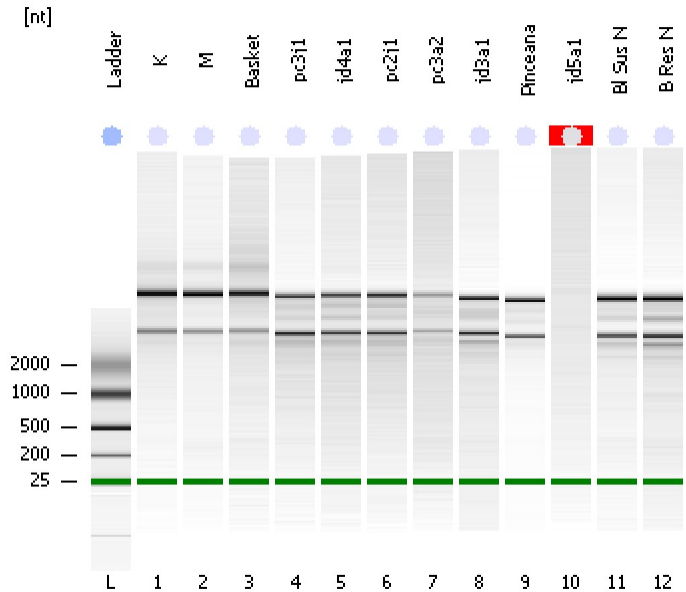


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

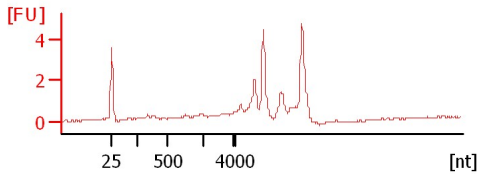
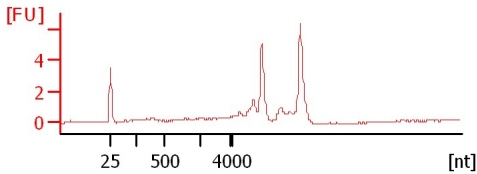
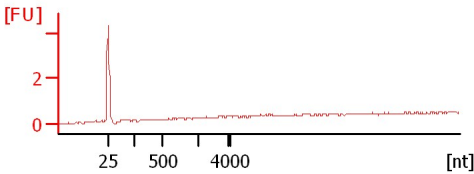
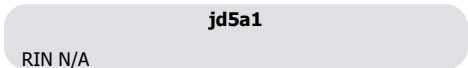
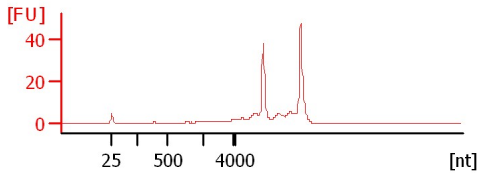
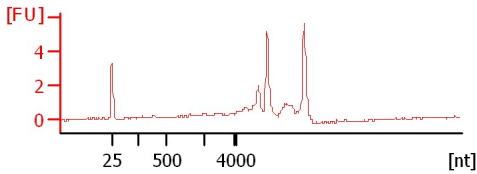
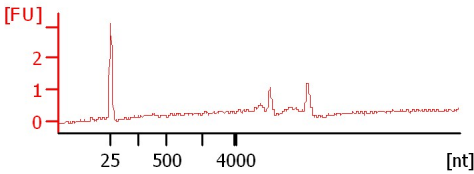
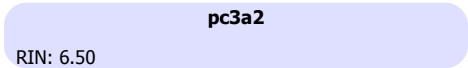
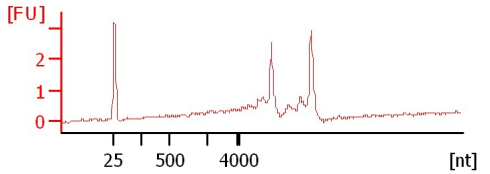
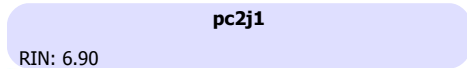
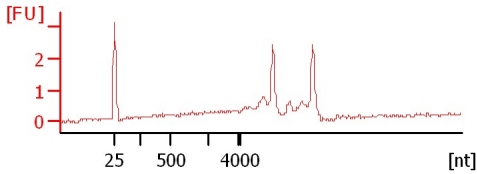
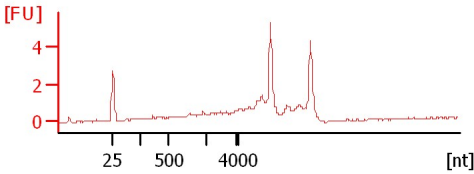
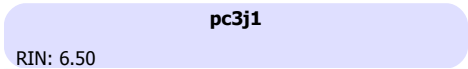
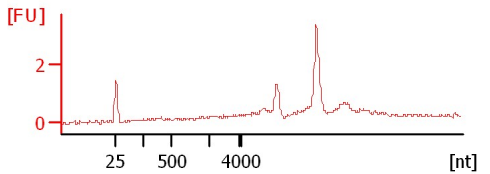
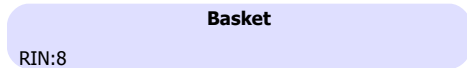
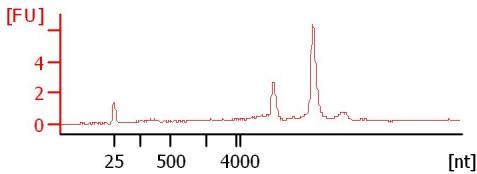
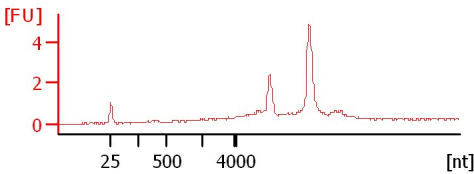
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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:



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

**Electrophoresis File Run Summary (Chip Summary)**

| Sample Name | Sample Comment | Status | Result Label      | Result Color |
|-------------|----------------|--------|-------------------|--------------|
| K           |                | ✓      | RIN: 8.30         |              |
| M           |                | ✓      | RIN: 8.30         |              |
| Basket      |                | ✓      | RIN:8             |              |
| pc3j1       |                | ✓      | RIN: 6.50         |              |
| jd4a1       |                | ✓      | RIN: 6.90         |              |
| pc2j1       |                | ✓      | RIN: 6.90         |              |
| pc3a2       |                | ✓      | RIN: 6.50         |              |
| jd3a1       |                | ✓      | RIN: 6.80         |              |
| Pinceana    |                | ✓      | RIN: 8.10         |              |
| jd5a1       |                | ✓      | RIN N/A           |              |
| Bl Sus N    |                | ✓      | RIN: 7.50         |              |
| B Res N     |                | ✓      | RIN:7             |              |
| Ladder      |                | ✓      | All Other Samples |              |

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 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] : 0.2  
Area Threshold : 0.1  
Width Threshold [s] : 0.2  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

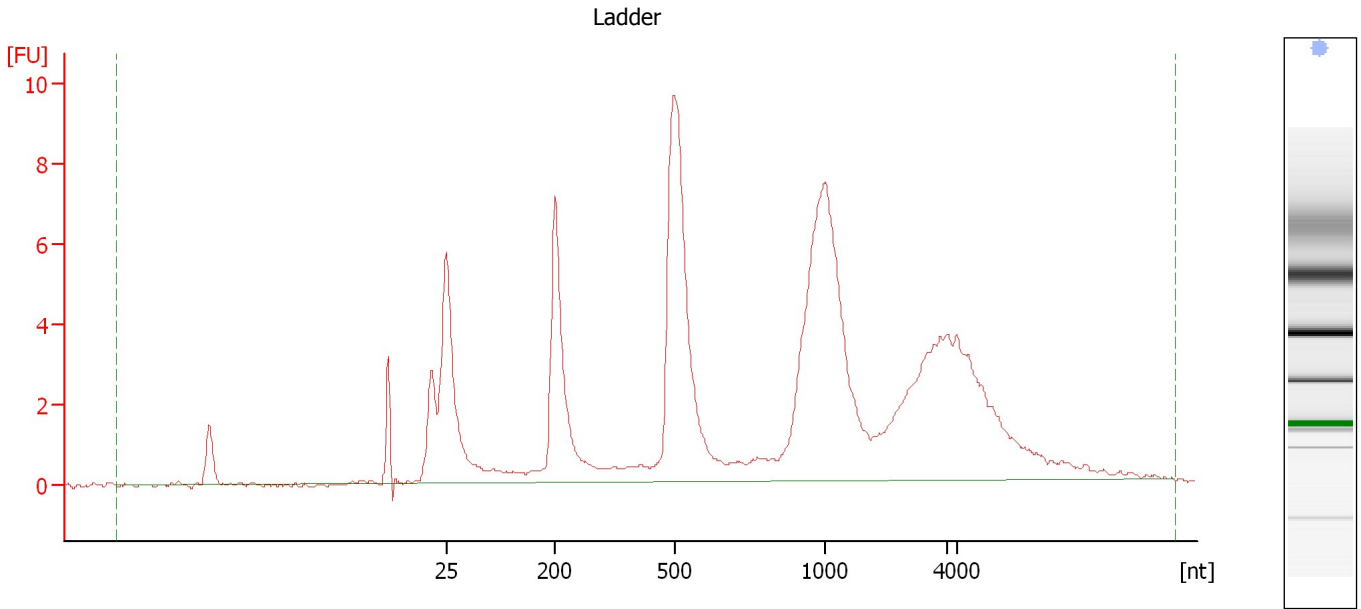
### Ladder

| 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\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

**Electropherogram Summary**



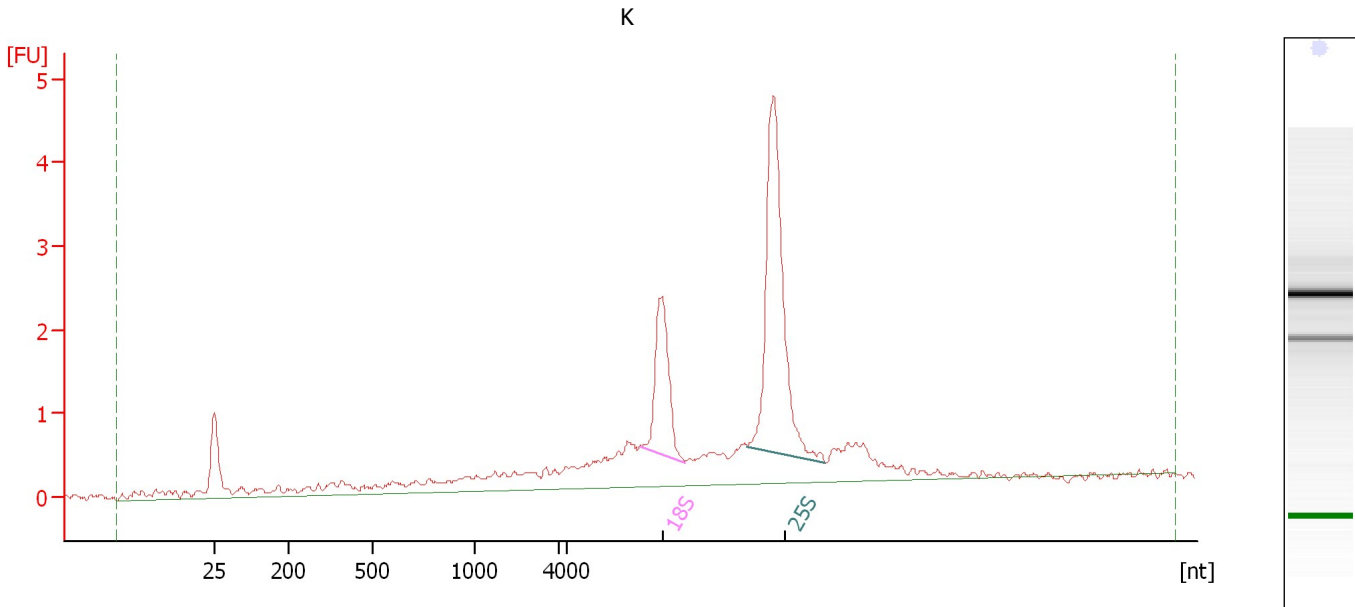
**Overall Results for Ladder**

|                    |                 |                        |   |
|--------------------|-----------------|------------------------|---|
| RNA Area:          | 111.8           | Result Flagging Color: | <span style="background-color: #6699ff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| RNA Concentration: | 150 ng/ $\mu$ l | Result Flagging Label: | All Other Samples   |

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
 Modified: 7/24/2014 2:19:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : K**

|                         |          |                             |   |
|-------------------------|----------|-----------------------------|---|
| RNA Area:               | 28.8     | RNA Integrity Number (RIN): | 8.3 (B.02.08)   |
| RNA Concentration:      | 39 ng/μl | Result Flagging Color:      | <span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 2.5      | Result Flagging Label:      | RIN: 8.30   |

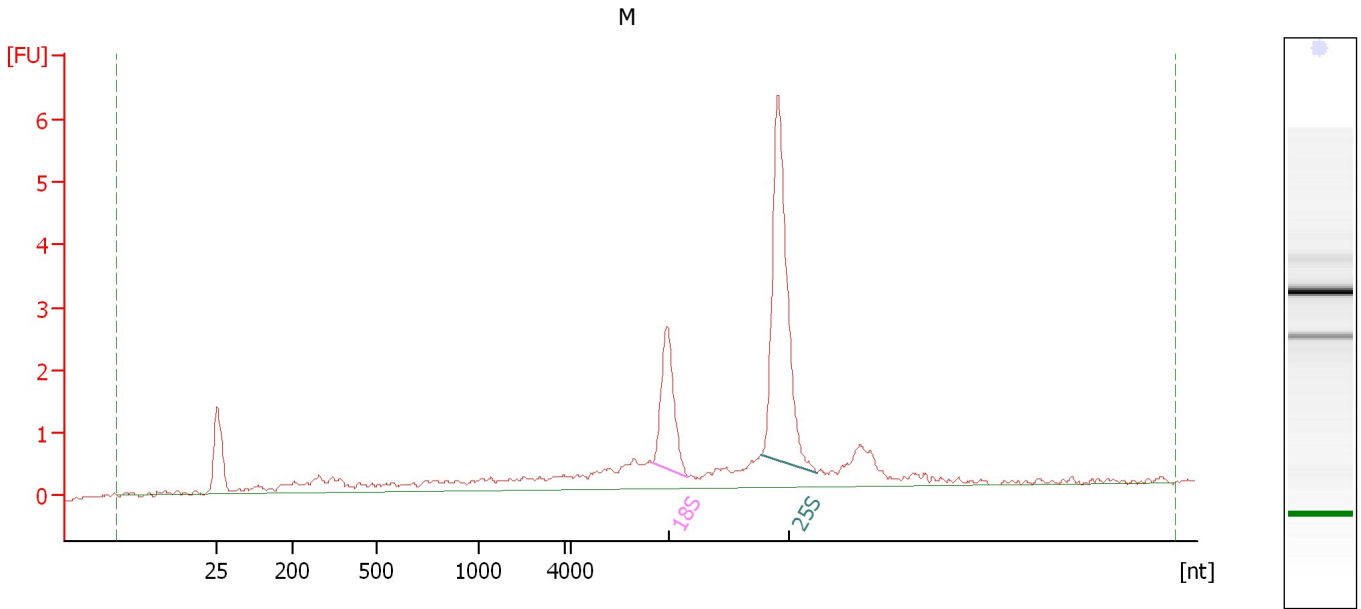
**Fragment table for sample 1 : K**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 26,768          | 39,667        | 3.0  | 10.4            |
| 25S  | 58,694          | 82,235        | 7.6  | 26.4            |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : M**

RNA Area: 31.0                      RNA Integrity Number (RIN): 8.3 (B.02.08)  
RNA Concentration: 42 ng/μl            Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.7            Result Flagging Label: RIN: 8.30

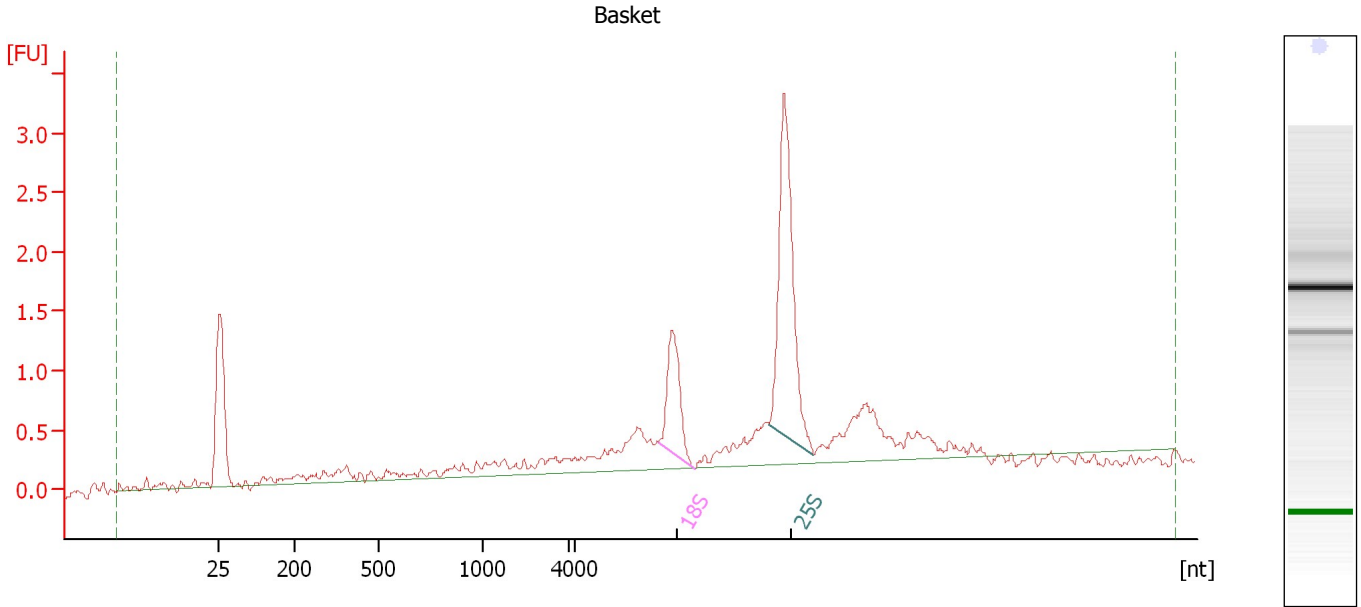
**Fragment table for sample 2 : M**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 28,212          | 38,788        | 3.4  | 11.1            |
| 25S  | 60,901          | 77,566        | 9.1  | 29.4            |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Basket**

RNA Area: 16.9                      RNA Integrity Number (RIN): 8 (B.02.08)  
RNA Concentration: 23 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 2.7                      Result Flagging Label: RIN:8

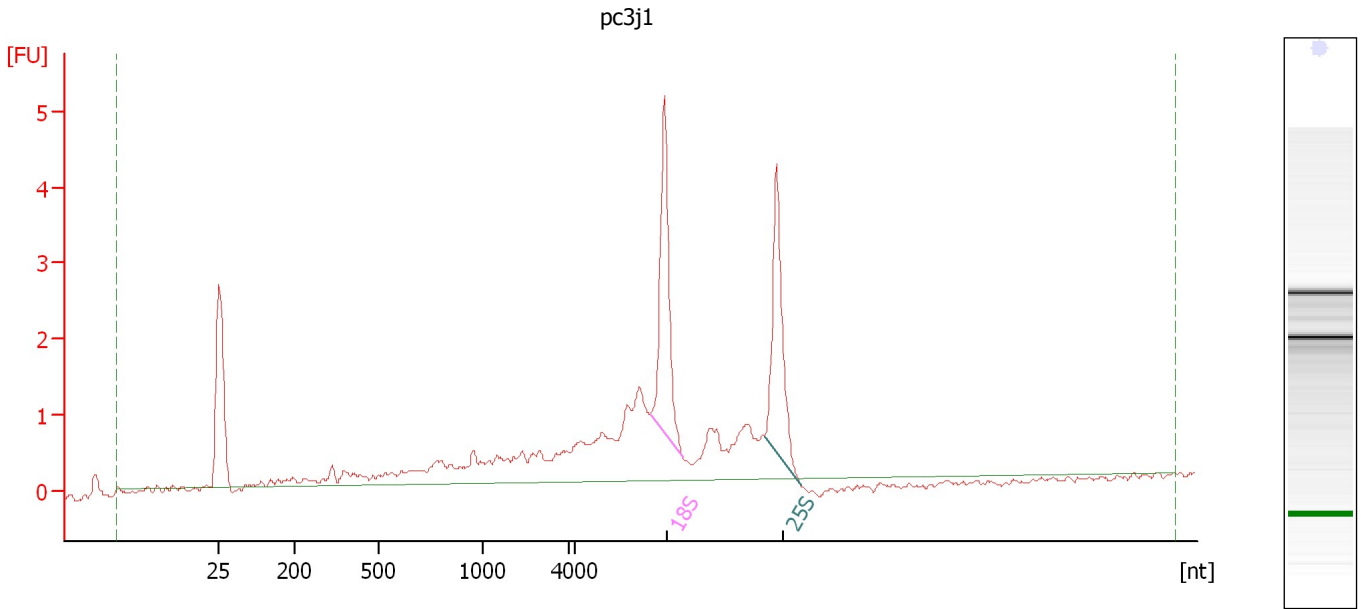
**Fragment table for sample 3 : Basket**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 28,952          | 39,484        | 1.5  | 9.1             |
| 25S  | 62,145          | 75,230        | 4.2  | 24.8            |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : pc3j1**

|                         |          |                             |   |
|-------------------------|----------|-----------------------------|---|
| RNA Area:               | 30.0     | RNA Integrity Number (RIN): | 6.5 (B.02.08)   |
| RNA Concentration:      | 40 ng/μl | Result Flagging Color:      | <span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 0.9      | Result Flagging Label:      | RIN: 6.50   |

**Fragment table for sample 4 : pc3j1**

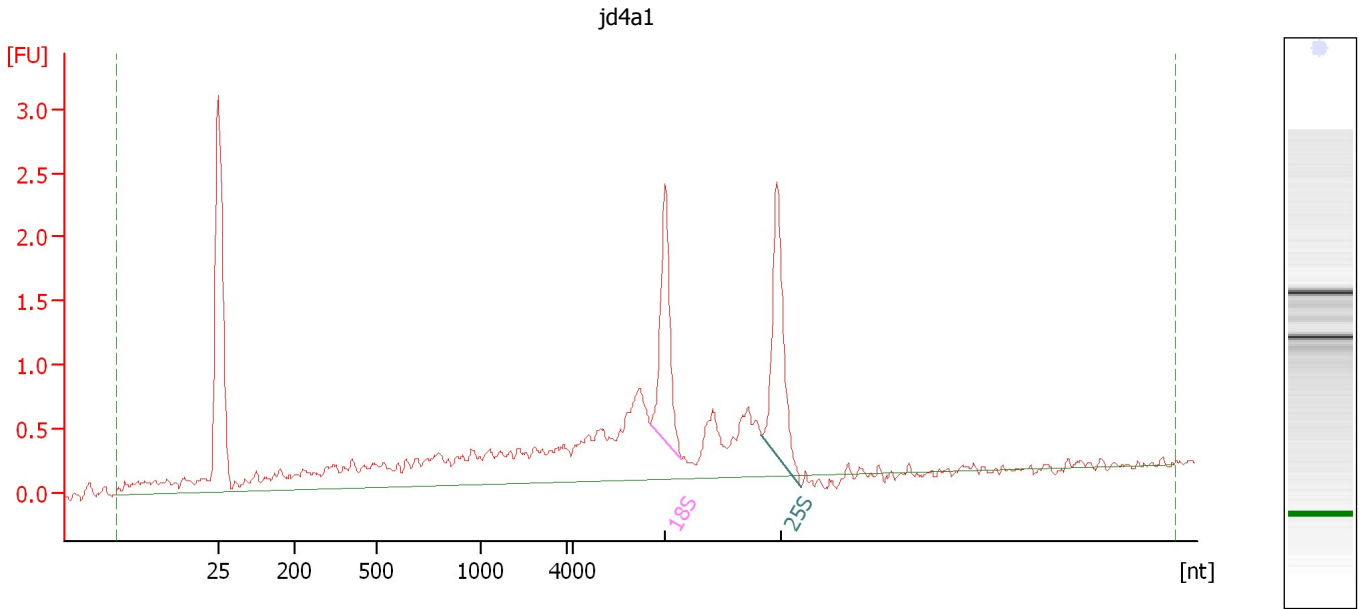
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 26,398          | 35,973        | 4.5  | 15.0            |
| 25S  | 60,549          | 71,400        | 4.0  | 13.2            |



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
 Modified: 7/24/2014 2:19:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : jd4a1**

|                         |          |                             |   |
|-------------------------|----------|-----------------------------|---|
| RNA Area:               | 22.6     | RNA Integrity Number (RIN): | 6.9 (B.02.08)   |
| RNA Concentration:      | 30 ng/μl | Result Flagging Color:      | <span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 1.2      | Result Flagging Label:      | RIN: 6.90   |

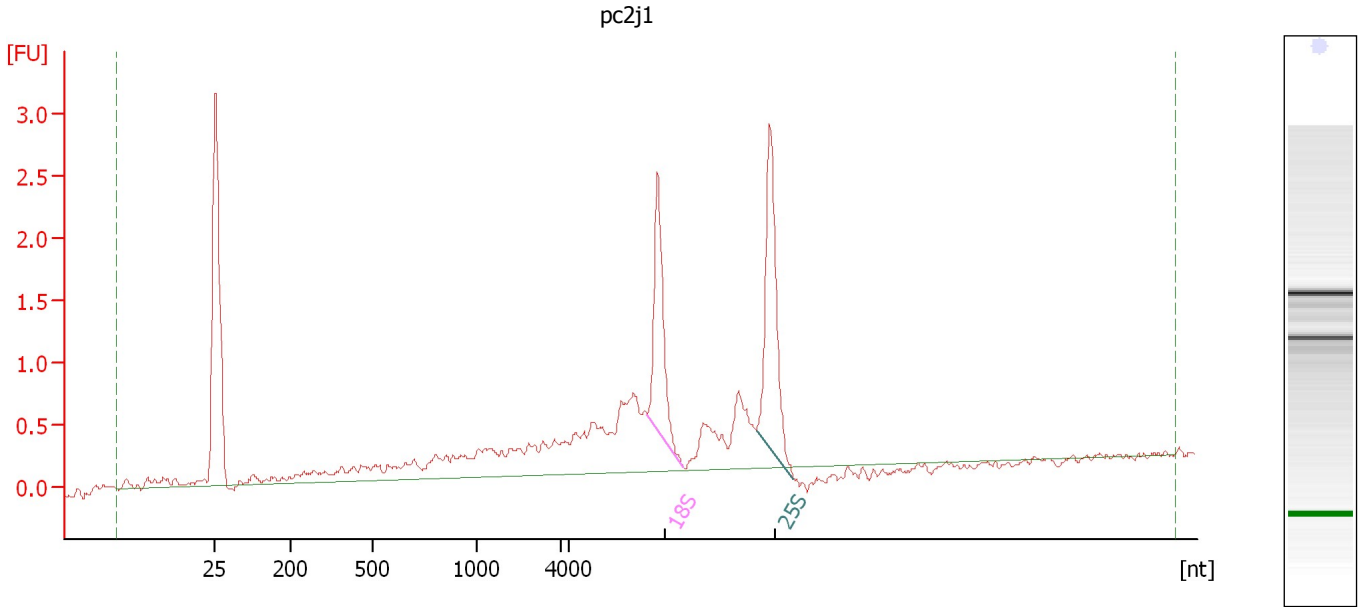
**Fragment table for sample 5 : jd4a1**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 26,983          | 36,258        | 2.2  | 9.9             |
| 25S  | 60,245          | 72,078        | 2.6  | 11.4            |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : pc2j1**

|                         |          |                             |   |
|-------------------------|----------|-----------------------------|---|
| RNA Area:               | 18.2     | RNA Integrity Number (RIN): | 6.9 (B.02.08)   |
| RNA Concentration:      | 24 ng/μl | Result Flagging Color:      | <span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 1.3      | Result Flagging Label:      | RIN: 6.90   |

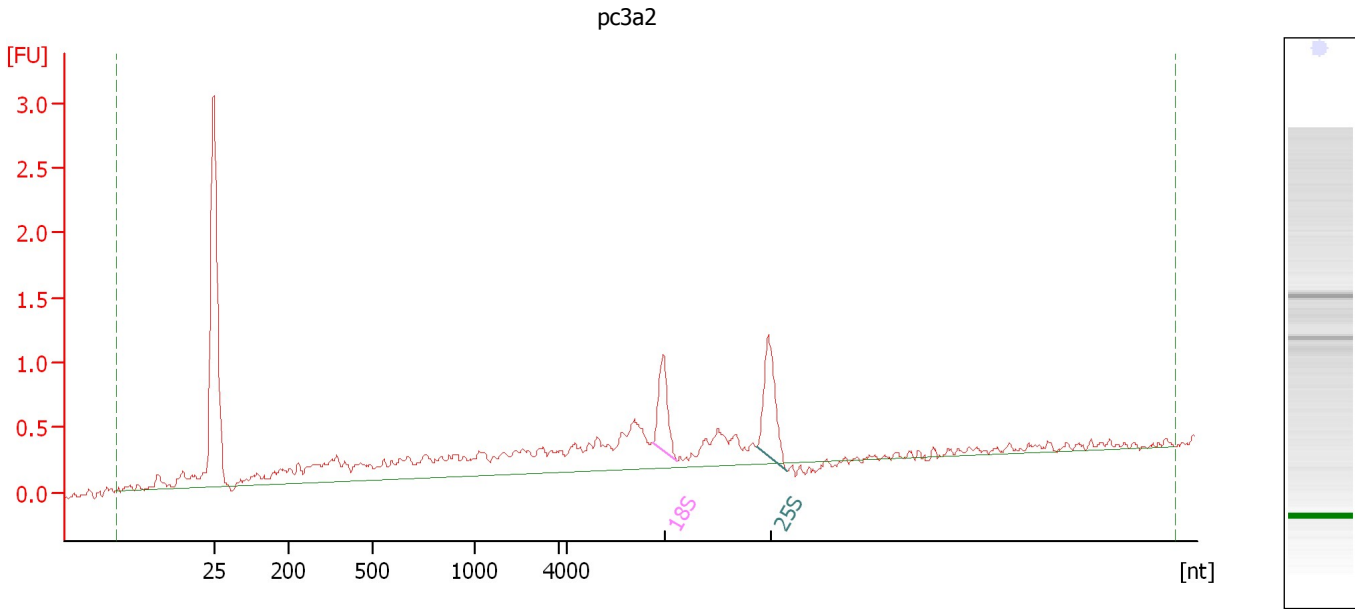
**Fragment table for sample 6 : pc2j1**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 27,788          | 38,729        | 2.2  | 12.0            |
| 25S  | 60,612          | 71,876        | 2.9  | 16.0            |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : pc3a2**

|                         |          |                             |   |
|-------------------------|----------|-----------------------------|---|
| RNA Area:               | 13.0     | RNA Integrity Number (RIN): | 6.5 (B.02.08)   |
| RNA Concentration:      | 17 ng/μl | Result Flagging Color:      | <span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 1.5      | Result Flagging Label:      | RIN: 6.50   |

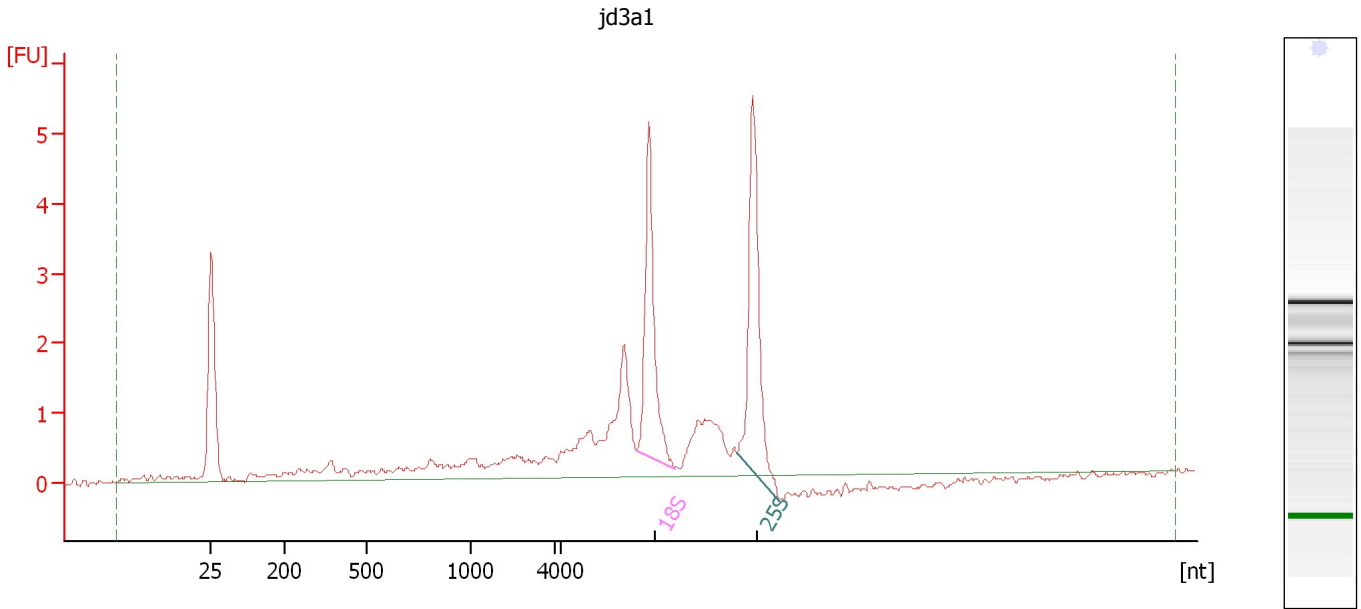
**Fragment table for sample 7 : pc3a2**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 29,993          | 37,410        | 0.8  | 5.9             |
| 25S  | 61,273          | 70,625        | 1.1  | 8.7             |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : jd3a1**

|                         |          |                             |   |
|-------------------------|----------|-----------------------------|---|
| RNA Area:               | 29.2     | RNA Integrity Number (RIN): | 6.8 (B.02.08)   |
| RNA Concentration:      | 39 ng/μl | Result Flagging Color:      | <span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 1.2      | Result Flagging Label:      | RIN: 6.80   |

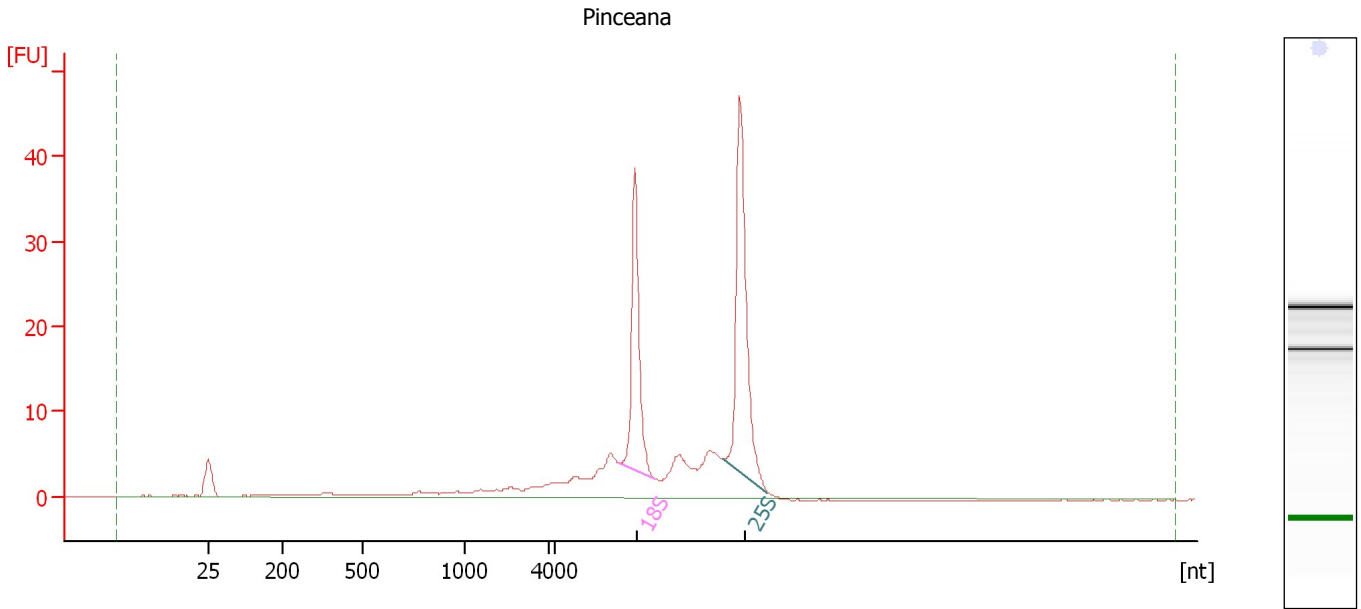
**Fragment table for sample 8 : jd3a1**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 26,929          | 38,611        | 5.1  | 17.4            |
| 25S  | 57,756          | 70,412        | 5.9  | 20.1            |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Pinceana**

RNA Area: 175.3                      RNA Integrity Number (RIN): 8.1 (B.02.08)  
RNA Concentration: 235 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.4                      Result Flagging Label: RIN: 8.10

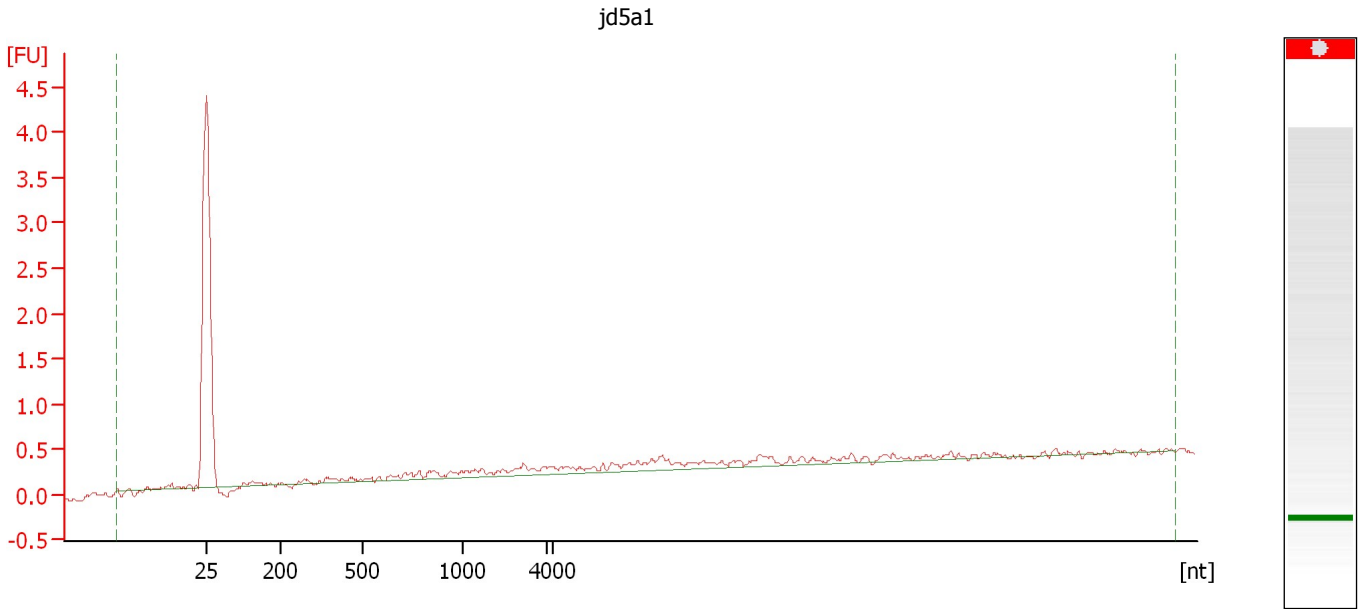
**Fragment table for sample 9 : Pinceana**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 23,499          | 34,275        | 33.3 | 19.0            |
| 25S  | 55,501          | 68,890        | 46.8 | 26.7            |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

**Electropherogram Summary Continued ...**



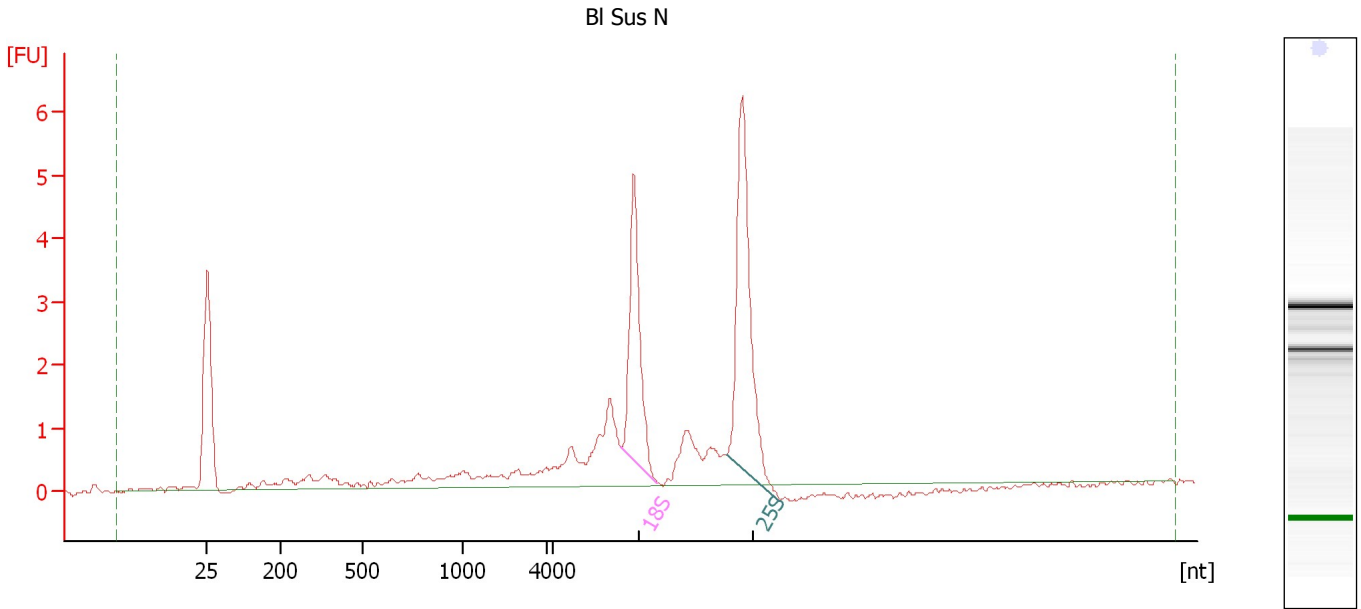
**Overall Results for sample 10 : jd5a1**

|                         |               |                             |   |
|-------------------------|---------------|-----------------------------|---|
| RNA Area:               | 4.4           | RNA Integrity Number (RIN): | N/A (B.02.08)   |
| RNA Concentration:      | 6 ng/ $\mu$ l | Result Flagging Color:      | <span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 0.0           | Result Flagging Label:      | RIN N/A   |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : BI Sus N**

|                         |          |                             |   |
|-------------------------|----------|-----------------------------|---|
| RNA Area:               | 31.4     | RNA Integrity Number (RIN): | 7.5 (B.02.08)   |
| RNA Concentration:      | 42 ng/μl | Result Flagging Color:      | <span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 1.5      | Result Flagging Label:      | RIN: 7.50   |

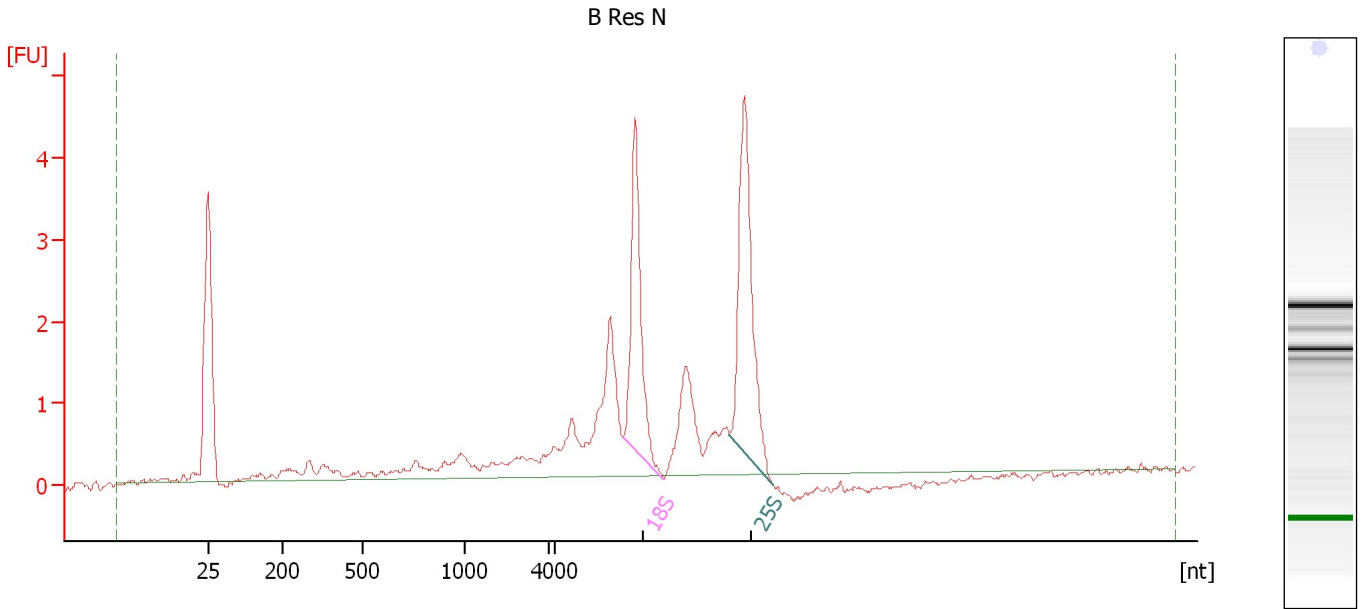
**Fragment table for sample 11 : BI Sus N**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 24,746          | 35,872        | 5.6  | 17.8            |
| 25S  | 56,816          | 73,178        | 8.6  | 27.4            |

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : B Res N**

|                         |          |                             |   |
|-------------------------|----------|-----------------------------|---|
| RNA Area:               | 28.3     | RNA Integrity Number (RIN): | 7 (B.02.08)   |
| RNA Concentration:      | 38 ng/μl | Result Flagging Color:      | <span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [25s / 18s]: | 1.3      | Result Flagging Label:      | RIN:7   |

**Fragment table for sample 12 : B Res N**

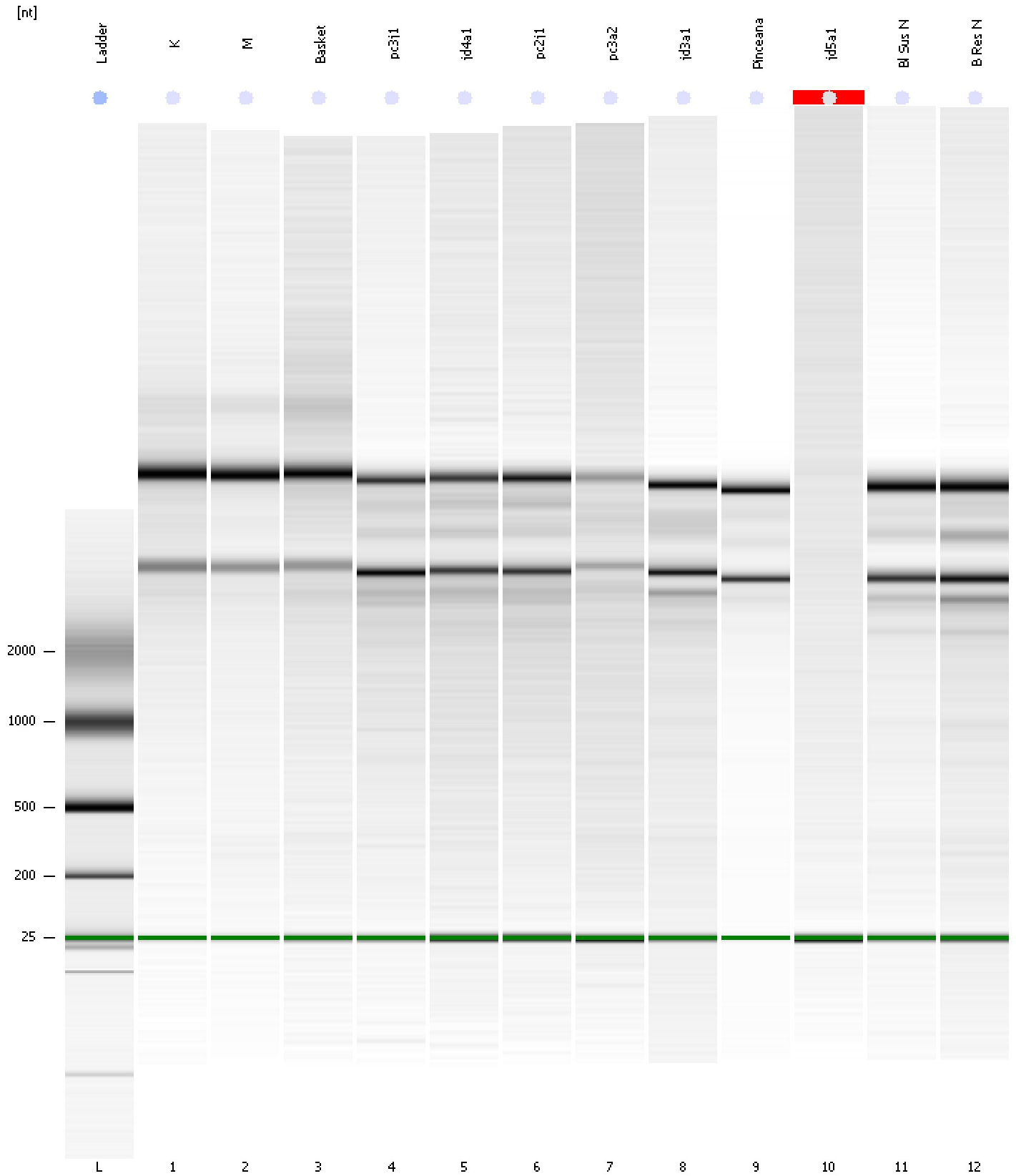
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 24,479          | 36,888        | 4.9  | 17.2            |
| 25S  | 57,134          | 70,196        | 6.2  | 21.9            |



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
Modified: 7/24/2014 2:19:23 PM

**Gel Image**



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_003.xad

Created: 7/24/2014 12:57:45 PM  
 Modified: 7/24/2014 2:19:23 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      |              | 7/24/2014 1:21:34 PM  | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24_003.xad) |        | Instrument | Run      |              | 7/24/2014 12:57:50 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B  |        | Instrument | Run      |              | 7/24/2014 12:57:50 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name :   |        | Instrument | Run      |              | 7/24/2014 12:57:50 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies  |        | Instrument | Run      |              | 7/24/2014 12:57:50 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086   |        | Instrument | Run      |              | 7/24/2014 12:57:50 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069  |        | Instrument | Run      |              | 7/24/2014 12:57:50 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode  |        | Instrument | Run      |              | 7/24/2014 12:57:50 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |