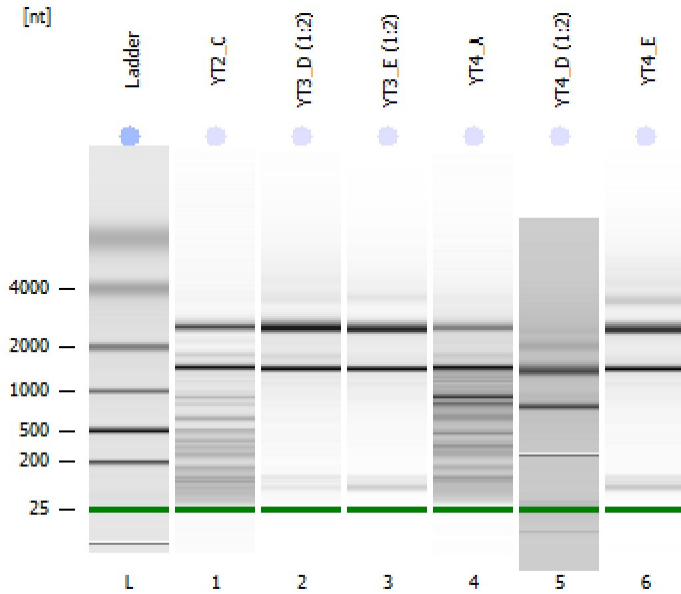


Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...expert\data\2024-09-11\QC1961\_9\_16-17\_19\_22-23\_RNA\_Nano.xad

Created: 9/11/2024 3:05:53 PM  
Modified: 9/11/2024 3:38:03 PM

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 (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Prokaryote Total RNA Nano Series II.xsy

Assay Class: Prokaryote Total RNA Nano

Version: 2.5

Assay Comments: Total RNA Analysis ng sensitivity (Prokaryote)

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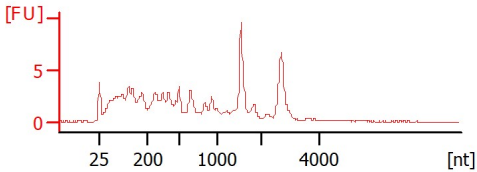
Chip Information:

Chip Lot #:

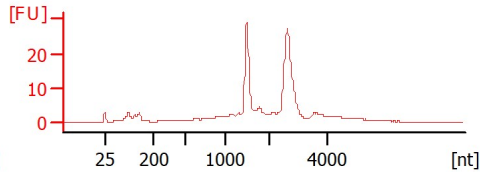
Reagent Kit Lot #:

Chip Comments:

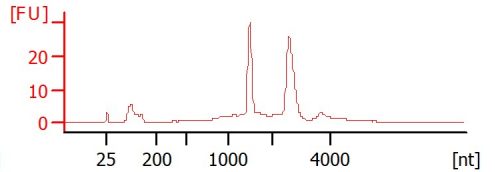
**YT2\_C**  
QC1961-9  
RIN: 6.20



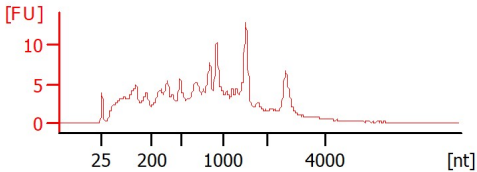
**YT3\_D (1:2)**  
QC1961-16  
RIN: 8.40



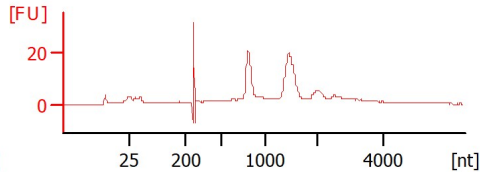
**YT3\_E (1:2)**  
QC1961-17  
RIN: 8.80



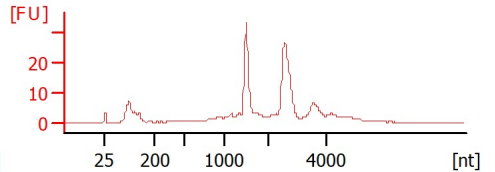
**YT4\_A**  
QC1961-19  
RIN: 4.90



**YT4\_D (1:2)**  
QC1961-22  
RIN: 8.50



**YT4\_E**  
QC1961-23  
RIN: 8.60



Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...expert\data\2024-09-11\QC1961\_9\_16-17\_19\_22-23\_RNA\_Nano.xad

Created: 9/11/2024 3:05:53 PM  
 Modified: 9/11/2024 3:38:03 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
YT2_C	QC1961-9	✓	RIN: 6.20	
YT3_D (1:2)	QC1961-16	✓	RIN: 8.40	
YT3_E (1:2)	QC1961-17	✓	RIN: 8.80	
YT4_A	QC1961-19	✓	RIN: 4.90	
YT4_D (1:2)	QC1961-22	✓	RIN: 8.50	
YT4_E	QC1961-23	✓	RIN: 8.60	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...expert\data\2024-09-11\QC1961\_9\_16-17\_19\_22-23\_RNA\_Nano.xad

Created: 9/11/2024 3:05:53 PM  
Modified: 9/11/2024 3:38:03 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/ $\mu$ l] : 150  
Lower Marker Concentration [ng/ $\mu$ l] : 0  
Upper Marker Concentration [ng/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 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

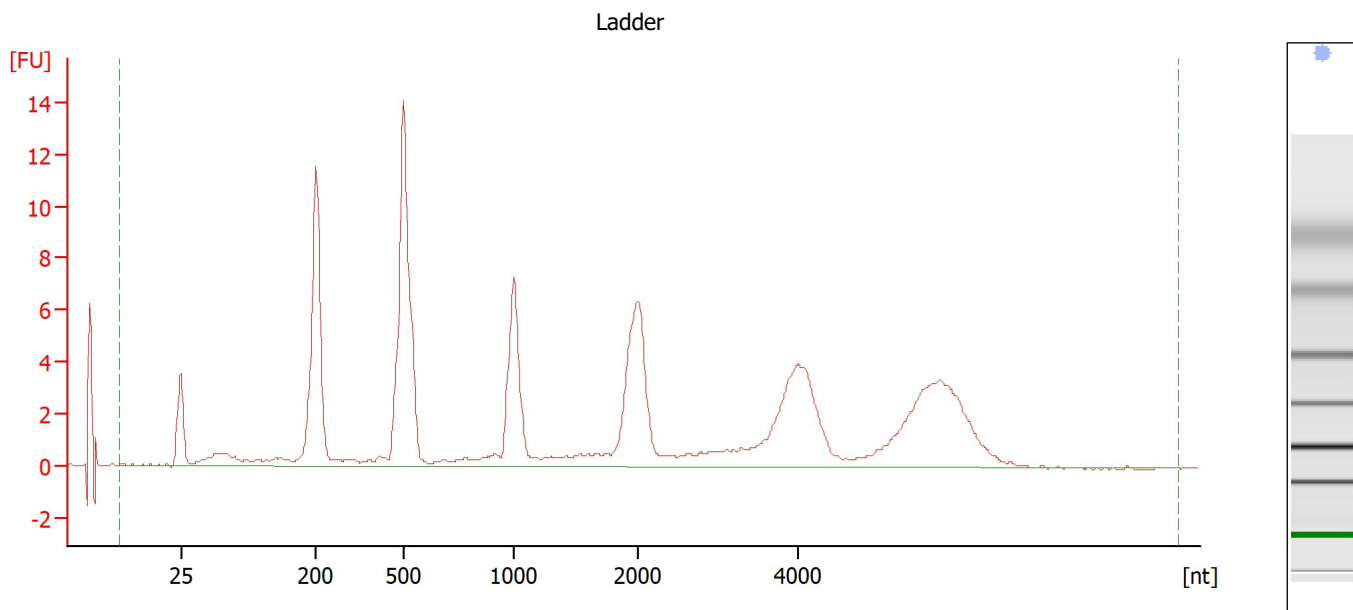
### Ladder

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

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...expert\data\2024-09-11\QC1961\_9\_16-17\_19\_22-23\_RNA\_Nano.xad

Created: 9/11/2024 3:05:53 PM  
Modified: 9/11/2024 3:38:03 PM

**Electropherogram Summary**



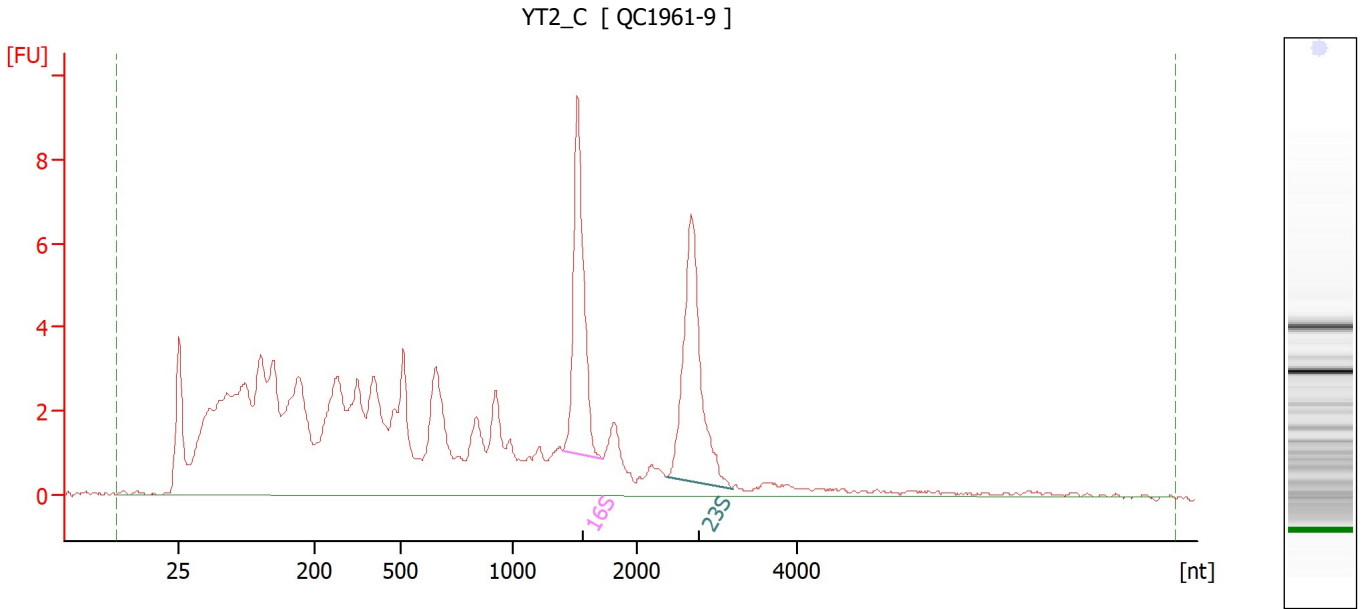
**Overall Results for Ladder**

RNA Area:	125.6	Result Flagging Color:	<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...expert\data\2024-09-11\QC1961\_9\_16-17\_19\_22-23\_RNA\_Nano.xad

Created: 9/11/2024 3:05:53 PM  
 Modified: 9/11/2024 3:38:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : YT2\_C**

RNA Area:	148.4	RNA Integrity Number (RIN):	6.2 (B.02.10)
RNA Concentration:	177 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	1.1	Result Flagging Label:	RIN: 6.20

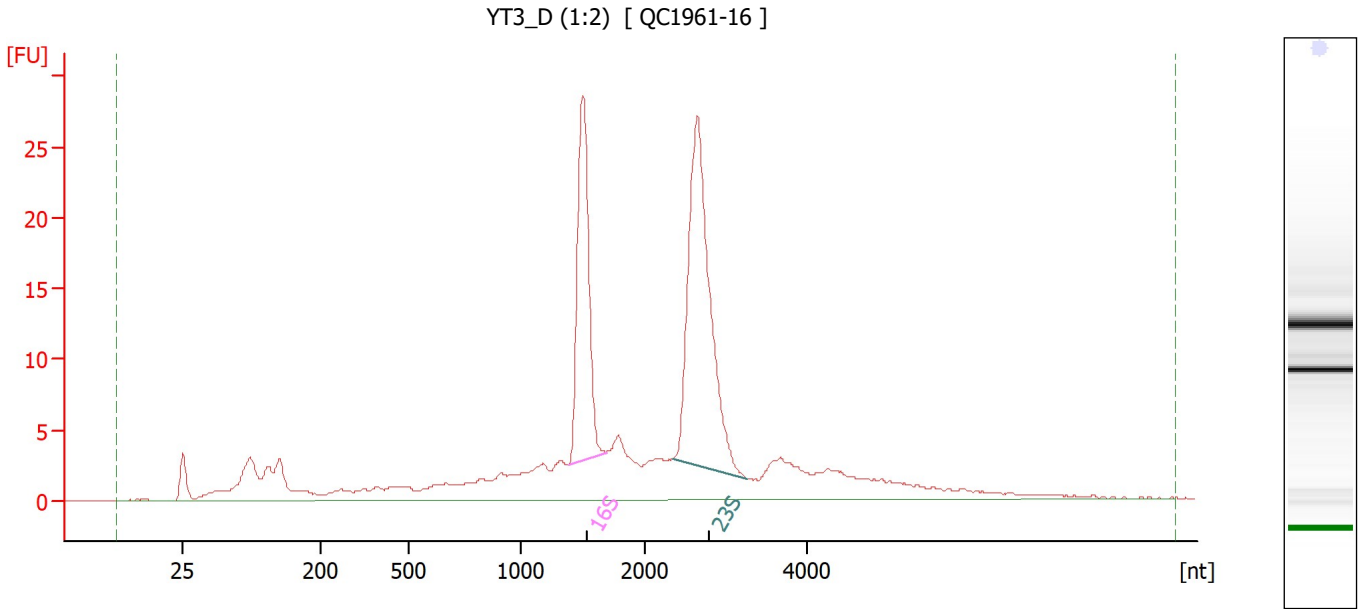
**Fragment table for sample 1 : YT2\_C**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,398	1,716	11.4	7.7
23S	2,373	3,184	12.6	8.5

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...expert\data\2024-09-11\QC1961\_9\_16-17\_19\_22-23\_RNA\_Nano.xad

Created: 9/11/2024 3:05:53 PM  
 Modified: 9/11/2024 3:38:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : YT3\_D (1:2)**

RNA Area:	248.8	RNA Integrity Number (RIN):	8.4 (B.02.10)
RNA Concentration:	297 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	1.6	Result Flagging Label:	RIN: 8.40

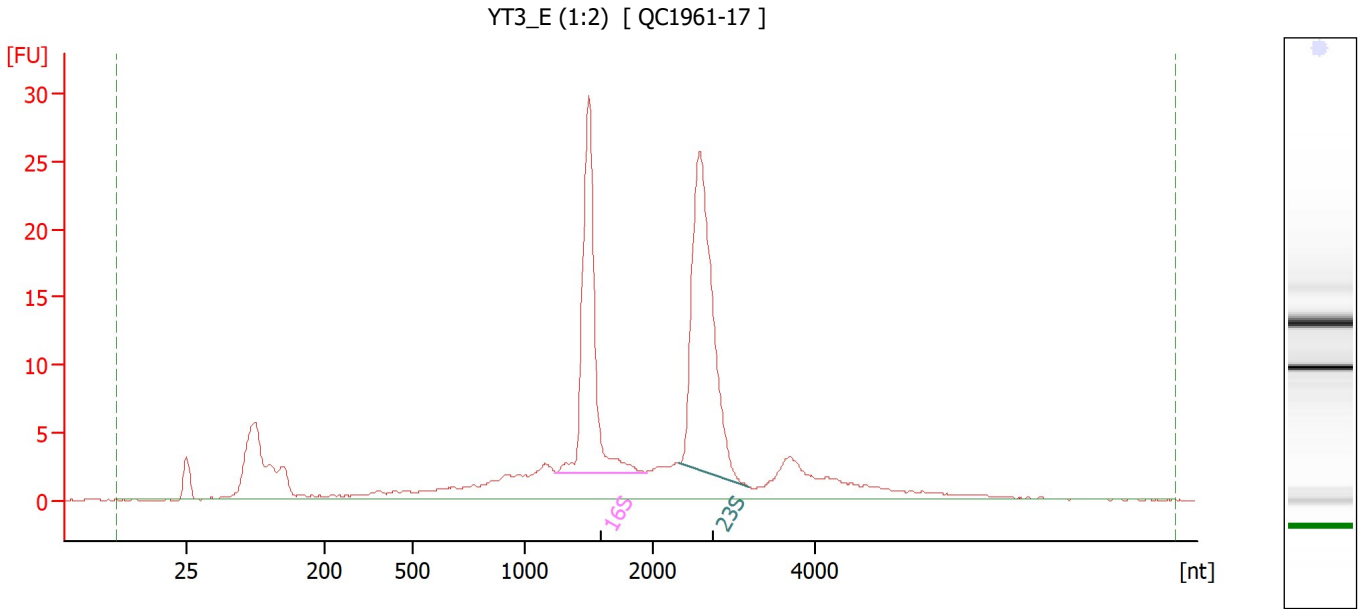
**Fragment table for sample 2 : YT3\_D (1:2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,379	1,686	38.0	15.3
23S	2,332	3,242	61.5	24.7

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...expert\data\2024-09-11\QC1961\_9\_16-17\_19\_22-23\_RNA\_Nano.xad

Created: 9/11/2024 3:05:53 PM  
 Modified: 9/11/2024 3:38:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : YT3 E (1:2)**

RNA Area:	224.3	RNA Integrity Number (RIN):	8.8 (B.02.10)
RNA Concentration:	268 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	1.3	Result Flagging Label:	RIN: 8.80

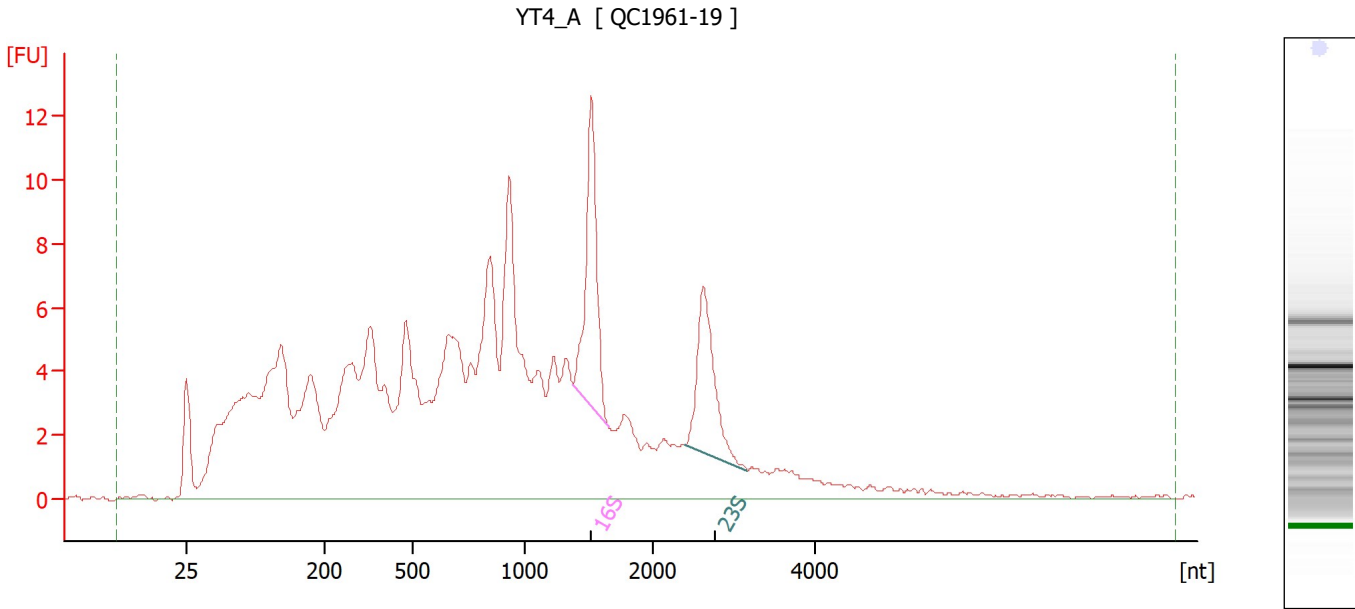
**Fragment table for sample 3 : YT3 E (1:2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,232	1,952	43.4	19.3
23S	2,331	3,183	56.2	25.1

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...expert\data\2024-09-11\QC1961\_9\_16-17\_19\_22-23\_RNA\_Nano.xad

Created: 9/11/2024 3:05:53 PM  
 Modified: 9/11/2024 3:38:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : YT4 A**

RNA Area:	277.1	RNA Integrity Number (RIN):	4.9 (B.02.10)
RNA Concentration:	331 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	0.8	Result Flagging Label:	RIN: 4.90

**Fragment table for sample 4 : YT4 A**

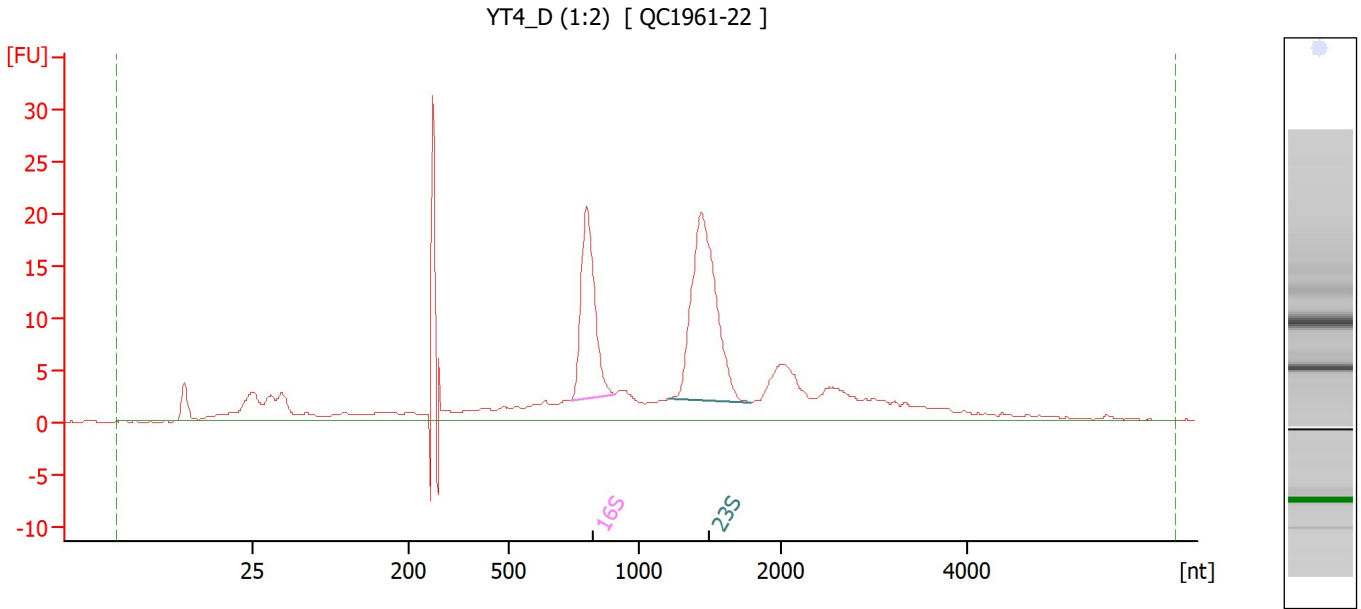
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,376	1,655	13.5	4.9
23S	2,410	3,170	10.3	3.7



Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...expert\data\2024-09-11\QC1961\_9\_16-17\_19\_22-23\_RNA\_Nano.xad

Created: 9/11/2024 3:05:53 PM  
 Modified: 9/11/2024 3:38:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : YT4\_D (1:2)**

RNA Area:	243.3	RNA Integrity Number (RIN):	8.5 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	291 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	1.6	Result Flagging Label:	RIN: 8.50

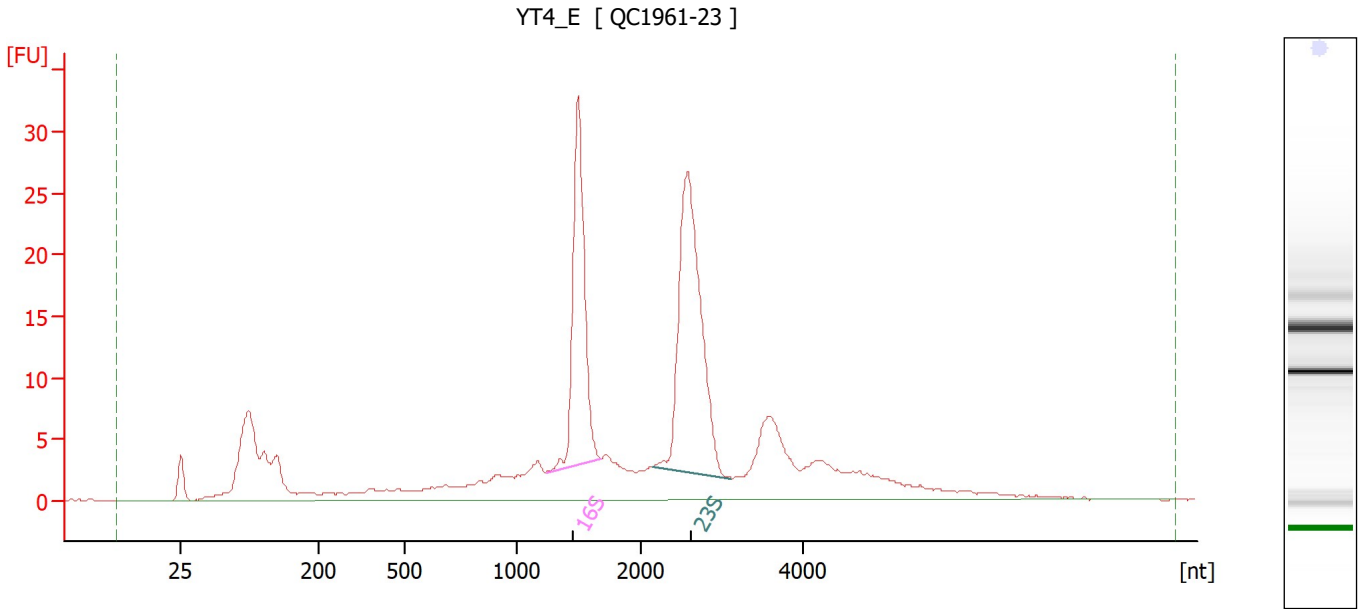
**Fragment table for sample 5 : YT4\_D (1:2)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	734	909	32.2	13.2
23S	1,209	1,783	51.6	21.2

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...expert\data\2024-09-11\QC1961\_9\_16-17\_19\_22-23\_RNA\_Nano.xad

Created: 9/11/2024 3:05:53 PM  
 Modified: 9/11/2024 3:38:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : YT4\_E**

RNA Area:	294.7	RNA Integrity Number (RIN):	8.6 (B.02.10)
RNA Concentration:	352 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	1.4	Result Flagging Label:	RIN: 8.60

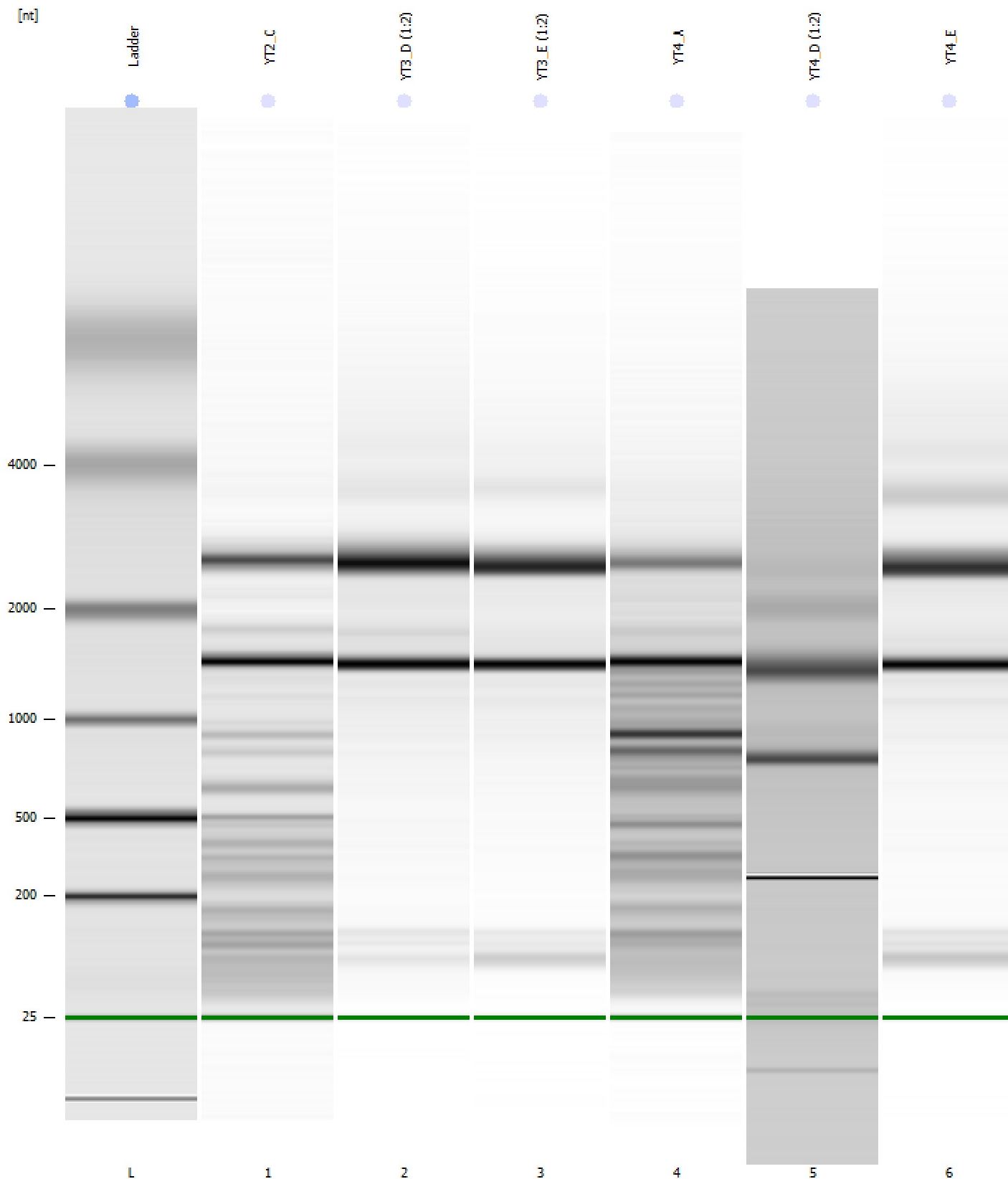
**Fragment table for sample 6 : YT4\_E**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,238	1,675	44.7	15.2
23S	2,147	3,114	63.1	21.4

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...expert\data\2024-09-11\QC1961\_9\_16-17\_19\_22-23\_RNA\_Nano.xad

Created: 9/11/2024 3:05:53 PM  
Modified: 9/11/2024 3:38:03 PM

**Gel Image**



Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...expert\data\2024-09-11\QC1961\_9\_16-17\_19\_22-23\_RNA\_Nano.xad

Created: 9/11/2024 3:05:53 PM  
 Modified: 9/11/2024 3:38:03 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		9/11/2024 3:28:58 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2024-09-11\Bioanalyzer1_Prokaryote Total RNA Nano_DE34903152_2024-09-11_002.xad)		Instrument	Run		9/11/2024 3:05:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		9/11/2024 3:05:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		9/11/2024 3:05:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		9/11/2024 3:05:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		9/11/2024 3:05:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		9/11/2024 3:05:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		9/11/2024 3:05:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB