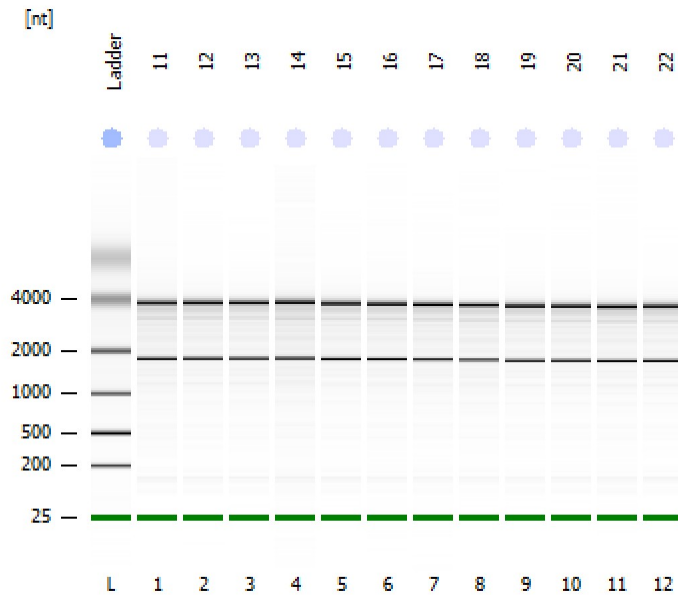


Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
Modified: 8/11/2020 4:39:51 PM

Electrophoresis File Run Summary



Instrument Information:

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

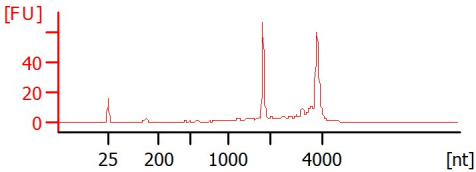
Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

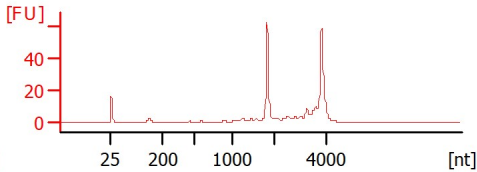
Chip Information:

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

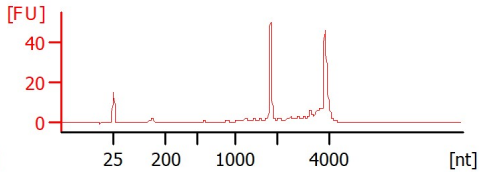
11
QC0627
RIN: 8.60



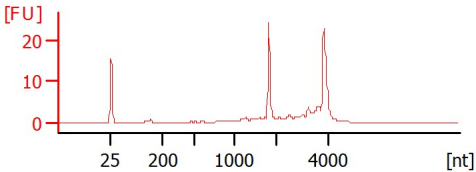
12
QC0627
RIN: 8.70



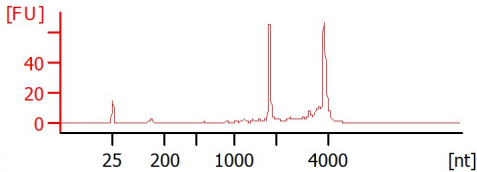
13
QC0627
RIN: 8.90



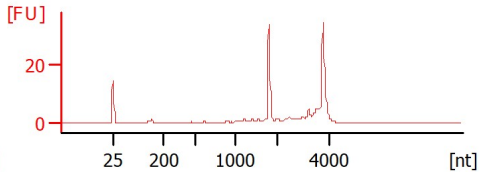
14
QC0627
RIN: 8.60



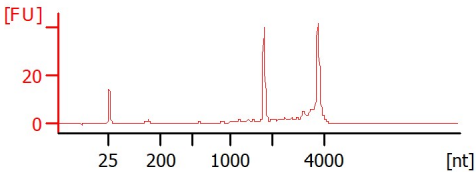
15
QC0627
RIN: 9.10



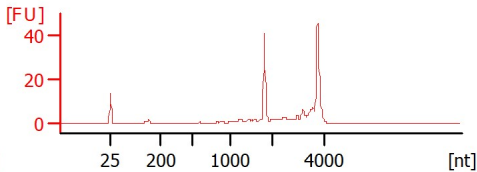
16
QC0627
RIN: 8.90



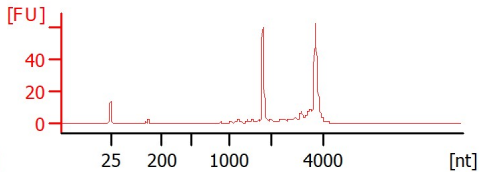
17
QC0627
RIN: 8.80



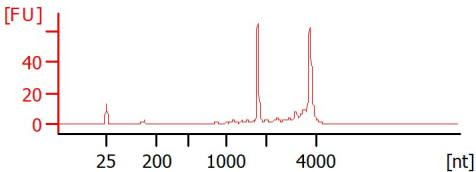
18
QC0627
RIN: 8.40



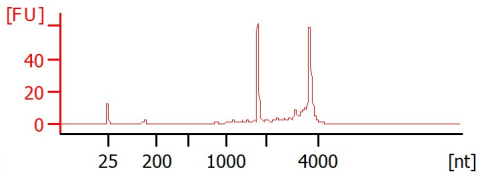
19
QC0627
RIN: 9.10



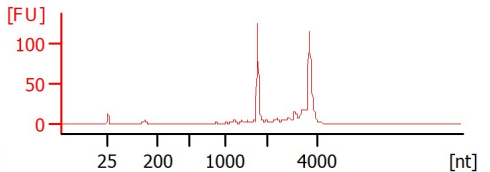
20
QC0627
RIN: 9



21
QC0627
RIN: 8.90



22
QC0627
RIN: 8.90



Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| 11 | QC0627 | ✓ | RIN: 8.60 | |
| 12 | QC0627 | ✓ | RIN: 8.70 | |
| 13 | QC0627 | ✓ | RIN: 8.90 | |
| 14 | QC0627 | ✓ | RIN: 8.60 | |
| 15 | QC0627 | ✓ | RIN: 9.10 | |
| 16 | QC0627 | ✓ | RIN: 8.90 | |
| 17 | QC0627 | ✓ | RIN: 8.80 | |
| 18 | QC0627 | ✓ | RIN: 8.40 | |
| 19 | QC0627 | ✓ | RIN: 9.10 | |
| 20 | QC0627 | ✓ | RIN:9 | |
| 21 | QC0627 | ✓ | RIN: 8.90 | |
| 22 | QC0627 | ✓ | RIN: 8.90 | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
 Minimum Visible Range [s] : 17
 Maximum Visible Range [s] : 70
 Start Analysis Time Range [s] : 19
 End Analysis Time Range [s] : 69
 Ladder Concentration [ng/μl] : 150
 Lower Marker Concentration [ng/μl] : 0
 Upper Marker Concentration [ng/μl] : 0
 Used Lower Marker for Quantitation
 Standard Curve Fit is Logarithmic
 Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 19
 Integration End Time [s] : 69
 Slope Threshold : 0.6
 Height Threshold [FU] : 0.5
 Area Threshold : 0.2
 Width Threshold [s] : 0.5
 Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
 Polynomial Order : 4

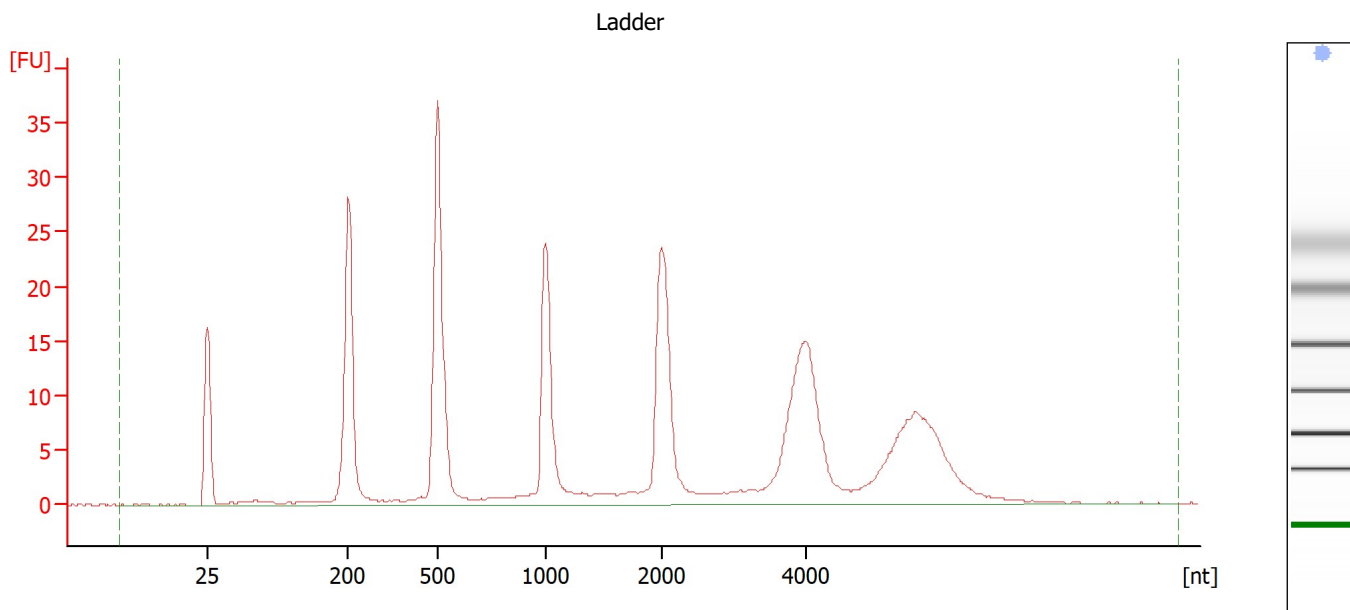
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
Modified: 8/11/2020 4:39:51 PM

Electropherogram Summary



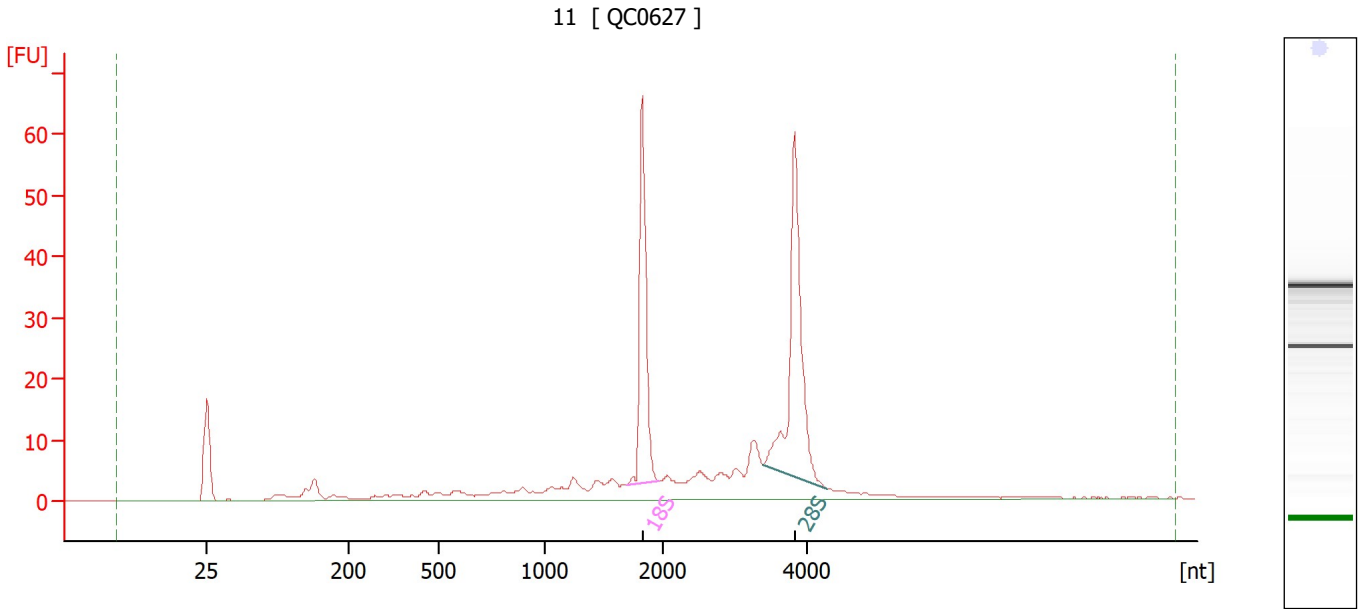
Overall Results for Ladder

| | | | |
|--------------------|-----------------|------------------------|---|
| RNA Area: | 291.9 | Result Flagging Color: | |
| RNA Concentration: | 150 ng/ μ l | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 11

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 261.0 | RNA Integrity Number (RIN): | 8.6 (B.02.10) |
| RNA Concentration: | 134 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.4 | Result Flagging Label: | RIN: 8.60 |

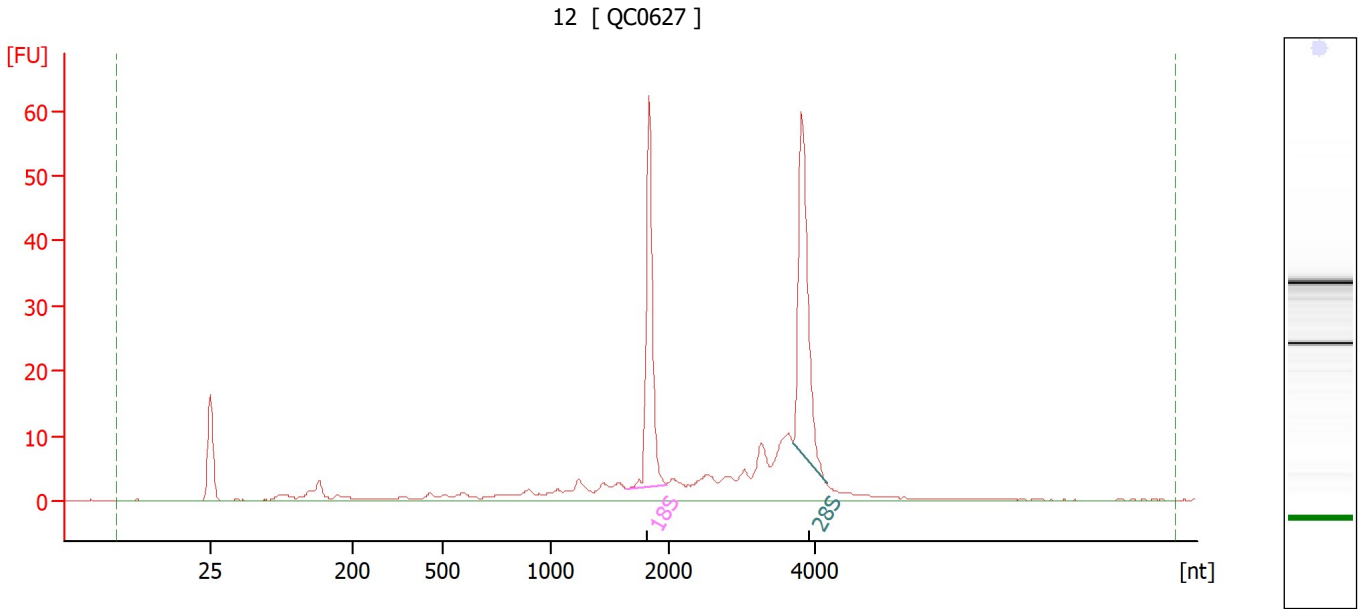
Fragment table for sample 1 : 11

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,691 | 1,974 | 48.2 | 18.5 |
| 28S | 3,389 | 4,274 | 68.3 | 26.2 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 12

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 235.3 | RNA Integrity Number (RIN): | 8.7 (B.02.10) |
| RNA Concentration: | 121 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.1 | Result Flagging Label: | RIN: 8.70 |

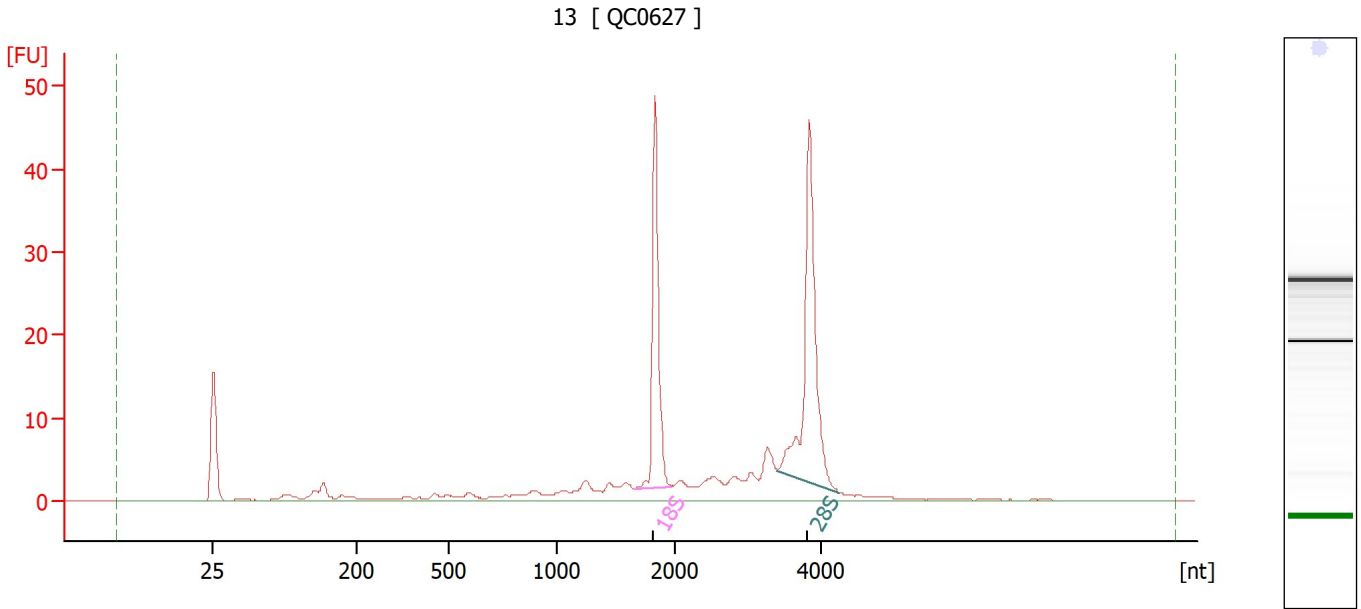
Fragment table for sample 2 : 12

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,641 | 1,977 | 45.7 | 19.4 |
| 28S | 3,707 | 4,162 | 50.2 | 21.3 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 13

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 174.1 | RNA Integrity Number (RIN): | 8.9 (B.02.10) |
| RNA Concentration: | 89 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.4 | Result Flagging Label: | RIN: 8.90 |

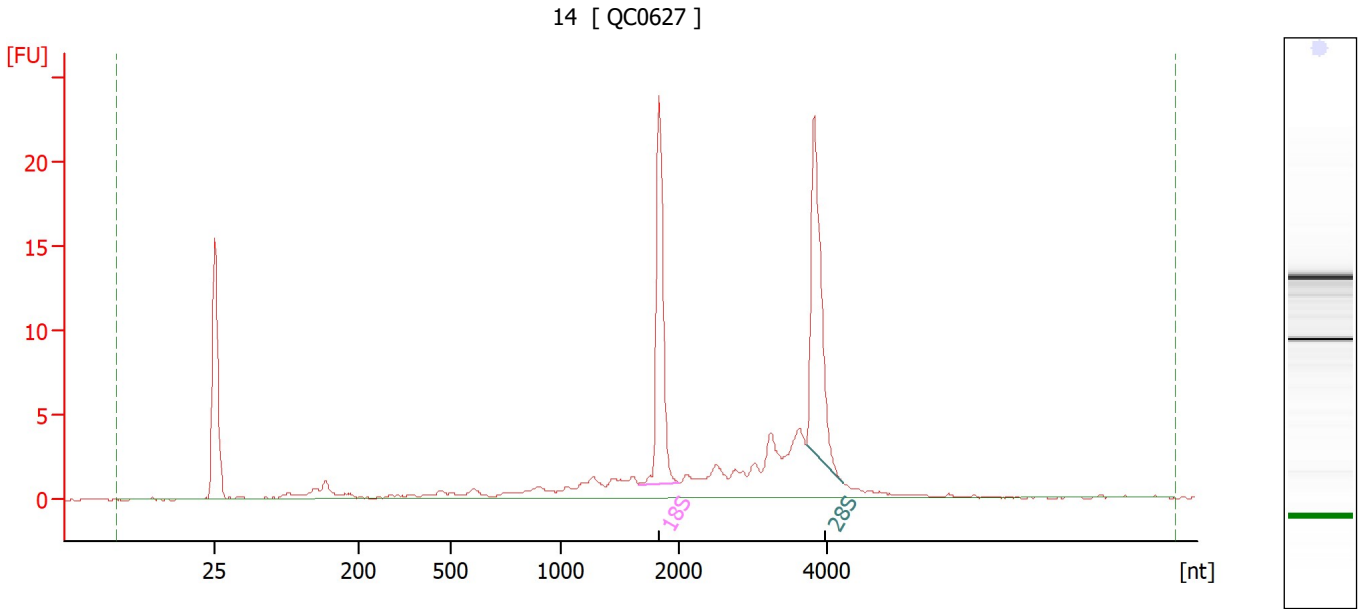
Fragment table for sample 3 : 13

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,655 | 1,971 | 34.7 | 20.0 |
| 28S | 3,395 | 4,240 | 49.9 | 28.6 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 14

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 99.7 | RNA Integrity Number (RIN): | 8.6 (B.02.10) |
| RNA Concentration: | 51 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.1 | Result Flagging Label: | RIN: 8.60 |

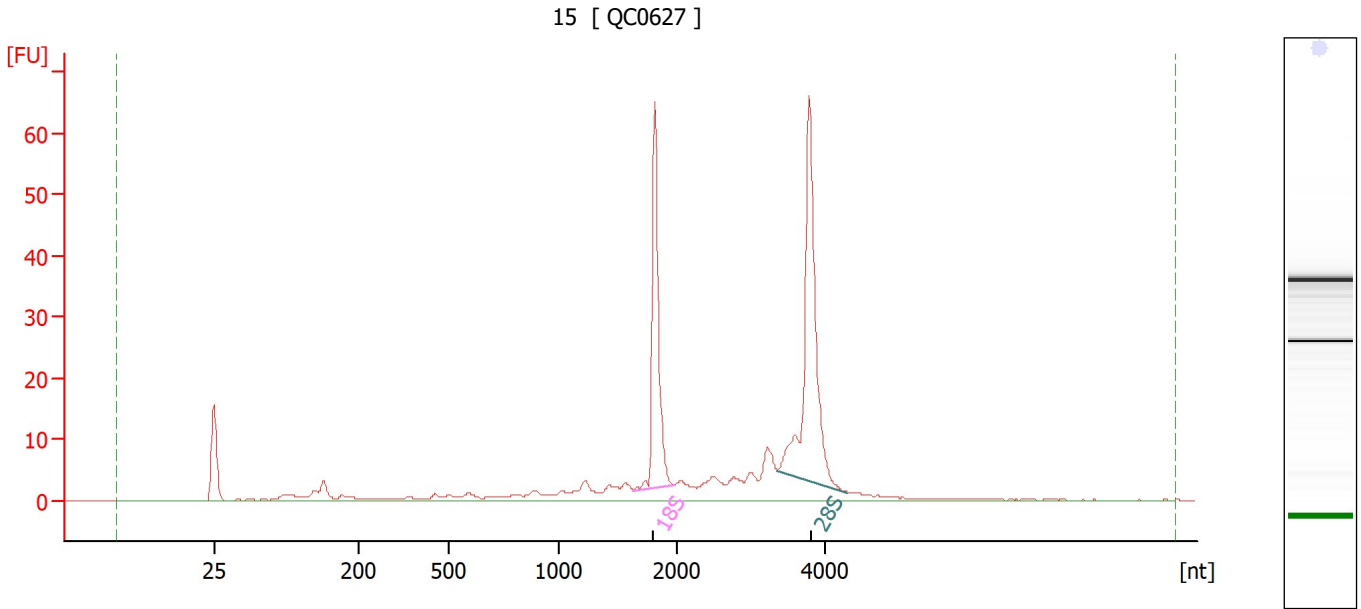
Fragment table for sample 4 : 14

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,658 | 1,999 | 17.9 | 18.0 |
| 28S | 3,726 | 4,234 | 20.5 | 20.5 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 15

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 237.1 | RNA Integrity Number (RIN): | 9.1 (B.02.10) |
| RNA Concentration: | 122 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.5 | Result Flagging Label: | RIN: 9.10 |

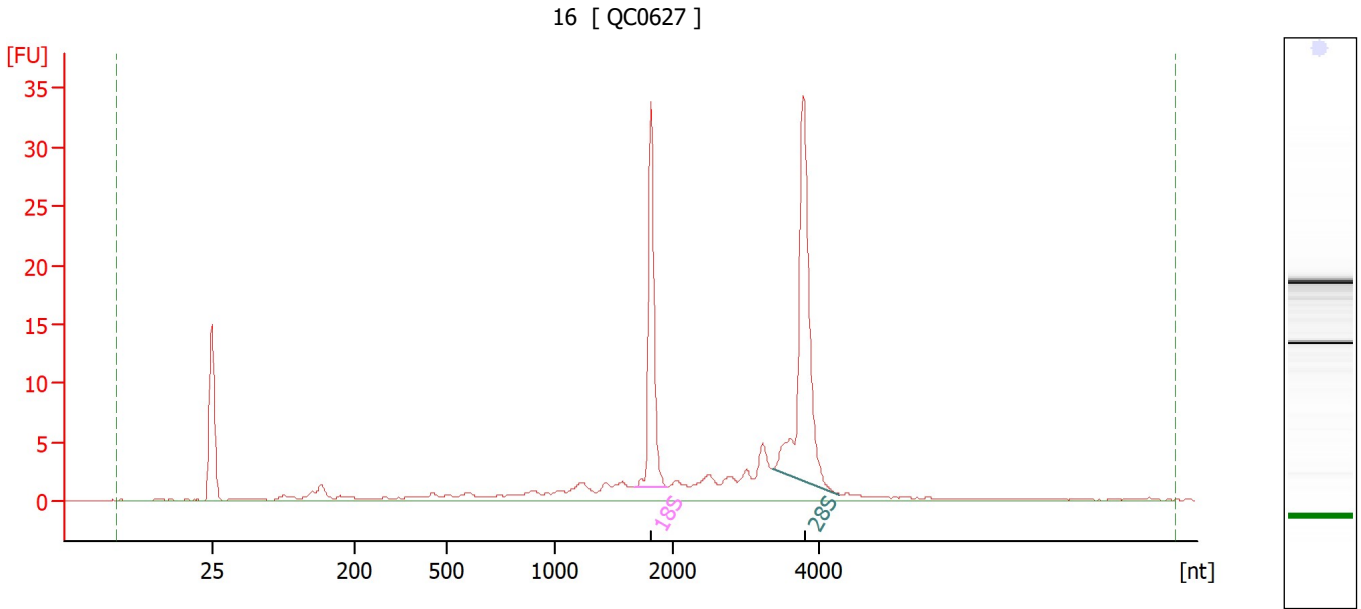
Fragment table for sample 5 : 15

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,629 | 1,981 | 48.8 | 20.6 |
| 28S | 3,365 | 4,324 | 73.2 | 30.9 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 16

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 123.8 | RNA Integrity Number (RIN): | 8.9 (B.02.10) |
| RNA Concentration: | 64 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.5 | Result Flagging Label: | RIN: 8.90 |

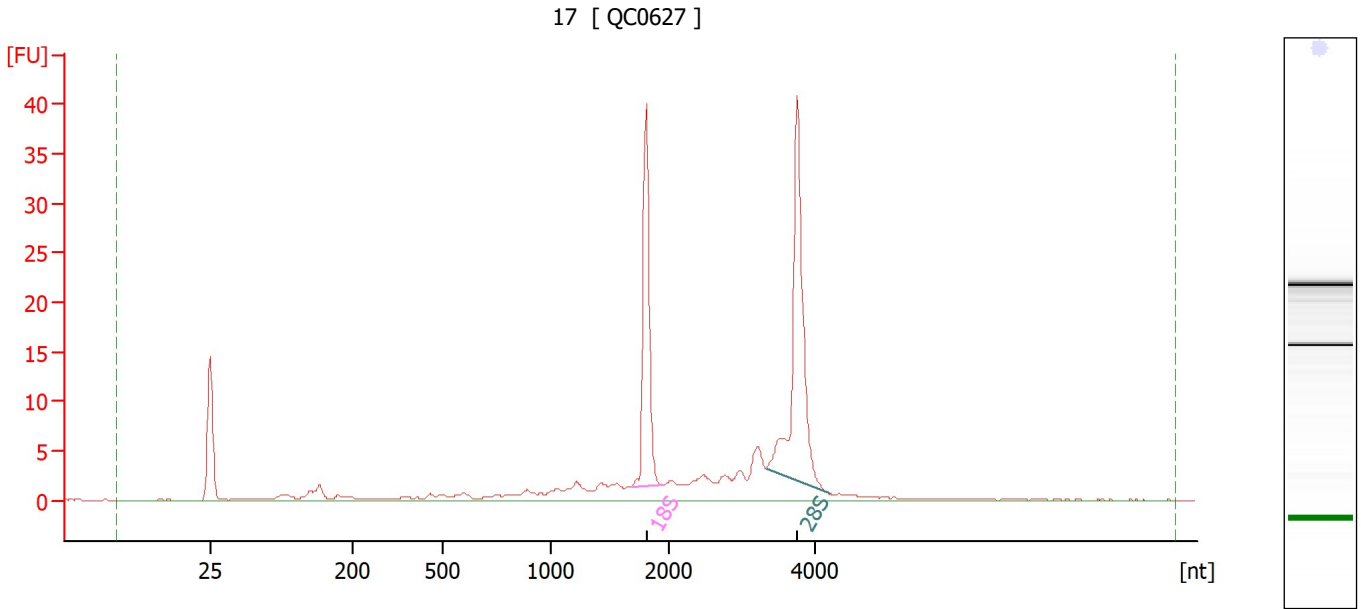
Fragment table for sample 6 : 16

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,680 | 1,952 | 23.9 | 19.3 |
| 28S | 3,353 | 4,272 | 36.2 | 29.2 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 17

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 142.4 | RNA Integrity Number (RIN): | 8.8 (B.02.10) |
| RNA Concentration: | 73 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.5 | Result Flagging Label: | RIN: 8.80 |

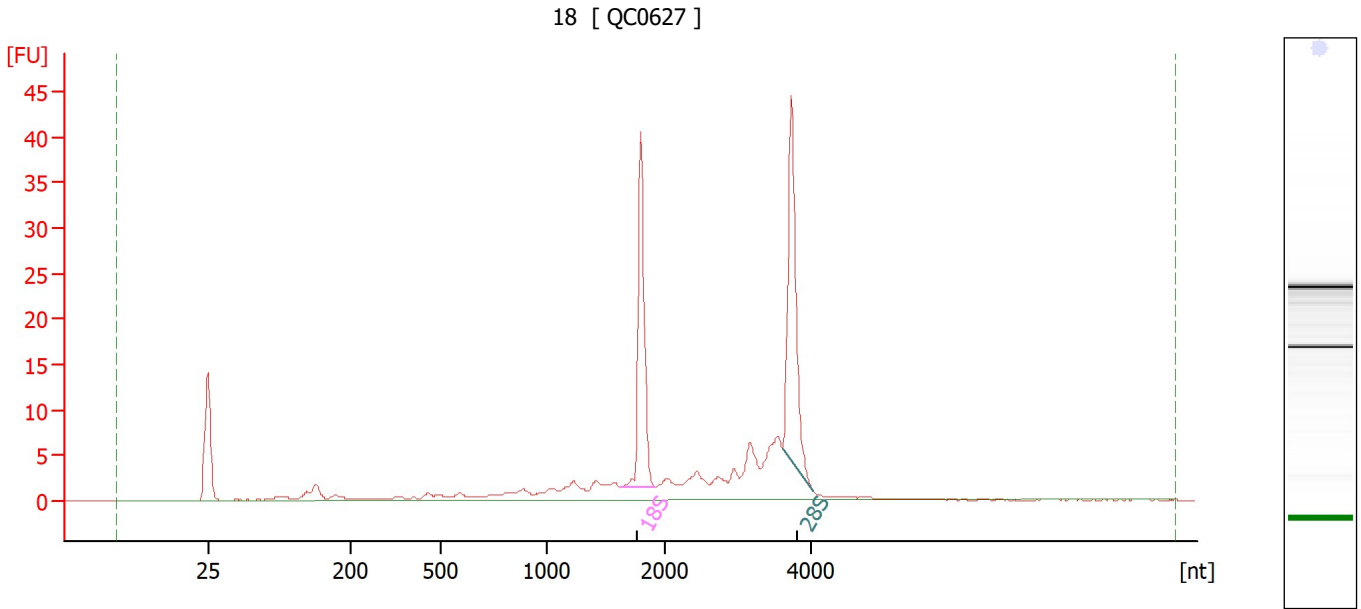
Fragment table for sample 7 : 17

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,686 | 1,940 | 27.5 | 19.3 |
| 28S | 3,341 | 4,191 | 42.3 | 29.7 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 18

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 148.7 | RNA Integrity Number (RIN): | 8.4 (B.02.10) |
| RNA Concentration: | 76 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.2 | Result Flagging Label: | RIN: 8.40 |

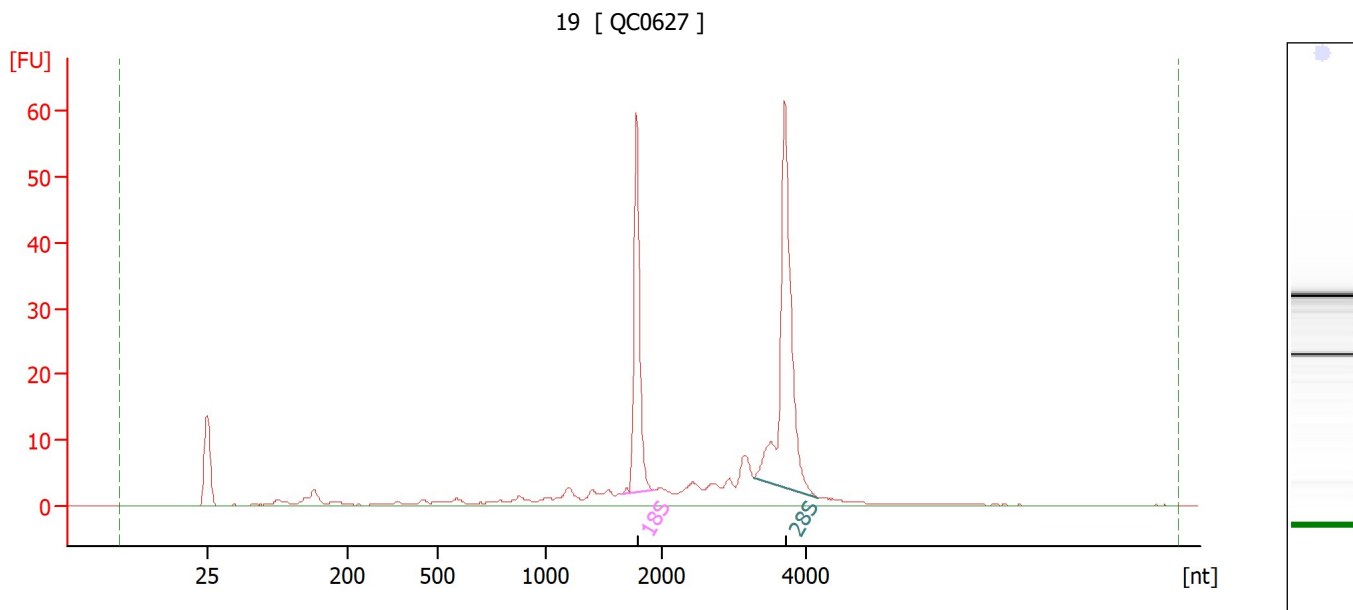
Fragment table for sample 8 : 18

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,619 | 1,920 | 29.0 | 19.5 |
| 28S | 3,623 | 4,050 | 33.6 | 22.6 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 19

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 207.1 | RNA Integrity Number (RIN): | 9.1 (B.02.10) |
| RNA Concentration: | 106 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.6 | Result Flagging Label: | RIN: 9.10 |

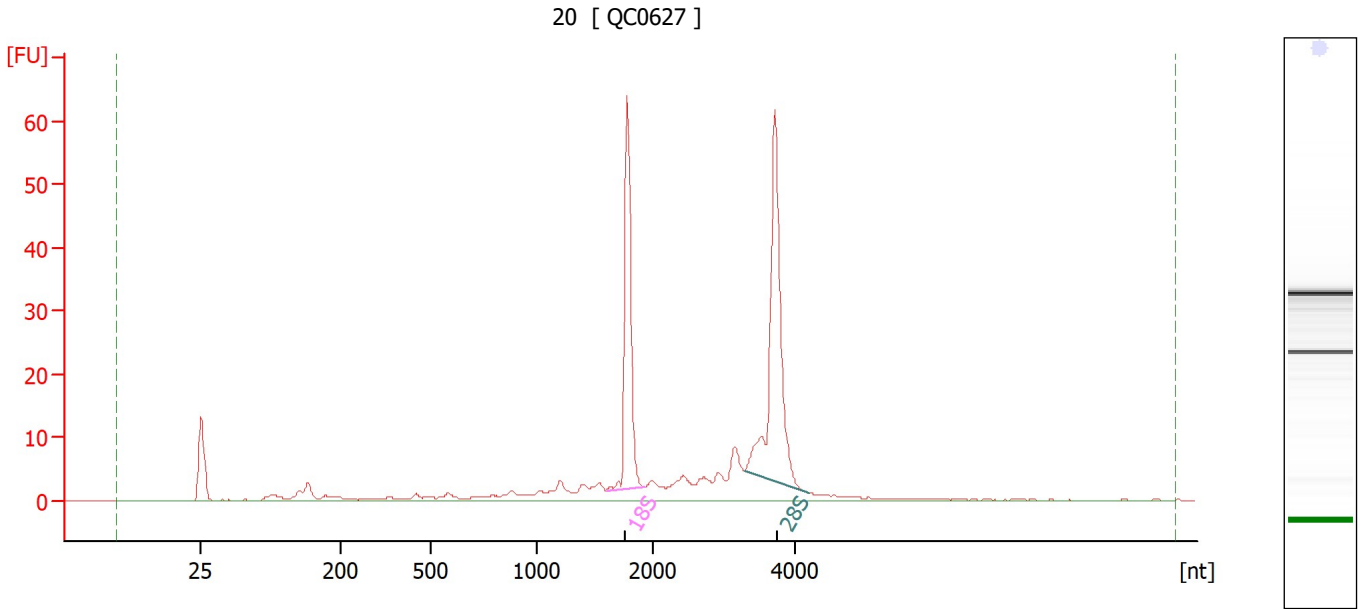
Fragment table for sample 9 : 19

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,660 | 1,926 | 42.4 | 20.5 |
| 28S | 3,288 | 4,162 | 67.6 | 32.7 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 20

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 224.8 | RNA Integrity Number (RIN): | 9 (B.02.10) |
| RNA Concentration: | 116 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.5 | Result Flagging Label: | RIN:9 |

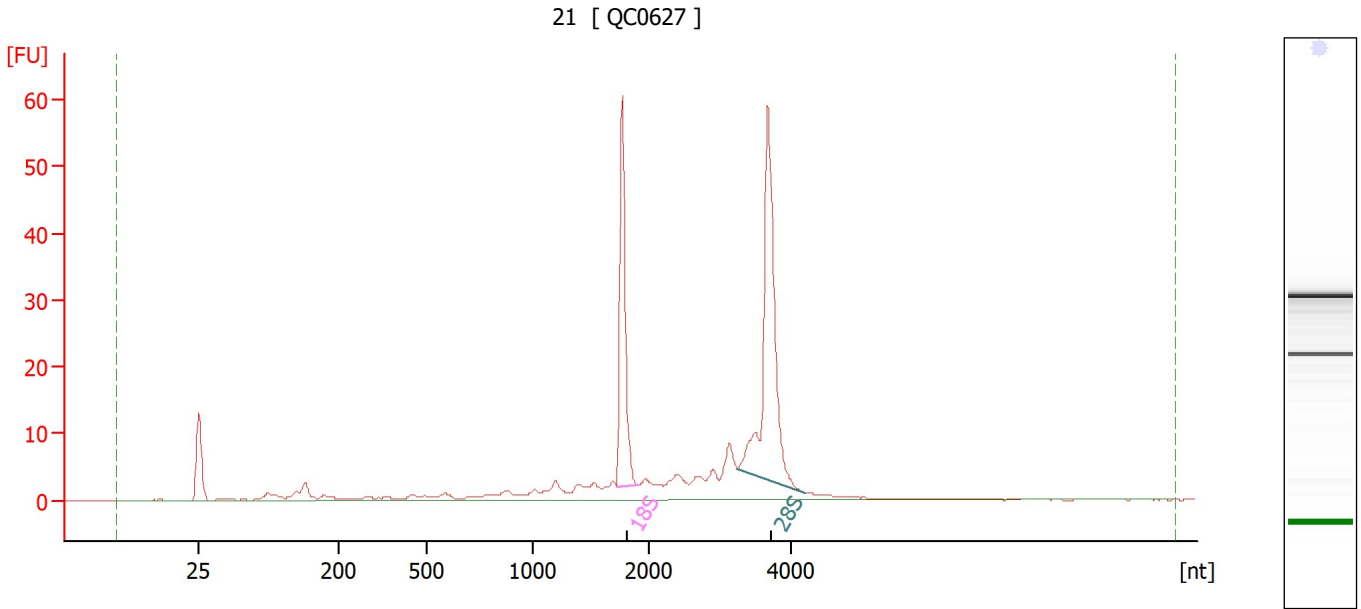
Fragment table for sample 10 : 20

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,600 | 1,932 | 45.1 | 20.1 |
| 28S | 3,277 | 4,172 | 67.6 | 30.1 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 21

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 214.1 | RNA Integrity Number (RIN): | 8.9 (B.02.10) |
| RNA Concentration: | 110 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.6 | Result Flagging Label: | RIN: 8.90 |

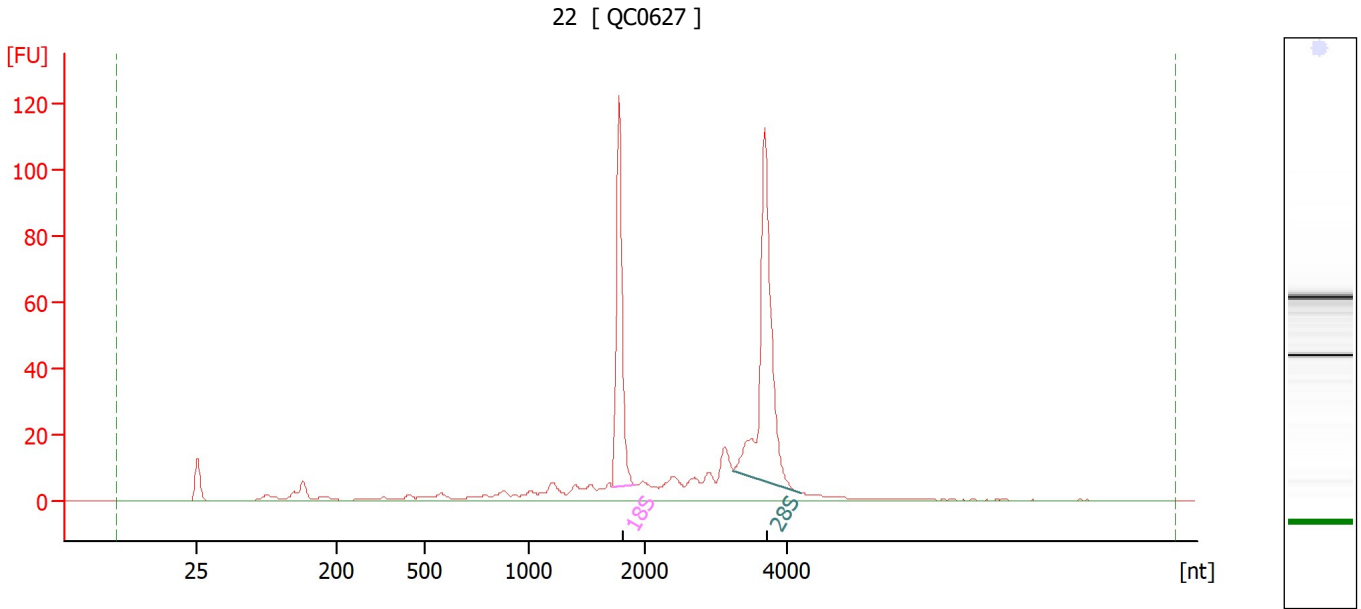
Fragment table for sample 11 : 21

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,717 | 1,921 | 41.9 | 19.6 |
| 28S | 3,250 | 4,178 | 65.8 | 30.7 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
 Modified: 8/11/2020 4:39:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 22

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 420.6 | RNA Integrity Number (RIN): | 8.9 (B.02.10) |
| RNA Concentration: | 216 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.5 | Result Flagging Label: | RIN: 8.90 |

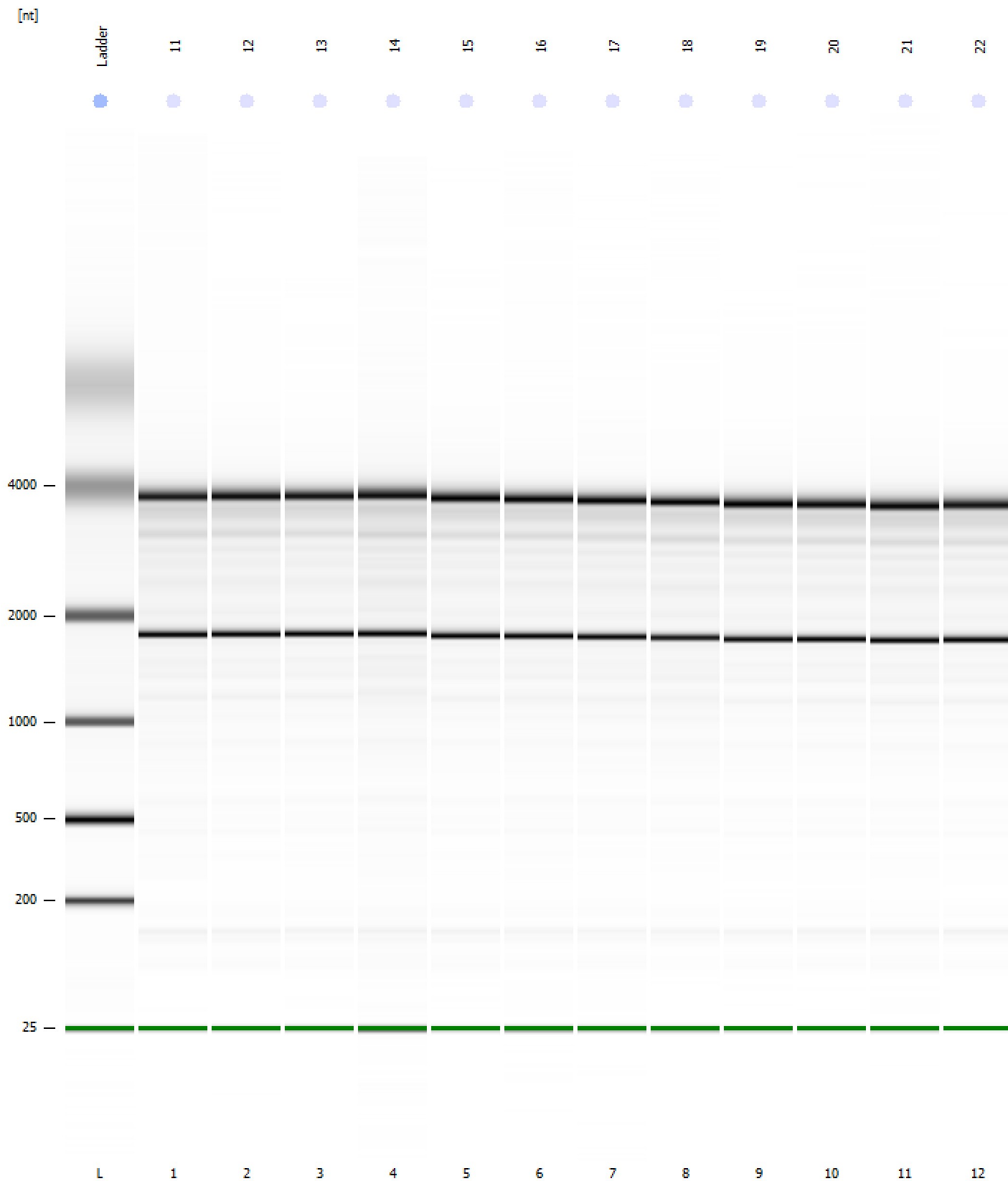
Fragment table for sample 12 : 22

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,723 | 1,919 | 87.0 | 20.7 |
| 28S | 3,252 | 4,215 | 130.7 | 31.1 |

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad

Created: 8/11/2020 1:03:54 PM
Modified: 8/11/2020 4:39:51 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 8/11/2020 1:03:54 PM
 Data Path: Z:\...11\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-11_001.xad Modified: 8/11/2020 4:39:51 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|--|--------|------------|----------|--------------|----------------------|-------------------------------------|---------|------------------|
| Run ended on port 1 (Number of wells acquired: 13) | | Instrument | Run | | 8/11/2020 1:27:43 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Run started on port 1 (File: Z:\XADs\2020-08-11\Bioanalyze r1_Eukaryote Total RNA Nano_2020-08-11_001.xad) | | Instrument | Run | | 8/11/2020 1:04:00 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Product Number : G2938C | | Instrument | Run | | 8/11/2020 1:04:00 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Name : | | Instrument | Run | | 8/11/2020 1:04:00 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Vendor : Agilent Technologies | | Instrument | Run | | 8/11/2020 1:04:00 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Serial# : DE34903152 | | Instrument | Run | | 8/11/2020 1:04:00 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Firmware : C.01.069 | | Instrument | Run | | 8/11/2020 1:04:00 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Cartridge : Electrode | | Instrument | Run | | 8/11/2020 1:04:00 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |