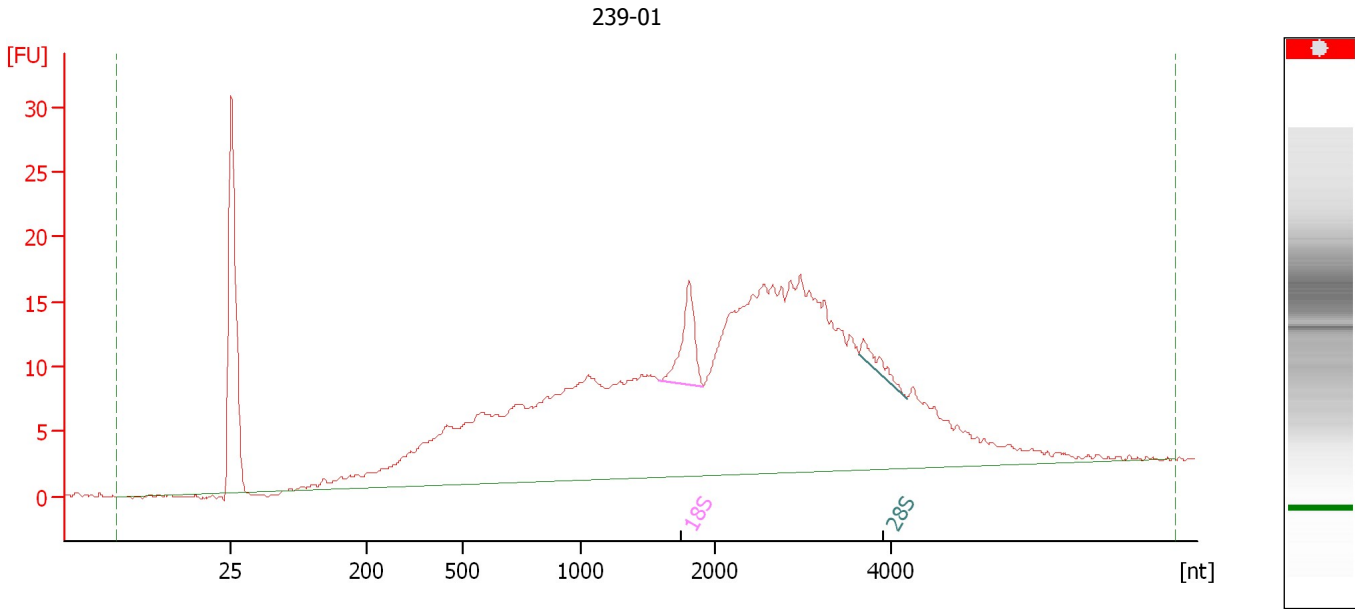
Fragment table for sample 4 : 237-01

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,603 | 1,949 | 22.6 | 4.6 |
| 28S | 3,691 | 3,984 | 7.5 | 1.5 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
 Modified: 7/8/2013 10:47:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 239-01

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 478.2 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 2,690 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.3 | Result Flagging Label: | RIN N/A |

Fragment table for sample 5 : 239-01

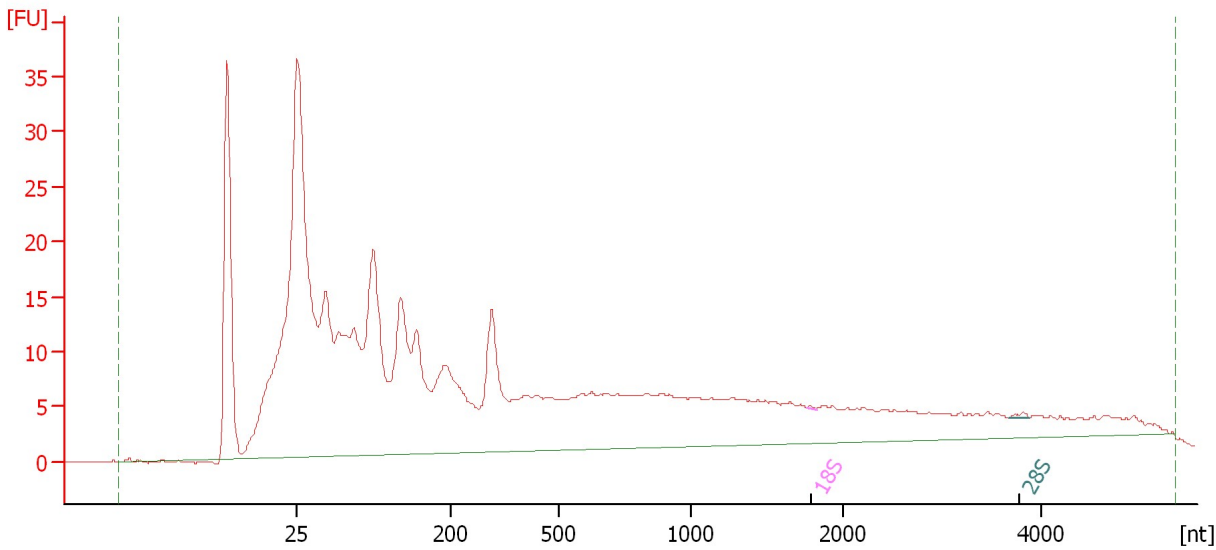
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,584 | 1,911 | 11.5 | 2.4 |
| 28S | 3,623 | 4,169 | 3.1 | 0.6 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
Modified: 7/8/2013 10:47:06 AM

Electropherogram Summary Continued ...

1 [chris' sample]



Overall Results for sample 6 : 1

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 508.3 | RNA Integrity Number (RIN): | 2.4 (B.02.08) |
| RNA Concentration: | 2,860 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 3.1 | Result Flagging Label: | RIN: 2.40 |

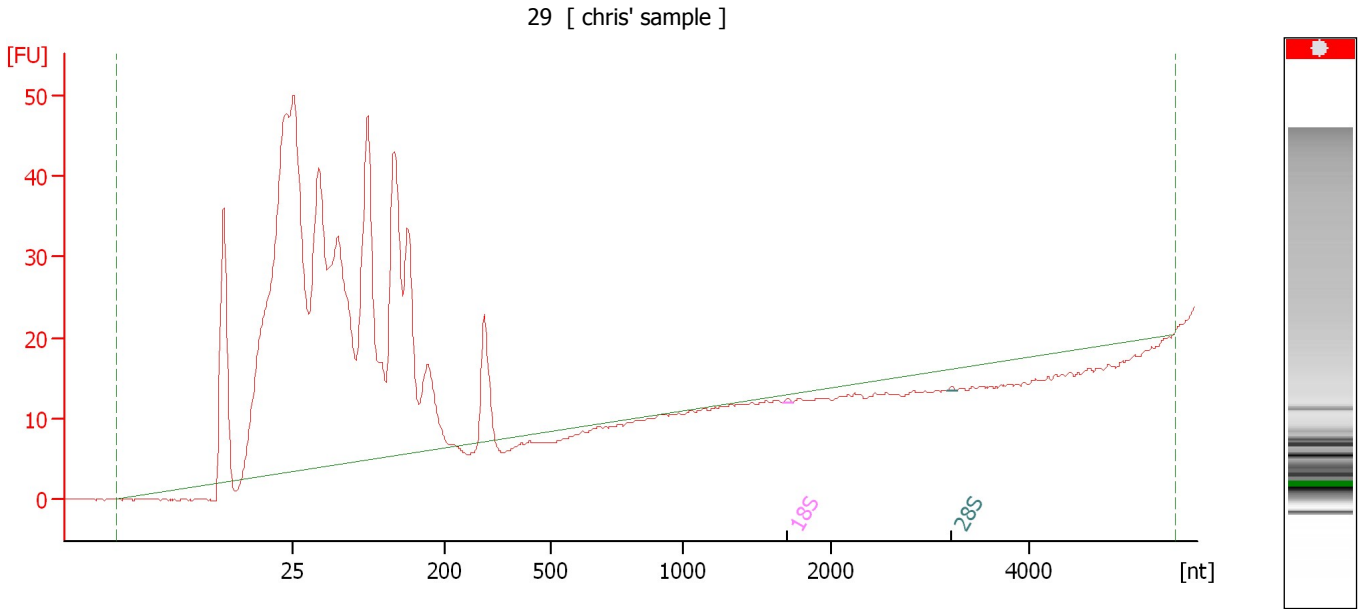
Fragment table for sample 6 : 1

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,761 | 1,832 | 0.1 | 0.0 |
| 28S | 3,675 | 3,879 | 0.4 | 0.1 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
 Modified: 7/8/2013 10:47:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 29

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 474.3 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 2,668 µg/µl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.9 | Result Flagging Label: | RIN N/A |

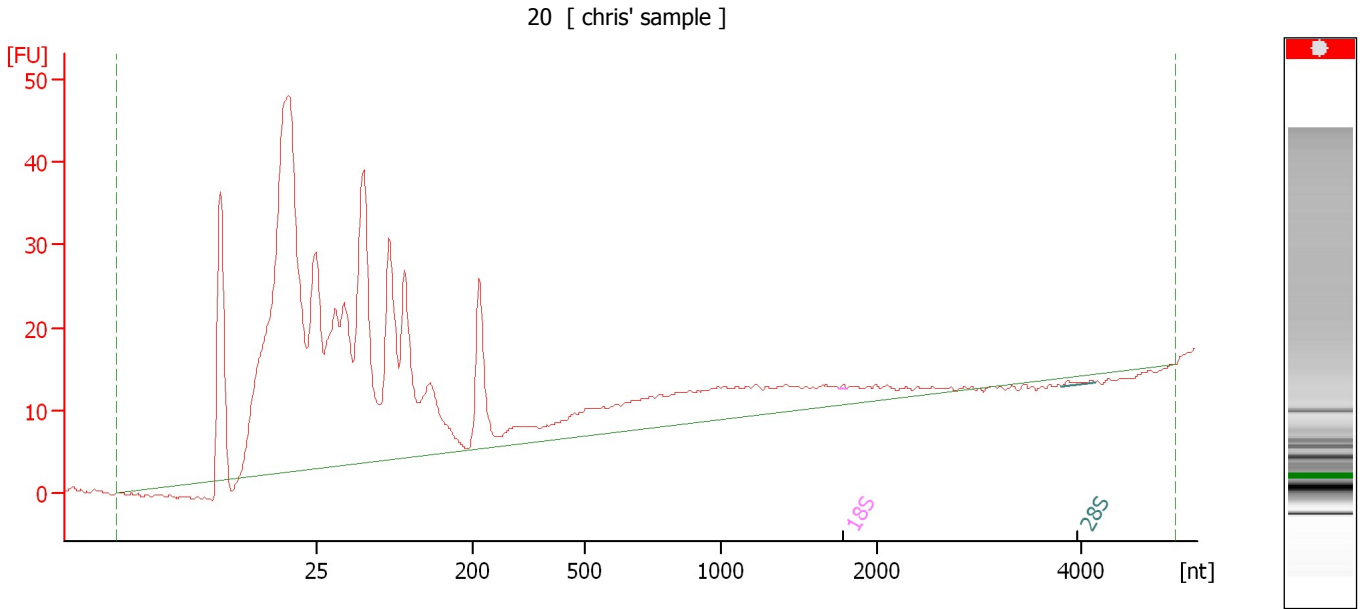
Fragment table for sample 7 : 29

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,670 | 1,741 | 0.2 | 0.1 |
| 28S | 3,174 | 3,272 | 0.2 | 0.0 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
Modified: 7/8/2013 10:47:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 20

| | | | |
|-------------------------|-------------------|-----------------------------|---------------|
| RNA Area: | 711.0 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 4,000 pg/ μ l | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 3.4 | Result Flagging Label: | RIN N/A |

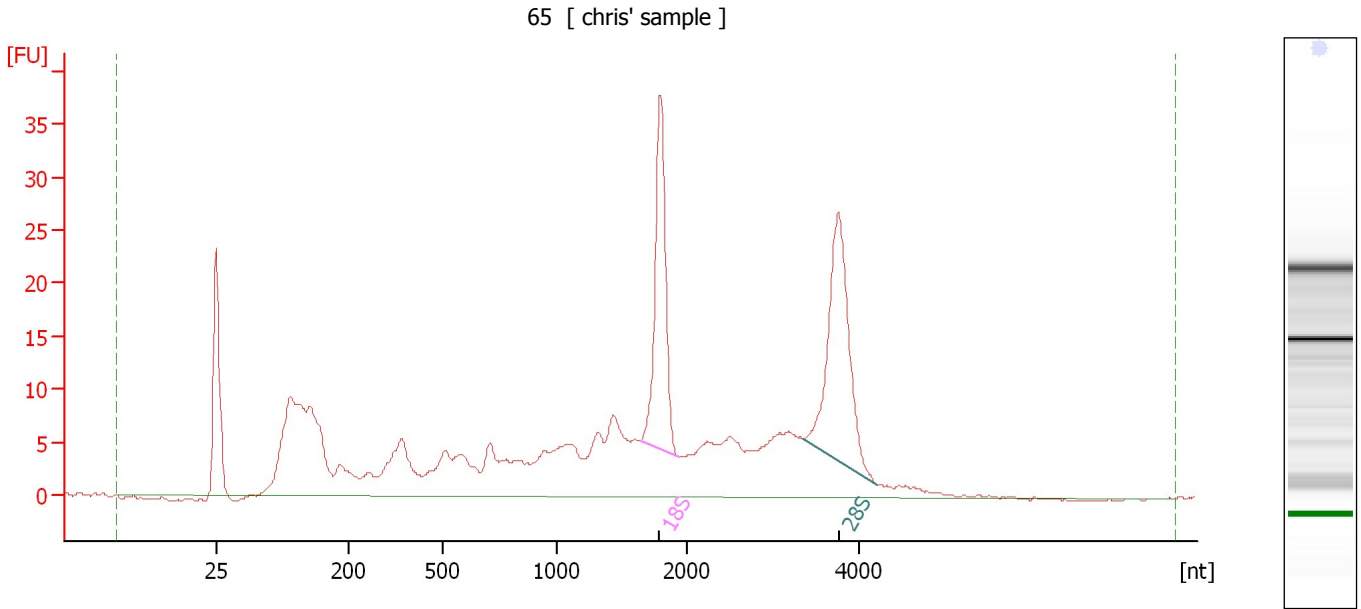
Fragment table for sample 8 : 20

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,758 | 1,806 | 0.2 | 0.0 |
| 28S | 3,808 | 4,143 | 0.6 | 0.1 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
Modified: 7/8/2013 10:47:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 65

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 404.2 | RNA Integrity Number (RIN): | 6.9 (B.02.08) |
| RNA Concentration: | 2,274 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.2 | Result Flagging Label: | RIN: 6.90 |

Fragment table for sample 9 : 65

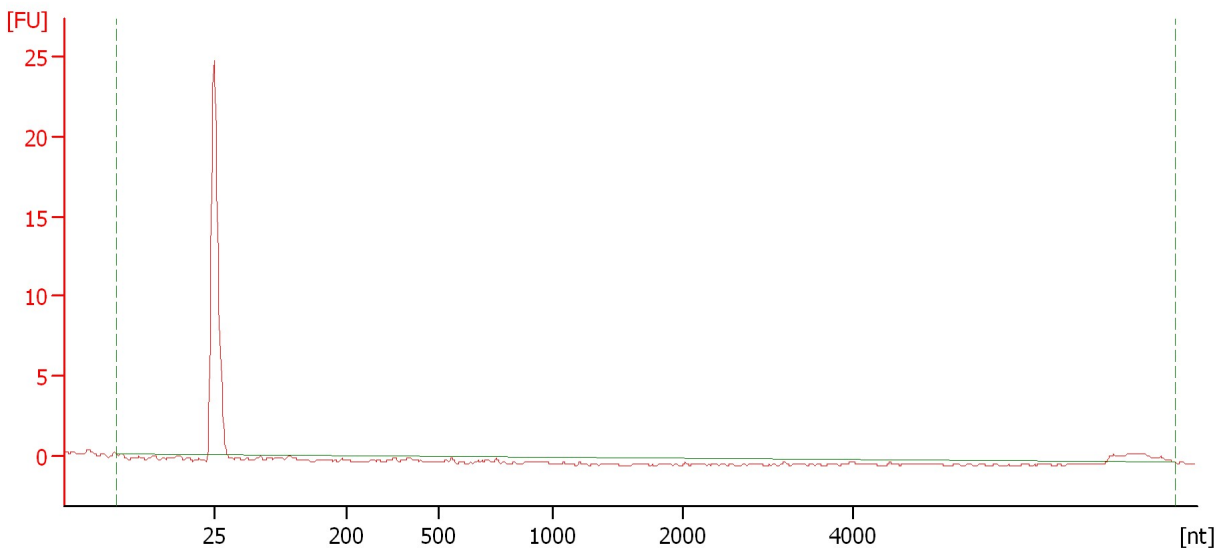
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,652 | 1,931 | 41.1 | 10.2 |
| 28S | 3,355 | 4,216 | 48.8 | 12.1 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
Modified: 7/8/2013 10:47:06 AM

Electropherogram Summary Continued ...

120-07 [chris' sample]



Overall Results for sample 10 : 120-07

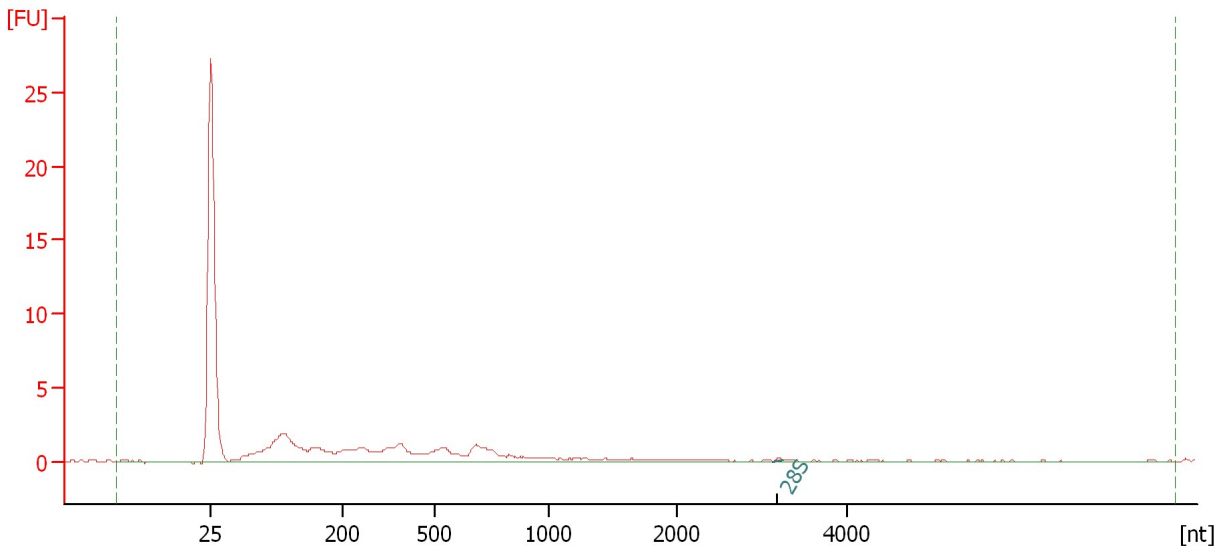
| | | | |
|-------------------------|---------|-----------------------------|---|
| RNA Area: | 1.6 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 9 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN N/A |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
Modified: 7/8/2013 10:47:06 AM

Electropherogram Summary Continued ...

120-07 [chris' sample]



Overall Results for sample 11 : 120-07

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 43.4 | RNA Integrity Number (RIN): | 1 (B.02.08) |
| RNA Concentration: | 244 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN:1 |

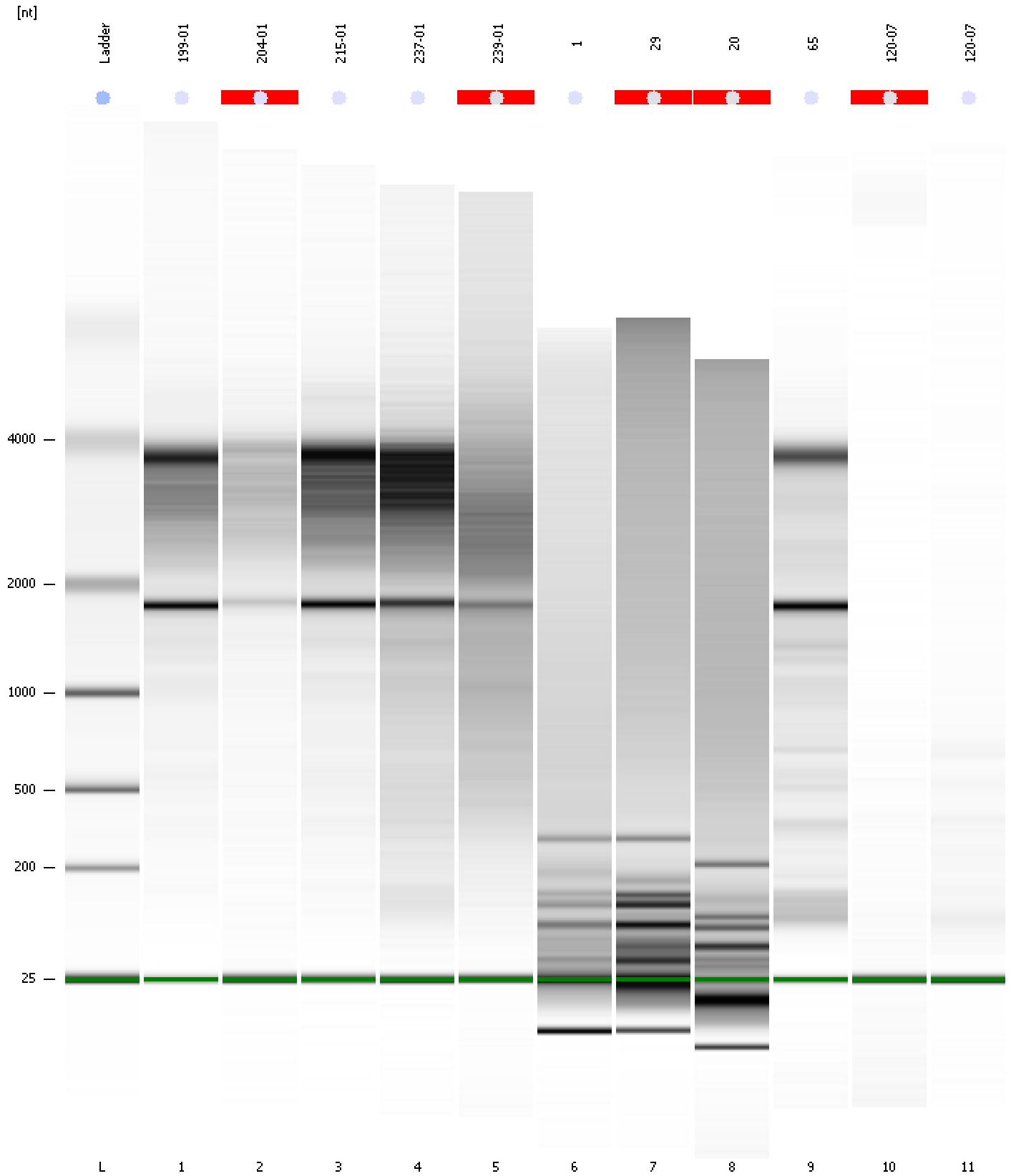
Fragment table for sample 11 : 120-07

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 28S | 3,124 | 3,263 | 0.1 | 0.2 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
Modified: 7/8/2013 10:47:06 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad

Created: 7/8/2013 10:25:00 AM
 Modified: 7/8/2013 10:47:06 AM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 12) | | Instrument | Run | | 7/8/2013 10:47:03 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-08\2013-07-08_002.xad) | | Instrument | Run | | 7/8/2013 10:25:06 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 7/8/2013 10:25:06 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 7/8/2013 10:25:06 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 7/8/2013 10:25:06 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 7/8/2013 10:25:06 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 7/8/2013 10:25:06 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 7/8/2013 10:25:06 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |