

Assay Class: Plant RNA Nano
Data Path: C:\...bioanalyzer\2100 expert\data\2025-09-26\QC2313_adjusted.xad

Created: 9/26/2025 3:56:07 PM
Modified: 10/27/2025 3:22:09 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 Nano.xsy

Assay Class: Plant RNA Nano

Version: 1.3

Assay Comments: Total RNA Analysis ng sensitivity (Plant)

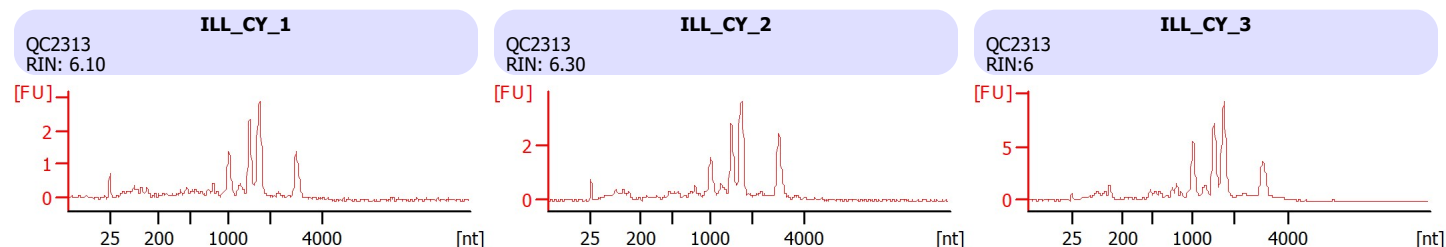
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
ILL_CY_1	QC2313	✓	RIN: 6.10	
ILL_CY_2	QC2313	✓	RIN: 6.30	
ILL_CY_3	QC2313	✓	RIN:6	
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.) : 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 : 0.1

Height Threshold [FU] : 0.1

Area Threshold : 0.1

Width Threshold [s] : 0.2

Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5

Polynomial Order : 4

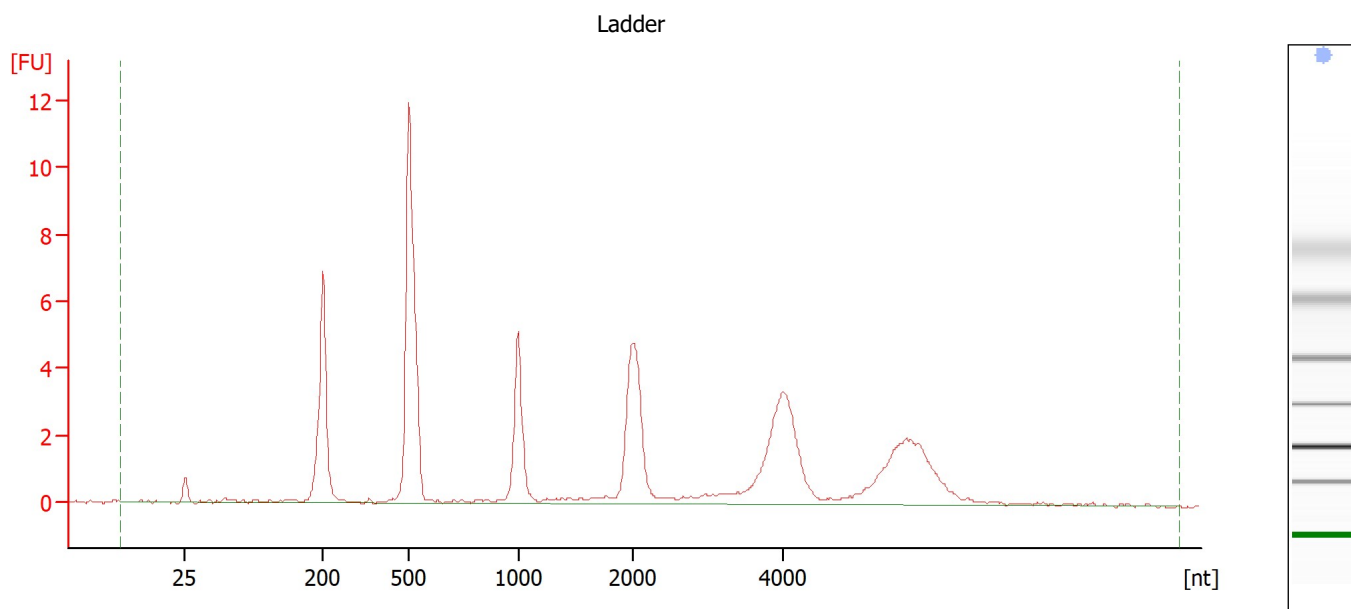
Ladder

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: 66.2

Result Flagging Color:



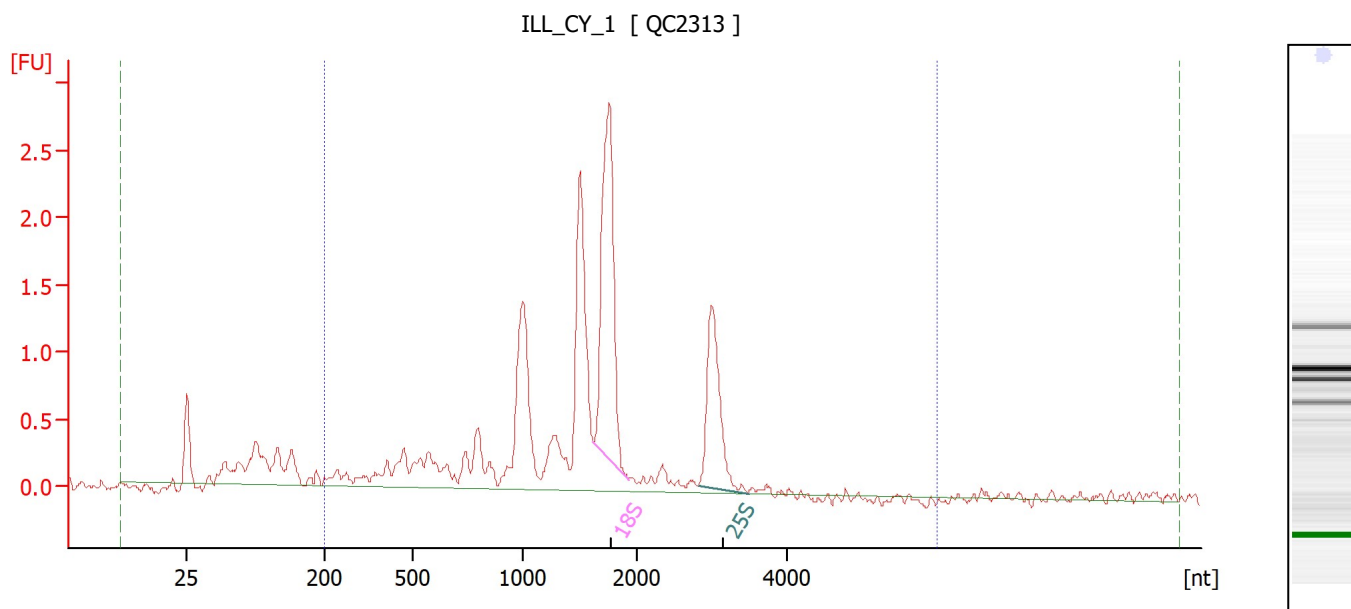
RNA Concentration: 150 ng/μl

Result Flagging Label:

All Other Samples

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Electropherogram Summary Continued ...**Overall Results for sample 1 : ILL CY 1**

RNA Area: 20.3
RNA Concentration: 46 ng/μl
rRNA Ratio [25s / 18s]: 0.5
RNA Integrity Number (RIN): 6.1 (B.02.10)

Result Flagging Color:
Result Flagging Label: RIN: 6.10
Corr. Area 1: 17.4

Fragment table for sample 1 : ILL CY 1

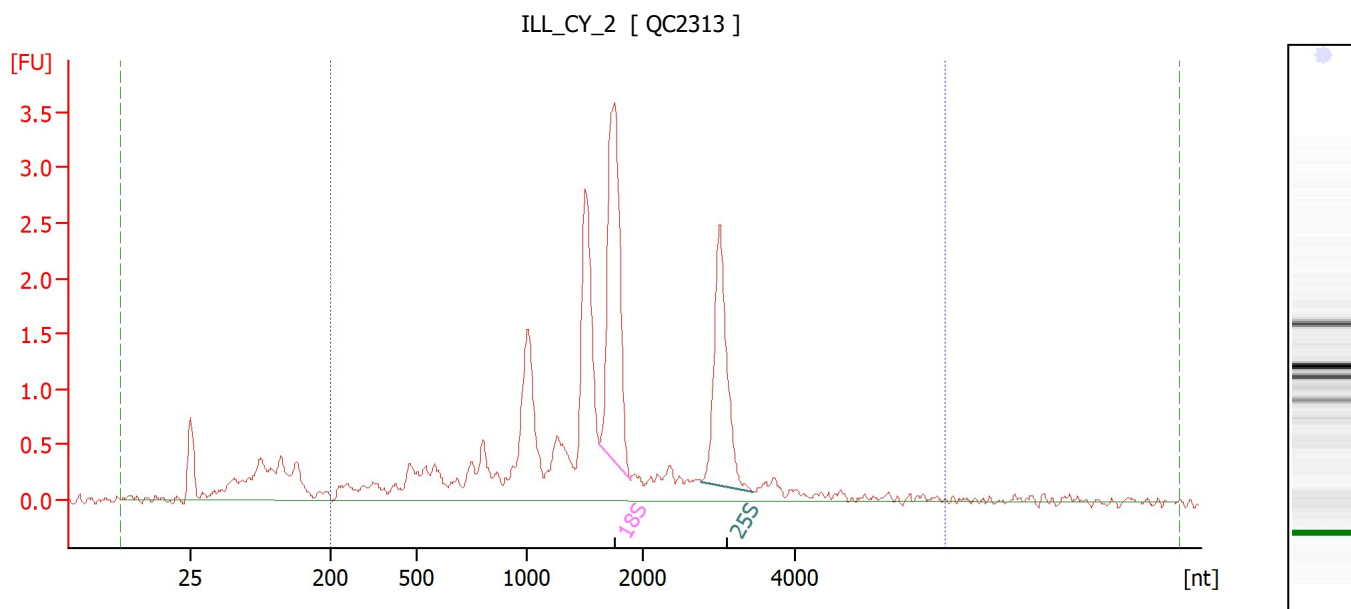
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	1,926	4.0	19.6
25S	2,812	3,481	2.0	9.8

Region table for sample 1 : ILL CY 1

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	200	6,000	17.4	86	

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Electropherogram Summary Continued ...**Overall Results for sample 2 : ILL CY 2**

RNA Area: 29.8
RNA Concentration: 68 ng/μl
rRNA Ratio [25s / 18s]: 0.7
RNA Integrity Number (RIN): 6.3 (B.02.10)

Result Flagging Color:
Result Flagging Label: RIN: 6.30
Corr. Area 1: 25.7

Fragment table for sample 2 : ILL CY 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,892	5.1	16.9
25S	2,767	3,460	3.4	11.5

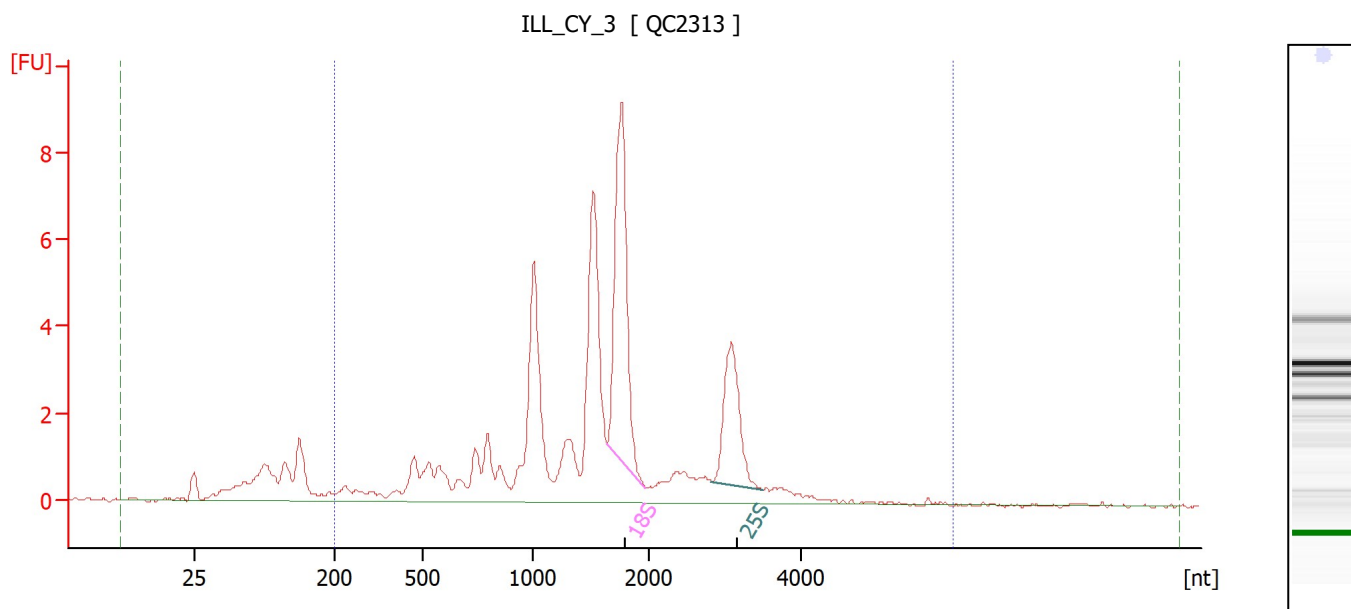
Region table for sample 2 : ILL CY 2

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	200	6,000	25.7	86	

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Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : ILL CY 3

Width Threshold [s] : 0.1

Overall Results for sample 3 : ILL CY 3

RNA Area: 74.9
 RNA Concentration: 170 ng/μl
 rRNA Ratio [25s / 18s]: 0.5
 RNA Integrity Number (RIN): 6 (B.02.10)

Result Flagging Color:
 Result Flagging Label: RIN:6
 Corr. Area 1: 64.6

Fragment table for sample 3 : ILL CY 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,637	1,968	12.1	16.1
25S	2,821	3,481	5.7	7.6

Region table for sample 3 : ILL CY 3

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	200	6,000	64.6	86	

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Gel Image

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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: 13)		Instrument	Run		9/26/2025 4:19:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2025-09-26\Bioanalyzer1_Plant RNA Nano_DE34903152_2025-09-26 Product Number : G2938C		Instrument	Run		9/26/2025 3:56:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Name :		Instrument	Run		9/26/2025 3:56:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Vendor : Agilent Technologies		Instrument	Run		9/26/2025 3:56:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Serial# : DE34903152		Instrument	Run		9/26/2025 3:56:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Firmware : C.01.069		Instrument	Run		9/26/2025 3:56:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB
Cartridge : Electrode		Instrument	Run		9/26/2025 3:56:13 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNVVOB