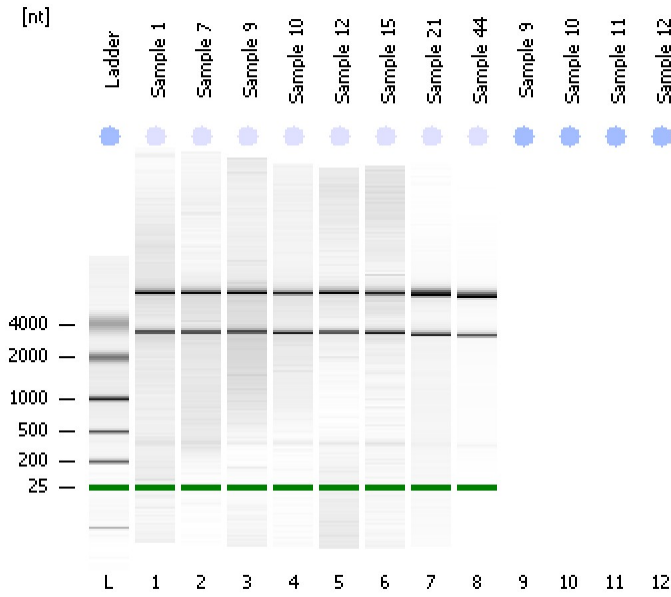


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
Modified: 2/27/2017 4:39:38 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\Plant RNA Nano.xsy

Assay Class: Plant RNA Nano

Version: 1.3

Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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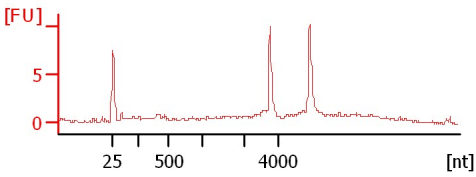
Chip Information:

Chip Lot #:

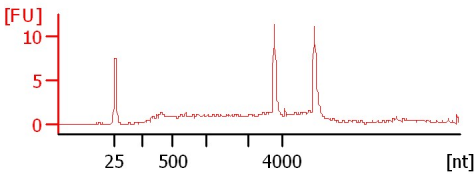
Reagent Kit Lot #:

Chip Comments:

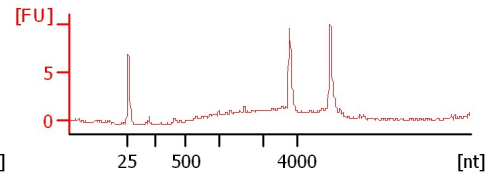
Sample 1
RIN: 7.40



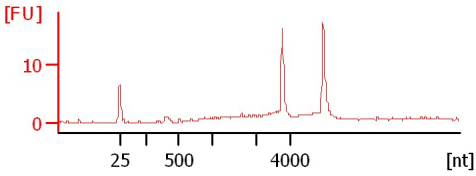
Sample 7
RIN: 6.70



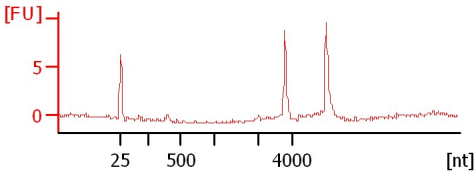
Sample 9
RIN: 6.60



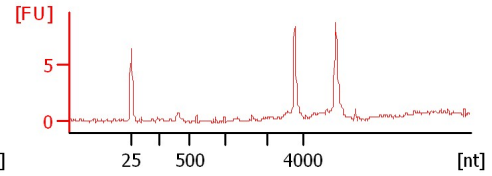
Sample 10
RIN: 7.60



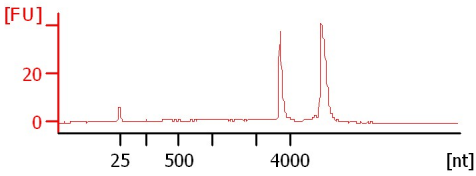
Sample 12
RIN: 10



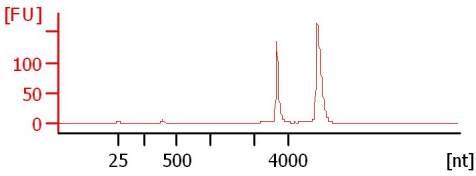
Sample 15
RIN: 9.50



Sample 21
RIN: 8.60



Sample 44
RIN: 9.70



Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
 Modified: 2/27/2017 4:39:38 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| Sample 1 | | ✓ | RIN: 7.40 | |
| Sample 7 | | ✓ | RIN: 6.70 | |
| Sample 9 | | ✓ | RIN: 6.60 | |
| Sample 10 | | ✓ | RIN: 7.60 | |
| Sample 12 | | ✓ | RIN:10 | |
| Sample 15 | | ✓ | RIN: 9.50 | |
| Sample 21 | | ✓ | RIN: 8.60 | |
| Sample 44 | | ✓ | RIN: 9.70 | |
| Sample 9 | | | | |
| Sample 10 | | | | |
| Sample 11 | | | | |
| Sample 12 | | | | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
Modified: 2/27/2017 4:39:38 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ 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] : 19
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.2
Area Threshold : 0.1
Width Threshold [s] : 0.2
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

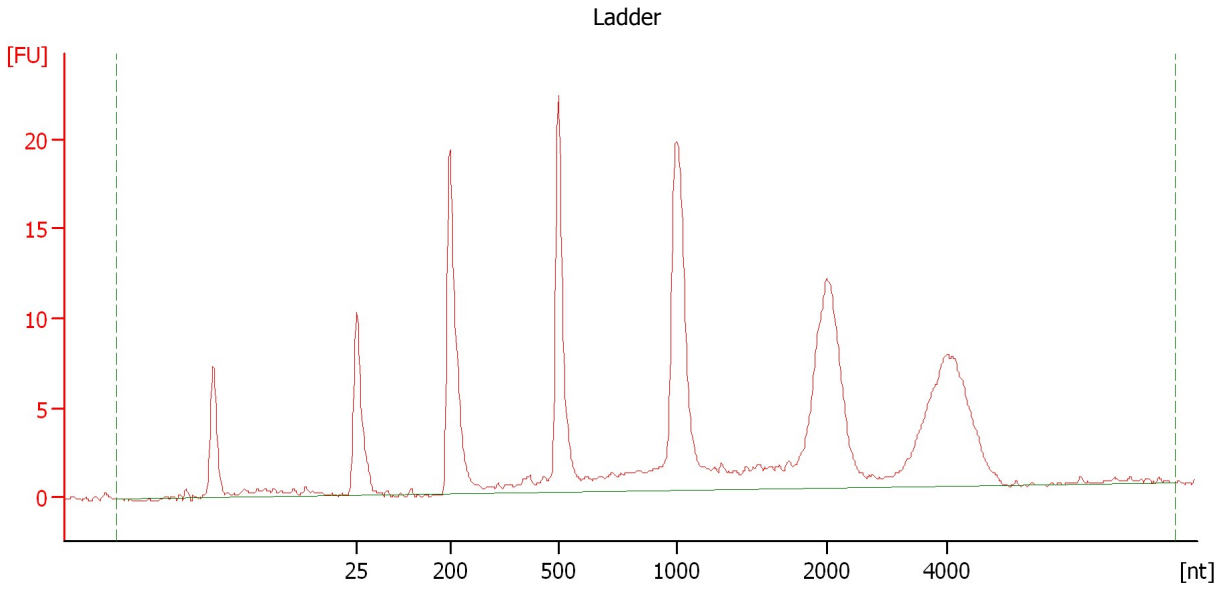
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
Modified: 2/27/2017 4:39:38 PM

Electropherogram Summary



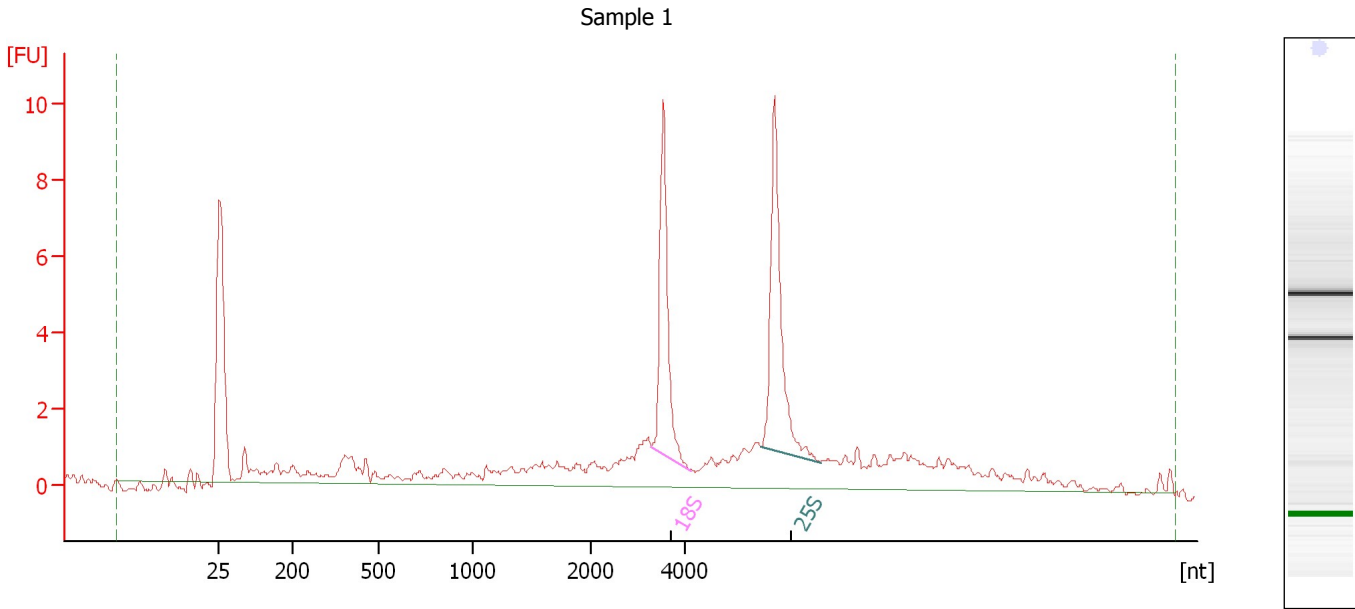
Overall Results for Ladder

| | | | |
|--------------------|-----------|------------------------|---|
| RNA Area: | 189.2 | Result Flagging Color: | |
| RNA Concentration: | 150 ng/μl | Result Flagging Label: | All Other Samples |

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
Modified: 2/27/2017 4:39:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 64.7 | RNA Integrity Number (RIN): | 7.4 (B.02.08) |
| RNA Concentration: | 51 ng/μl | Result Flagging Color: | |
| rRNA Ratio [25s / 18s]: | 1.2 | Result Flagging Label: | RIN: 7.40 |

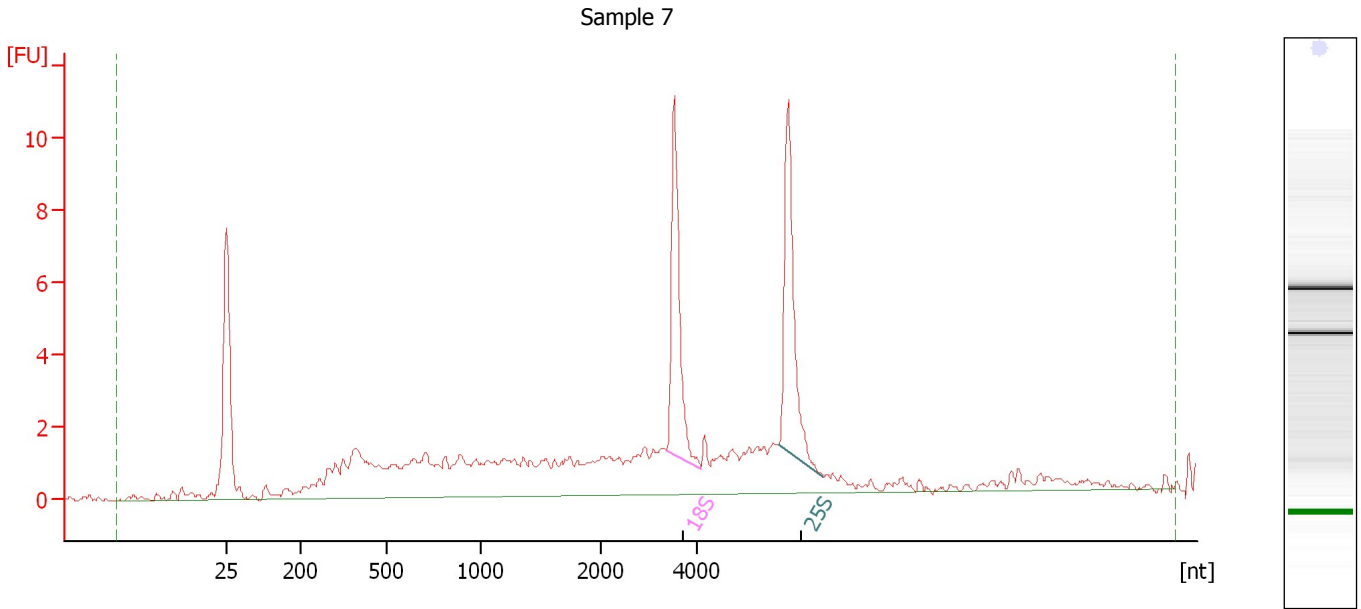
Fragment table for sample 1 : Sample 1

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 3,278 | 4,107 | 8.3 | 12.8 |
| 25S | 5,562 | 6,817 | 10.0 | 15.4 |

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
 Modified: 2/27/2017 4:39:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 7

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 84.9 | RNA Integrity Number (RIN): | 6.7 (B.02.08) |
| RNA Concentration: | 67 ng/μl | Result Flagging Color: | |
| rRNA Ratio [25s / 18s]: | 1.1 | Result Flagging Label: | RIN: 6.70 |

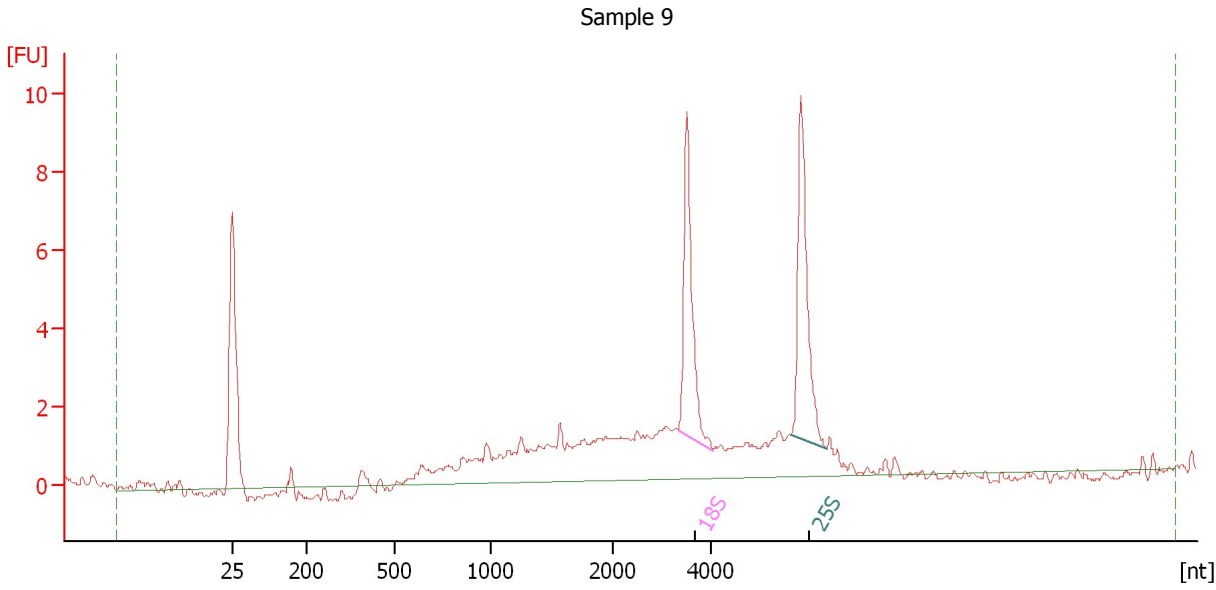
Fragment table for sample 2 : Sample 7

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 3,345 | 4,075 | 8.8 | 10.3 |
| 25S | 5,668 | 6,597 | 9.2 | 10.8 |

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
 Modified: 2/27/2017 4:39:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 9

| | | | |
|-------------------------|----------|-----------------------------|---|
| RNA Area: | 58.7 | RNA Integrity Number (RIN): | 6.6 (B.02.08) |
| RNA Concentration: | 47 ng/μl | Result Flagging Color: | |
| rRNA Ratio [25s / 18s]: | 1.0 | Result Flagging Label: | RIN: 6.60 |

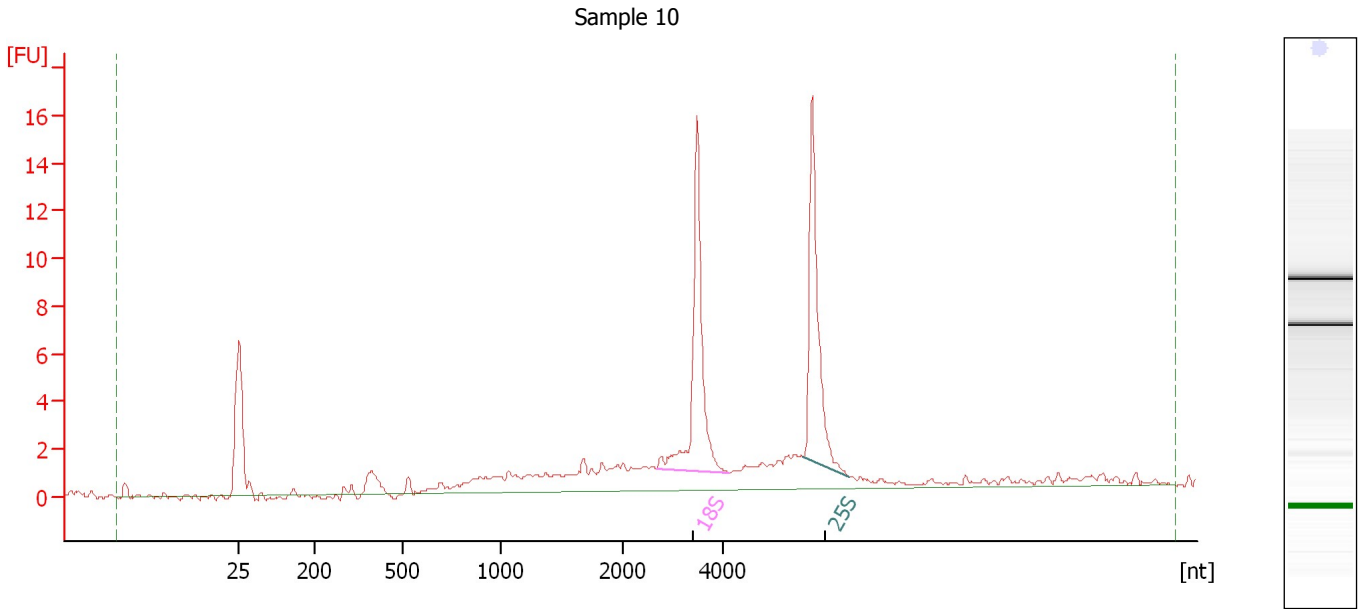
Fragment table for sample 3 : Sample 9

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 3,344 | 4,044 | 7.9 | 13.5 |
| 25S | 5,661 | 6,404 | 8.1 | 13.8 |

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
Modified: 2/27/2017 4:39:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 10

RNA Area: 74.5 RNA Integrity Number (RIN): 7.6 (B.02.08)
RNA Concentration: 59 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.9 Result Flagging Label: RIN: 7.60

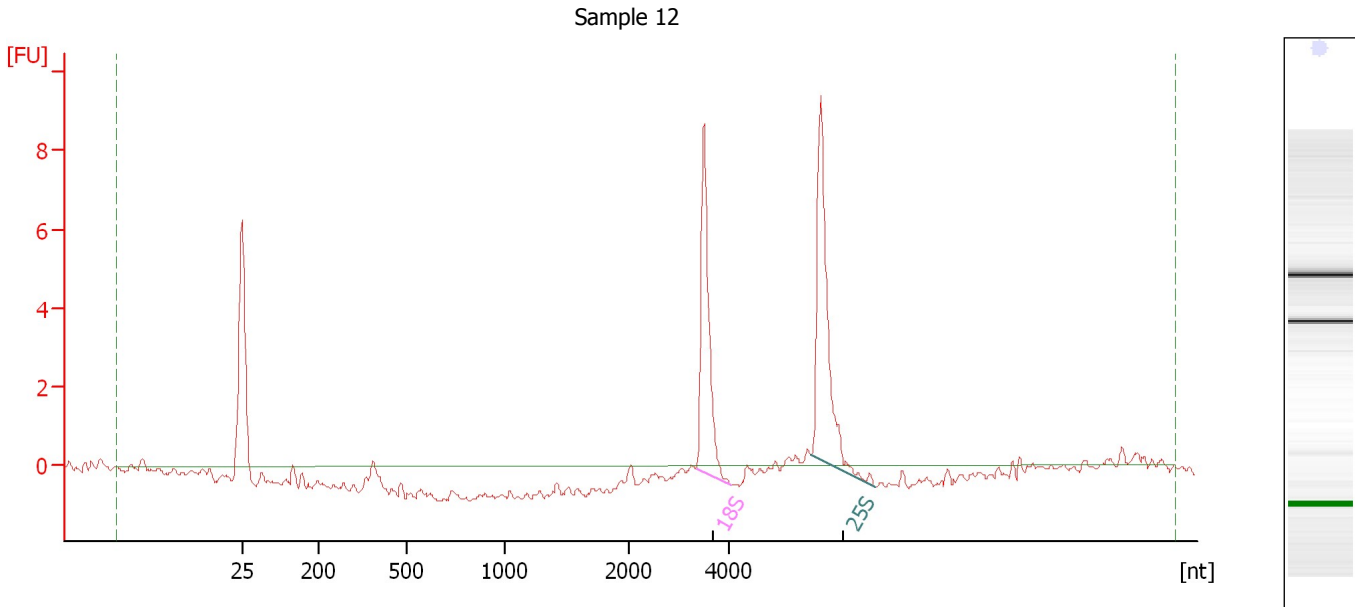
Fragment table for sample 4 : Sample 10

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 2,696 | 4,121 | 15.3 | 20.6 |
| 25S | 5,633 | 6,583 | 13.6 | 18.3 |

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
Modified: 2/27/2017 4:39:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 12

RNA Area: 18.1 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 14 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN:10

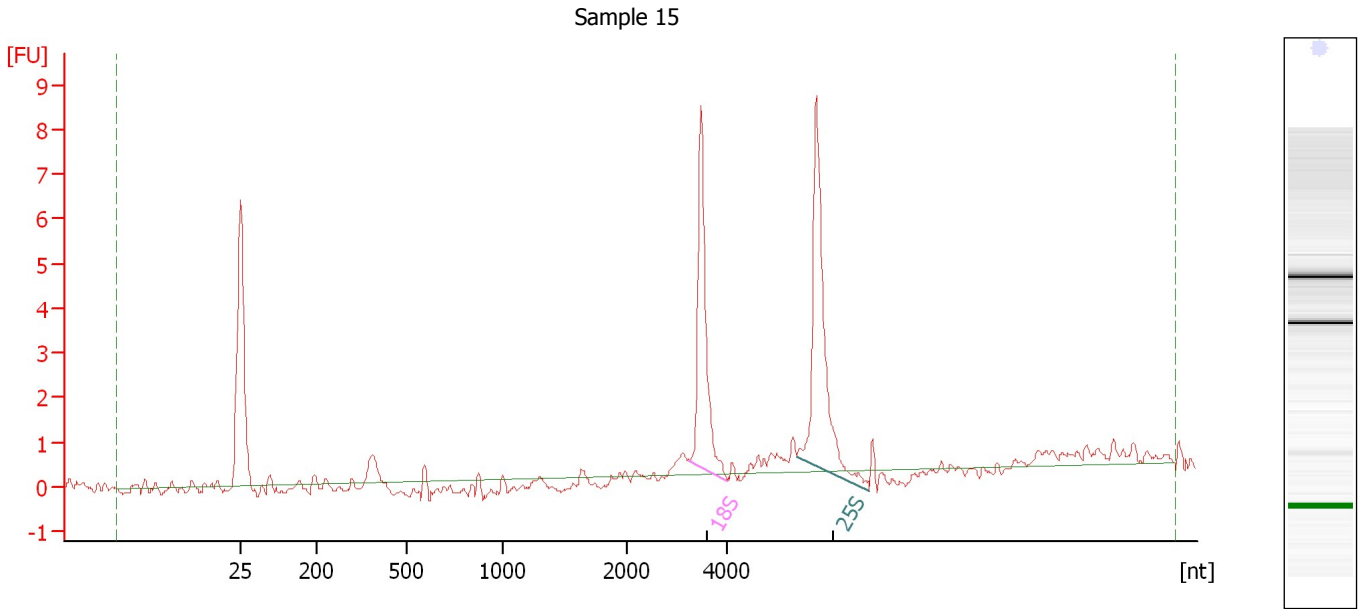
Fragment table for sample 5 : Sample 12

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 3,354 | 4,063 | 7.9 | 43.7 |
| 25S | 5,673 | 6,961 | 9.4 | 52.0 |

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
Modified: 2/27/2017 4:39:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 15

RNA Area: 25.1 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 20 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN: 9.50

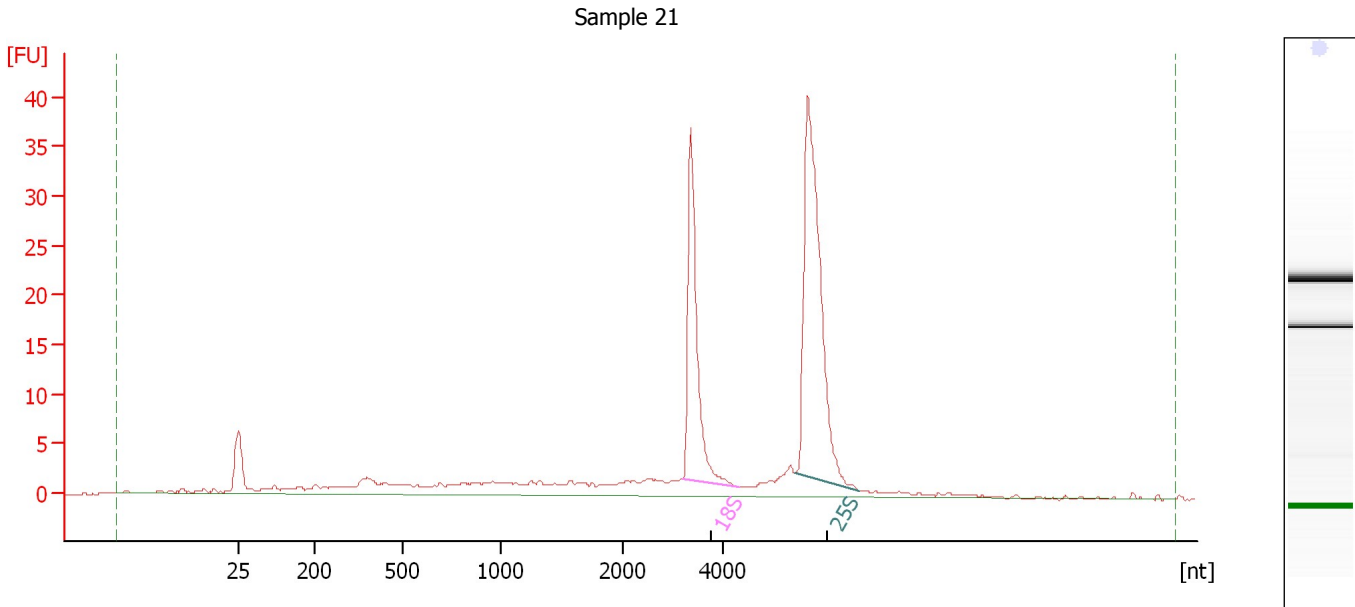
Fragment table for sample 6 : Sample 15

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 3,265 | 4,017 | 7.5 | 29.9 |
| 25S | 5,416 | 6,879 | 9.3 | 37.1 |

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
Modified: 2/27/2017 4:39:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 21

RNA Area: 187.2 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 148 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN: 8.60

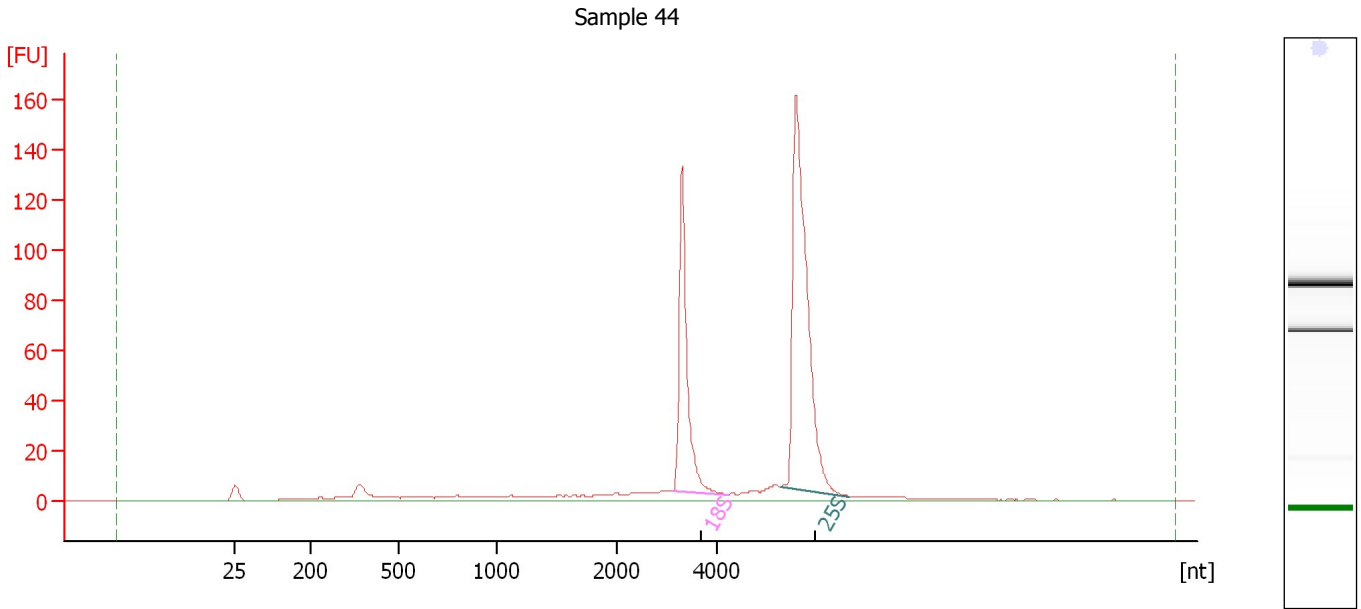
Fragment table for sample 7 : Sample 21

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 3,192 | 4,337 | 35.5 | 19.0 |
| 25S | 5,482 | 6,778 | 64.7 | 34.6 |

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
Modified: 2/27/2017 4:39:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 44

RNA Area: 531.8 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 422 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.9 Result Flagging Label: RIN: 9.70

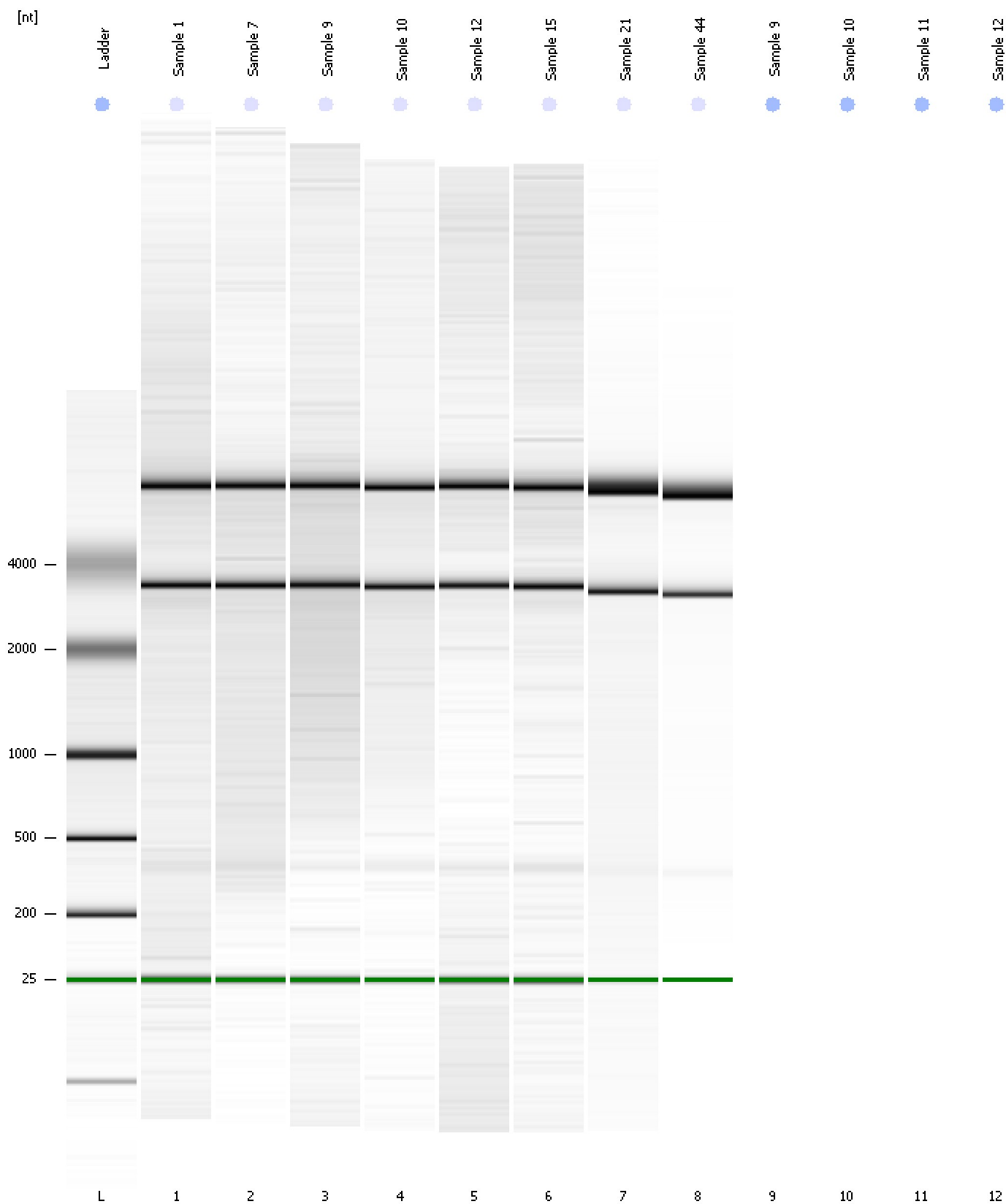
Fragment table for sample 8 : Sample 44

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S | 3,137 | 4,267 | 121.3 | 22.8 |
| 25S | 5,310 | 6,722 | 236.1 | 44.4 |

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
Modified: 2/27/2017 4:39:38 PM

Gel Image



Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
Modified: 2/27/2017 4:39:38 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.

Sample 12 has not been run, no results available.

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad

Created: 2/27/2017 4:14:47 PM
 Modified: 2/27/2017 4:39:38 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 | | 2/27/2017 4:33:06 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-02-27\2017-02-27_001.xad) | | Instrument | Run | | 2/27/2017 4:14:53 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 2/27/2017 4:14:53 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 2/27/2017 4:14:53 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 2/27/2017 4:14:53 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 2/27/2017 4:14:53 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 2/27/2017 4:14:53 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 2/27/2017 4:14:53 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |