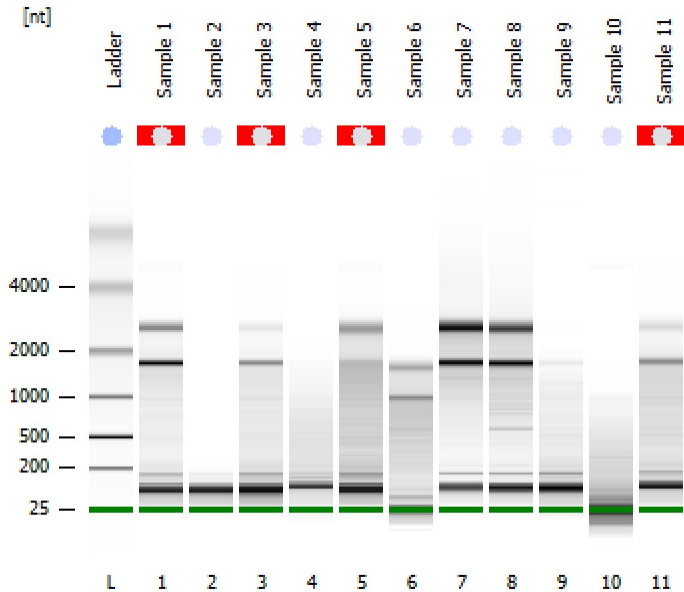


Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
 Modified: 3/10/2023 1:05:46 PM

Electrophoresis File Run Summary



Instrument Information:

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

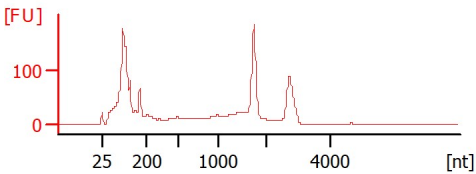
Assay Information:

Assay Origin Path: C:\Program Files (x86)\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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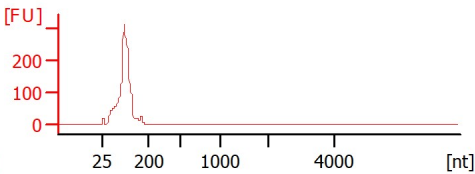
Chip Information:

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

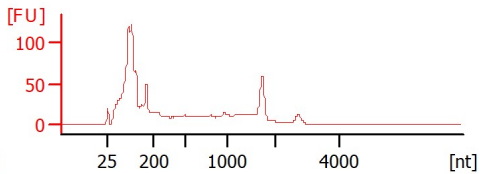
Sample 1
RIN N/A



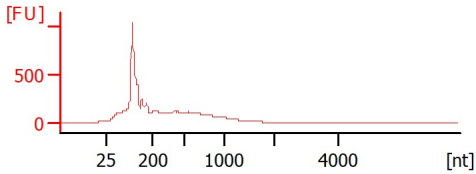
Sample 2
RIN: 2.60



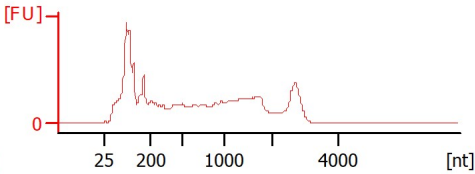
Sample 3
RIN N/A



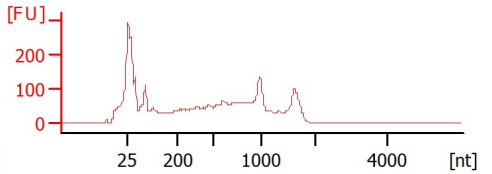
Sample 4
RIN: 2



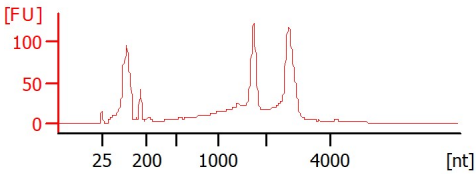
Sample 5
RIN N/A



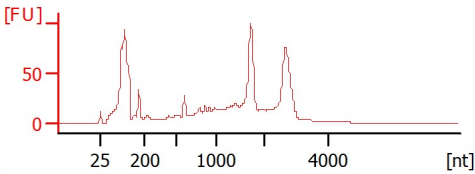
Sample 6
RIN: 4.90



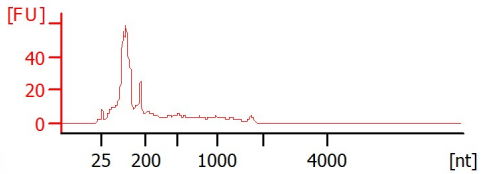
Sample 7
RIN: 7.60



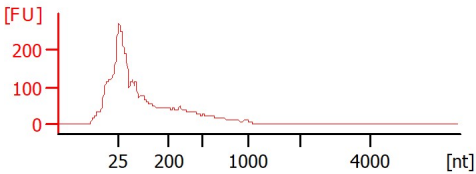
Sample 8
RIN: 6.90



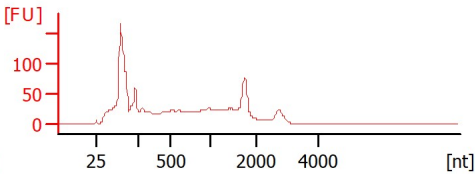
Sample 9
RIN: 2.40



Sample 10
RIN: 2.40



Sample 11
RIN N/A



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
 Modified: 3/10/2023 1:05:46 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| Sample 1 | | ✓ | RIN N/A | |
| Sample 2 | | ✓ | RIN: 2.60 | |
| Sample 3 | | ✓ | RIN N/A | |
| Sample 4 | | ✓ | RIN:2 | |
| Sample 5 | | ✓ | RIN N/A | |
| Sample 6 | | ✓ | RIN: 4.90 | |
| Sample 7 | | ✓ | RIN: 7.60 | |
| Sample 8 | | ✓ | RIN: 6.90 | |
| Sample 9 | | ✓ | RIN: 2.40 | |
| Sample 10 | | ✓ | RIN: 2.40 | |
| 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:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
Modified: 3/10/2023 1:05:46 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

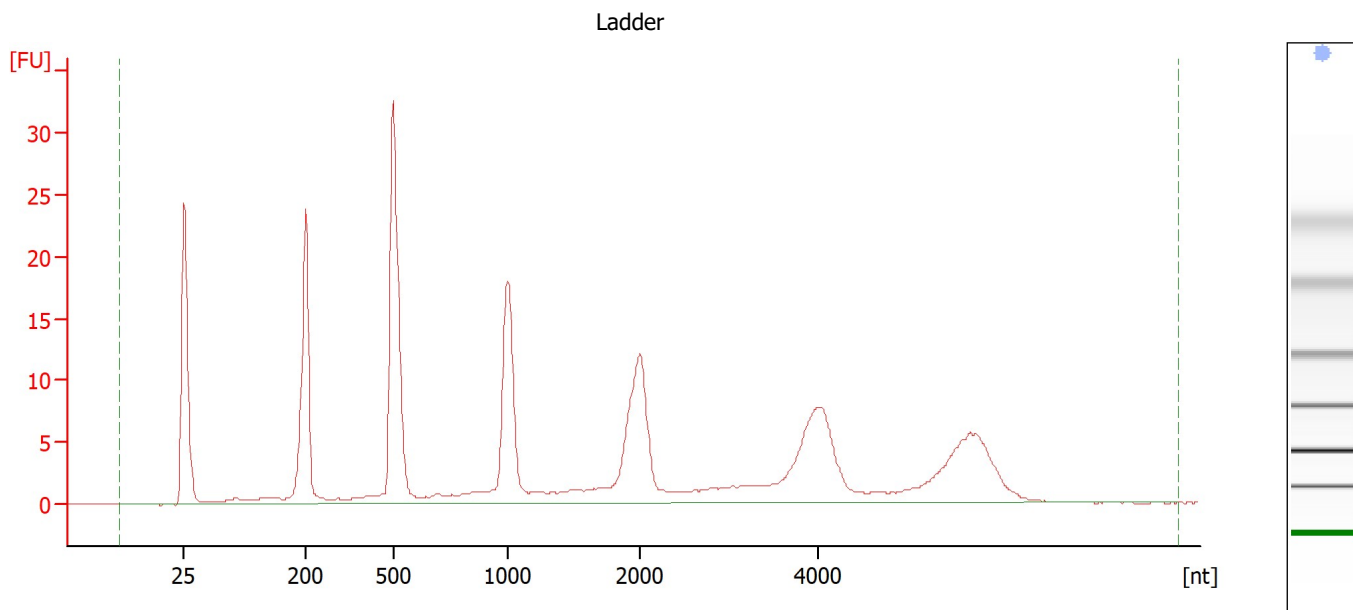
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
Modified: 3/10/2023 1:05:46 PM

Electropherogram Summary



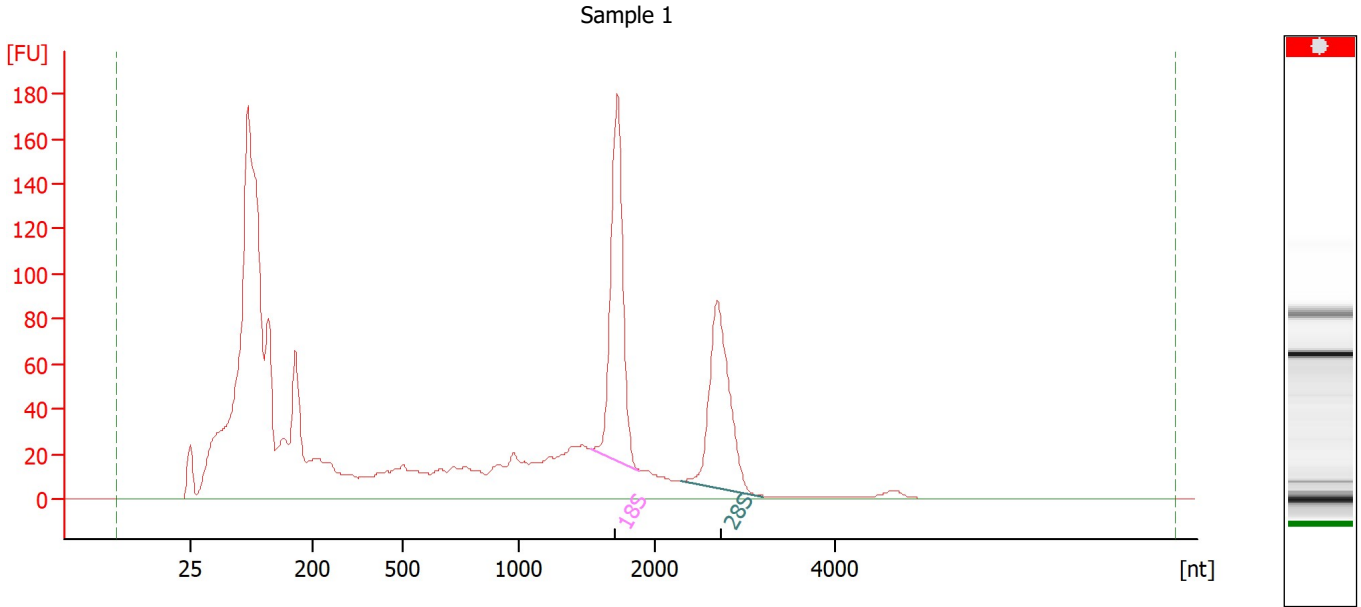
Overall Results for Ladder

| | | | |
|--------------------|-------------|------------------------|---|
| RNA Area: | 241.4 | Result Flagging Color: | |
| RNA Concentration: | 1,000 pg/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
 Modified: 3/10/2023 1:05:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 2,234.5 | RNA Integrity Number (RIN): | N/A (B.02.10) |
| RNA Concentration: | 9,257 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.8 | Result Flagging Label: | RIN N/A |

Fragment table for sample 1 : Sample 1

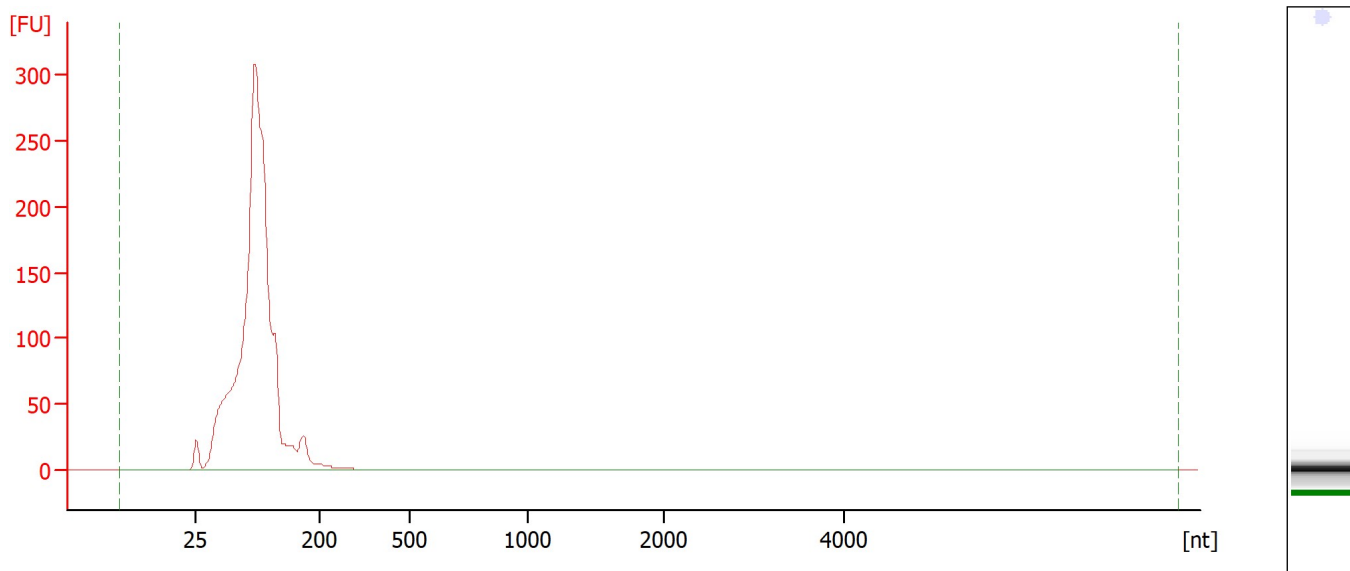
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,527 | 1,892 | 243.2 | 10.9 |
| 28S | 2,288 | 3,212 | 188.3 | 8.4 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
Modified: 3/10/2023 1:05:46 PM

Electropherogram Summary Continued ...

Sample 2



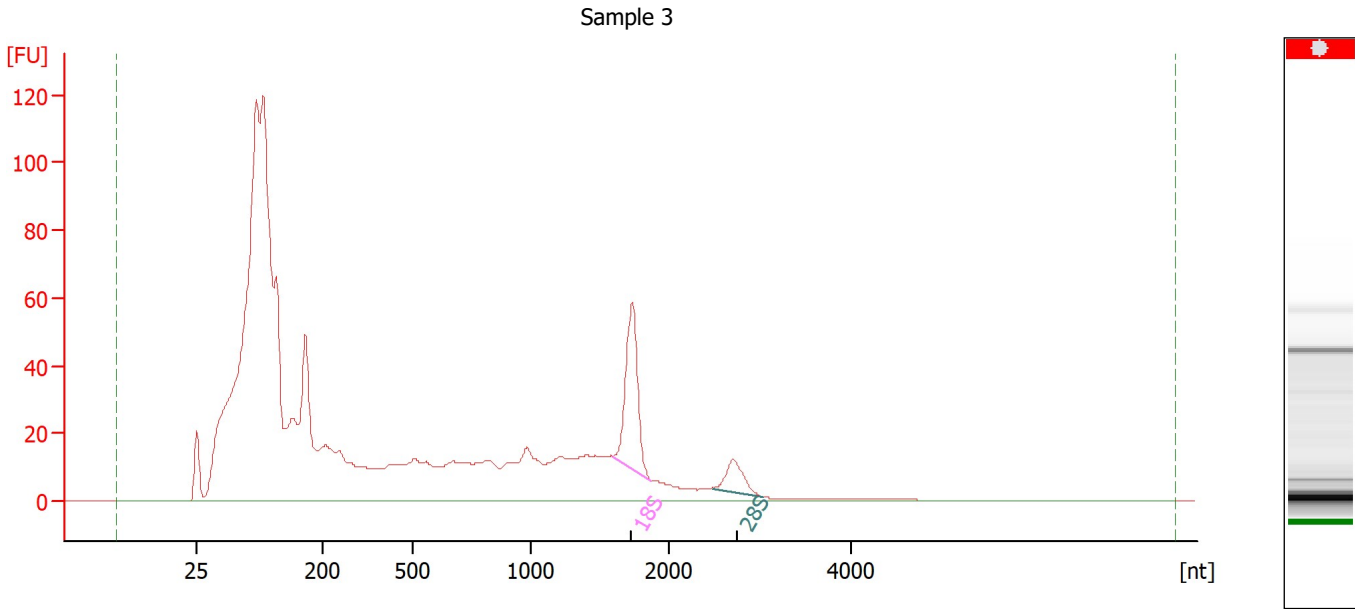
Overall Results for sample 2 : Sample 2

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 1,667.8 | RNA Integrity Number (RIN): | 2.6 (B.02.10) |
| RNA Concentration: | 6,909 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.60 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
 Modified: 3/10/2023 1:05:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 1,544.0 | RNA Integrity Number (RIN): | N/A (B.02.10) |
| RNA Concentration: | 6,396 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.3 | Result Flagging Label: | RIN N/A |

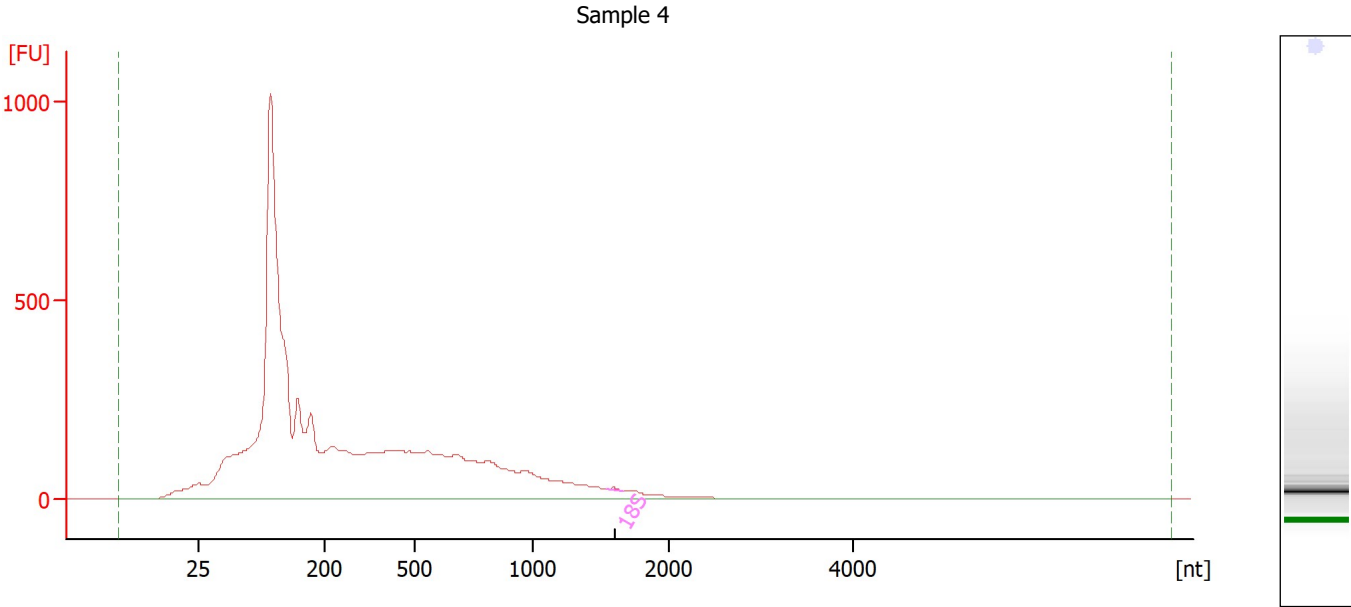
Fragment table for sample 3 : Sample 3

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,592 | 1,865 | 71.5 | 4.6 |
| 28S | 2,486 | 3,034 | 18.4 | 1.2 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
 Modified: 3/10/2023 1:05:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

| | | | |
|-------------------------|--------------|-----------------------------|---|
| RNA Area: | 8,315.7 | RNA Integrity Number (RIN): | 2 (B.02.10) |
| RNA Concentration: | 34,449 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN:2 |

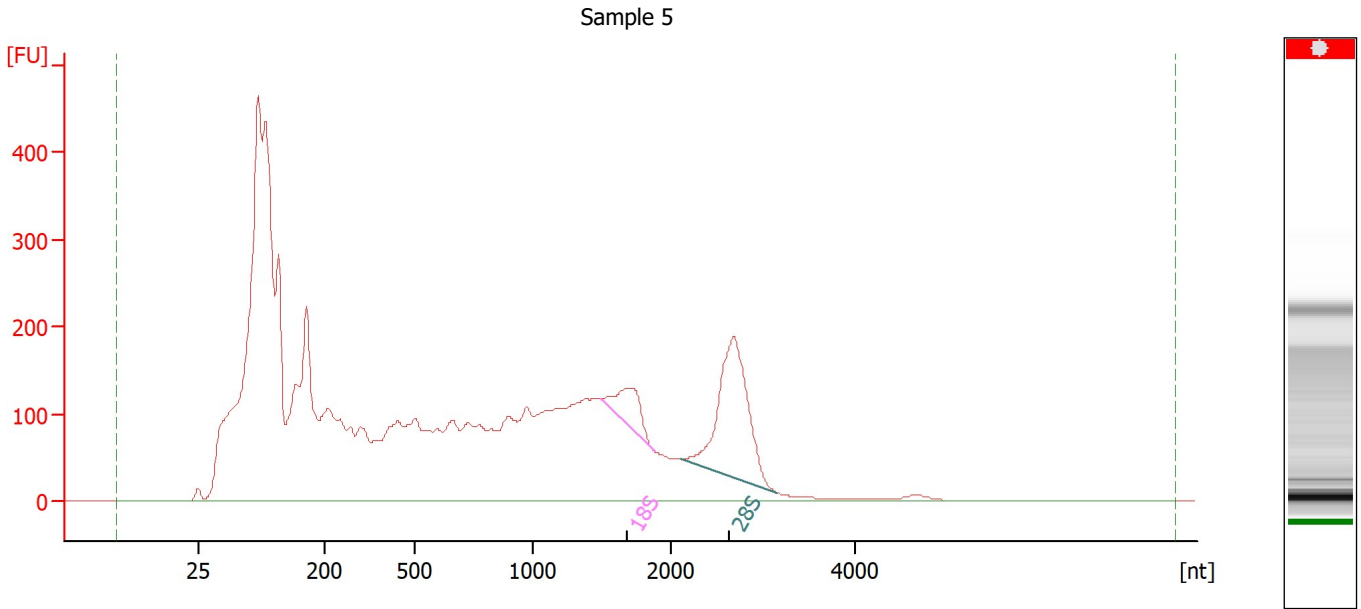
Fragment table for sample 4 : Sample 4

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,539 | 1,663 | 3.8 | 0.0 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
 Modified: 3/10/2023 1:05:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

| | | | |
|-------------------------|--------------|-----------------------------|---|
| RNA Area: | 8,565.8 | RNA Integrity Number (RIN): | N/A (B.02.10) |
| RNA Concentration: | 35,485 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 3.9 | Result Flagging Label: | RIN N/A |

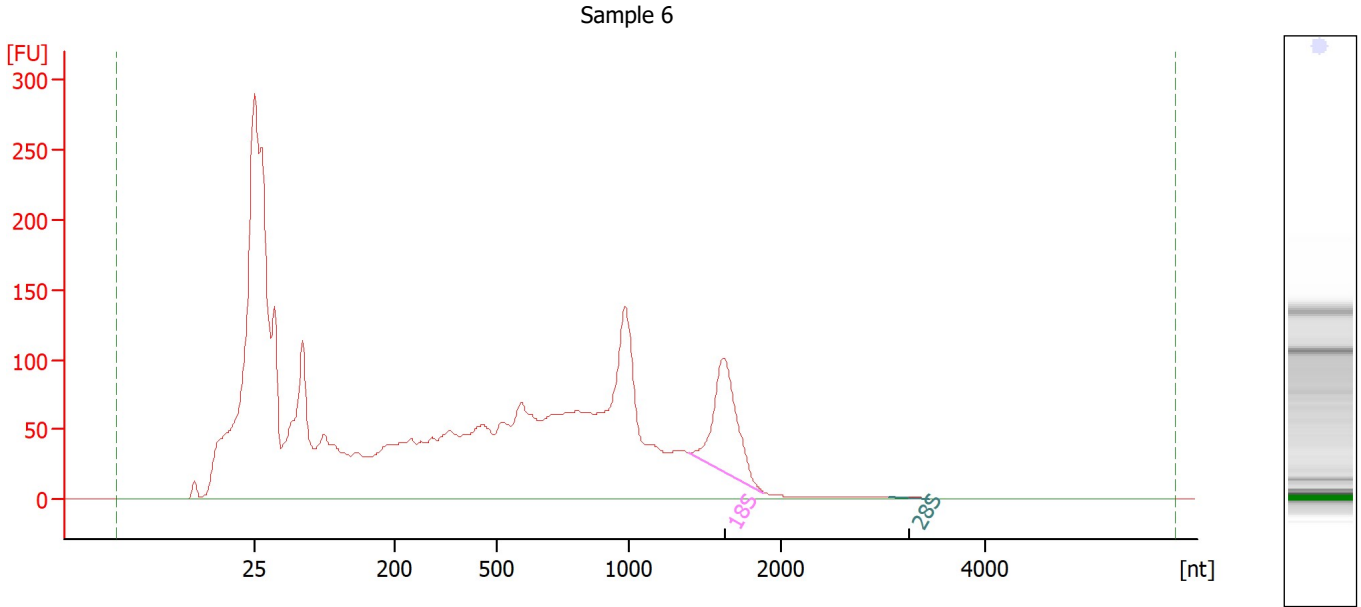
Fragment table for sample 5 : Sample 5

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,492 | 1,881 | 136.1 | 1.6 |
| 28S | 2,102 | 3,161 | 532.2 | 6.2 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
 Modified: 3/10/2023 1:05:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

| | | | |
|-------------------------|--------------|-----------------------------|---|
| RNA Area: | 3,056.8 | RNA Integrity Number (RIN): | 4.9 (B.02.10) |
| RNA Concentration: | 12,663 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 4.90 |

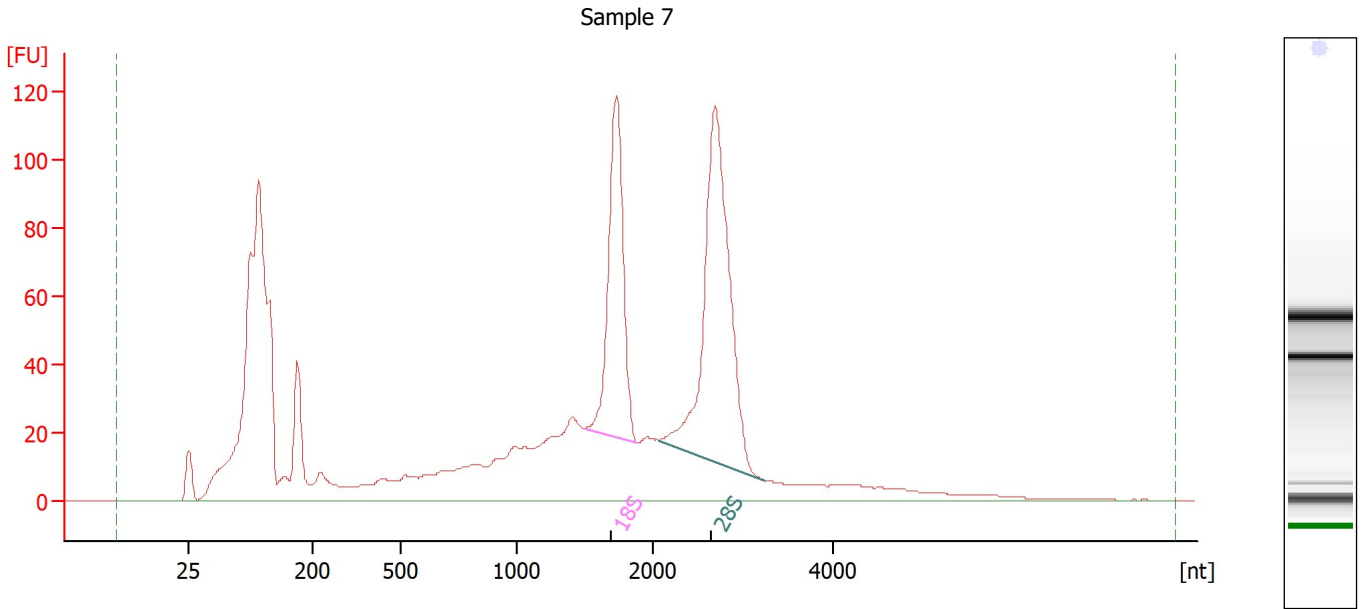
Fragment table for sample 6 : Sample 6

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,402 | 1,884 | 210.0 | 6.9 |
| 28S | 3,060 | 3,447 | 2.2 | 0.1 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
 Modified: 3/10/2023 1:05:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 1,726.5 | RNA Integrity Number (RIN): | 7.6 (B.02.10) |
| RNA Concentration: | 7,152 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.6 | Result Flagging Label: | RIN: 7.60 |

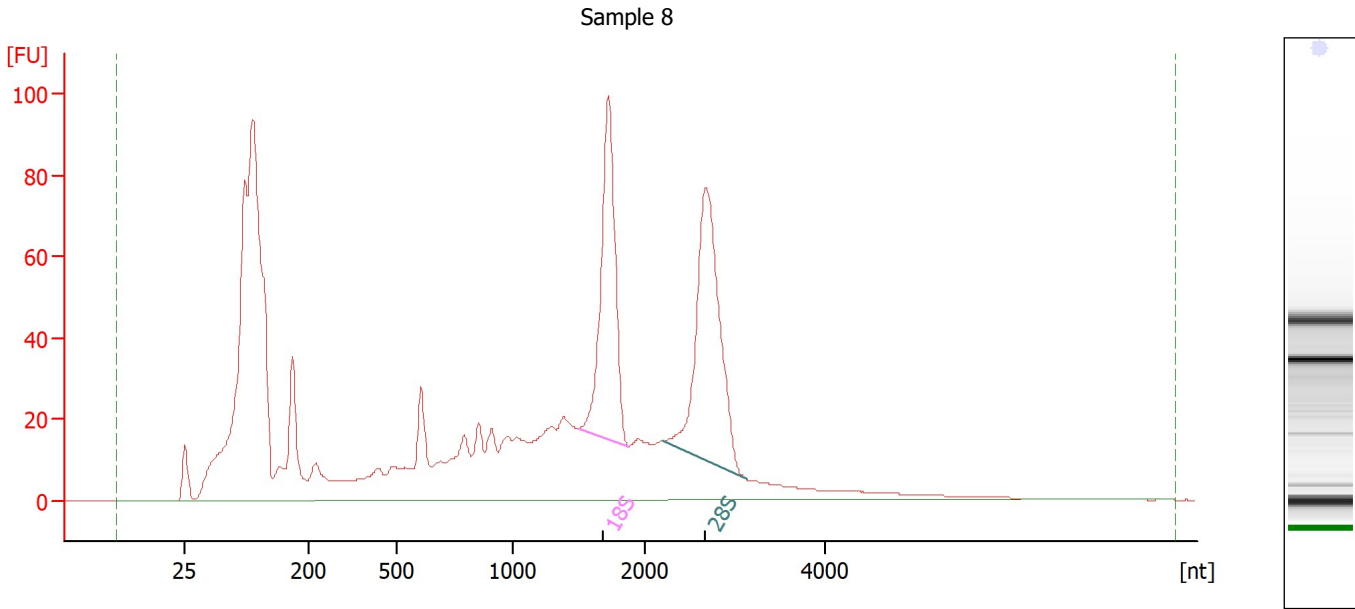
Fragment table for sample 7 : Sample 7

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,502 | 1,883 | 183.5 | 10.6 |
| 28S | 2,087 | 3,261 | 296.6 | 17.2 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
 Modified: 3/10/2023 1:05:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 1,551.0 | RNA Integrity Number (RIN): | 6.9 (B.02.10) |
| RNA Concentration: | 6,425 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.2 | Result Flagging Label: | RIN: 6.90 |

Fragment table for sample 8 : Sample 8

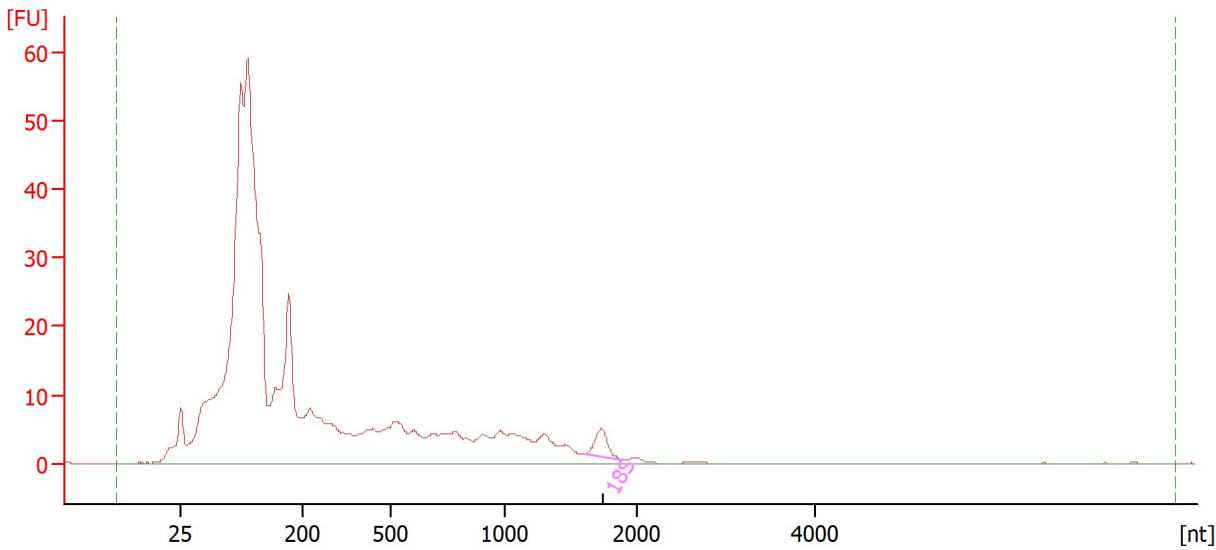
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,498 | 1,873 | 151.0 | 9.7 |
| 28S | 2,193 | 3,124 | 181.1 | 11.7 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
 Modified: 3/10/2023 1:05:46 PM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 589.7 | RNA Integrity Number (RIN): | 2.4 (B.02.10) |
| RNA Concentration: | 2,443 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.40 |

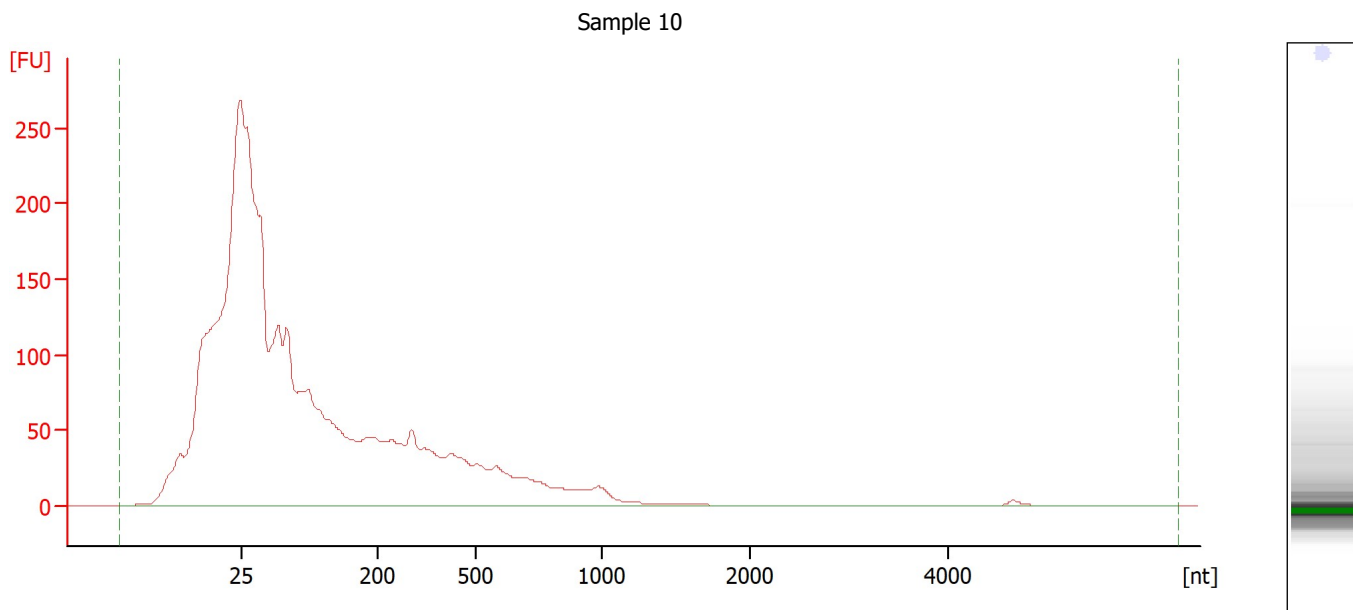
Fragment table for sample 9 : Sample 9

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,596 | 1,879 | 6.5 | 1.1 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
Modified: 3/10/2023 1:05:46 PM

Electropherogram Summary Continued ...



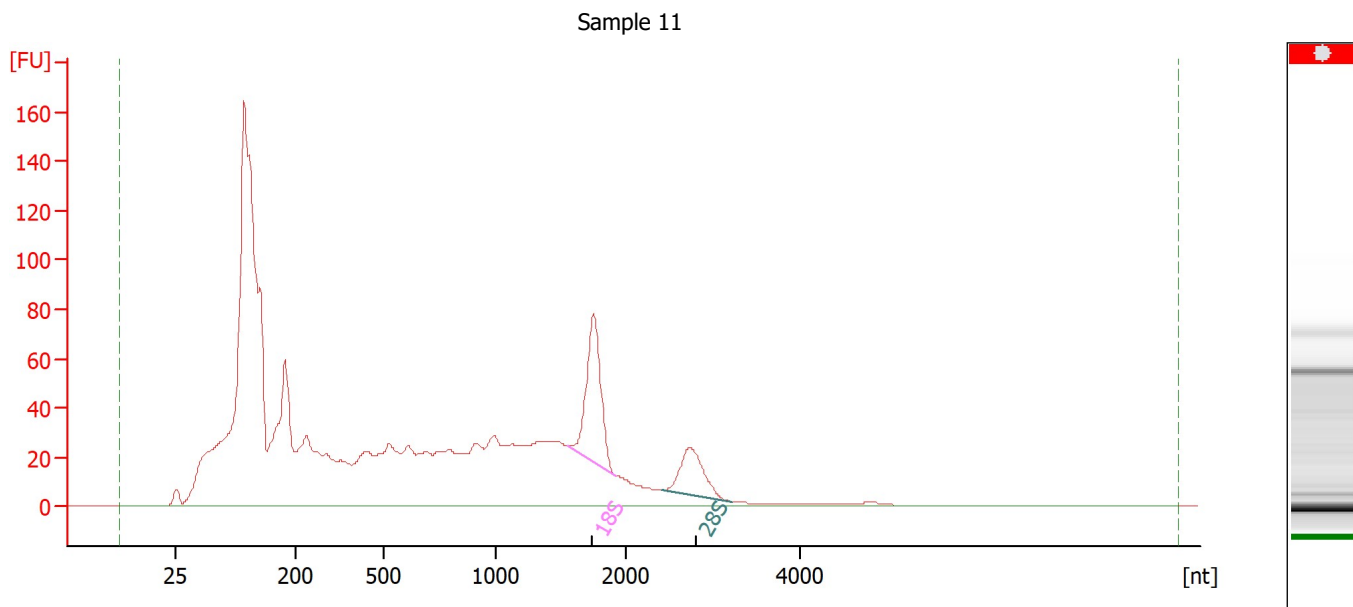
Overall Results for sample 10 : Sample 10

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 1,979.1 | RNA Integrity Number (RIN): | 2.4 (B.02.10) |
| RNA Concentration: | 8,199 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.40 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
 Modified: 3/10/2023 1:05:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 2,163.9 | RNA Integrity Number (RIN): | N/A (B.02.10) |
| RNA Concentration: | 8,964 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.5 | Result Flagging Label: | RIN N/A |

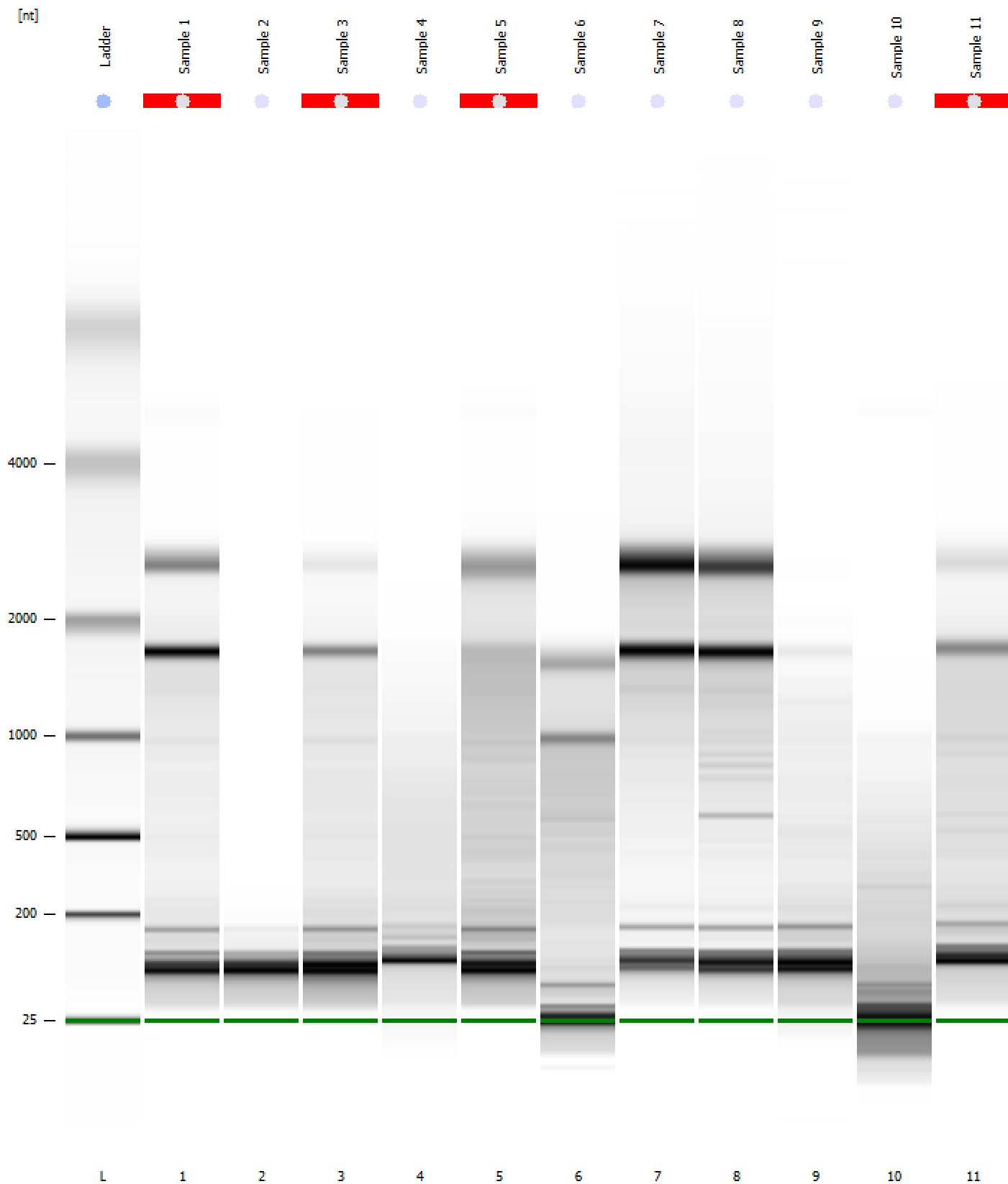
Fragment table for sample 11 : Sample 11

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,562 | 1,923 | 111.2 | 5.1 |
| 28S | 2,423 | 3,219 | 51.6 | 2.4 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
Modified: 3/10/2023 1:05:46 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad

Created: 3/10/2023 12:16:16 PM
 Modified: 3/10/2023 1:05:46 PM

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 | | 3/10/2023 12:39:14 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-03-10\Bioanalyzer1_Eukaryote Total RNA Pico_2023-03-10_001.xad) | | Instrument | Run | | 3/10/2023 12:16:23 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Product Number : G2938C | | Instrument | Run | | 3/10/2023 12:16:23 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Name : | | Instrument | Run | | 3/10/2023 12:16:23 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Vendor : Agilent Technologies | | Instrument | Run | | 3/10/2023 12:16:23 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Serial# : DE34903152 | | Instrument | Run | | 3/10/2023 12:16:23 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Firmware : C.01.069 | | Instrument | Run | | 3/10/2023 12:16:23 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Cartridge : Electrode | | Instrument | Run | | 3/10/2023 12:16:23 PM | (GMT --08:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |