

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...0 expert\data\2018-09-24\2018-09-24\_001\_HiSeq1527\_RNAQC.xad

Created: 9/24/2018 11:17:18 AM  
Modified: 9/24/2018 11:52:48 AM

**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\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy

Assay Class: Eukaryote Total RNA Pico

Version: 2.6

Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

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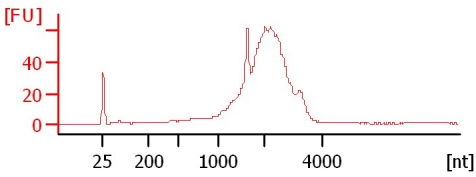
Chip Information:

Chip Lot #:

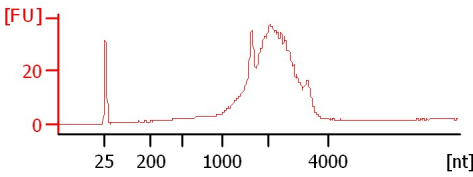
Reagent Kit Lot #:

Chip Comments:

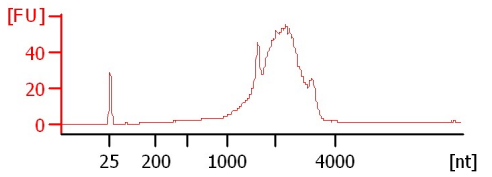
**1. BL 1641**  
HiSeq1527  
RIN: N/A



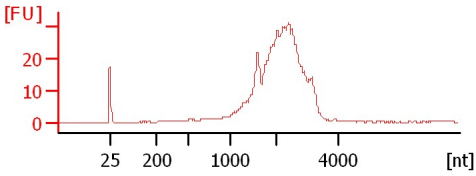
**2. BL1652**  
HiSeq1527  
RIN: 3.70



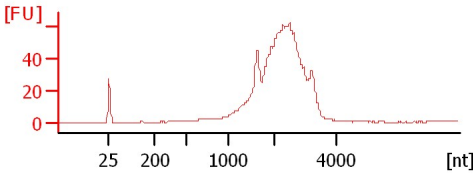
**3. BL 1833**  
HiSeq1527  
RIN: 2.60



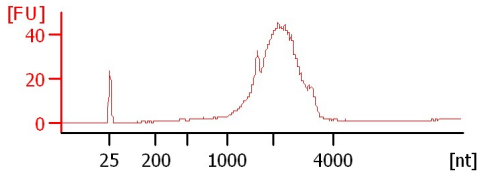
**4. BL 1864**  
HiSeq1527  
RIN: 2.70



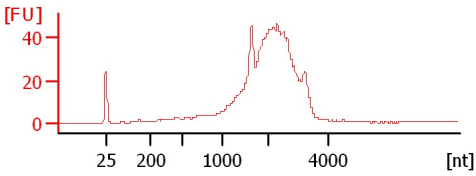
**5. BL 1875**  
HiSeq1527  
RIN: 3.30



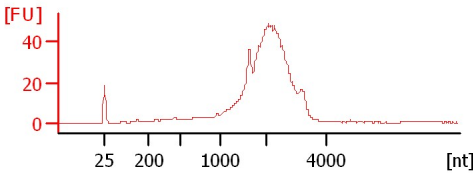
**6. BL 1896**  
HiSeq1527  
RIN: 3



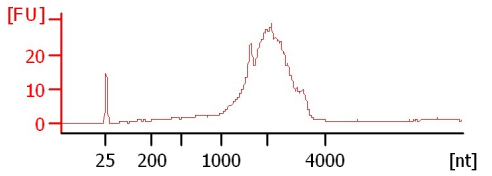
**7. BL 1907**  
HiSeq1527  
RIN: 3.30



**8. BL 1928**  
HiSeq1527  
RIN: 2.90



**9. BL 1929**  
HiSeq1527  
RIN: 3



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

Sample Name	Sample Comment	Status	Result Label	Result Color
1. BL 1641	HiSeq1527	✓	RIN N/A	
2. BL1652	HiSeq1527	✓	RIN: 3.70	
3. BL 1833	HiSeq1527	✓	RIN: 2.60	
4. BL 1864	HiSeq1527	✓	RIN: 2.70	
5. BL 1875	HiSeq1527	✓	RIN: 3.30	
6. BL 1896	HiSeq1527	✓	RIN:3	
7. BL 1907	HiSeq1527	✓	RIN: 3.30	
8. BL 1928	HiSeq1527	✓	RIN: 2.90	
9. BL 1929	HiSeq1527	✓	RIN:3	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 18  
End Analysis Time Range [s] : 69  
Ladder Concentration [pg/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 18  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.3  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

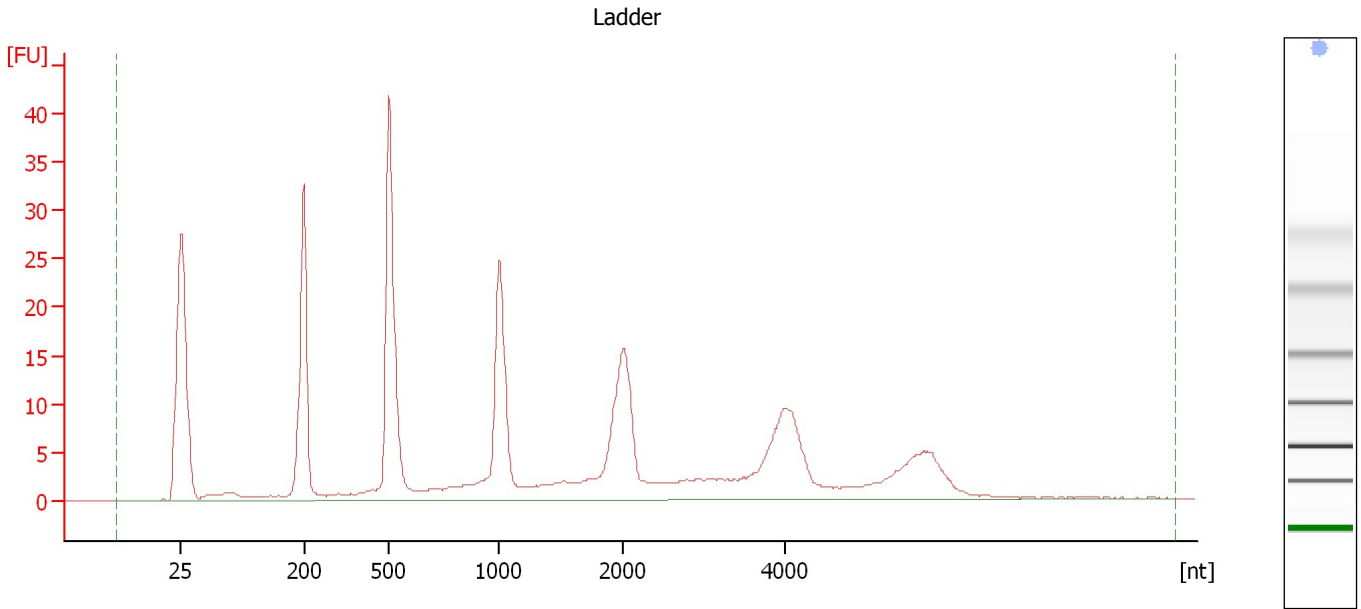
### Ladder

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

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**Electropherogram Summary**



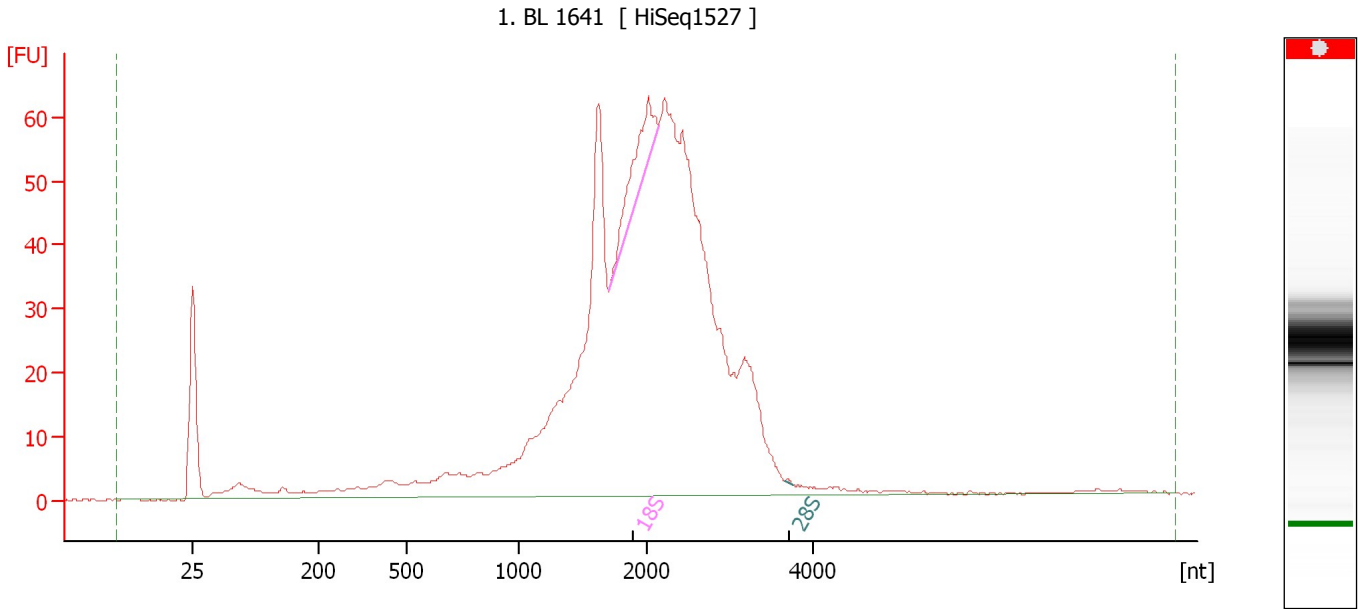
**Overall Results for Ladder**

RNA Area:	306.6	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1. BL 1641**

RNA Area:	980.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3,197 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

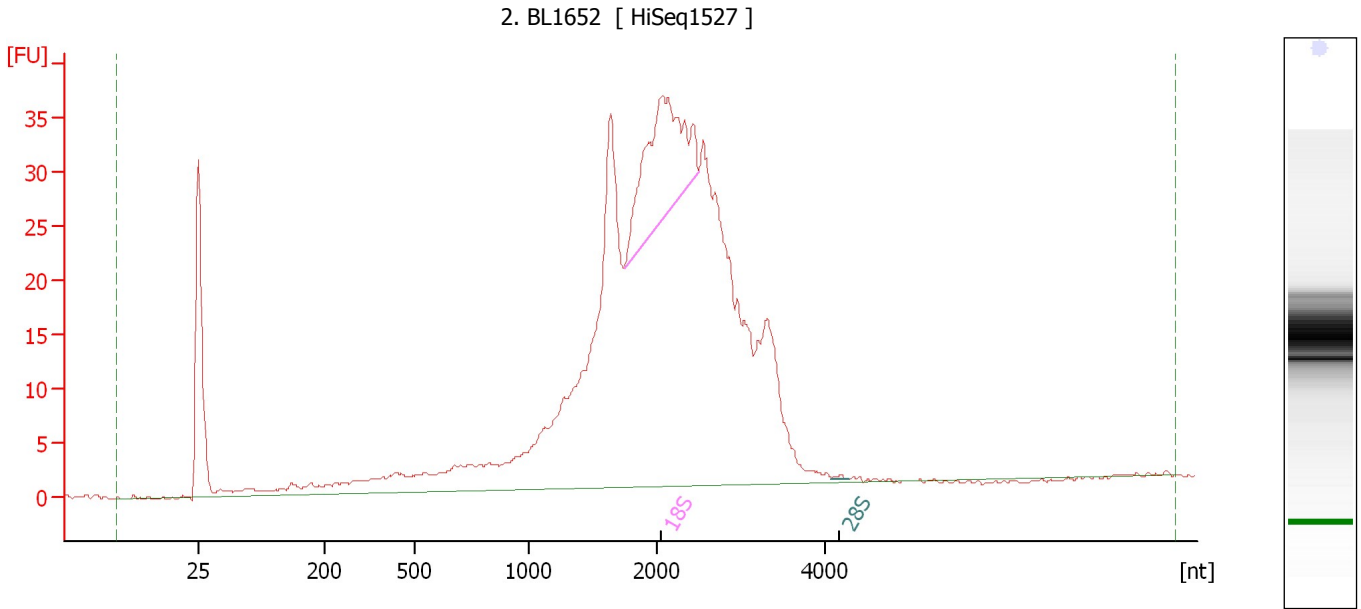
**Fragment table for sample 1 : 1. BL 1641**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,712	2,152	28.8	2.9
28S	3,668	3,758	0.2	0.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 2. BL1652**

RNA Area:	601.4	RNA Integrity Number (RIN):	3.7 (B.02.08)
RNA Concentration:	1,961 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.70

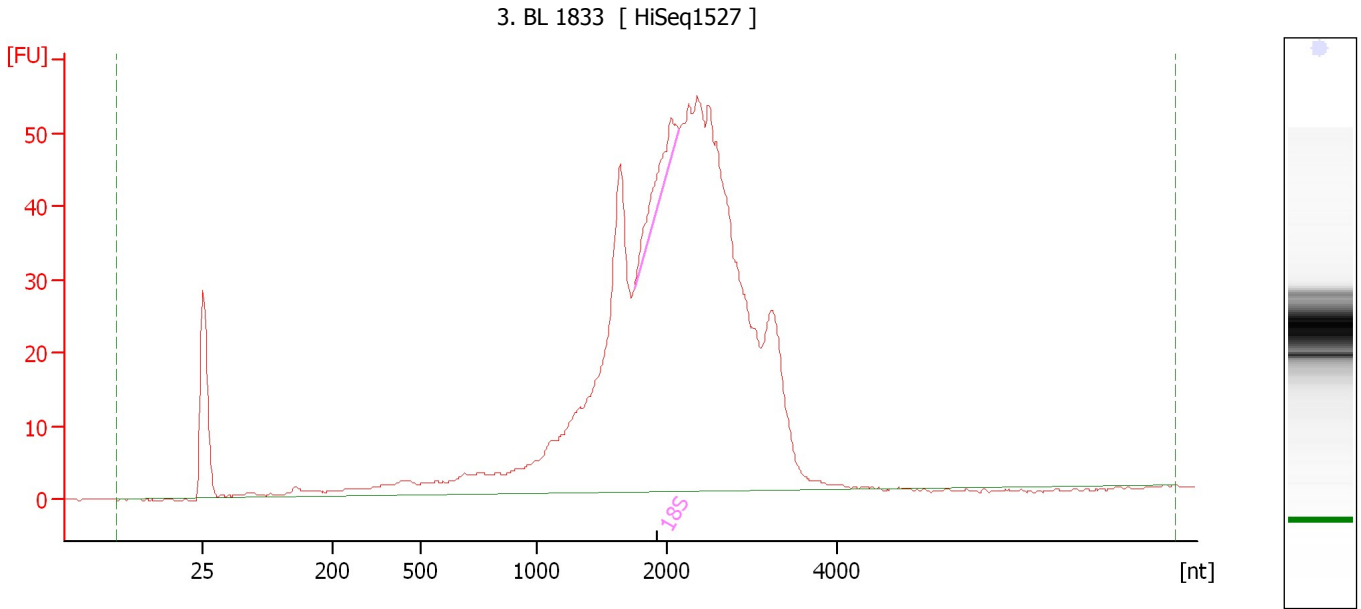
**Fragment table for sample 2 : 2. BL1652**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,752	2,499	51.8	8.6
28S	4,087	4,290	0.3	0.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2018-09-24\2018-09-24\_001\_HiSeq1527\_RNAQC.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 3. BL 1833**

RNA Area:	831.3	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	2,711 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

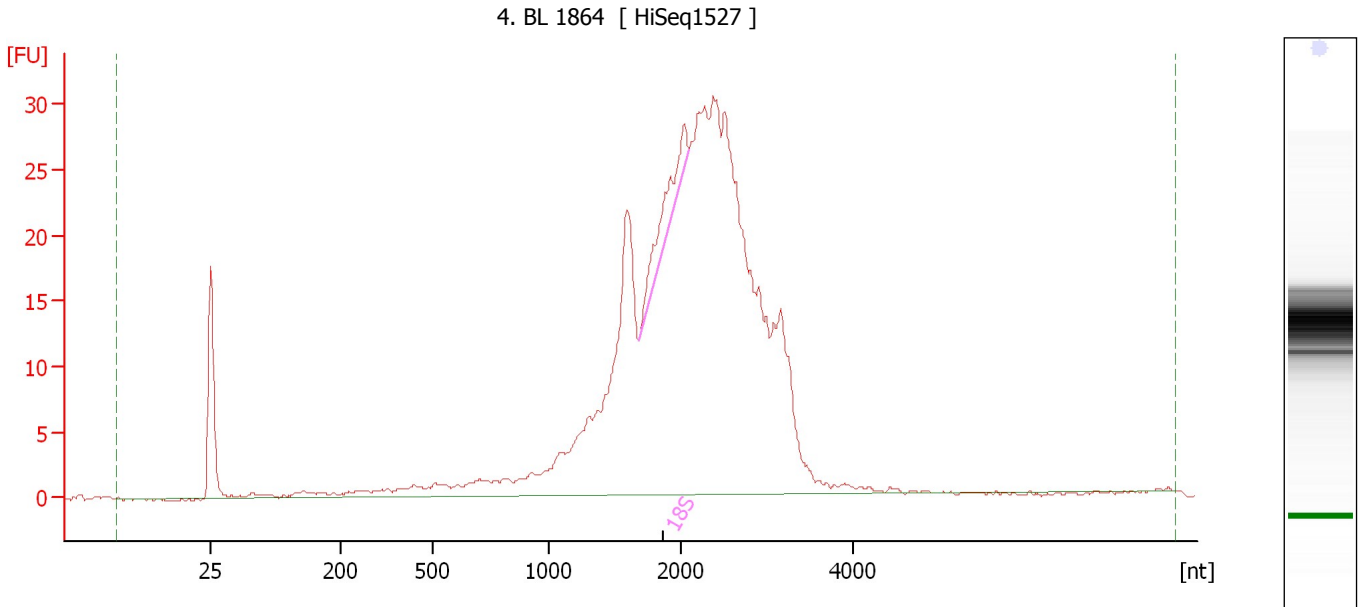
**Fragment table for sample 3 : 3. BL 1833**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,750	2,146	15.8	1.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2018-09-24\2018-09-24\_001\_HiSeq1527\_RNAQC.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 4. BL 1864**

RNA Area:	437.2	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	1,426 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

**Fragment table for sample 4 : 4. BL 1864**

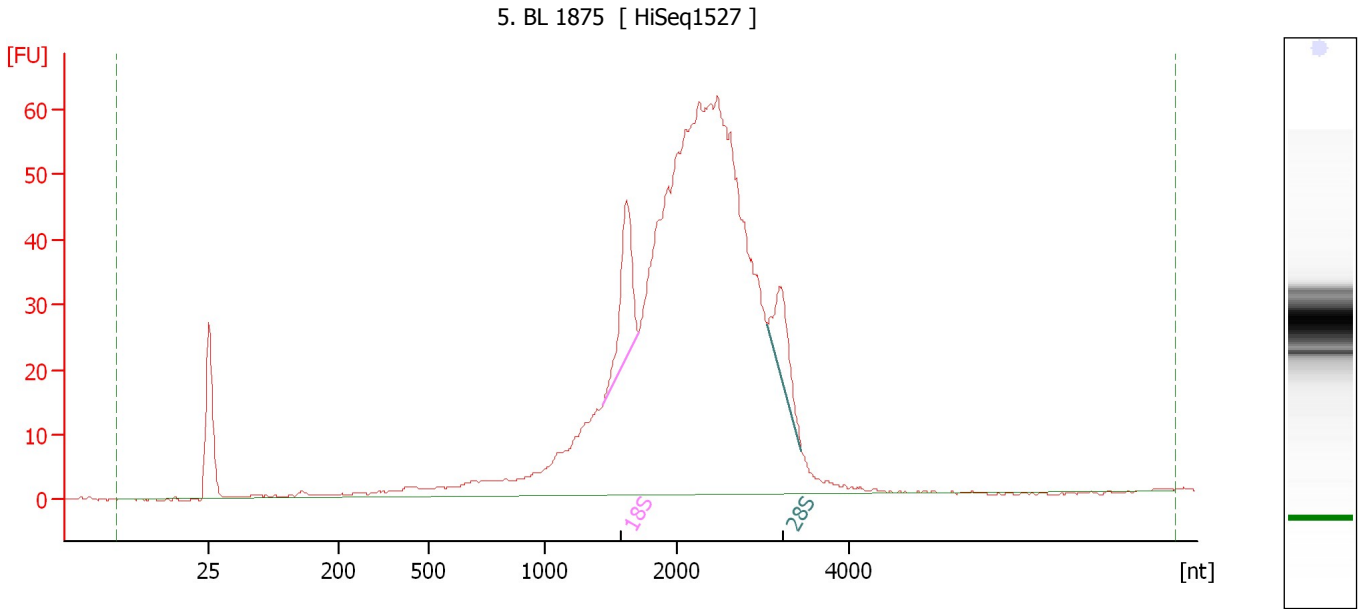
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,685	2,102	13.1	3.0



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2018-09-24\2018-09-24\_001\_HiSeq1527\_RNAQC.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 5. BL 1875**

RNA Area:	905.5	RNA Integrity Number (RIN):	3.3 (B.02.08)
RNA Concentration:	2,953 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 3.30

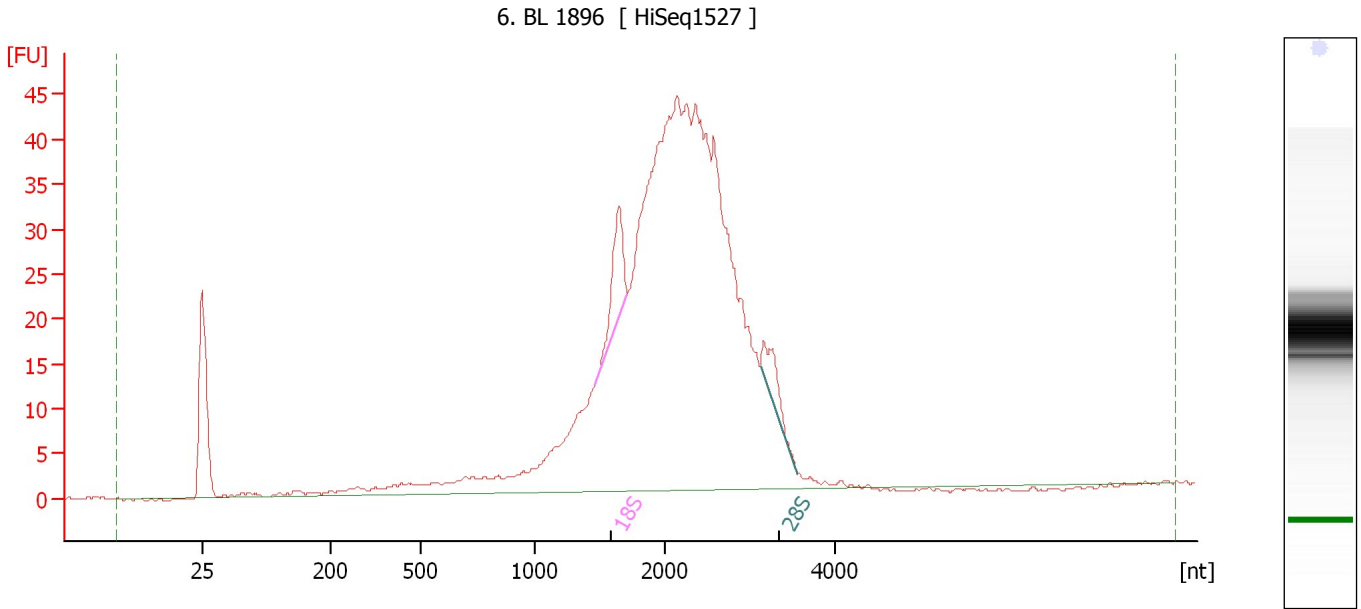
**Fragment table for sample 5 : 5. BL 1875**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,438	1,707	33.9	3.7
28S	3,045	3,456	21.0	2.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2018-09-24\2018-09-24\_001\_HiSeq1527\_RNAQC.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 6. BL 1896**

RNA Area:	638.6	RNA Integrity Number (RIN):	3 (B.02.08)
RNA Concentration:	2,083 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN:3

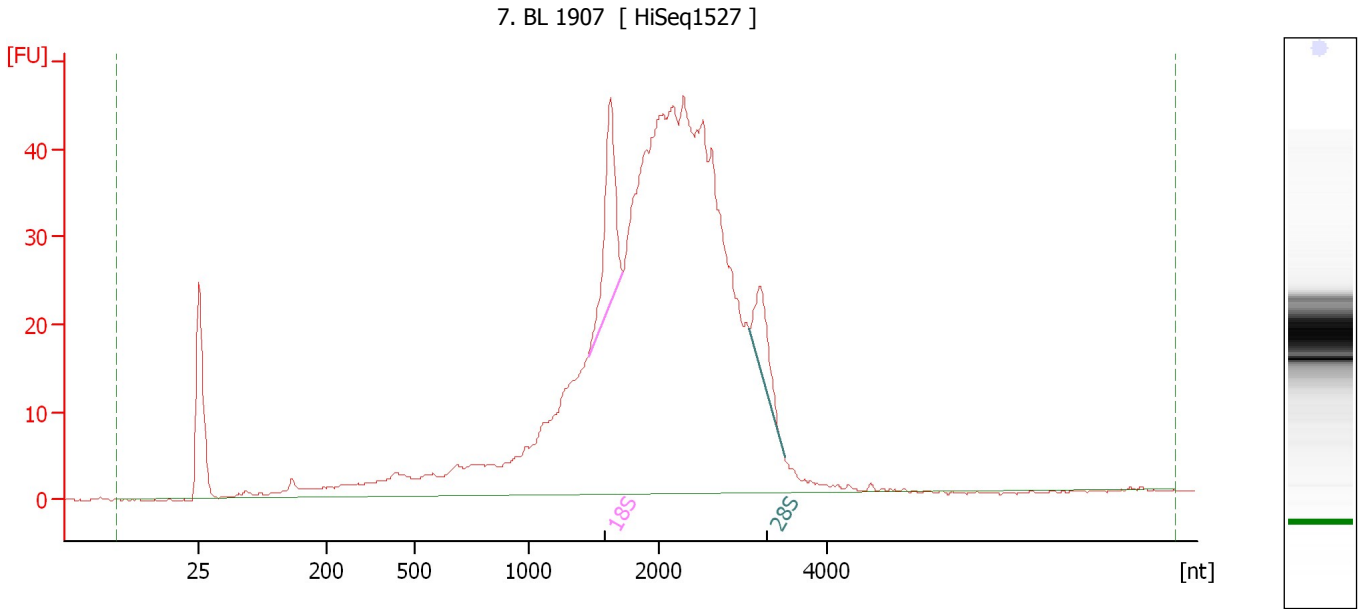
**Fragment table for sample 6 : 6. BL 1896**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,468	1,716	17.2	2.7
28S	3,128	3,557	9.3	1.5

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2018-09-24\2018-09-24\_001\_HiSeq1527\_RNAQC.xad

Created: 9/24/2018 11:17:18 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 7. BL 1907**

RNA Area:	787.7	RNA Integrity Number (RIN):	3.3 (B.02.08)
RNA Concentration:	2,569 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 3.30

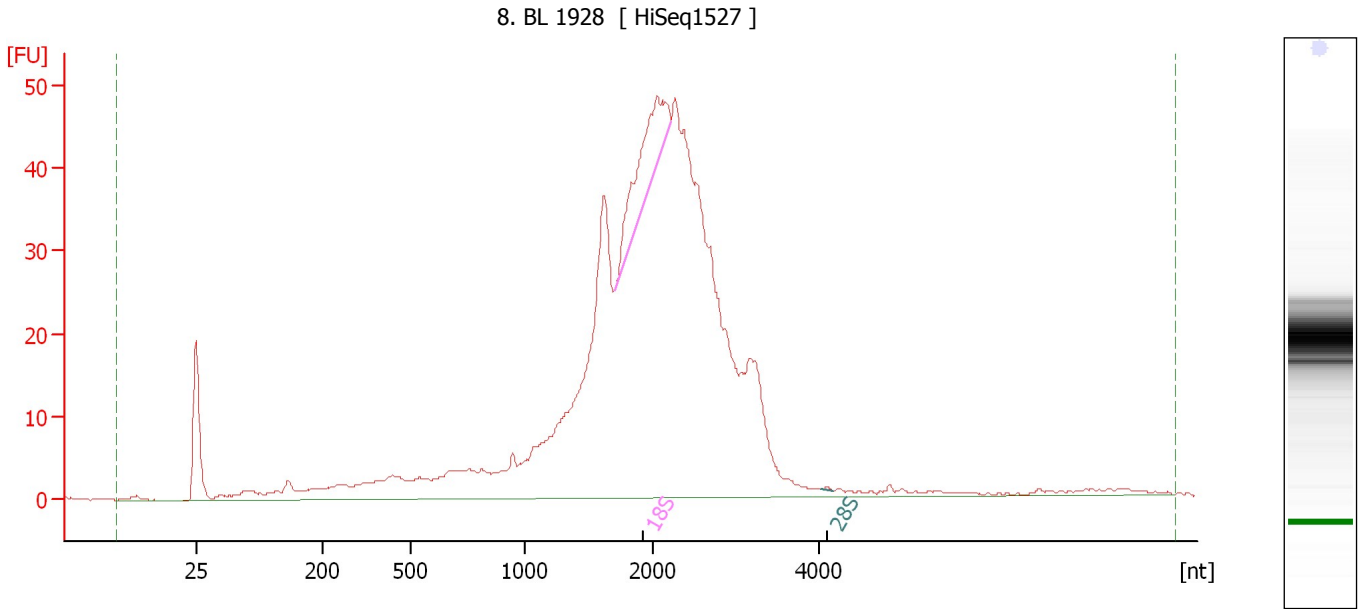
**Fragment table for sample 7 : 7. BL 1907**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,454	1,728	31.6	4.0
28S	3,069	3,500	14.8	1.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2018-09-24\2018-09-24\_001\_HiSeq1527\_RNAQC.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 8. BL 1928**

RNA Area:	757.5	RNA Integrity Number (RIN):	2.9 (B.02.08)
RNA Concentration:	2,470 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.90

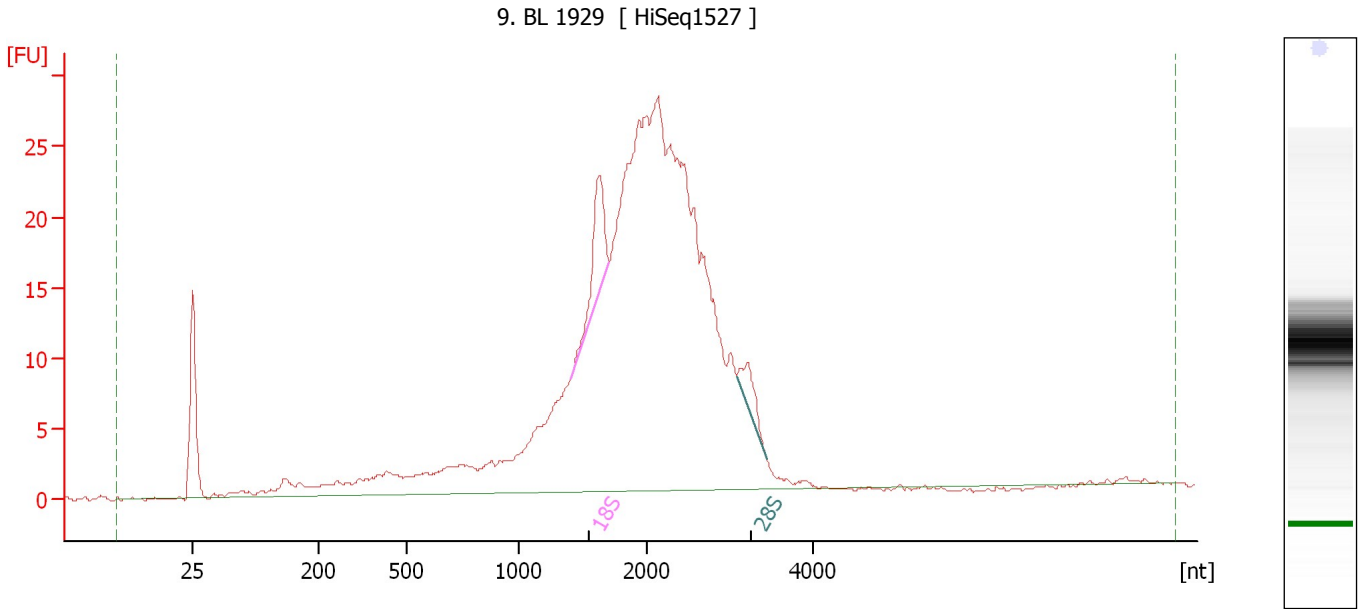
**Fragment table for sample 8 : 8. BL 1928**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,708	2,231	34.1	4.5
28S	4,017	4,170	0.2	0.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...0 expert\data\2018-09-24\2018-09-24\_001\_HiSeq1527\_RNAQC.xad

Created: 9/24/2018 11:17:18 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 9. BL 1929**

RNA Area:	431.3	RNA Integrity Number (RIN):	3 (B.02.08)
RNA Concentration:	1,406 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN:3

**Fragment table for sample 9 : 9. BL 1929**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,409	1,712	12.1	2.8
28S	3,090	3,449	4.6	1.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...0 expert\data\2018-09-24\2018-09-24\_001\_HiSeq1527\_RNAQC.xad

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**Gel Image**