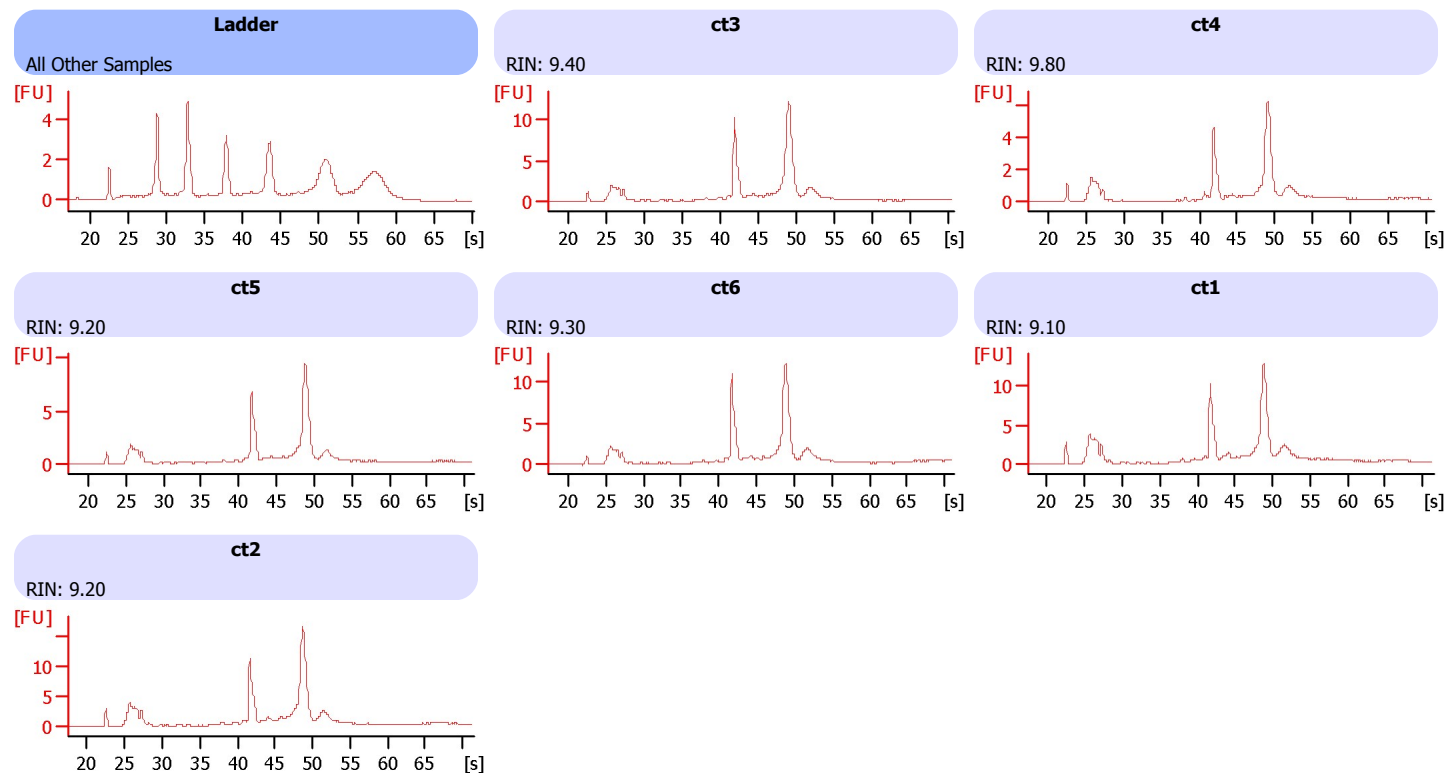


Assay Class: Eukaryote Total RNA Nano  
Comparison: Q:\Shared\YangD\Bioanalyzer\20121221\_RNA\_control.xac

Created: 12/21/2012 11:44:29 AM  
Modified: 12/21/2012 11:44:29 AM

### Electrophoresis File Run Summary



Assay Class: Eukaryote Total RNA Nano  
Comparison Q:\Shared\YangD\Bioanalyzer\20121221\_RNA\_control.xac

Created: 12/21/2012 11:44:29 AM  
Modified: 12/21/2012 11:44:29 AM

**Electrophoresis File Run Summary (Comparison Summary)**

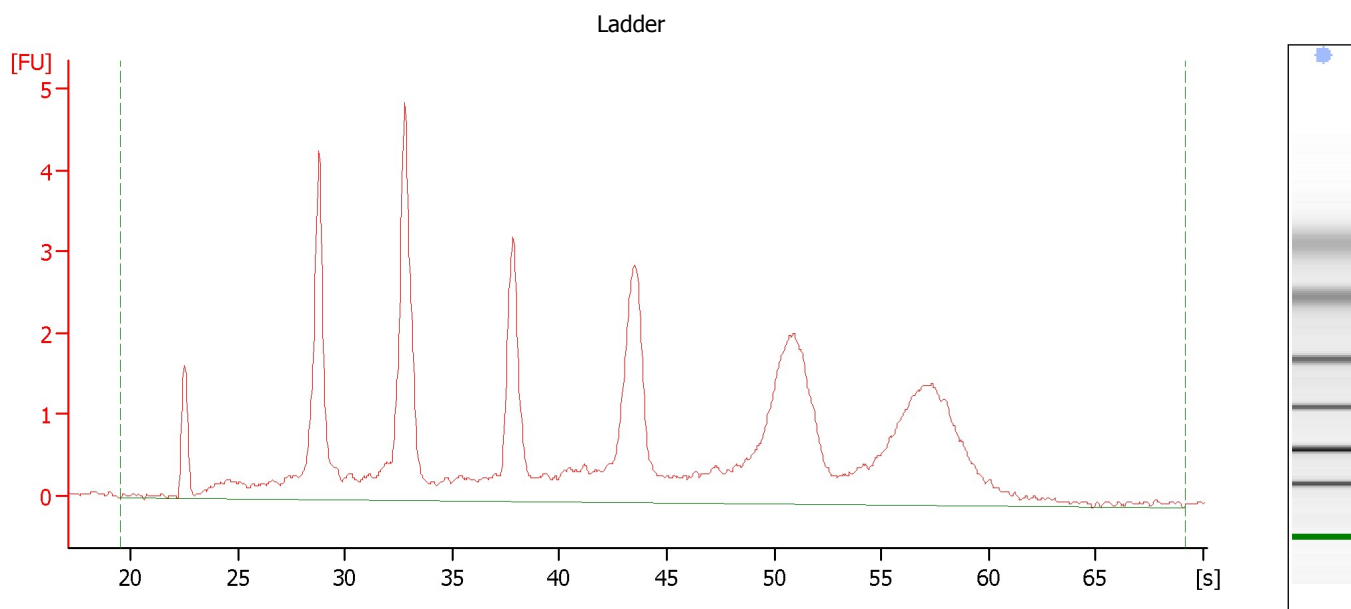
| Sample Name | Sample Comment | File                                                                                                      |
|-------------|----------------|-----------------------------------------------------------------------------------------------------------|
| Ladder      |                | C:\...2100 expert\data\2012-12-18\2100 expert_Eukaryote Total RNA Nano_DE72904790_2012-12-18_15-52-44.xad |
| ct3         |                | C:\...2100 expert\data\2012-12-18\2100 expert_Eukaryote Total RNA Nano_DE72904790_2012-12-18_15-52-44.xad |
| ct4         |                | C:\...2100 expert\data\2012-12-18\2100 expert_Eukaryote Total RNA Nano_DE72904790_2012-12-18_15-52-44.xad |
| ct5         |                | C:\...2100 expert\data\2012-12-18\2100 expert_Eukaryote Total RNA Nano_DE72904790_2012-12-18_15-52-44.xad |
| ct6         |                | C:\...2100 expert\data\2012-12-18\2100 expert_Eukaryote Total RNA Nano_DE72904790_2012-12-18_15-52-44.xad |
| ct1         |                | C:\...2100 expert\data\2012-12-13\2100 expert_Eukaryote Total RNA Nano_DE72904790_2012-12-13_15-36-12.xad |
| ct2         |                | C:\...2100 expert\data\2012-12-13\2100 expert_Eukaryote Total RNA Nano_DE72904790_2012-12-13_15-36-12.xad |

**Comparison Comments :**

Assay Class: Eukaryote Total RNA Nano  
Comparison: Q:\Shared\YangD\Bioanalyzer\20121221\_RNA\_control.xac

Created: 12/21/2012 11:44:29 AM  
Modified: 12/21/2012 11:44:29 AM

### Electropherogram Summary



### Overall Results for sample 1 : Ladder

RNA Area: 66.7

Result Flagging Color:



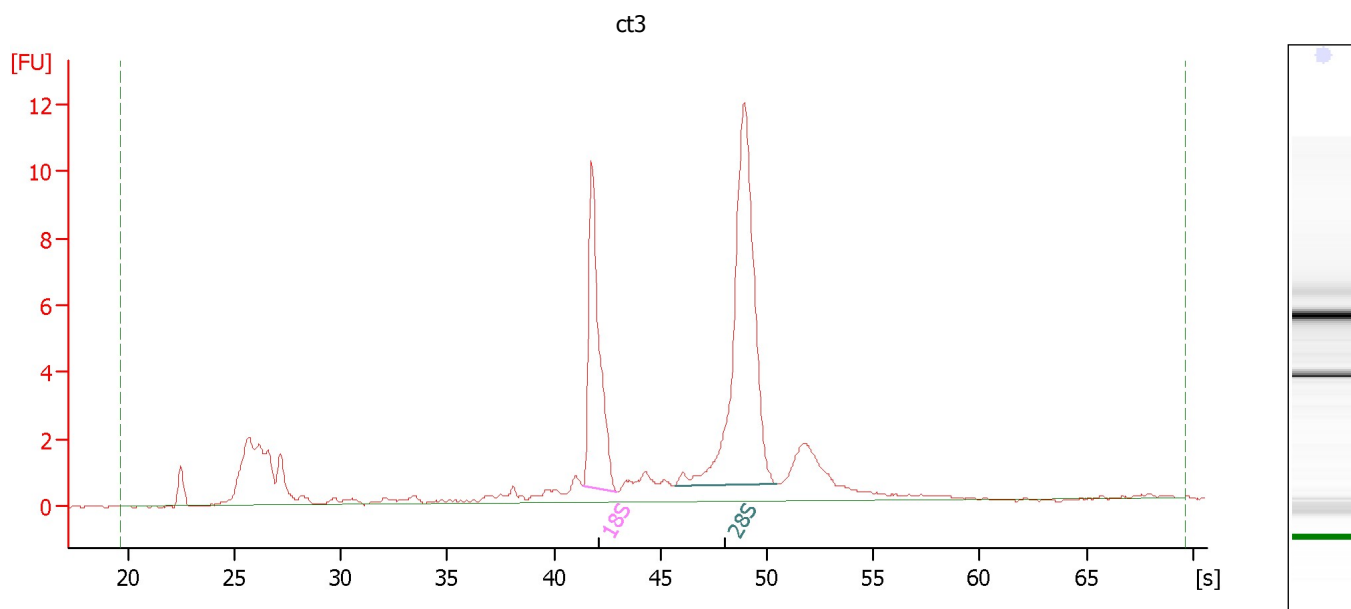
RNA Concentration: 150 ng/μl

Result Flagging Label:

All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Comparison: Q:\Shared\YangD\Bioanalyzer\20121221\_RNA\_control.xac

Created: 12/21/2012 11:44:29 AM  
Modified: 12/21/2012 11:44:29 AM

**Electropherogram Summary Continued ...****Overall Results for sample 4 : ct3**

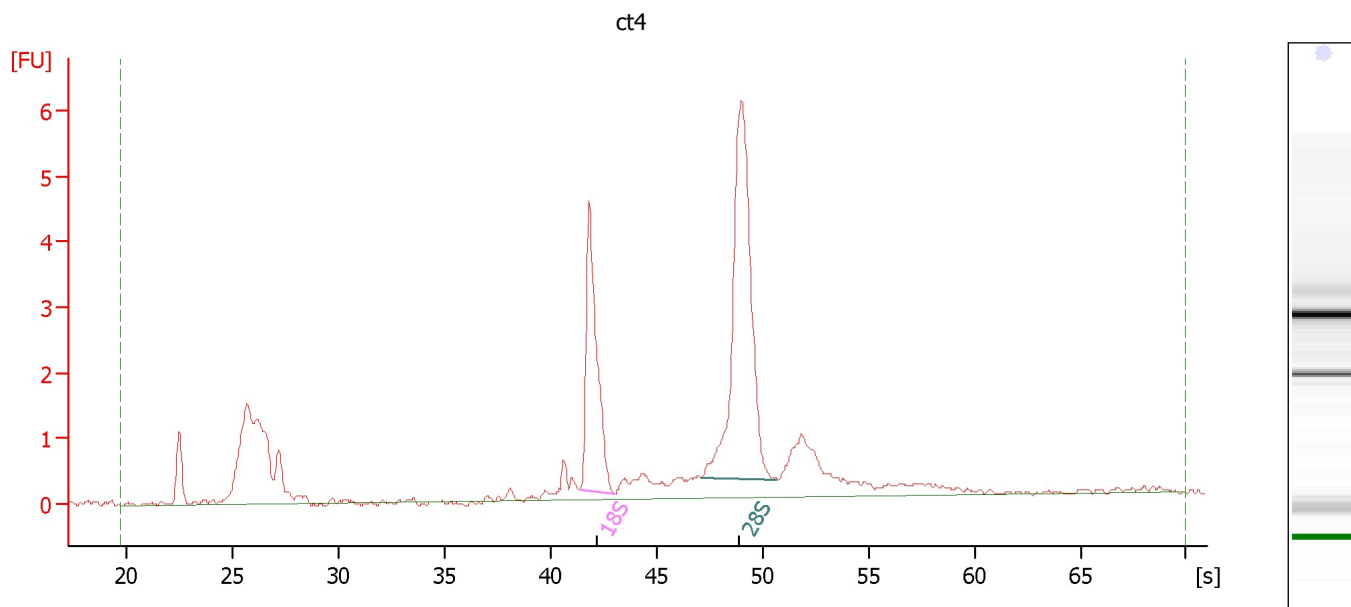
|                         |                 |                             |                                                                                                  |
|-------------------------|-----------------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 77.1            | RNA Integrity Number (RIN): | 9.4 (B.02.08)                                                                                    |
| RNA Concentration:      | 173 ng/ $\mu$ l | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 2.0             | Result Flagging Label:      | RIN: 9.40                                                                                        |

**Fragment table for sample 4 : ct3**

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S  | 41.37          | 42.98        | 12.6 | 16.4            |
| 28S  | 45.71          | 50.50        | 25.7 | 33.3            |

Assay Class: Eukaryote Total RNA Nano  
Comparison: Q:\Shared\YangD\Bioanalyzer\20121221\_RNA\_control.xac

Created: 12/21/2012 11:44:29 AM  
Modified: 12/21/2012 11:44:29 AM

**Electropherogram Summary Continued ...****Overall Results for sample 5 : ct4**

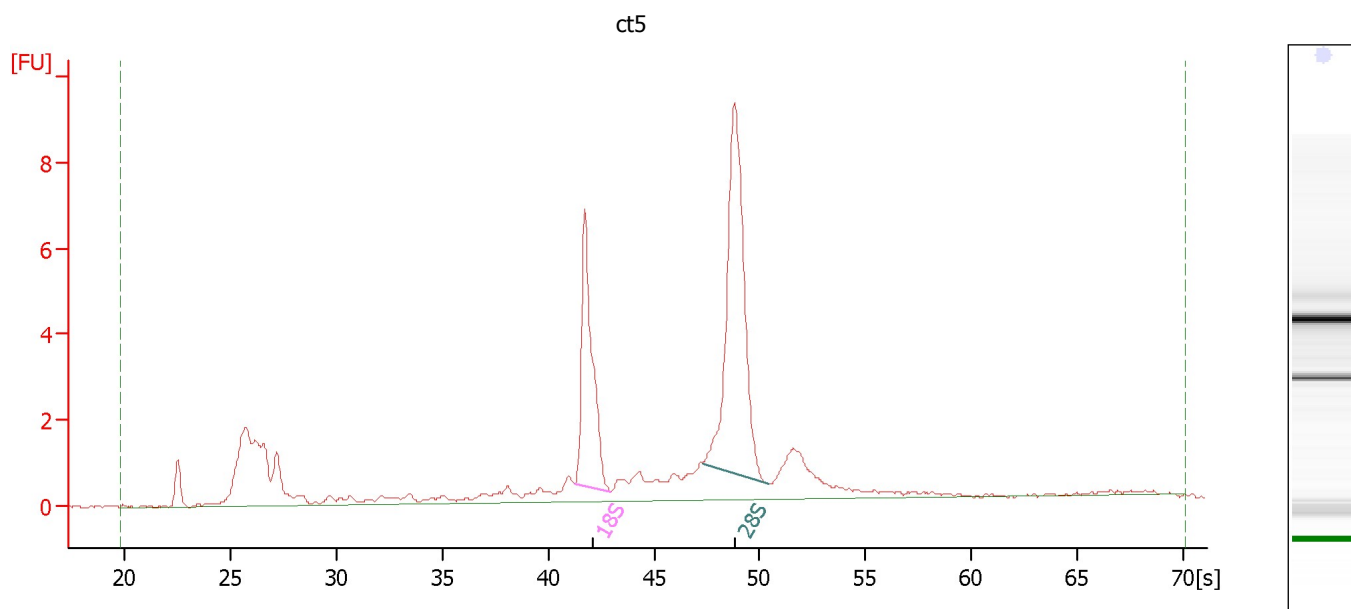
|                         |          |                             |                                                                                                  |
|-------------------------|----------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 38.6     | RNA Integrity Number (RIN): | 9.8 (B.02.08)                                                                                    |
| RNA Concentration:      | 87 ng/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 1.9      | Result Flagging Label:      | RIN: 9.80                                                                                        |

**Fragment table for sample 5 : ct4**

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S  | 41.40          | 43.02        | 5.9  | 15.4            |
| 28S  | 47.08          | 50.73        | 11.5 | 29.9            |

Assay Class: Eukaryote Total RNA Nano  
Comparison: Q:\Shared\YangD\Bioanalyzer\20121221\_RNA\_control.xac

Created: 12/21/2012 11:44:29 AM  
Modified: 12/21/2012 11:44:29 AM

**Electropherogram Summary Continued ...****Overall Results for sample 6 : ct5**

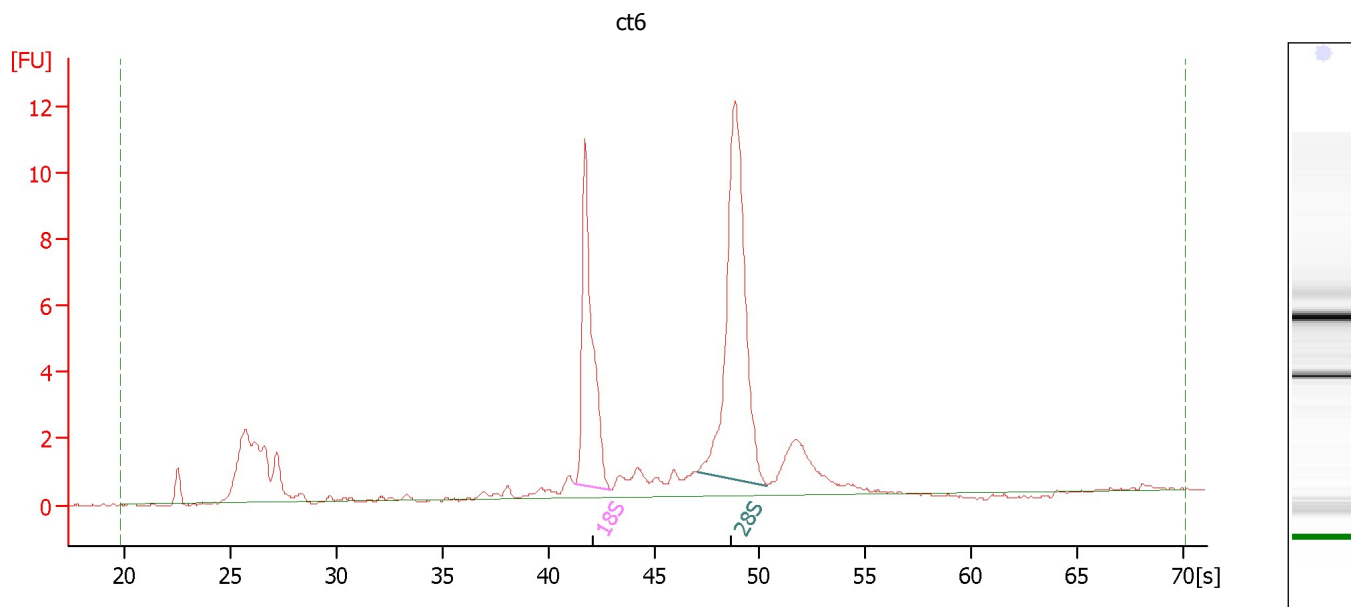
|                         |                 |                             |                                                                                                  |
|-------------------------|-----------------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 59.5            | RNA Integrity Number (RIN): | 9.2 (B.02.08)                                                                                    |
| RNA Concentration:      | 134 ng/ $\mu$ l | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 1.9             | Result Flagging Label:      | RIN: 9.20                                                                                        |

**Fragment table for sample 6 : ct5**

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S  | 41.29          | 42.92        | 8.8  | 14.9            |
| 28S  | 47.29          | 50.43        | 16.5 | 27.8            |

Assay Class: Eukaryote Total RNA Nano  
Comparison: Q:\Shared\YangD\Bioanalyzer\20121221\_RNA\_control.xac

Created: 12/21/2012 11:44:29 AM  
Modified: 12/21/2012 11:44:29 AM

**Electropherogram Summary Continued ...****Overall Results for sample 7 : ct6**

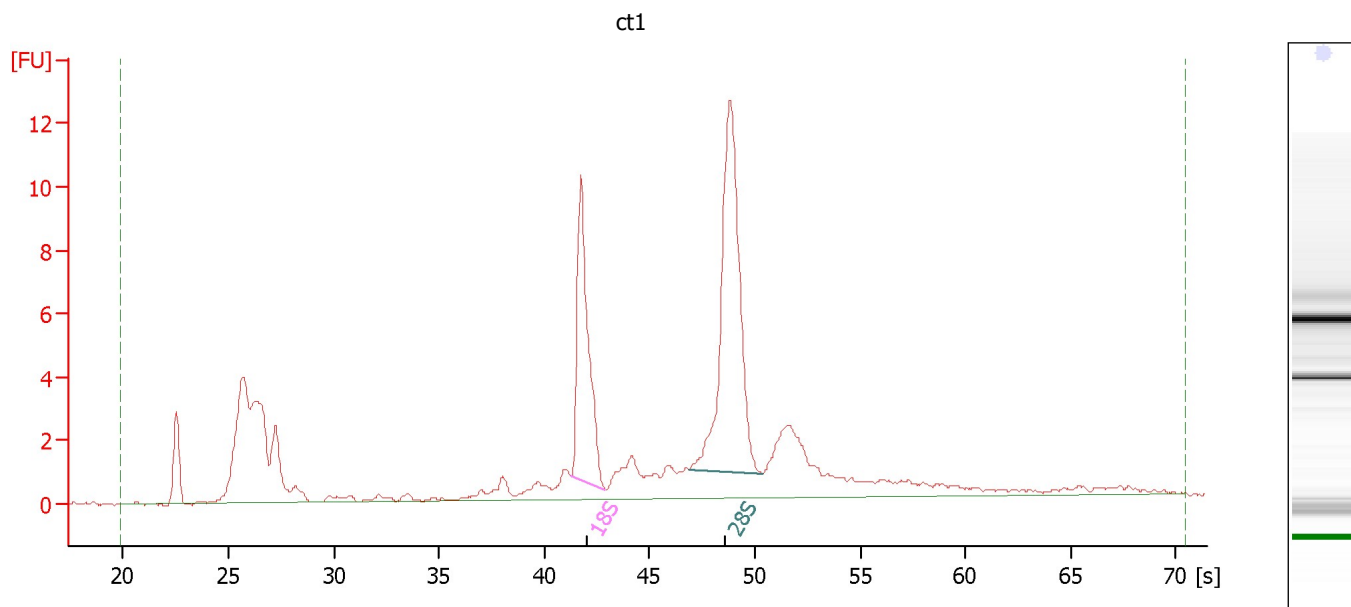
|                         |           |                             |                                                                                                  |
|-------------------------|-----------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 72.0      | RNA Integrity Number (RIN): | 9.3 (B.02.08)                                                                                    |
| RNA Concentration:      | 162 ng/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 1.7       | Result Flagging Label:      | RIN: 9.30                                                                                        |

**Fragment table for sample 7 : ct6**

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S  | 41.29          | 42.97        | 13.7 | 19.0            |
| 28S  | 47.03          | 50.38        | 23.1 | 32.1            |

Assay Class: Eukaryote Total RNA Nano  
Comparison: Q:\Shared\YangD\Bioanalyzer\20121221\_RNA\_control.xac

Created: 12/21/2012 11:44:29 AM  
Modified: 12/21/2012 11:44:29 AM

**Electropherogram Summary Continued ...****Overall Results for sample 2 : ct1**

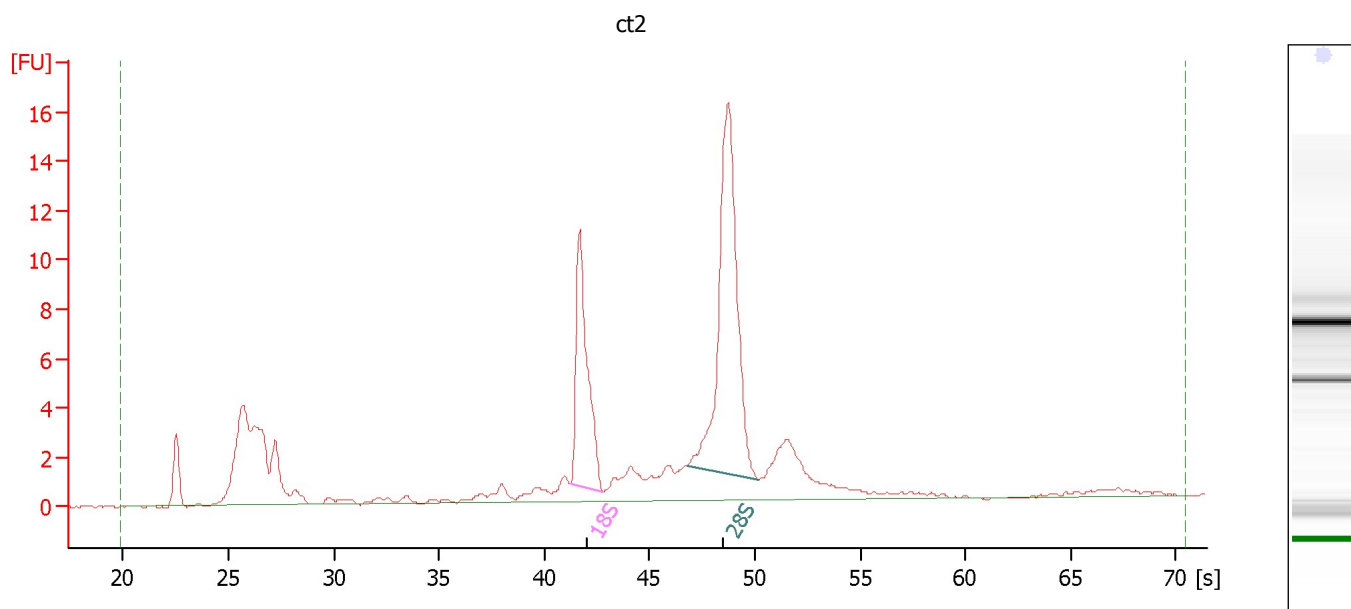
|                         |           |                             |                                                                                                  |
|-------------------------|-----------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 100.0     | RNA Integrity Number (RIN): | 9.1 (B.02.08)                                                                                    |
| RNA Concentration:      | 129 ng/μl | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 1.8       | Result Flagging Label:      | RIN: 9.10                                                                                        |

**Fragment table for sample 2 : ct1**

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S  | 41.28          | 42.91        | 13.3 | 13.3            |
| 28S  | 46.89          | 50.41        | 23.9 | 23.8            |

Assay Class: Eukaryote Total RNA Nano  
Comparison: Q:\Shared\YangD\Bioanalyzer\20121221\_RNA\_control.xac

Created: 12/21/2012 11:44:29 AM  
Modified: 12/21/2012 11:44:29 AM

**Electropherogram Summary Continued ...****Overall Results for sample 3 : ct2**

|                         |                 |                             |                                                                                                  |
|-------------------------|-----------------|-----------------------------|--------------------------------------------------------------------------------------------------|
| RNA Area:               | 112.7           | RNA Integrity Number (RIN): | 9.2 (B.02.08)                                                                                    |
| RNA Concentration:      | 145 ng/ $\mu$ l | Result Flagging Color:      | <div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div> |
| rRNA Ratio [28s / 18s]: | 2.1             | Result Flagging Label:      | RIN: 9.20                                                                                        |

**Fragment table for sample 3 : ct2**

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S  | 41.22          | 42.81        | 14.8 | 13.2            |
| 28S  | 46.73          | 50.15        | 30.6 | 27.2            |

Assay Class: Eukaryote Total RNA Nano  
Comparison Q:\Shared\YangD\Bioanalyzer\20121221\_RNA\_control.xac

Created: 12/21/2012 11:44:29 AM  
Modified: 12/21/2012 11:44:29 AM

**Gel Image**