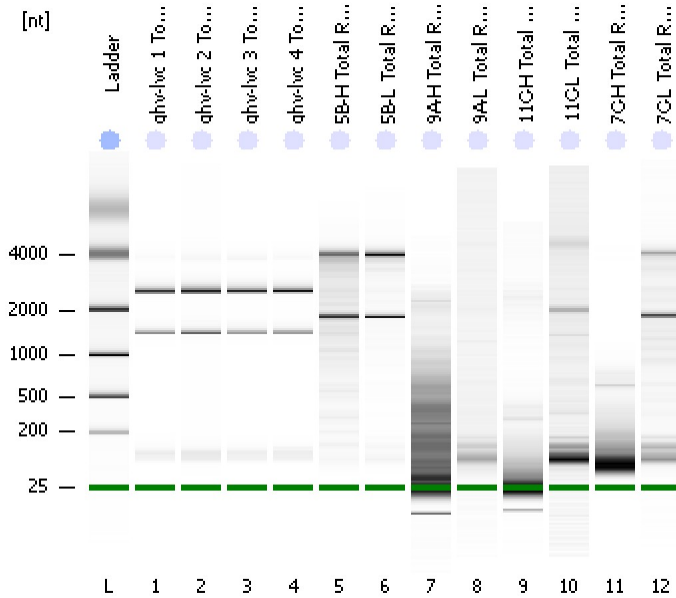


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 PM

Electrophoresis File Run Summary



Instrument Information:

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

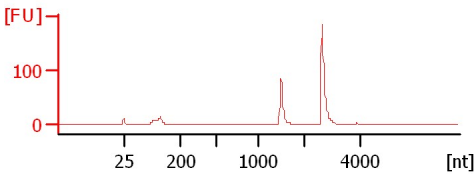
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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.

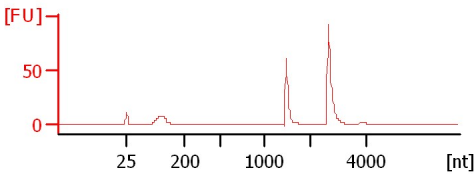
Chip Information:

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

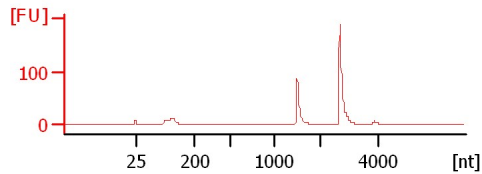
ghv-lvc 1 Total RNA
RIN:10



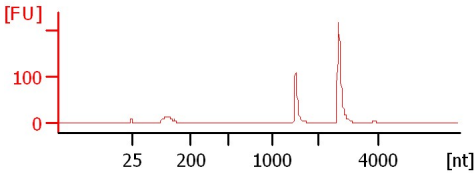
ghv-lvc 2 Total RNA 1:2
RIN:10



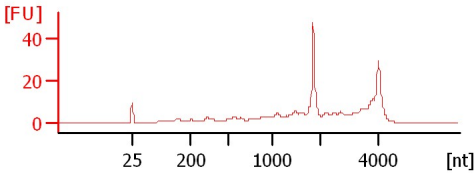
ghv-lvc 3 Total RNA
RIN: 7.10



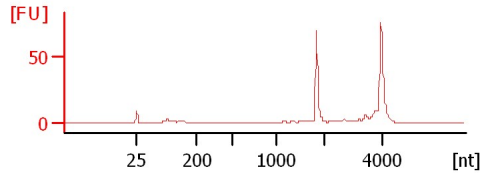
ghv-lvc 4 Total RNA
RIN: 7.30



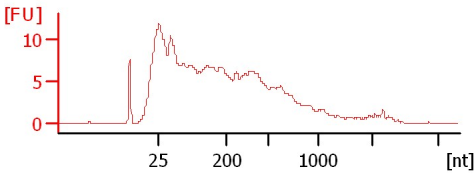
5B-H Total RNA
RIN: 6.90



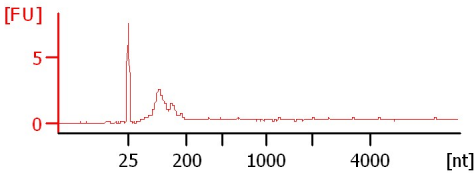
5B-L Total RNA 1:2
RIN: 9.30



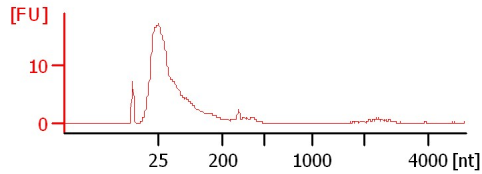
9A-H Total RNA 1:2
RIN: 2.40



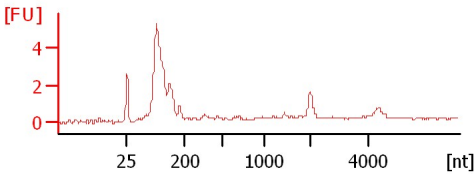
9A-L Total RNA 1:6
RIN: 2.50



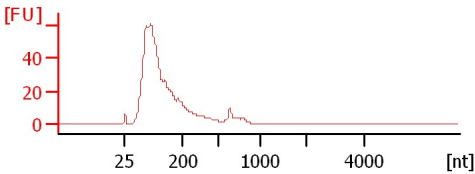
11C-H Total RNA 1:4
RIN: 2.20



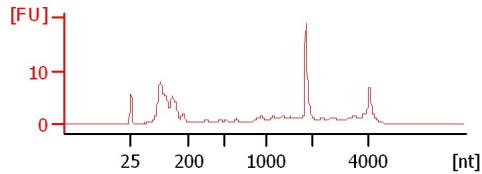
11C-L Total RNA
RIN: 3.40



7C-H Total RNA 1:3
RIN: 2.40



7C-L Total RNA
RIN: 6.80



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------------------|----------------|--------|-------------------|--------------|
| ghv-lvc 1 Total RNA | | ✓ | RIN:10 | |
| ghv-lvc 2 Total RNA 1:2 | | ✓ | RIN:10 | |
| ghv-lvc 3 Total RNA | | ✓ | RIN: 7.10 | |
| ghv-lvc 4 Total RNA | | ✓ | RIN: 7.30 | |
| 5B-H Total RNA | | ✓ | RIN: 6.90 | |
| 5B-L Total RNA 1:2 | | ✓ | RIN: 9.30 | |
| 9A-H Total RNA 1:2 | | ✓ | RIN: 2.40 | |
| 9A-L Total RNA 1:6 | | ✓ | RIN: 2.50 | |
| 11C-H Total RNA 1:4 | | ✓ | RIN: 2.20 | |
| 11C-L Total RNA | | ✓ | RIN: 3.40 | |
| 7C-H Total RNA 1:3 | | ✓ | RIN: 2.40 | |
| 7C-L Total RNA | | ✓ | RIN: 6.80 | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 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

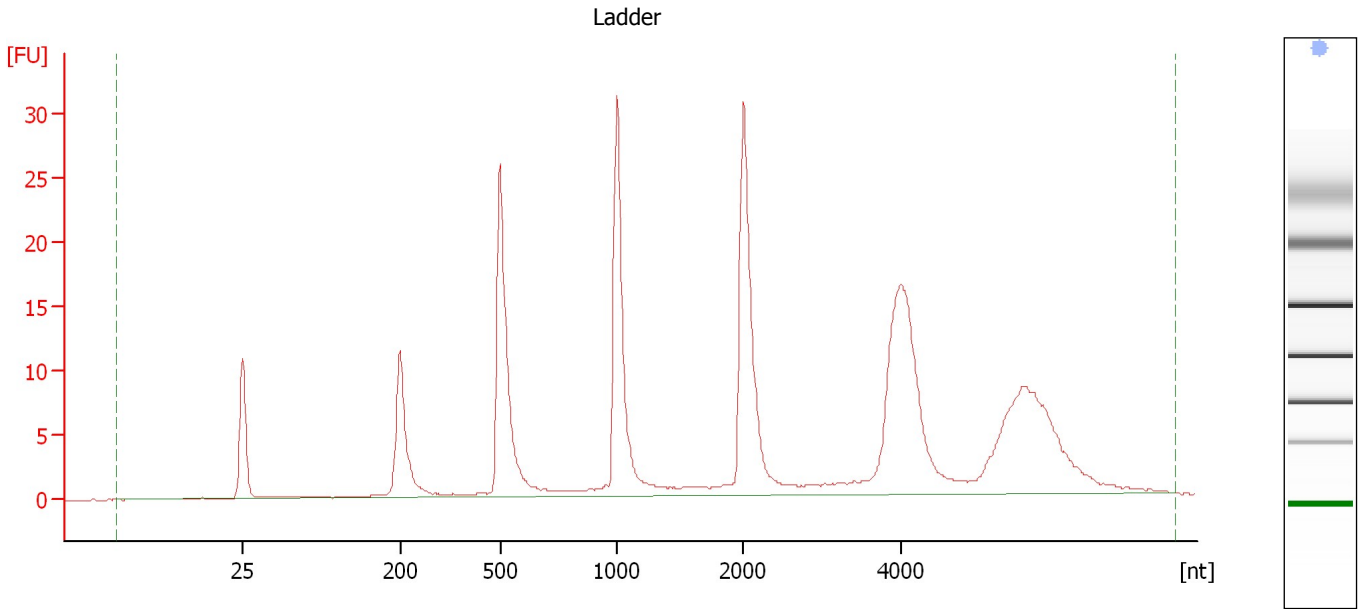
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 PM

Electropherogram Summary



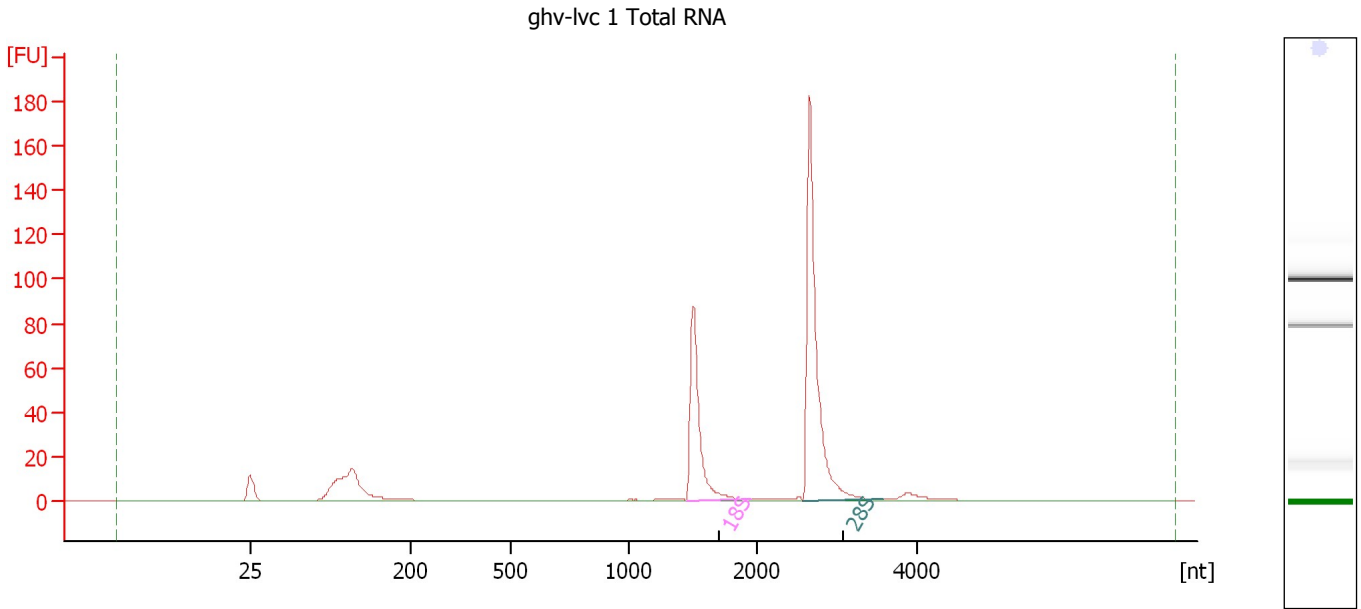
Overall Results for Ladder

| | | | |
|--------------------|-----------|------------------------|---|
| RNA Area: | 244.5 | Result Flagging Color: | |
| RNA Concentration: | 150 ng/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : ghv-lvc 1 Total RNA

RNA Area: 370.7 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 227 ng/μl
rRNA Ratio [28s / 18s]: 2.0
Result Flagging Color:
Result Flagging Label: RIN:10

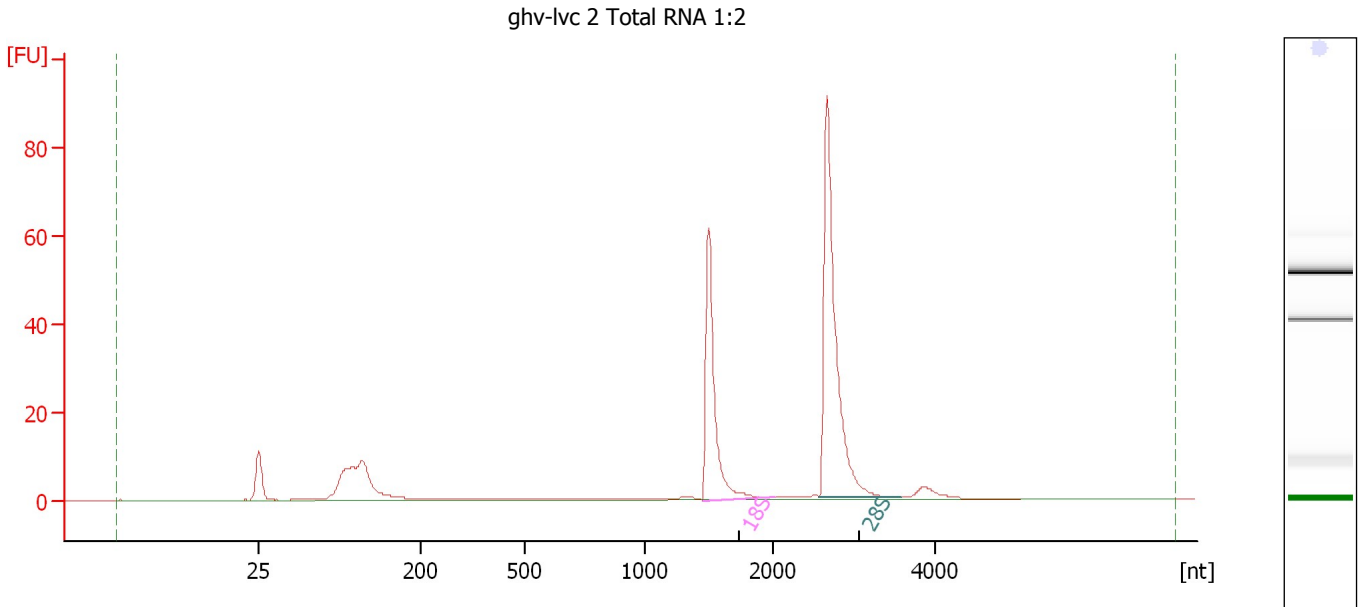
Fragment table for sample 1 : ghv-lvc 1 Total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,444 | 1,954 | 88.6 | 23.9 |
| 28S | 2,571 | 3,577 | 180.6 | 48.7 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
 Modified: 1/22/2014 3:00:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : ghv-lvc 2 Total RNA 1:2

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 238.0 | RNA Integrity Number (RIN): | 10 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 146 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 1.8 | Result Flagging Label: | RIN:10 |

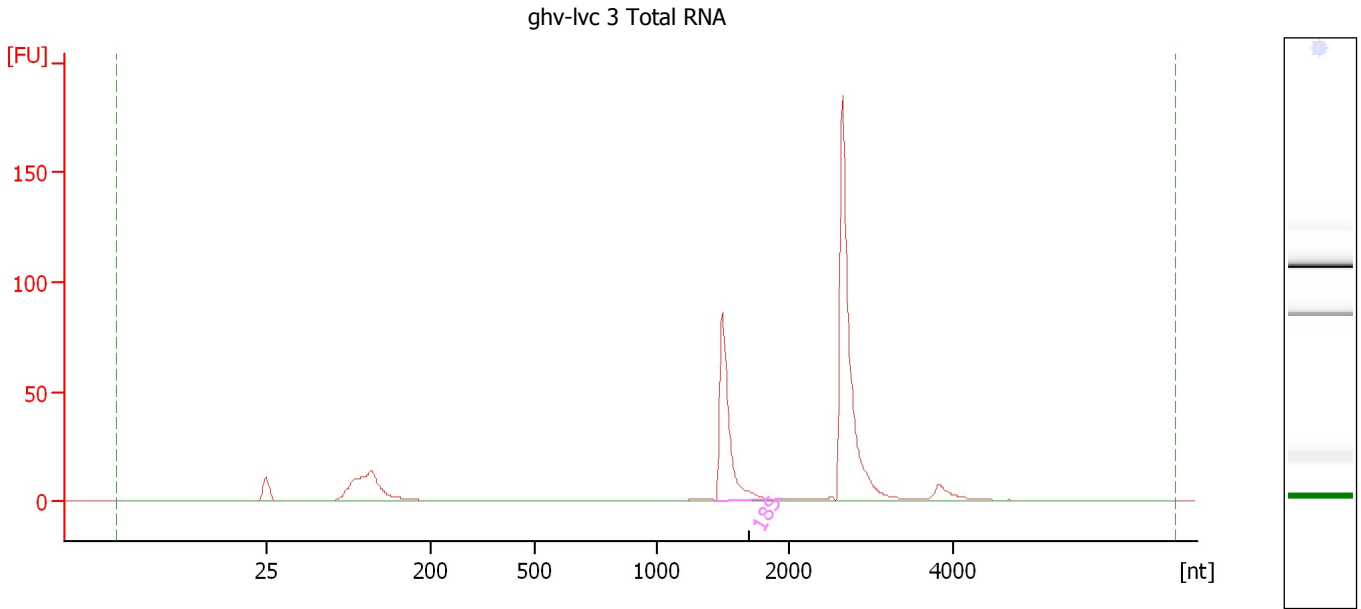
Fragment table for sample 2 : ghv-lvc 2 Total RNA 1:2

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,449 | 2,002 | 58.5 | 24.6 |
| 28S | 2,557 | 3,561 | 107.5 | 45.2 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : ghv-lvc 3 Total RNA

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 384.6 | RNA Integrity Number (RIN): | 7.1 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 236 ng/μl | | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Color: | |
| | | Result Flagging Label: | RIN: 7.10 |

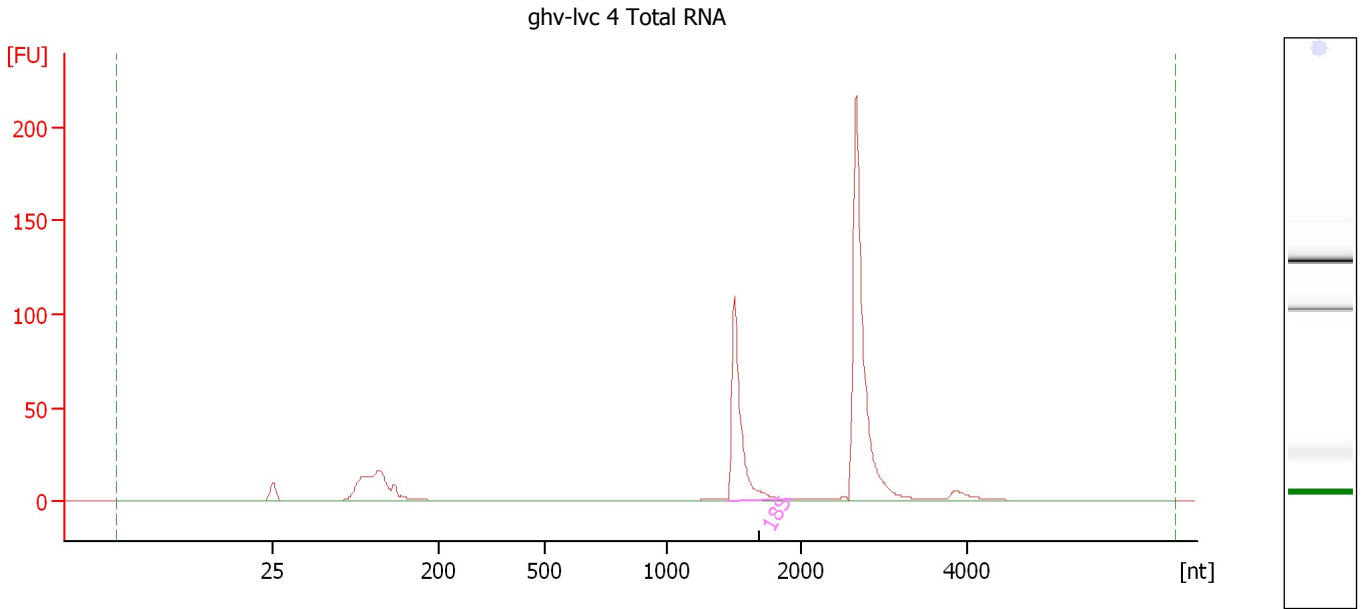
Fragment table for sample 3 : ghv-lvc 3 Total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,445 | 1,981 | 88.6 | 23.0 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ghv-lvc 4 Total RNA

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 453.1 | RNA Integrity Number (RIN): | 7.3 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 278 ng/μl | | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Color: | |
| | | Result Flagging Label: | RIN: 7.30 |

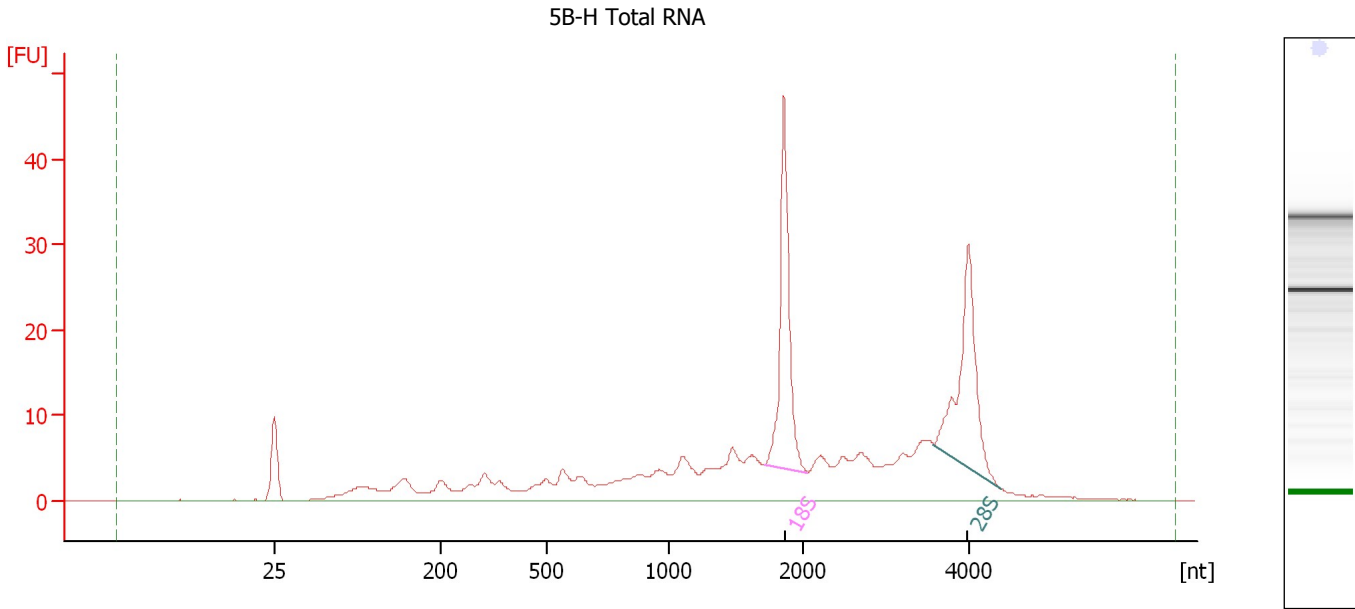
Fragment table for sample 4 : ghv-lvc 4 Total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 1,447 | 1,945 | 108.7 | 24.0 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 5B-H Total RNA

RNA Area: 292.2 RNA Integrity Number (RIN): 6.9 (B.02.08)
RNA Concentration: 179 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 6.90

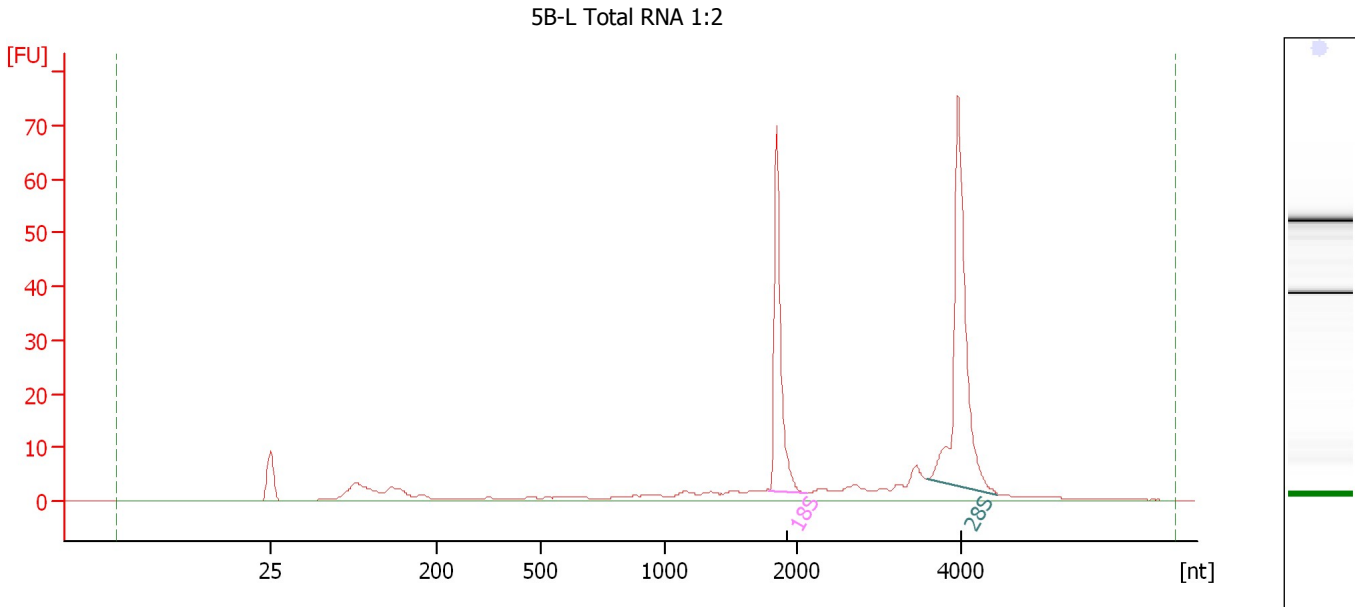
Fragment table for sample 5 : 5B-H Total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,713 | 2,055 | 39.7 | 13.6 |
| 28S | 3,573 | 4,384 | 38.7 | 13.2 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 5B-L Total RNA 1:2

RNA Area: 227.3 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 139 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.30

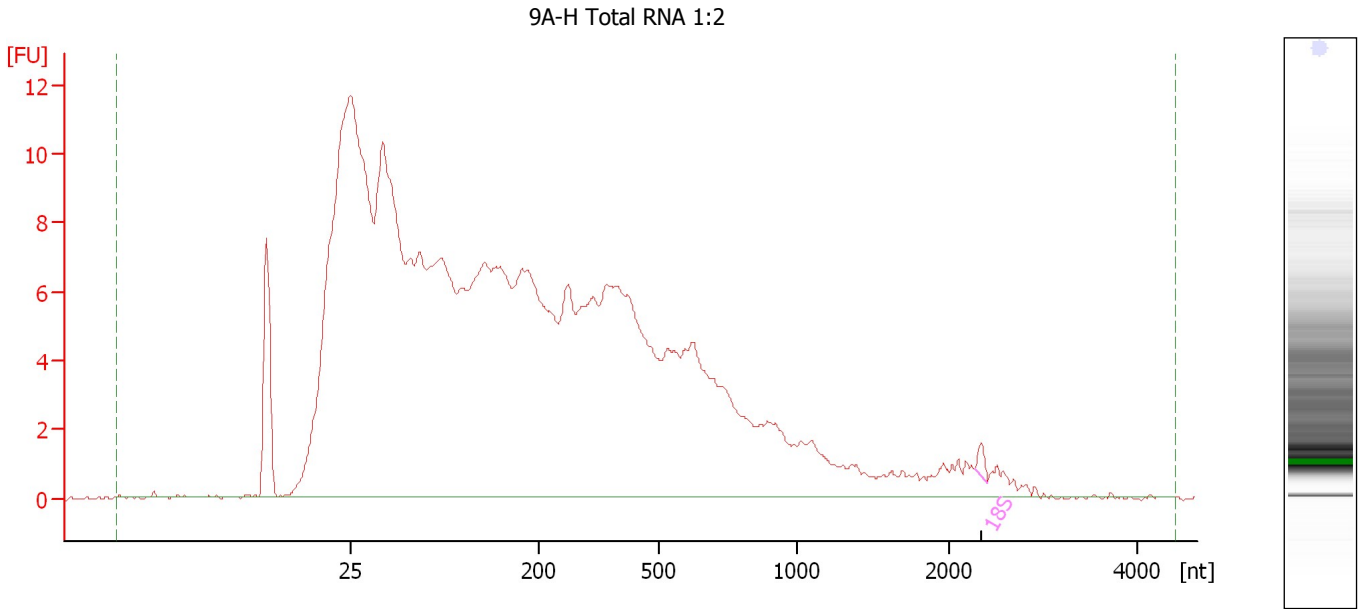
Fragment table for sample 6 : 5B-L Total RNA 1:2

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,798 | 2,130 | 49.2 | 21.6 |
| 28S | 3,579 | 4,433 | 75.5 | 33.2 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 9A-H Total RNA 1:2

RNA Area: 295.9 RNA Integrity Number (RIN): 2.4 (B.02.08)
RNA Concentration: 182 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.40

Fragment table for sample 7 : 9A-H Total RNA 1:2

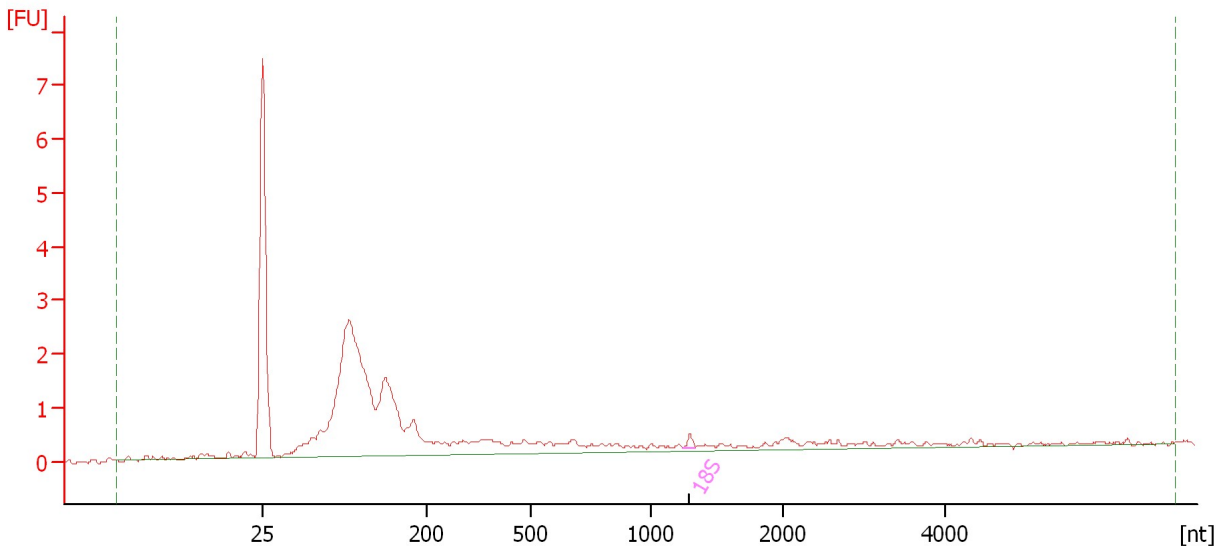
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 2,282 | 2,419 | 0.6 | 0.2 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 PM

Electropherogram Summary Continued ...

9A-L Total RNA 1:6



Overall Results for sample 8 : 9A-L Total RNA 1:6

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 27.4 | RNA Integrity Number (RIN): | 2.5 (B.02.08) |
| RNA Concentration: | 17 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.50 |

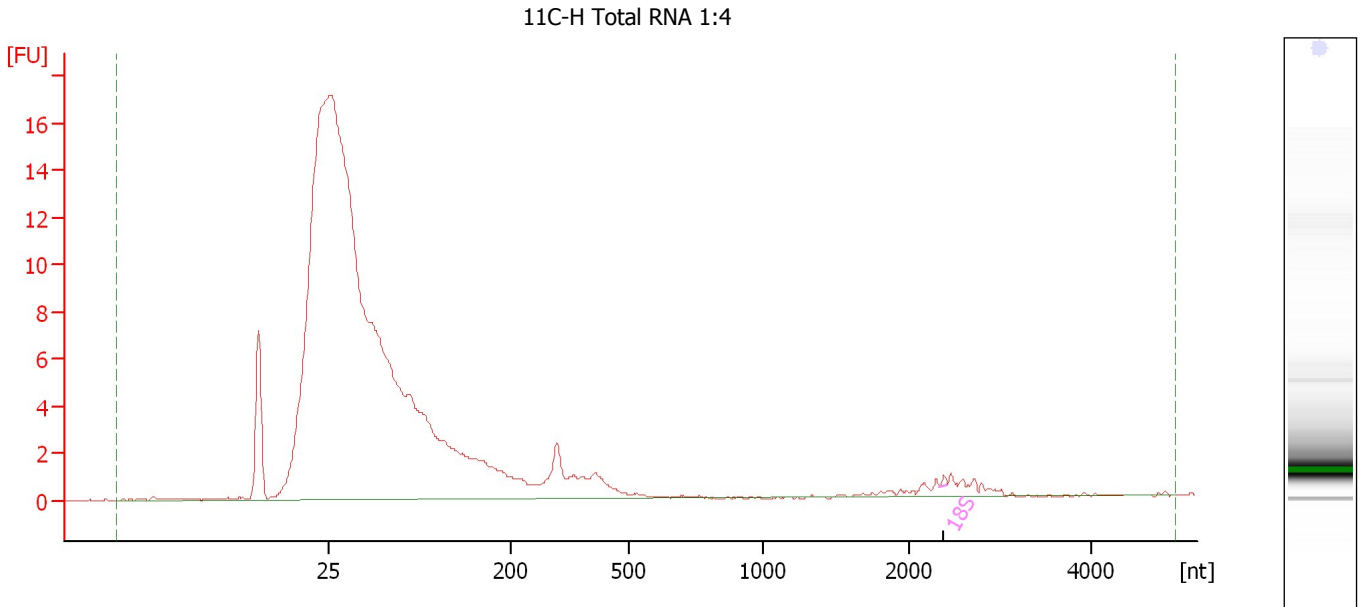
Fragment table for sample 8 : 9A-L Total RNA 1:6

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,244 | 1,334 | 0.2 | 0.6 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 11C-H Total RNA 1:4

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 58.0 | RNA Integrity Number (RIN): | 2.2 (B.02.08) |
| RNA Concentration: | 36 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.20 |

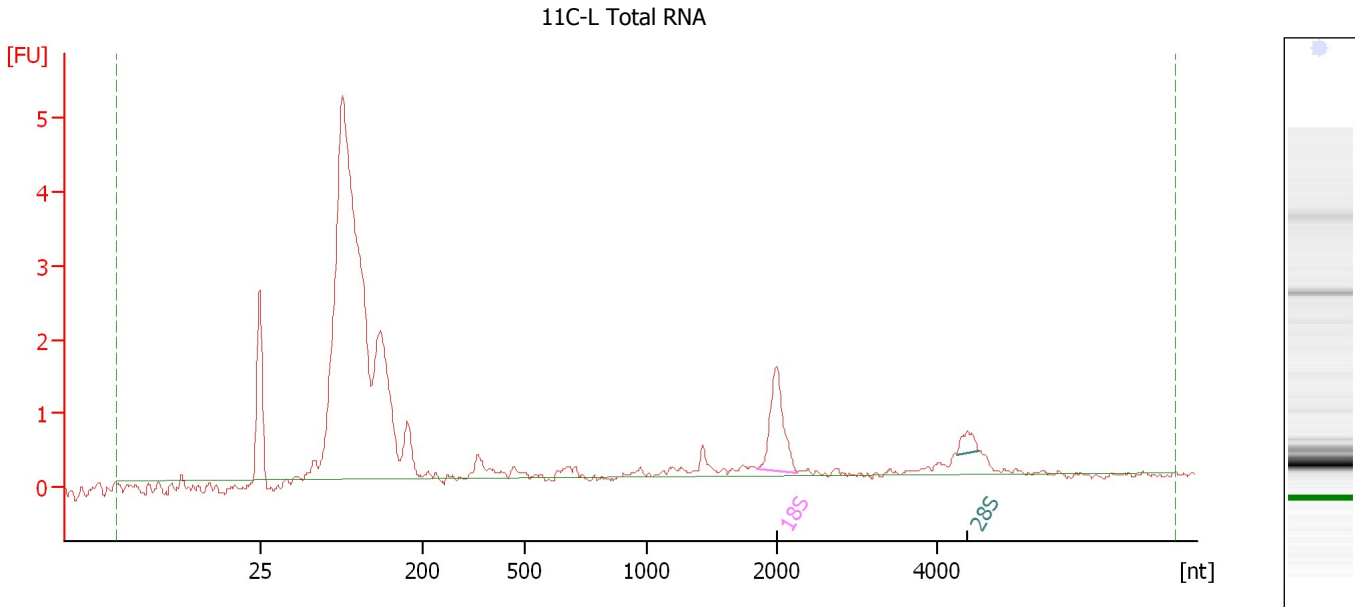
Fragment table for sample 9 : 11C-H Total RNA 1:4

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 2,332 | 2,415 | 0.1 | 0.2 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
 Modified: 1/22/2014 3:00:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 11C-L Total RNA

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 35.8 | RNA Integrity Number (RIN): | 3.4 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 22 ng/μl | | |
| rRNA Ratio [28s / 18s]: | 0.2 | Result Flagging Color: | |
| | | Result Flagging Label: | RIN: 3.40 |

Fragment table for sample 10 : 11C-L Total RNA

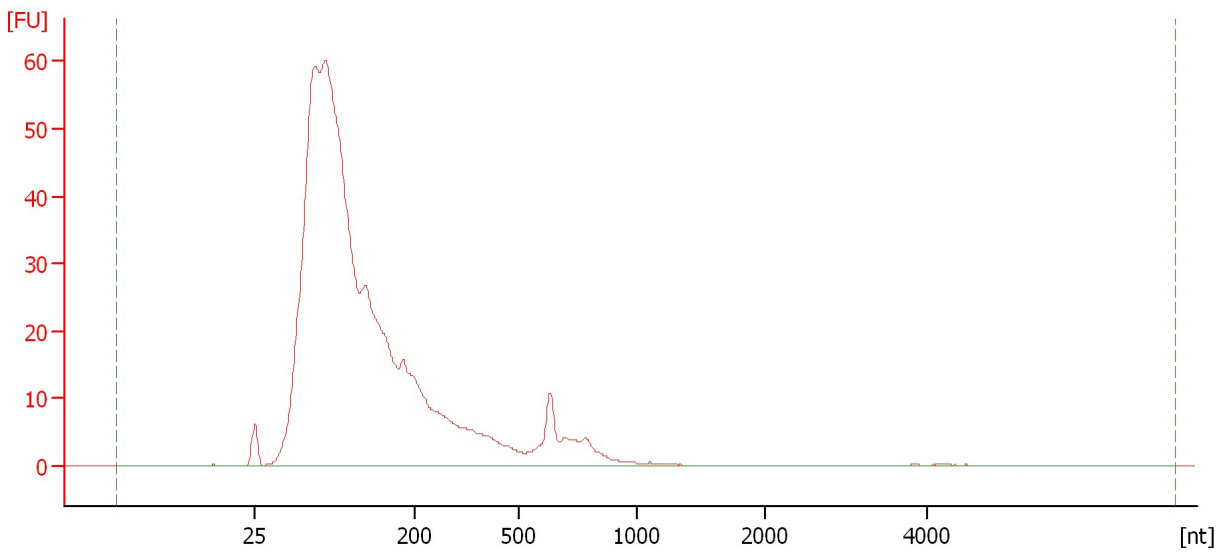
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,846 | 2,267 | 2.0 | 5.5 |
| 28S | 4,232 | 4,496 | 0.3 | 0.9 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 PM

Electropherogram Summary Continued ...

7C-H Total RNA 1:3



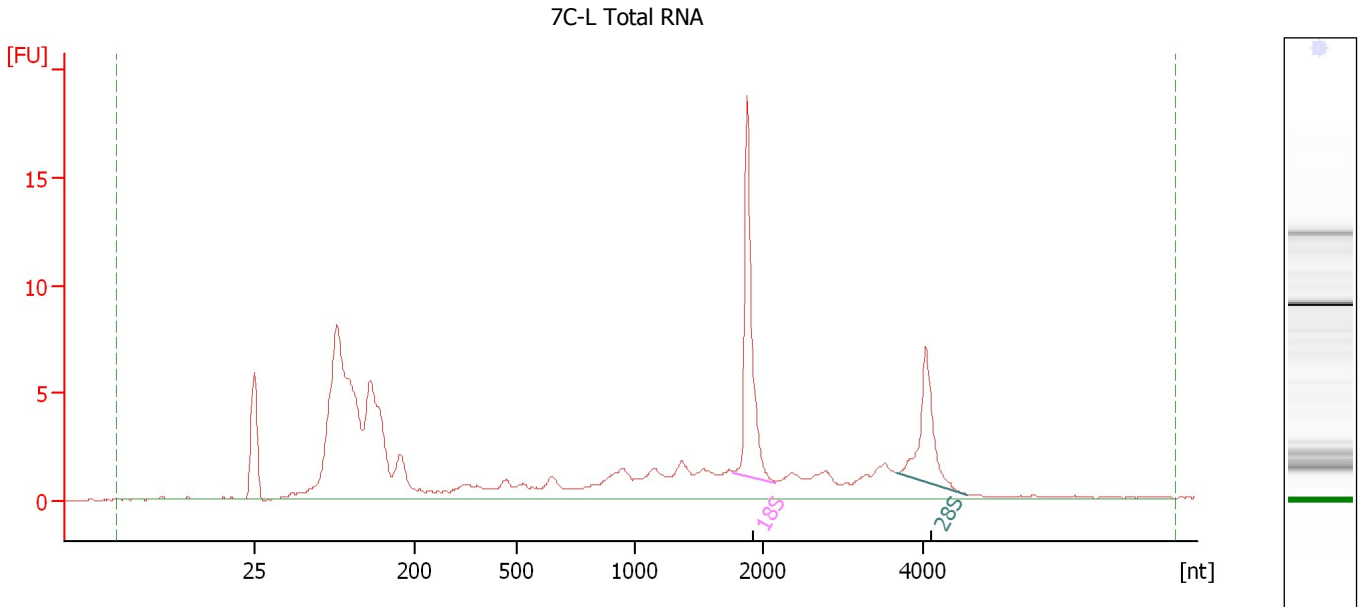
Overall Results for sample 11 : 7C-H Total RNA 1:3

| | | | |
|-------------------------|-----------|-----------------------------|---|
| RNA Area: | 757.2 | RNA Integrity Number (RIN): | 2.4 (B.02.08) |
| RNA Concentration: | 465 ng/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.40 |

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
 Modified: 1/22/2014 3:00:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 7C-L Total RNA

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 126.1 | RNA Integrity Number (RIN): | 6.8 (B.02.08, Anomaly Threshold(s) manually adapted) |
| RNA Concentration: | 77 ng/μl | | |
| rRNA Ratio [28s / 18s]: | 0.5 | Result Flagging Color: | |
| | | Result Flagging Label: | RIN: 6.80 |

Fragment table for sample 12 : 7C-L Total RNA

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,765 | 2,143 | 14.0 | 11.1 |
| 28S | 3,665 | 4,545 | 7.6 | 6.0 |

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_004.xad

Created: 1/22/2014 2:29:35 PM
Modified: 1/22/2014 3:00:33 PM

Gel Image

