

Assay Class: Plant RNA Pico  
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-01\QC1567.xad

Created: 8/1/2023 2:25:12 PM  
Modified: 8/1/2023 2:55:00 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\Plant RNA Pico.xsy

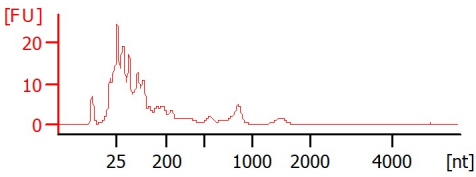
Assay Class: Plant RNA Pico  
Version: 1.3  
Assay Comments: Total RNA Analysis pg sensitivity (Plant)

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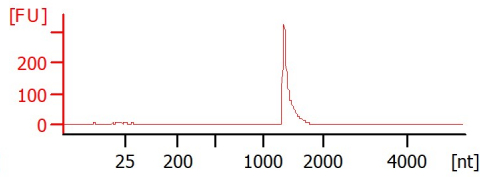
Chip Information:

Chip Lot #:  
Reagent Kit Lot #:  
Chip Comments:

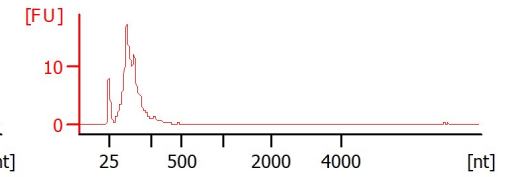
**QC1567-1 1:6**  
F\_422  
RIN: 2.70



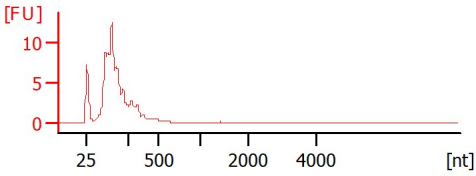
**QC1567-2 1:6**  
R\_422  
RIN: 10



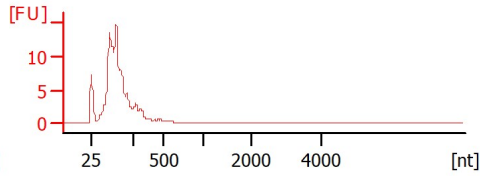
**QC1567-3 1:6**  
R\_522  
RIN: 2.50



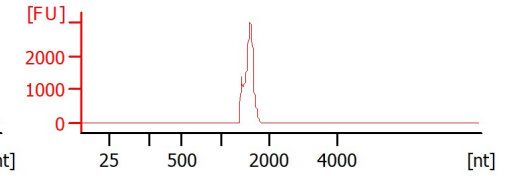
**QC1567-4 1:6**  
F\_522  
RIN: 2.40



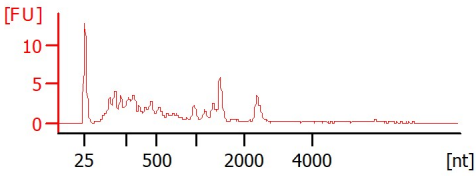
**QC1567-5 1:6**  
F\_606  
RIN: 2.50



**QC1567-6 1:6**  
R\_606  
RIN: 7.70



**QC1567-7 1:6**  
F\_515  
RIN: 6.30



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

Sample Name	Sample Comment	Status	Result Label	Result Color
QC1567-1 1:6	F_422	✓	RIN: 2.70	
QC1567-2 1:6	R_422	✓	RIN:10	
QC1567-3 1:6	R_522	✓	RIN: 2.50	
QC1567-4 1:6	F_522	✓	RIN: 2.40	
QC1567-5 1:6	F_606	✓	RIN: 2.50	
QC1567-6 1:6	R_606	✓	RIN: 7.70	
QC1567-7 1:6	F_515	✓	RIN: 6.30	
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

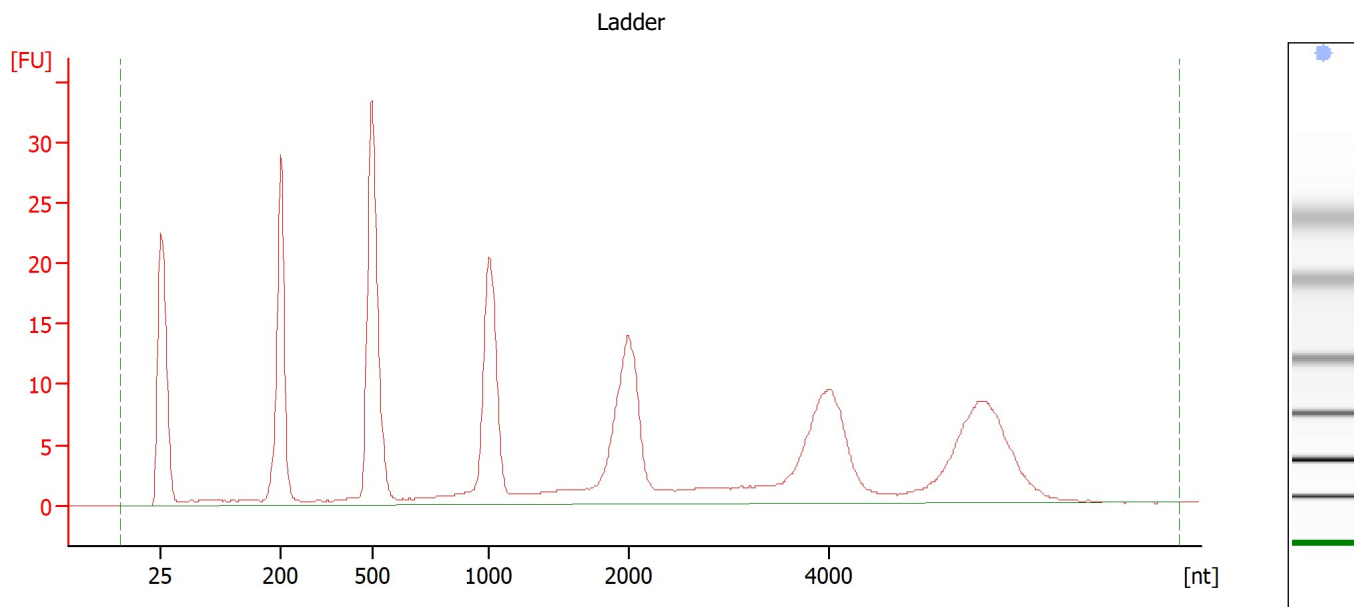
### Ladder

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

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**Electropherogram Summary**



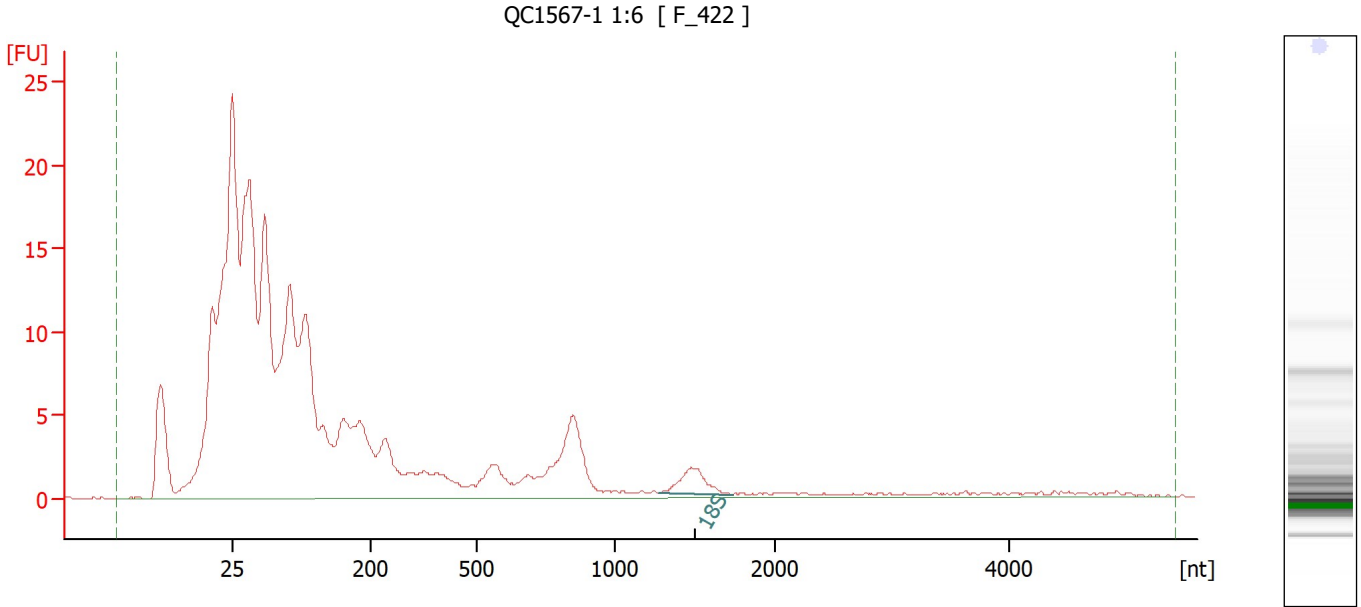
**Overall Results for Ladder**

RNA Area:	321.2	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 5 : QC1567-1 1:6**

RNA Area:	271.2	RNA Integrity Number (RIN):	2.7 (B.02.10)
RNA Concentration:	844 µg/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]:	0.0	Result Flagging Label:	RIN: 2.70

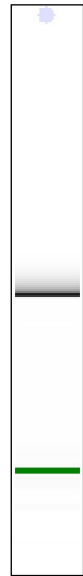
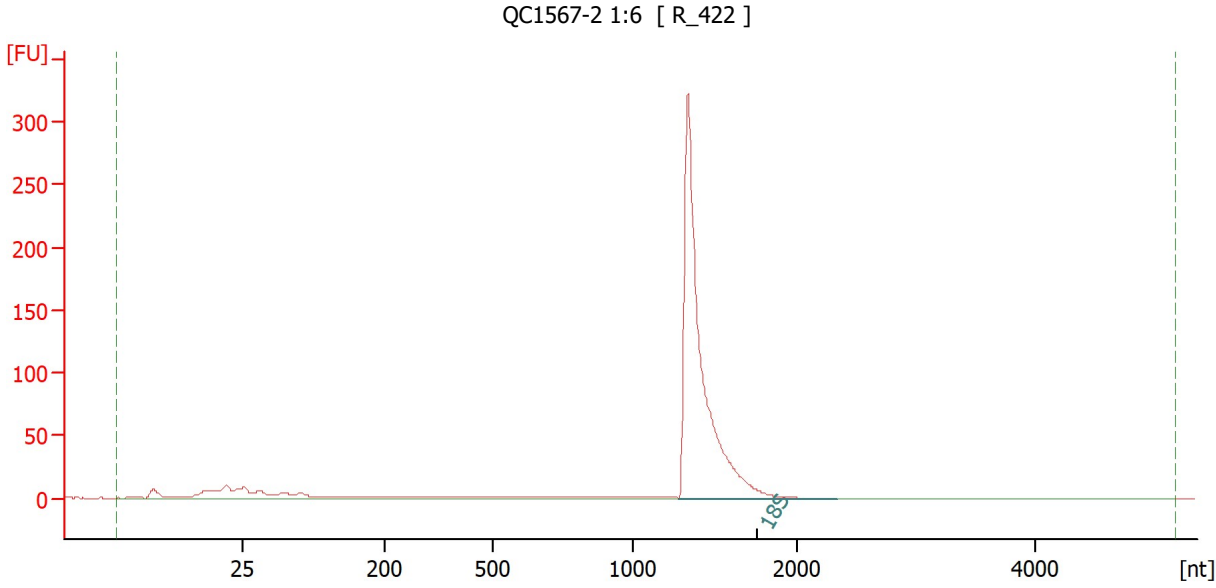
**Fragment table for sample 5 : QC1567-1 1:6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,276	1,732	4.7	1.7

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : QC1567-2 1:6**

RNA Area:	741.5	RNA Integrity Number (RIN):	10 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,309 pg/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]:	0.0	Result Flagging Label:	RIN:10

**Fragment table for sample 6 : QC1567-2 1:6**

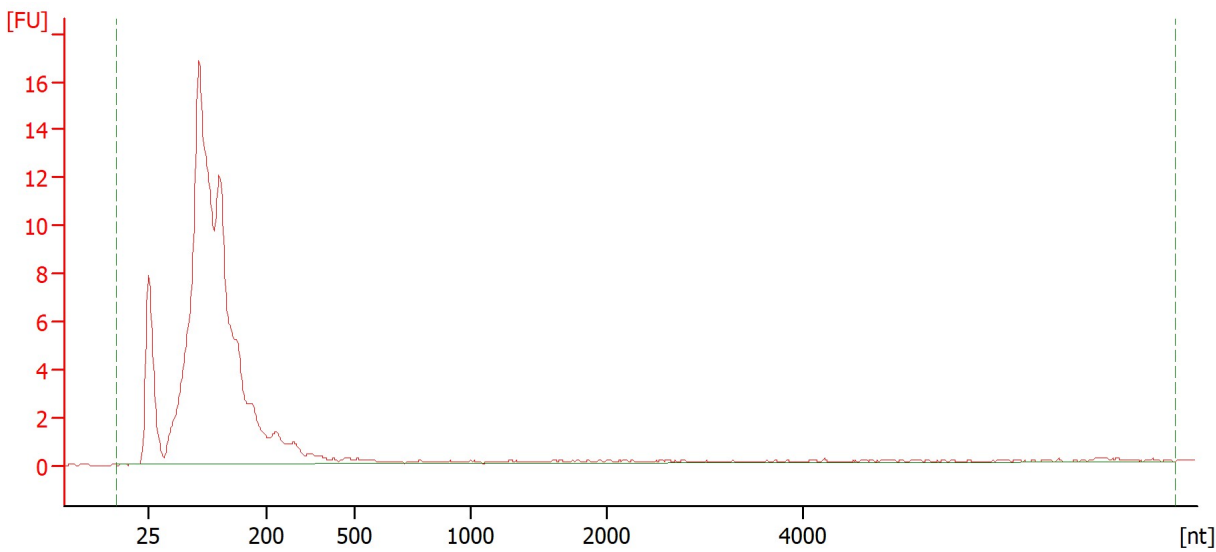
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,282	2,327	619.9	83.6

Assay Class: Plant RNA Pico  
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-01\QC1567.xad

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**Electropherogram Summary Continued ...**

QC1567-3 1:6 [ R\_522 ]



**Overall Results for sample 7 : QC1567-3 1:6**

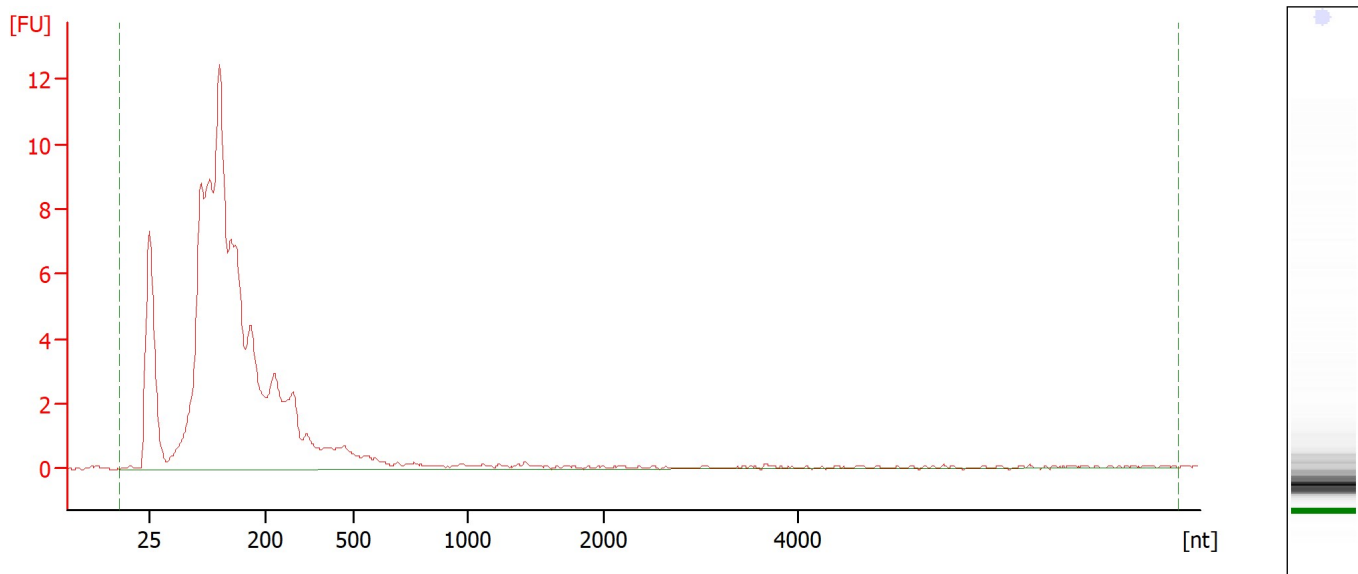
RNA Area:	136.6	RNA Integrity Number (RIN):	2.5 (B.02.10)
RNA Concentration:	425 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Plant RNA Pico  
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-01\QC1567.xad

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**Electropherogram Summary Continued ...**

QC1567-4 1:6 [ F\_522 ]



**Overall Results for sample 8 : QC1567-4 1:6**

RNA Area:	119.0	RNA Integrity Number (RIN):	2.4 (B.02.10)
RNA Concentration:	370 pg/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]:	0.0	Result Flagging Label:	RIN: 2.40

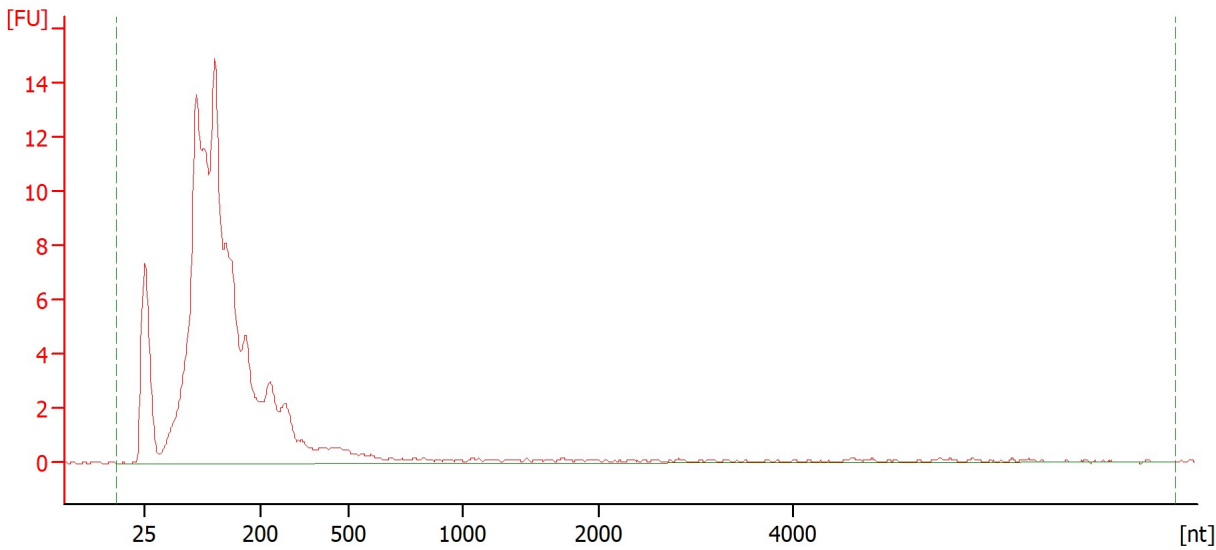


Assay Class: Plant RNA Pico  
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-01\QC1567.xad

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**Electropherogram Summary Continued ...**

QC1567-5 1:6 [ F\_606 ]



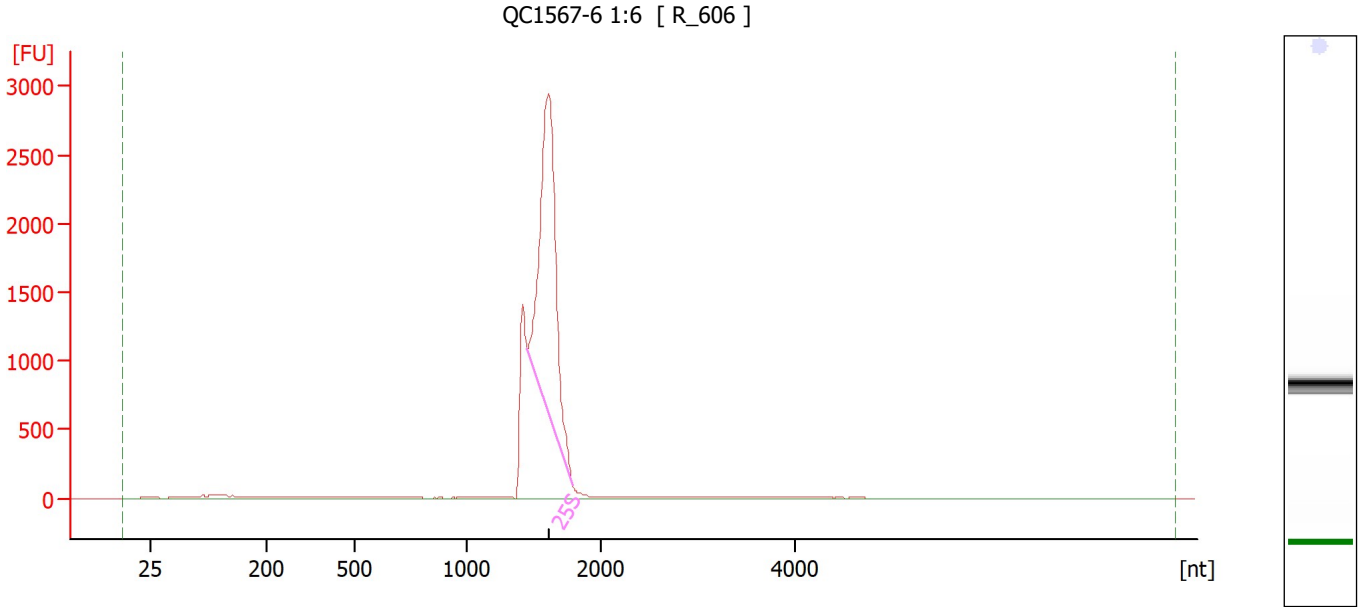
**Overall Results for sample 9 : QC1567-5 1:6**

RNA Area:	146.5	RNA Integrity Number (RIN):	2.5 (B.02.10)
RNA Concentration:	456 µg/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]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Plant RNA Pico  
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-01\QC1567.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : QC1567-6 1:6**

RNA Area:	9,911.6	RNA Integrity Number (RIN):	7.7 (B.02.10)
RNA Concentration:	30,858 pg/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]:	0.0	Result Flagging Label:	RIN: 7.70

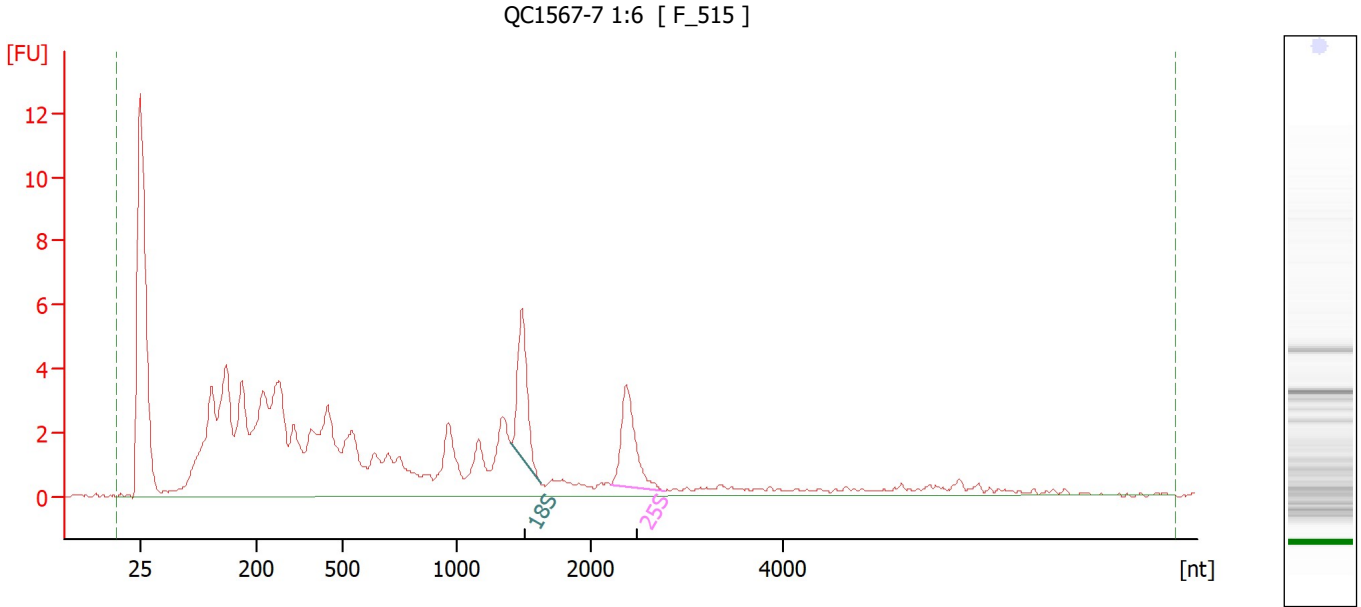
**Fragment table for sample 10 : QC1567-6 1:6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,448	1,780	4,968.4	50.1

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : QC1567-7 1:6**

RNA Area:	118.9	RNA Integrity Number (RIN):	6.3 (B.02.10)
RNA Concentration:	370 pg/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: 6.30

**Fragment table for sample 11 : QC1567-7 1:6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,411	1,627	6.1	5.2
25S	2,214	2,770	5.7	4.8

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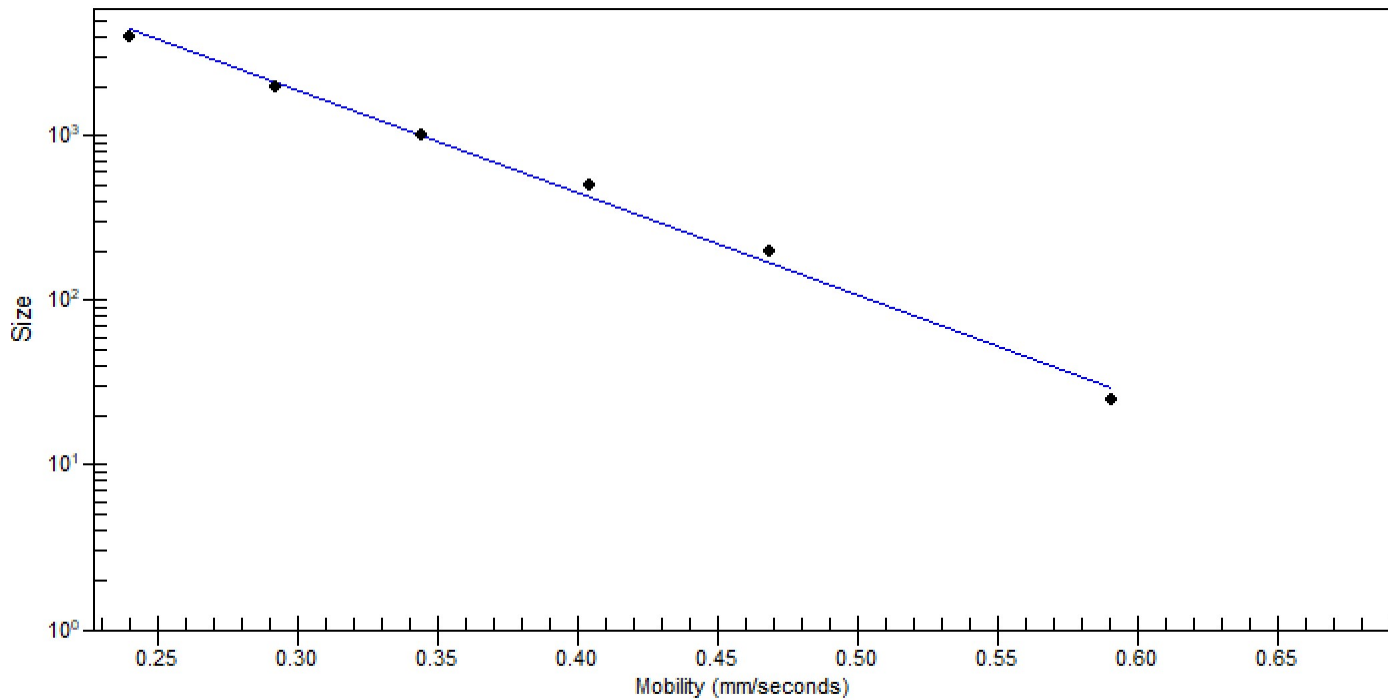
**Gel Image**

Assay Class: Plant RNA Pico  
Data Path: C:\...ent\2100 bioanalyzer\2100 expert\data\2023-08-01\QC1567.xad

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**Curves**

**Standard Curve**



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**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		8/1/2023 2:47:08 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\2023-08-01\Bioanalyzer1_Plant RNA Pico_DE34903152_2023-08-01_Product Number : G2938C		Instrument	Run		8/1/2023 2:25:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/1/2023 2:25:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/1/2023 2:25:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/1/2023 2:25:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/1/2023 2:25:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/1/2023 2:25:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB