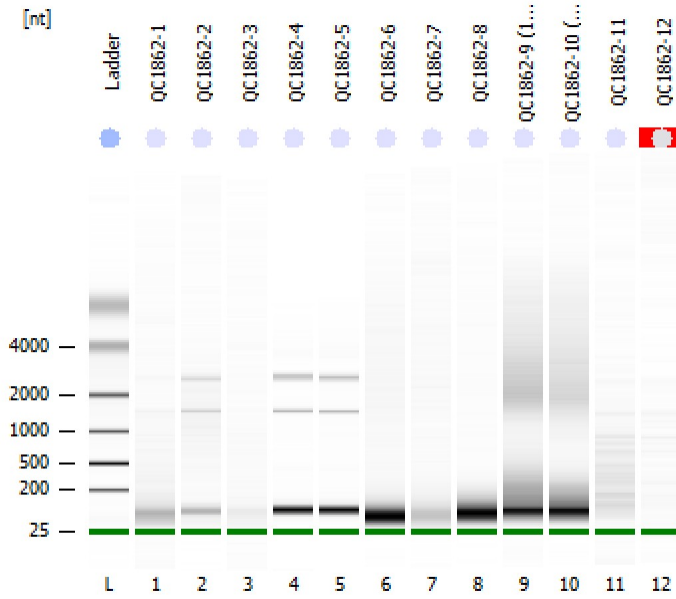


Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**Electrophoresis File Run Summary**



Instrument Information:

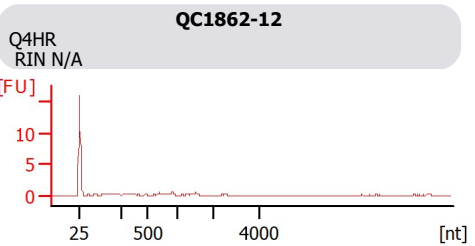
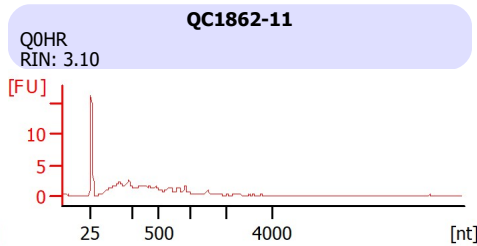
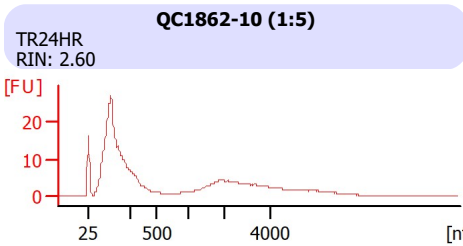
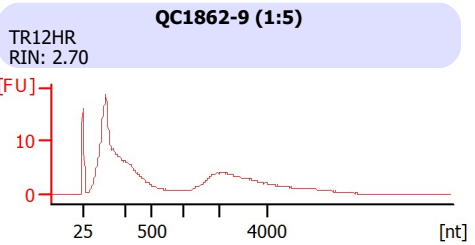
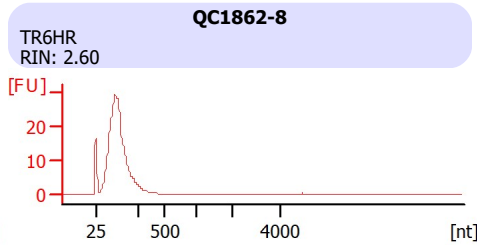
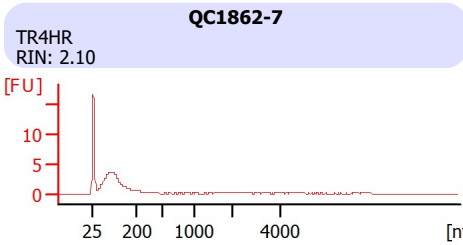
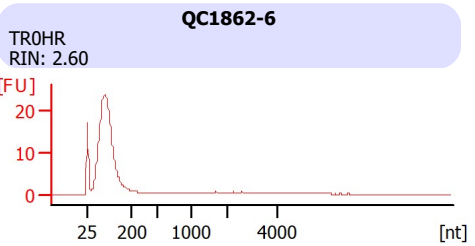
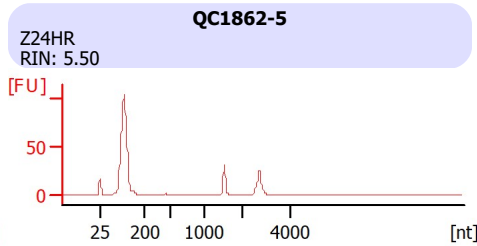
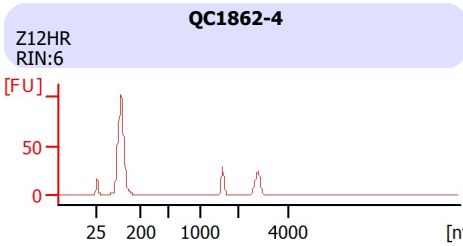
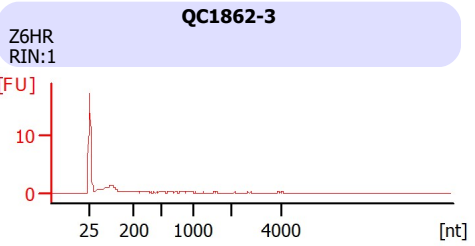
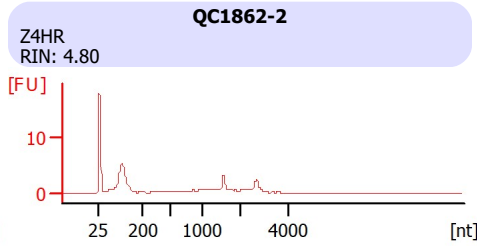
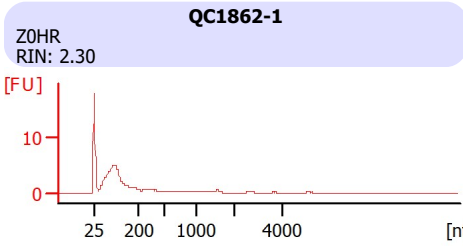
Instrument Name: DE34903152      Firmware: C.01.069  
 Serial#: DE34903152      Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (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:



Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
QC1862-1	Z0HR	✓	RIN: 2.30	
QC1862-2	Z4HR	✓	RIN: 4.80	
QC1862-3	Z6HR	✓	RIN:1	
QC1862-4	Z12HR	✓	RIN:6	
QC1862-5	Z24HR	✓	RIN: 5.50	
QC1862-6	TR0HR	✓	RIN: 2.60	
QC1862-7	TR4HR	✓	RIN: 2.10	
QC1862-8	TR6HR	✓	RIN: 2.60	
QC1862-9 (1:5)	TR12HR	✓	RIN: 2.70	
QC1862-10 (1:5)	TR24HR	✓	RIN: 2.60	
QC1862-11	Q0HR	✓	RIN: 3.10	
QC1862-12	Q4HR	✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**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] : 0.5  
 Area Threshold : 0.2  
 Width Threshold [s] : 0.5  
 Baseline Plateau [s] : 6

**Filter Settings**

Filter Width [s] : 0.5  
 Polynomial Order : 4

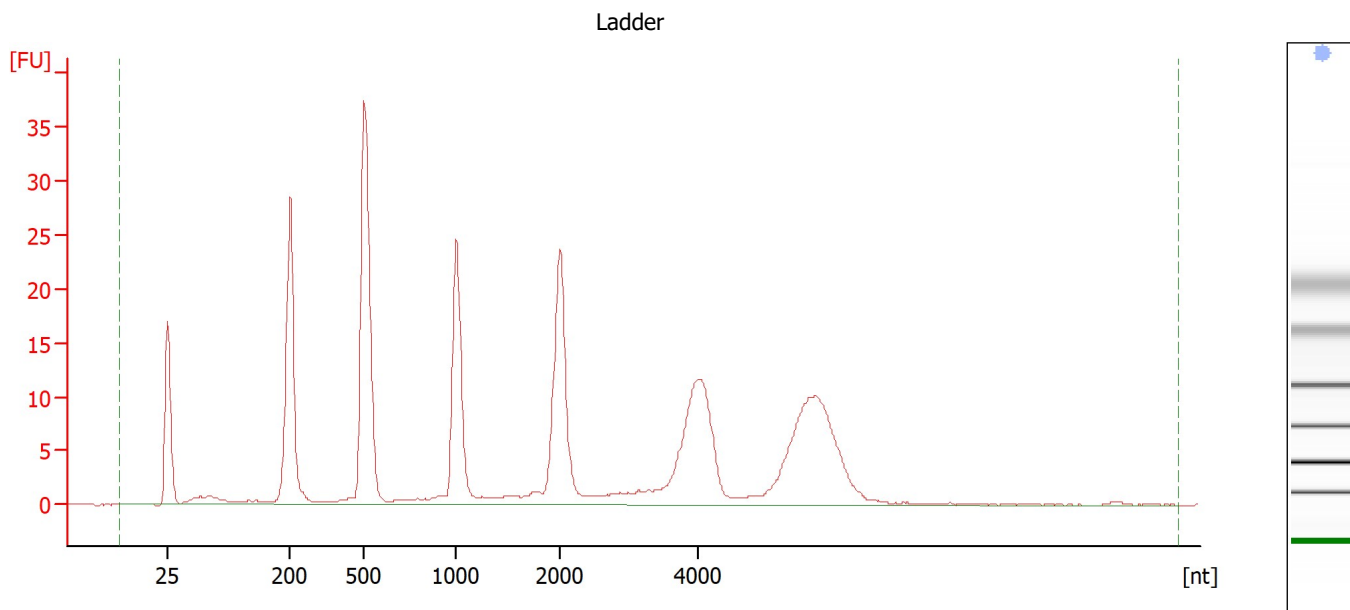
**Ladder**

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

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
Modified: 5/29/2024 9:53:16 AM

**Electropherogram Summary**



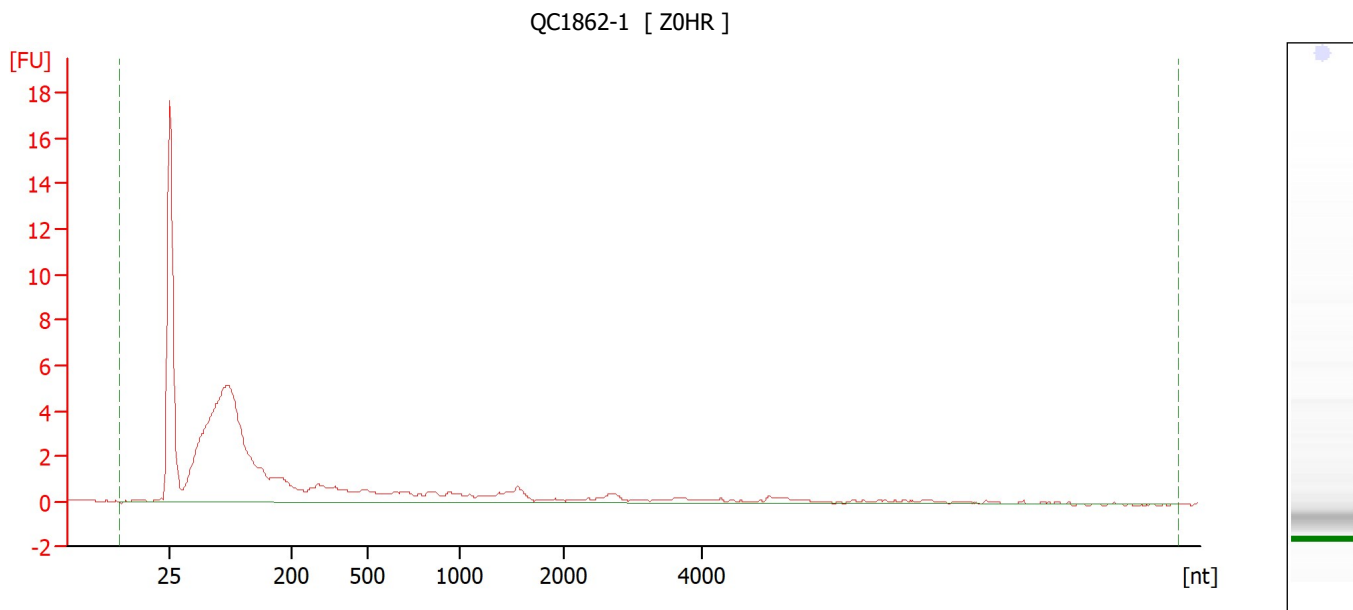
**Overall Results for Ladder**

RNA Area:	295.6	Result Flagging Color:	<span style="background-color: #6699ff; 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:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : QC1862-1**

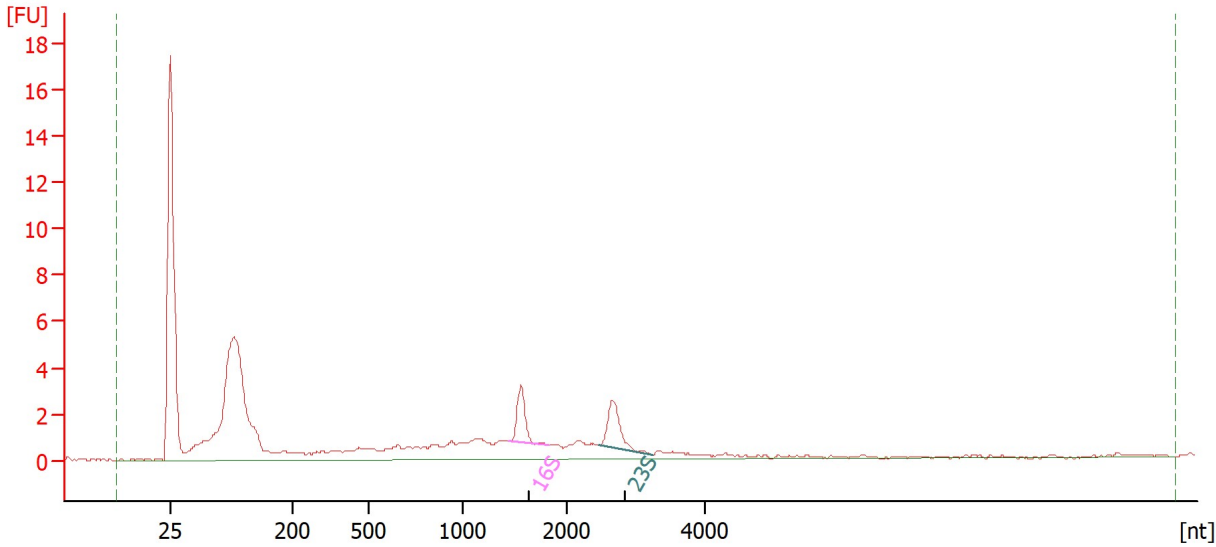
RNA Area:	72.7	RNA Integrity Number (RIN):	2.3 (B.02.10)
RNA Concentration:	37 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
Modified: 5/29/2024 9:53:16 AM

**Electropherogram Summary Continued ...**

QC1862-2 [ Z4HR ]



**Overall Results for sample 2 : QC1862-2**

RNA Area: 65.2                      RNA Integrity Number (RIN): 4.8 (B.02.10)  
RNA Concentration: 33 ng/μl              Result Flagging Color:   
rRNA Ratio [23s / 16s]: 1.1              Result Flagging Label: RIN: 4.80

**Fragment table for sample 2 : QC1862-2**

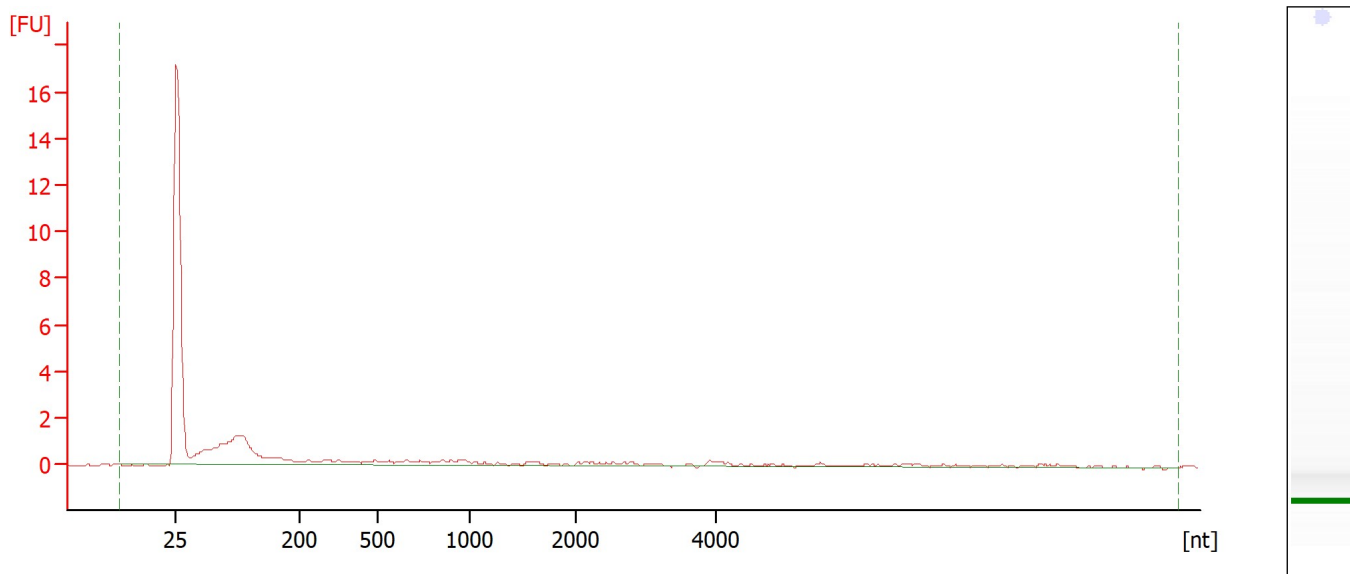
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,437	1,834	2.8	4.4
23S	2,460	3,247	3.2	4.9

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**Electropherogram Summary Continued ...**

QC1862-3 [ Z6HR ]



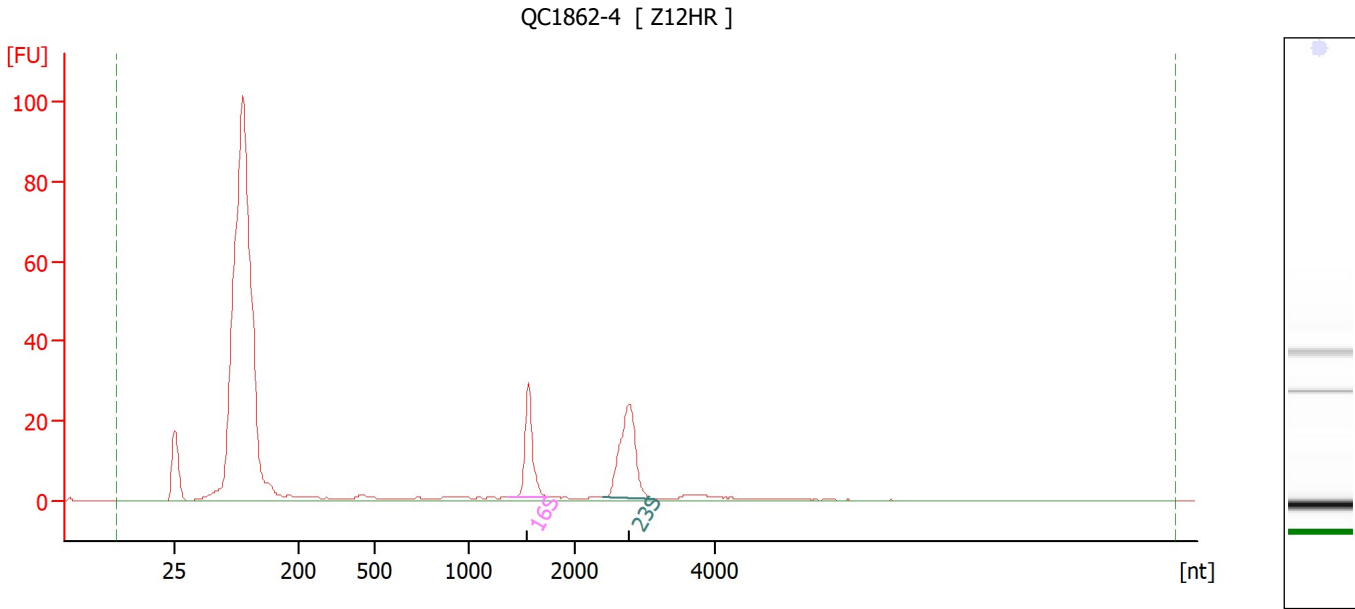
**Overall Results for sample 3 : QC1862-3**

RNA Area:	20.9	RNA Integrity Number (RIN):	1 (B.02.10)
RNA Concentration:	11 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]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : QC1862-4**

RNA Area:	511.2	RNA Integrity Number (RIN):	6 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	259 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]:	1.5	Result Flagging Label:	RIN:6

**Fragment table for sample 4 : QC1862-4**

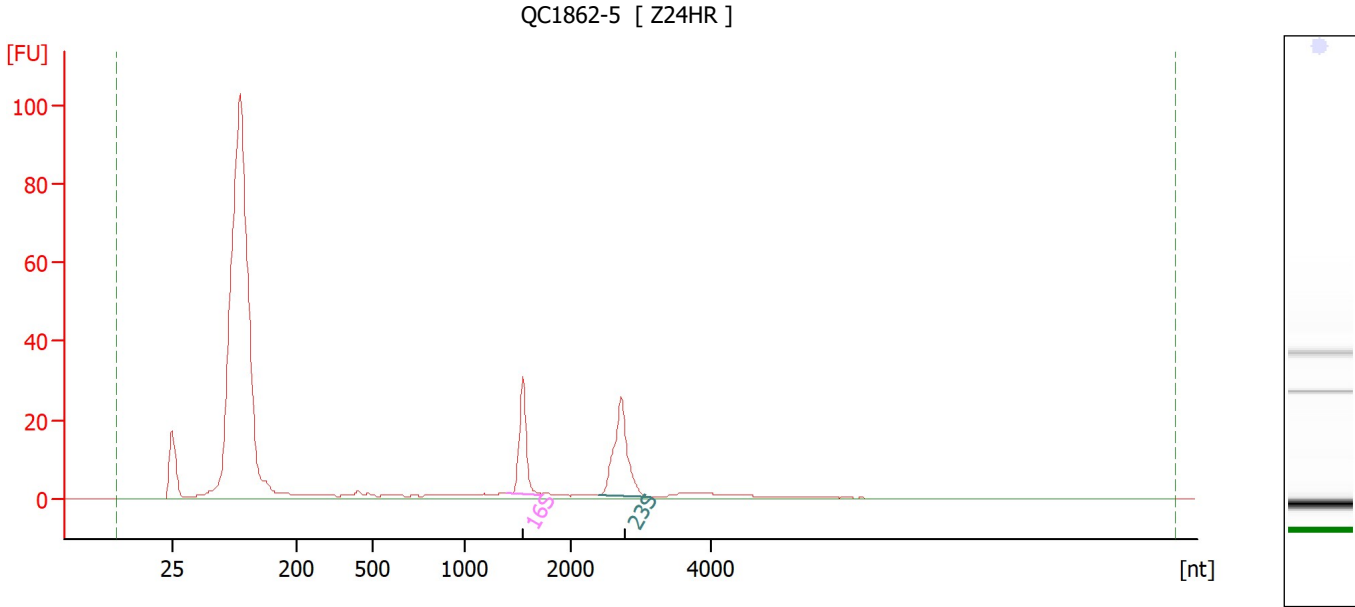
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,367	1,741	30.4	5.9
23S	2,404	3,154	46.1	9.0



Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : QC1862-5**

RNA Area:	525.7	RNA Integrity Number (RIN):	5.5 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	267 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: 5.50

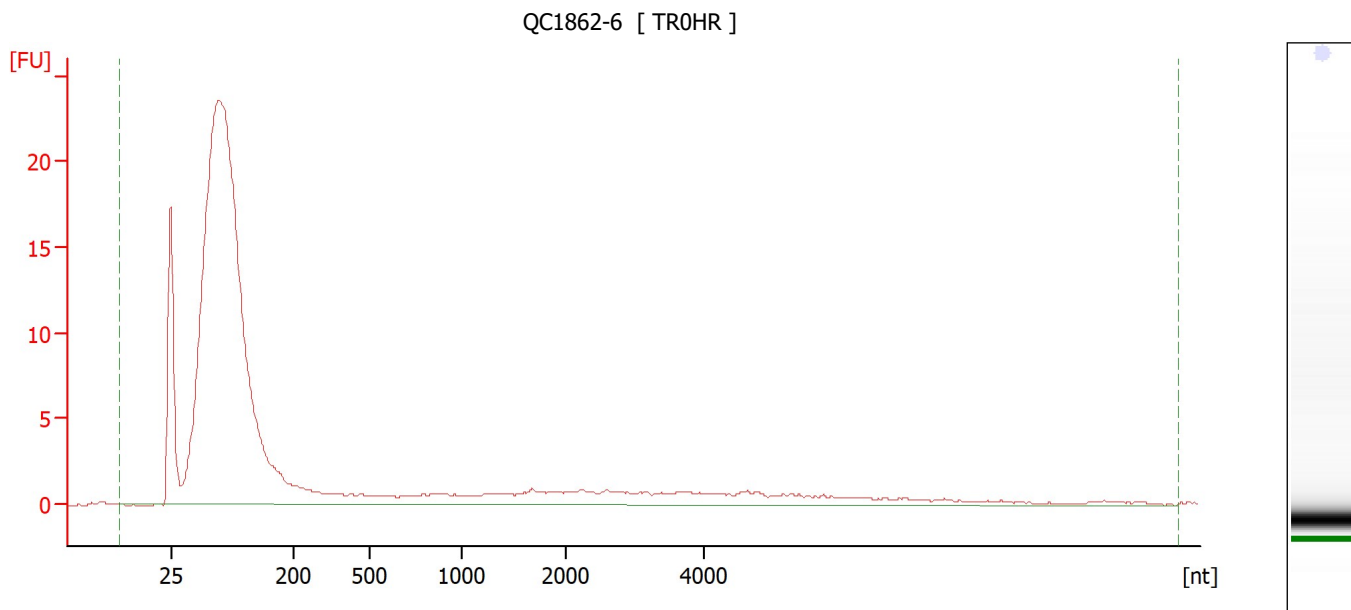
**Fragment table for sample 5 : QC1862-5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,382	1,716	28.5	5.4
23S	2,401	3,154	40.5	7.7

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**Electropherogram Summary Continued ...**



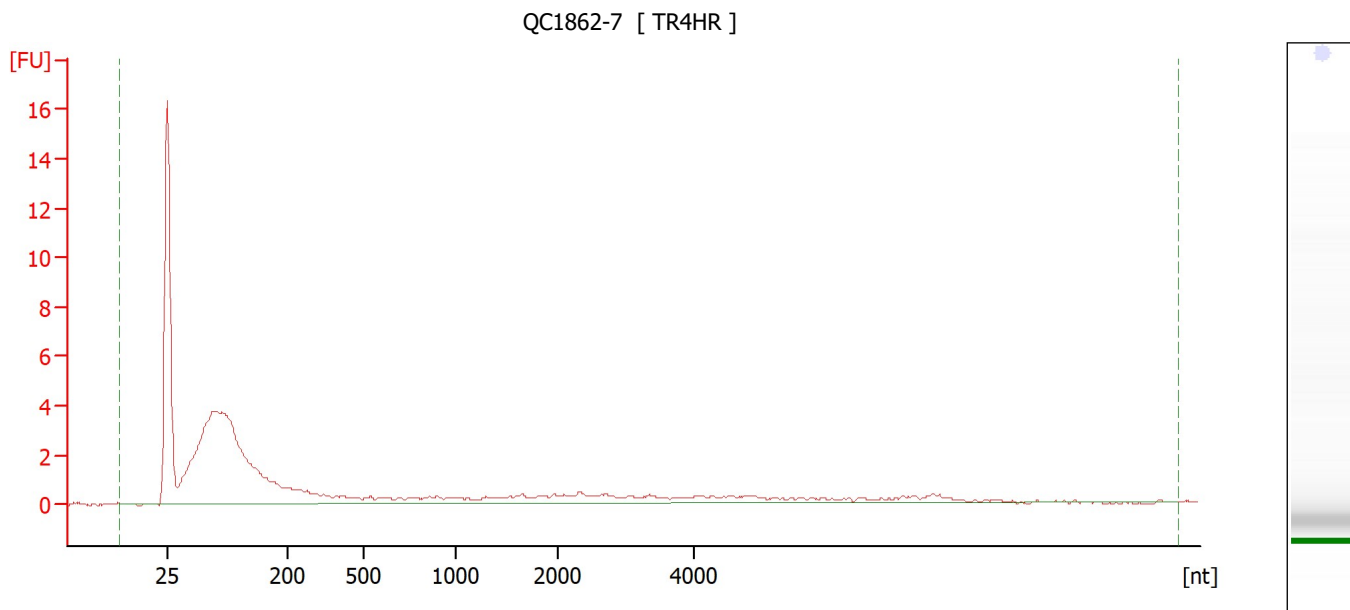
**Overall Results for sample 6 : QC1862-6**

RNA Area:	253.2	RNA Integrity Number (RIN):	2.6 (B.02.10)
RNA Concentration:	129 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]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**Electropherogram Summary Continued ...**



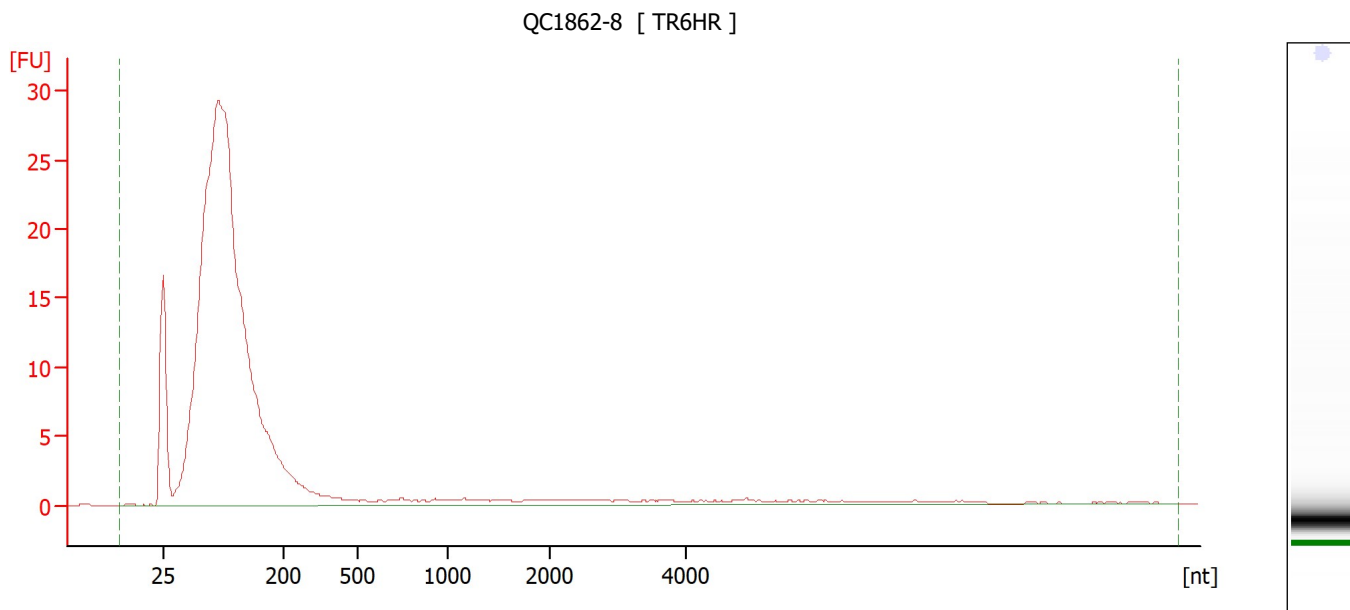
**Overall Results for sample 7 : QC1862-7**

RNA Area:	59.0	RNA Integrity Number (RIN):	2.1 (B.02.10)
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 [23s / 16s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**Electropherogram Summary Continued ...**



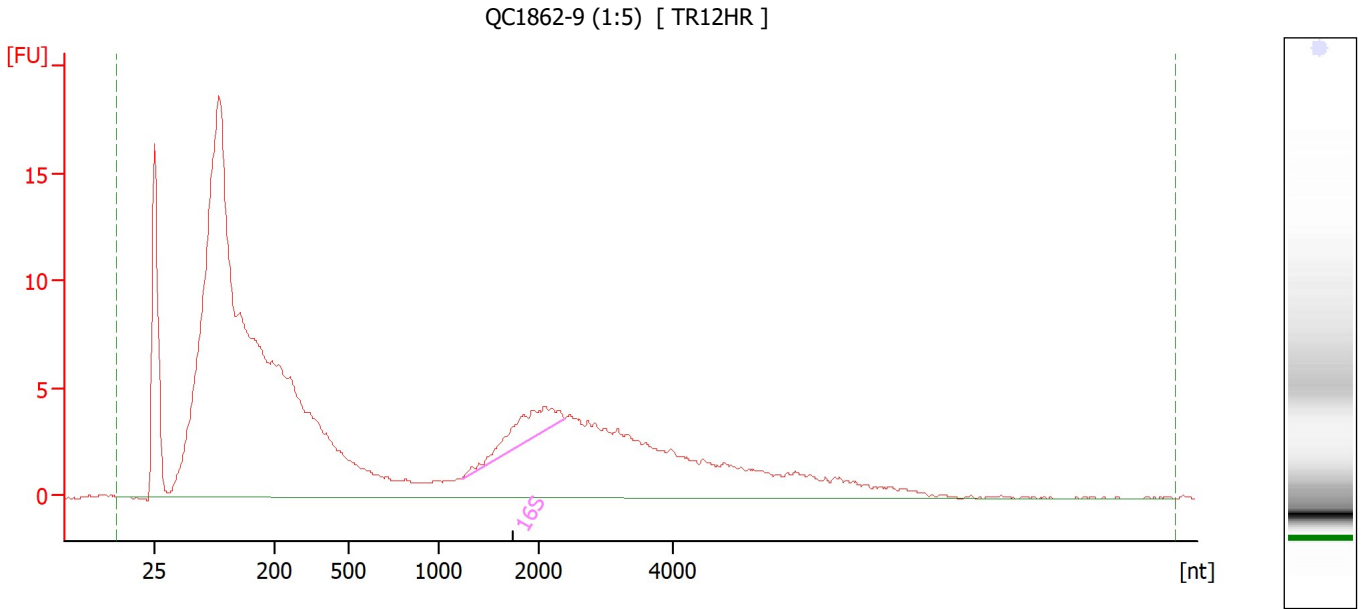
**Overall Results for sample 8 : QC1862-8**

RNA Area:	302.8	RNA Integrity Number (RIN):	2.6 (B.02.10)
RNA Concentration:	154 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]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : QC1862-9 (1:5)**

RNA Area:	319.3	RNA Integrity Number (RIN):	2.7 (B.02.10)
RNA Concentration:	162 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]:	0.0	Result Flagging Label:	RIN: 2.70

**Fragment table for sample 9 : QC1862-9 (1:5)**

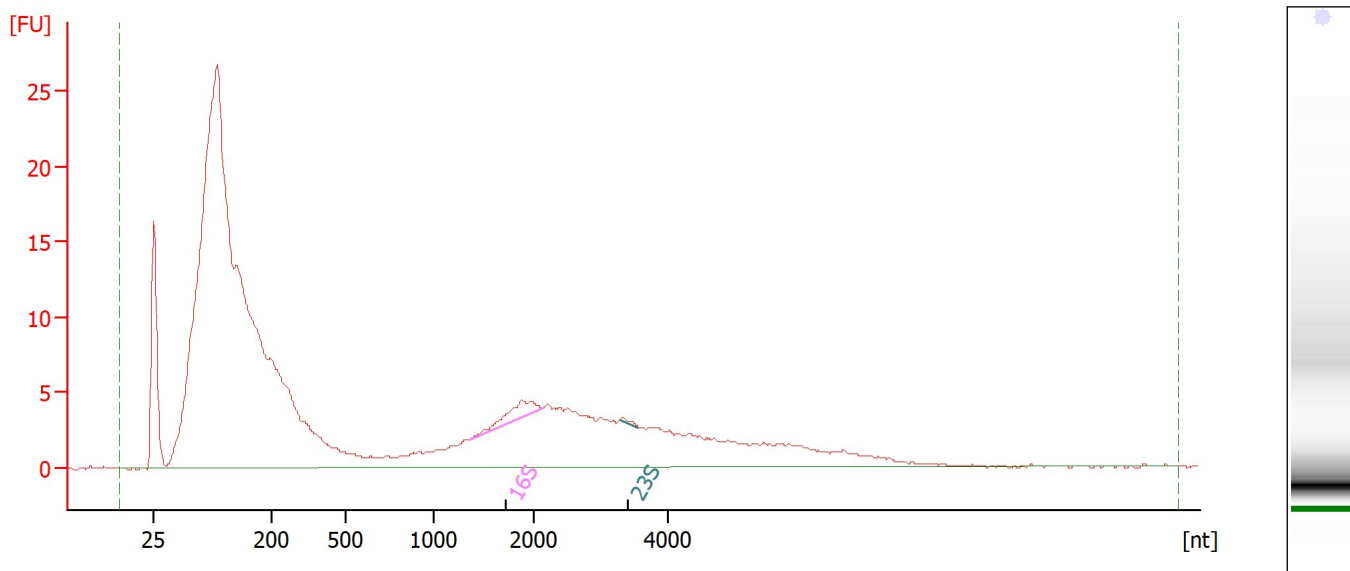
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,237	2,392	8.4	2.6

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**Electropherogram Summary Continued ...**

QC1862-10 (1:5) [ TR24HR ]



**Overall Results for sample 10 : QC1862-10 (1:5)**

RNA Area: 400.2 RNA Integrity Number (RIN): 2.6 (B.02.10)  
 RNA Concentration: 203 ng/μl Result Flagging Color:   
 rRNA Ratio [23s / 16s]: 0.1 Result Flagging Label: RIN: 2.60

**Fragment table for sample 10 : QC1862-10 (1:5)**

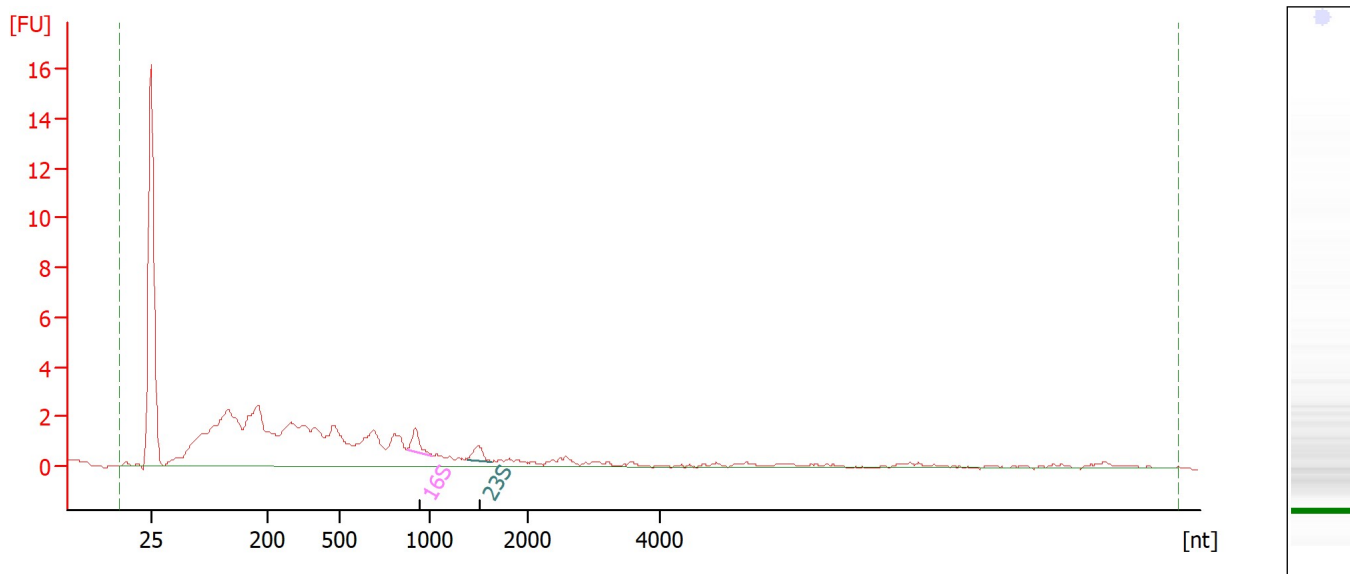
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	1,362	2,144	4.4	1.1
23S	3,271	3,561	0.3	0.1

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**Electropherogram Summary Continued ...**

QC1862-11 [ Q0HR ]



**Overall Results for sample 11 : QC1862-11**

RNA Area:	67.3	RNA Integrity Number (RIN):	3.1 (B.02.10)
RNA Concentration:	34 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]:	0.7	Result Flagging Label:	RIN: 3.10

**Fragment table for sample 11 : QC1862-11**

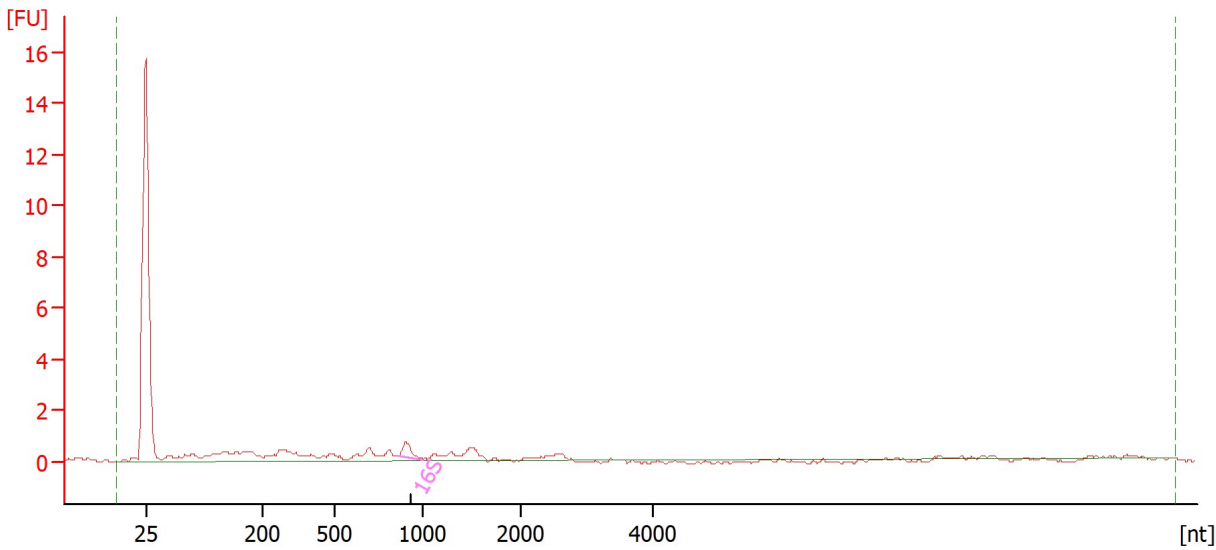
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	878	1,031	1.1	1.7
23S	1,384	1,630	0.8	1.2

Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**Electropherogram Summary Continued ...**

QC1862-12 [ Q4HR ]



**Overall Results for sample 12 : QC1862-12**

RNA Area:	17.0	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	9 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [23s / 16s]:	0.0	Result Flagging Label:	RIN N/A

**Fragment table for sample 12 : QC1862-12**

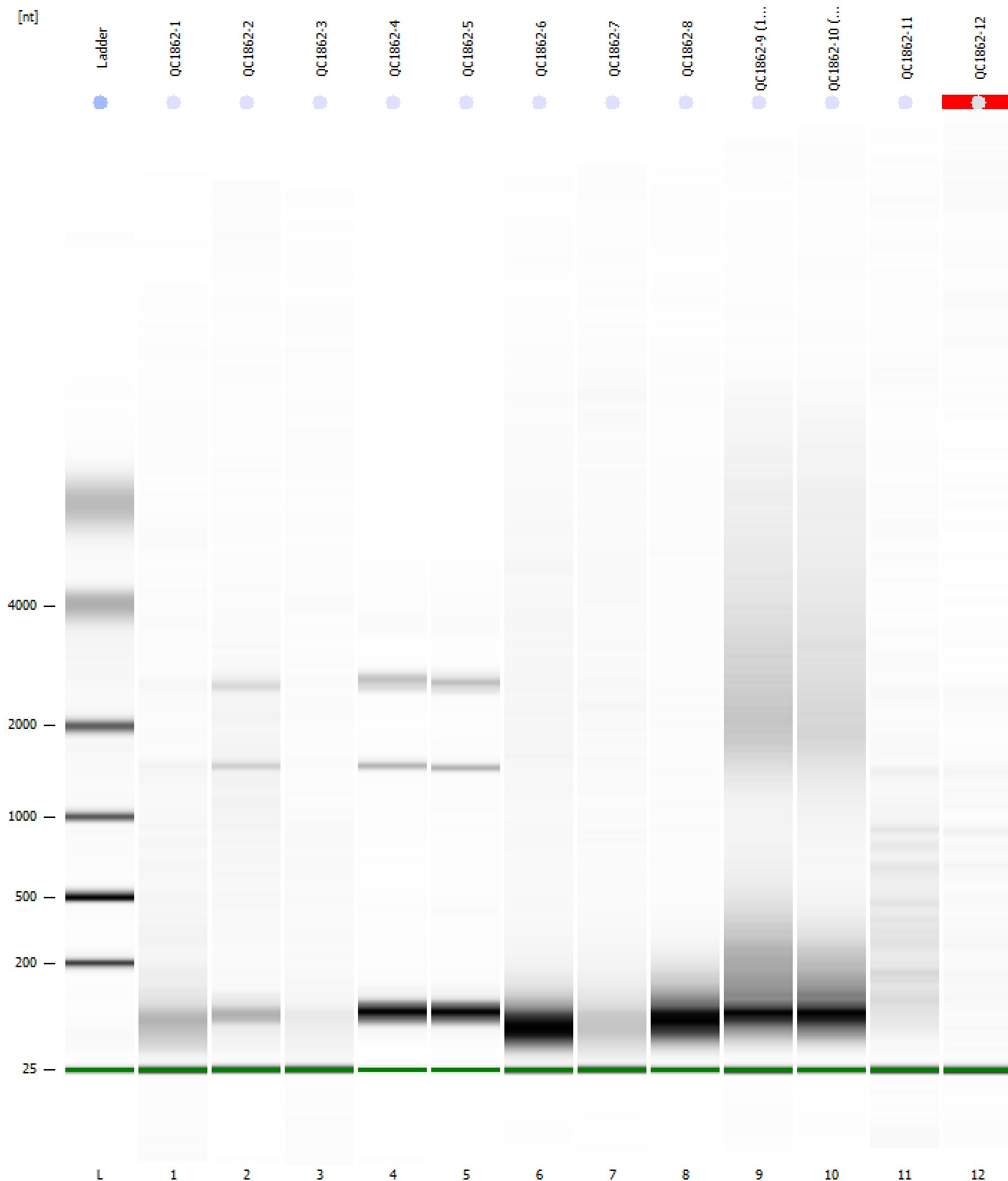
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	861	1,012	0.8	4.5



Assay Class: Prokaryote Total RNA Nano  
Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
Modified: 5/29/2024 9:53:16 AM

Gel Image



Assay Class: Prokaryote Total RNA Nano  
 Data Path: C:\...er1\_Prokaryote Total RNA Nano\_DE34903152\_2024-05-28\_001.xad

Created: 5/28/2024 4:22:05 PM  
 Modified: 5/29/2024 9:53:16 AM

**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		5/28/2024 4:45:47 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\2024-05-28\Bioanalyzer1_Prokaryote Total RNA Nano_DE34903152_2024-05-28_001.xad)		Instrument	Run		5/28/2024 4:22:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		5/28/2024 4:22:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		5/28/2024 4:22:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		5/28/2024 4:22:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		5/28/2024 4:22:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		5/28/2024 4:22:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		5/28/2024 4:22:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB