

Assay Class: Plant RNA Pico
Data Path: C:\...00 bioanalyzer\2100 expert\data\2025-09-26\QC2313_12-16.xad

Created: 9/26/2025 2:19:59 PM
Modified: 10/27/2025 3:20:46 PM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

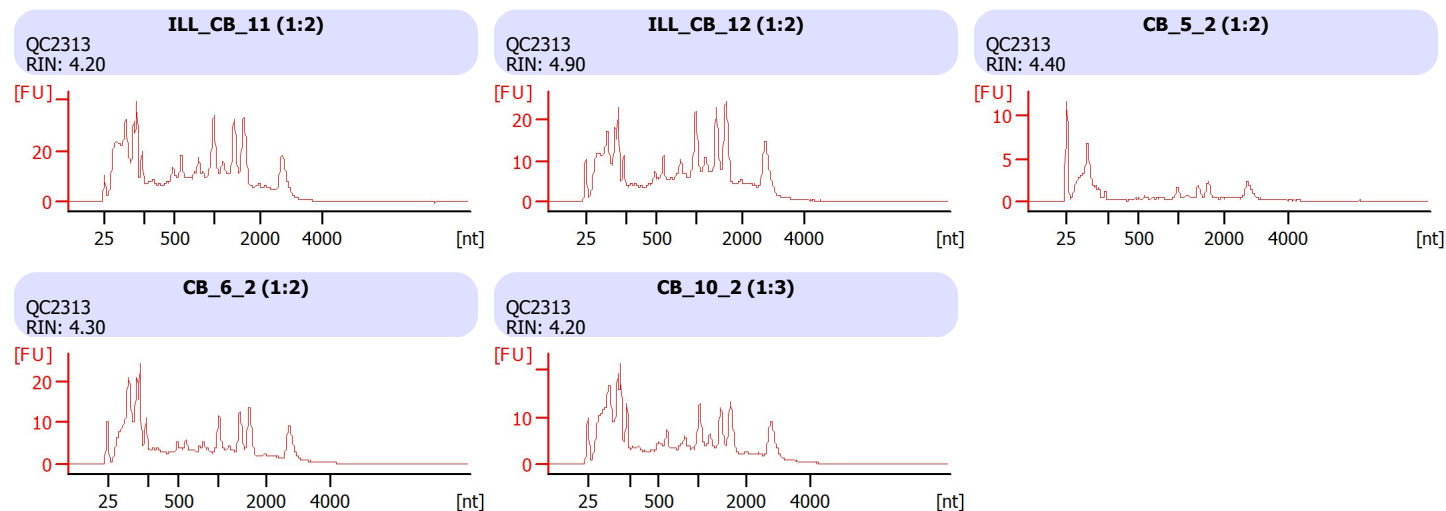
Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Pico.xsy

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
ILL_CB_11 (1:2)	QC2313	✓	RIN: 4.20	
ILL_CB_12 (1:2)	QC2313	✓	RIN: 4.90	
CB_5_2 (1:2)	QC2313	✓	RIN: 4.40	
CB_6_2 (1:2)	QC2313	✓	RIN: 4.30	
CB_10_2 (1:3)	QC2313	✓	RIN: 4.20	
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/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ μ 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

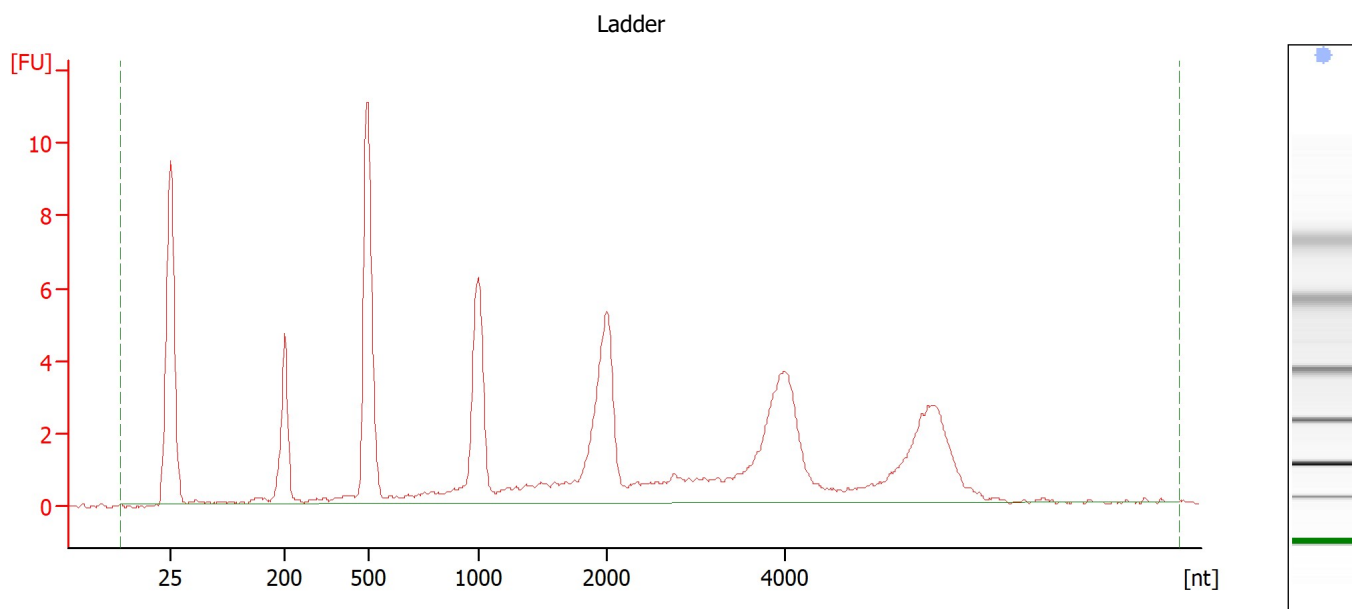
Ladder

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: 90.0

RNA Concentration: 1,000 pg/μl

Result Flagging Color:

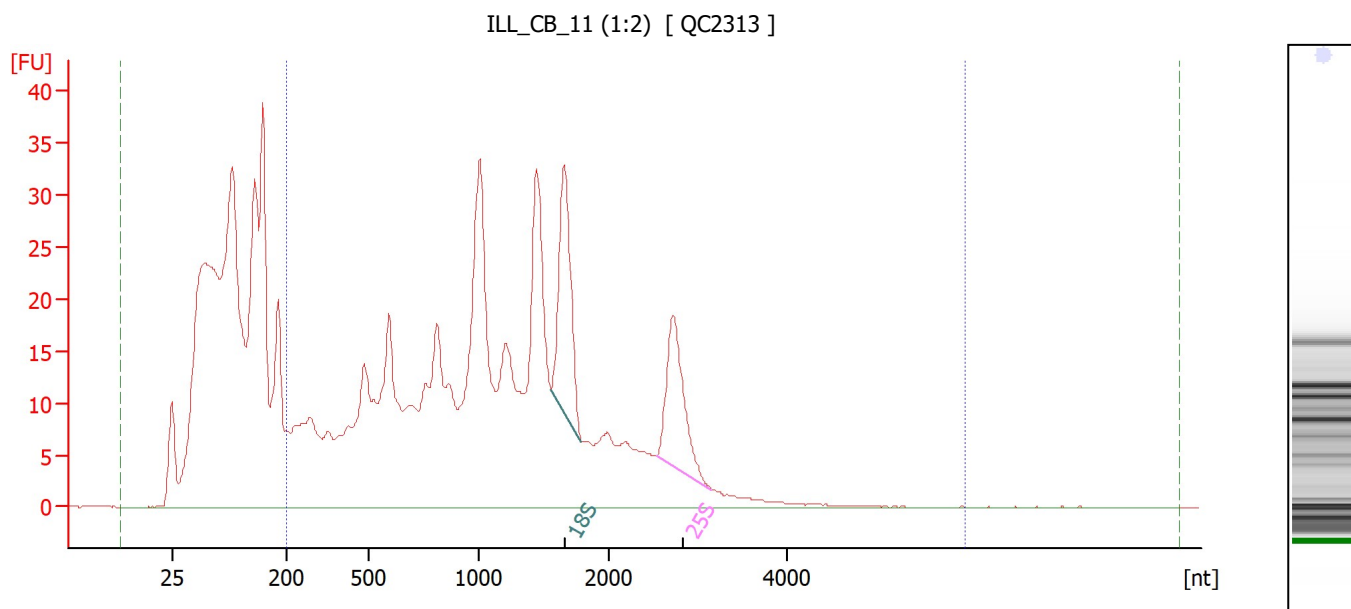


Result Flagging Label:

All Other Samples

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Electropherogram Summary Continued ...**Overall Results for sample 1 : ILL_CB_11 (1:2)**

RNA Area:	1,028.0	Result Flagging Color:	
RNA Concentration:	11,422 pg/μl	Result Flagging Label:	RIN: 4.20
rRNA Ratio [25s / 18s]:	0.8	Corr. Area 1:	629.2
RNA Integrity Number (RIN):	4.2 (B.02.10)		

Fragment table for sample 1 : ILL_CB_11 (1:2)

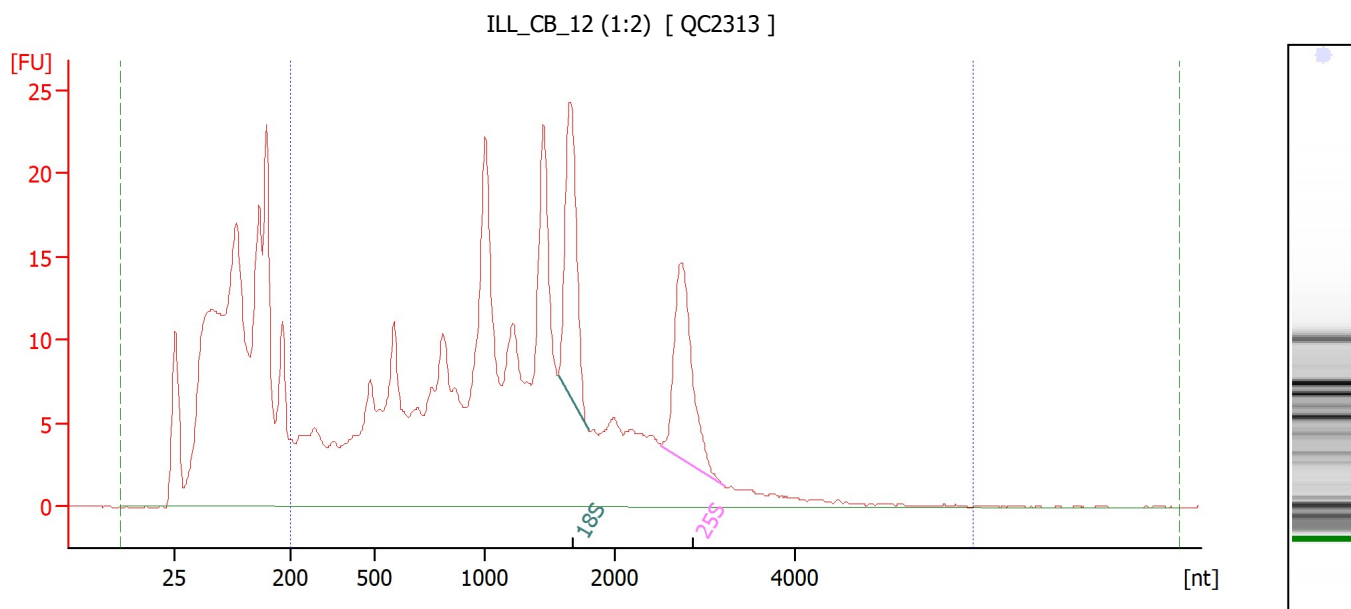
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,555	1,786	37.7	3.7
25S	2,529	3,154	30.0	2.9

Region table for sample 1 : ILL_CB_11 (1:2)

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	200	6,000	629.2	61	

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Electropherogram Summary Continued ...**Overall Results for sample 2 : ILL CB 12 (1:2)**

RNA Area:	623.5	Result Flagging Color:	
RNA Concentration:	6,928 pg/μl	Result Flagging Label:	RIN: 4.90
rRNA Ratio [25s / 18s]:	0.9	Corr. Area 1:	411.4
RNA Integrity Number (RIN):	4.9 (B.02.10)		

Fragment table for sample 2 : ILL CB 12 (1:2)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,559	1,789	27.1	4.4
25S	2,516	3,220	25.1	4.0

Region table for sample 2 : ILL CB 12 (1:2)

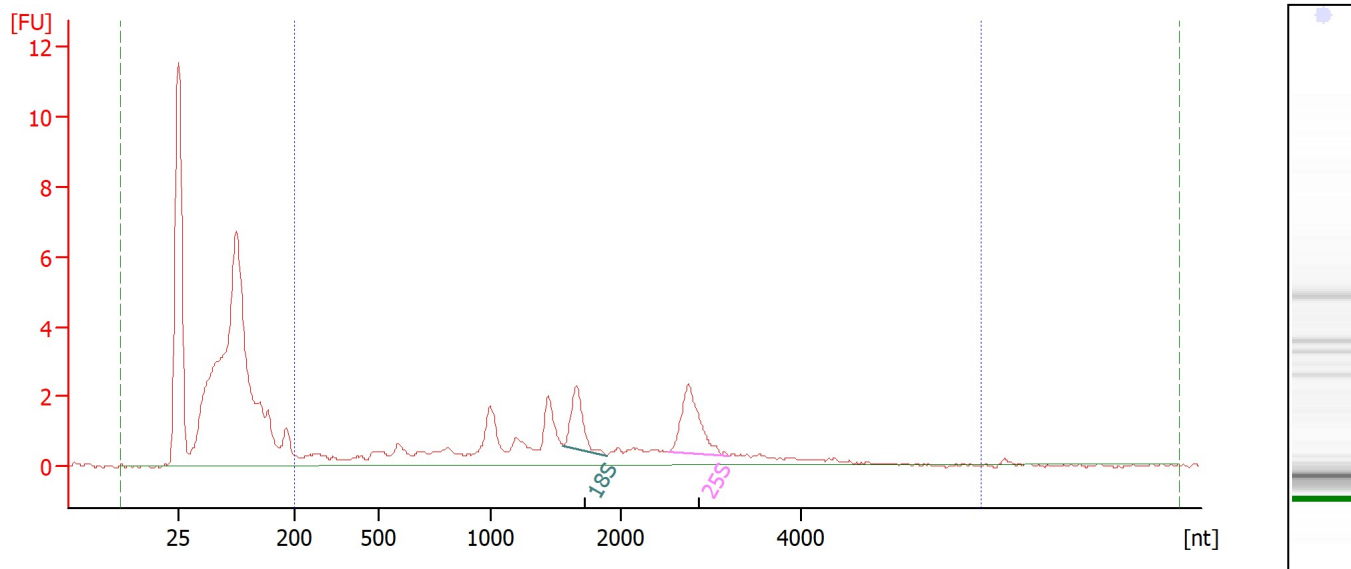
Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	200	6,000	411.4	66	

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Electropherogram Summary Continued ...

CB_5_2 (1:2) [QC2313]



Overall Results for sample 3 : CB 5 2 (1:2)

RNA Area:	78.3	Result Flagging Color:	
RNA Concentration:	870 pg/μl	Result Flagging Label:	RIN: 4.40
rRNA Ratio [25s / 18s]:	1.5	Corr. Area 1:	33.4
RNA Integrity Number (RIN):	4.4 (B.02.10, Anomaly Threshold(s) manually adapted)		

Fragment table for sample 3 : CB 5 2 (1:2)

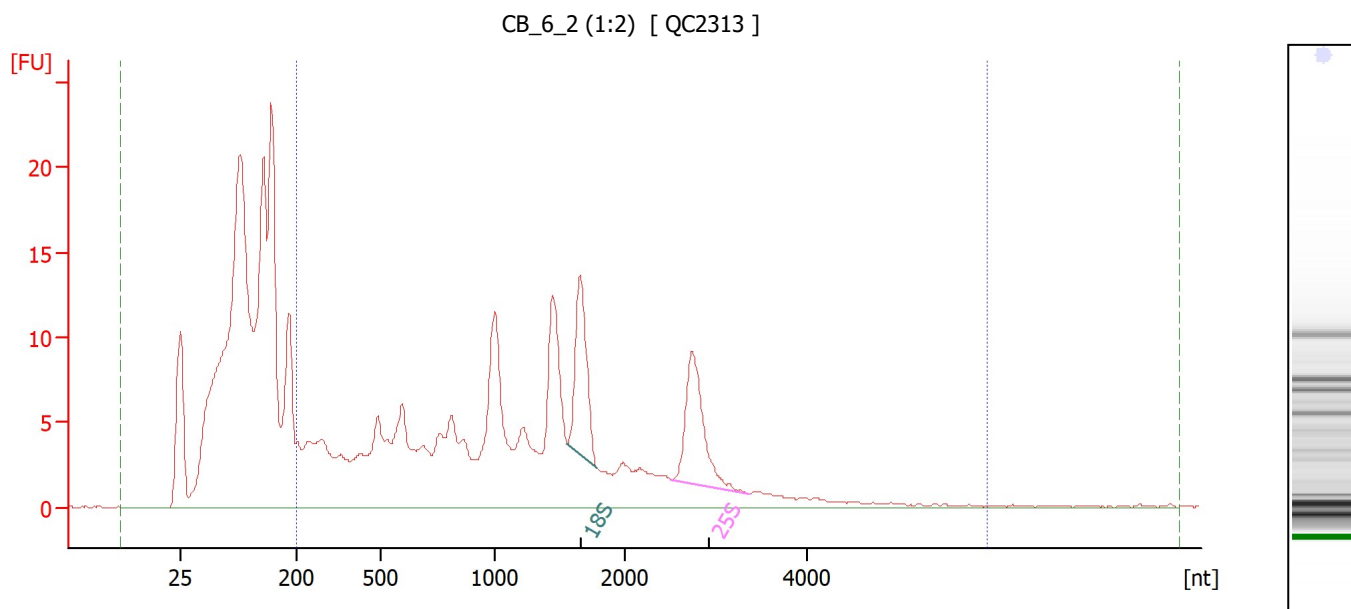
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,556	1,881	2.8	3.6
25S	2,527	3,191	4.3	5.5

Region table for sample 3 : CB 5 2 (1:2)

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	200	6,000	33.4	43	

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Electropherogram Summary Continued ...**Overall Results for sample 4 : CB_6_2 (1:2)**

RNA Area:	440.0	Result Flagging Color:	
RNA Concentration:	4,889 pg/μl	Result Flagging Label:	RIN: 4.30
rRNA Ratio [25s / 18s]:	1.0	Corr. Area 1:	235.4
RNA Integrity Number (RIN):	4.3 (B.02.10, Anomaly Threshold(s) manually adapted)		

Fragment table for sample 4 : CB_6_2 (1:2)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,559	1,786	15.9	3.6
25S	2,502	3,364	16.2	3.7

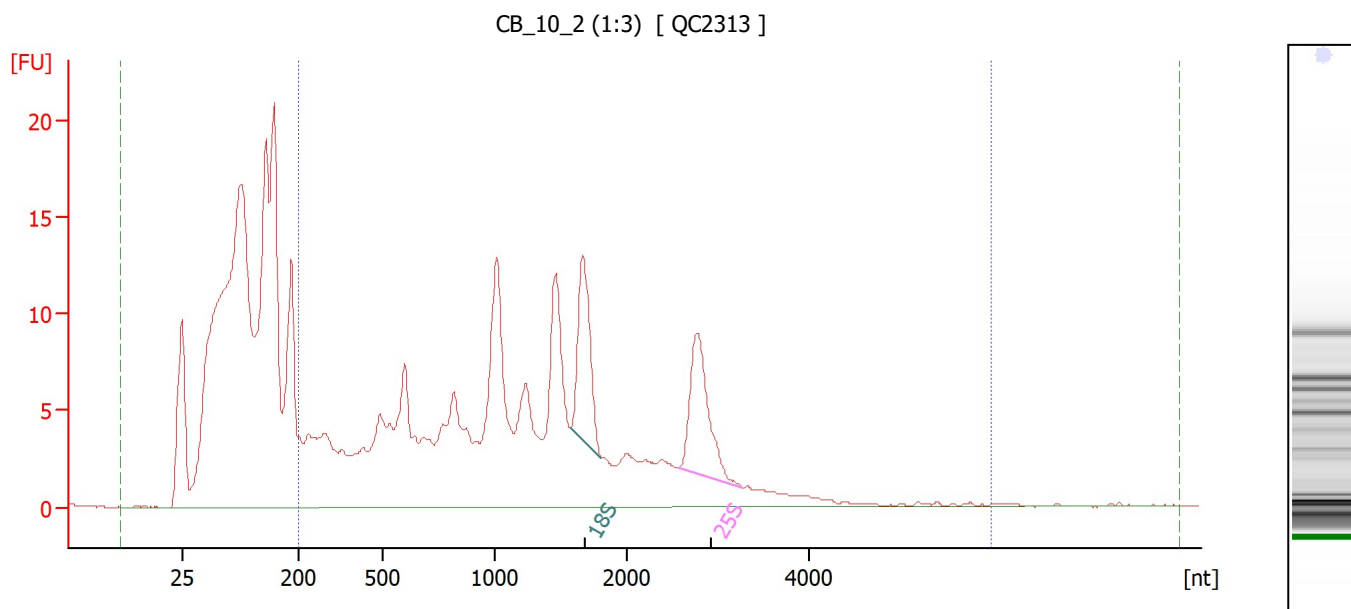
Region table for sample 4 : CB_6_2 (1:2)

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	200	6,000	235.4	53	

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Electropherogram Summary Continued ...



Overall Results for sample 5 : CB 10 2 (1:3)

RNA Area:	453.8	Result Flagging Color:	
RNA Concentration:	5,042 pg/μl	Result Flagging Label:	RIN: 4.20
rRNA Ratio [25s / 18s]:	1.0	Corr. Area 1:	247.6
RNA Integrity Number (RIN):	4.2 (B.02.10, Anomaly Threshold(s) manually adapted)		

Fragment table for sample 5 : CB 10 2 (1:3)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,569	1,803	15.1	3.3
25S	2,561	3,268	15.5	3.4

Region table for sample 5 : CB 10 2 (1:3)

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	200	6,000	247.6	54	

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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: 12)		Instrument	Run		9/26/2025 2:43:02 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\2025-09-26\Bioanalyzer1_Plant RNA Pico_DE34903152_2025-09-26_Product Number : G2938C		Instrument	Run		9/26/2025 2:20:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		9/26/2025 2:20:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		9/26/2025 2:20:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		9/26/2025 2:20:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		9/26/2025 2:20:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		9/26/2025 2:20:09 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB