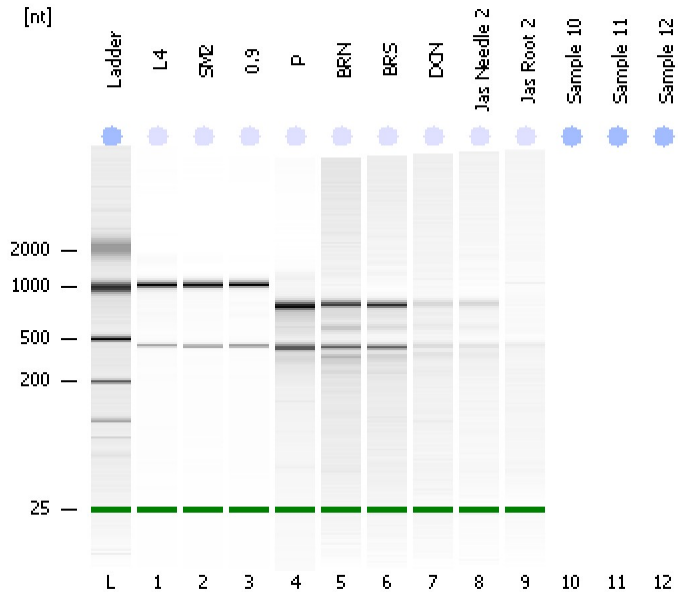


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
Modified: 9/17/2014 11:12:30 AM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\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)

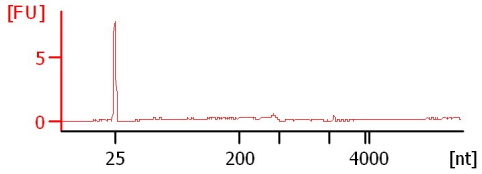
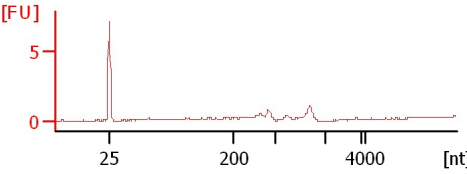
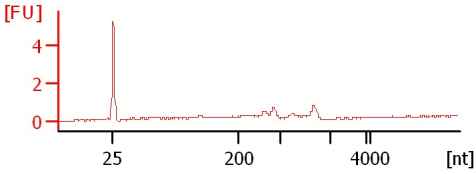
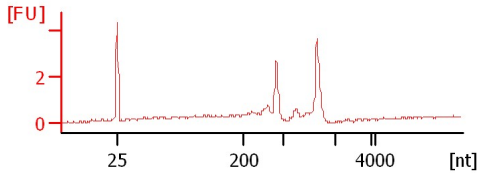
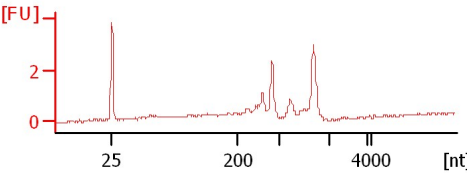
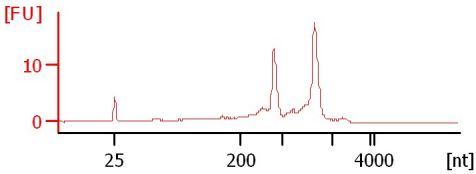
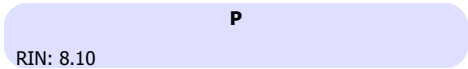
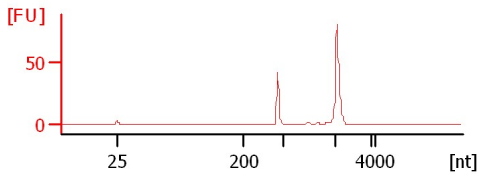
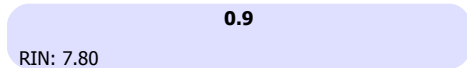
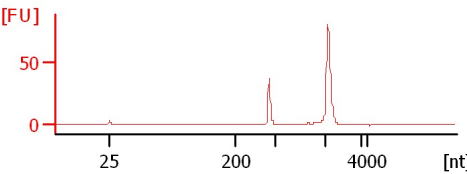
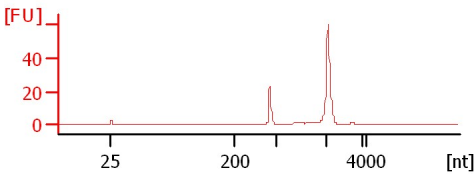
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
 Modified: 9/17/2014 11:12:30 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
L4		✓	RIN: 7.30	
SM2		✓	RIN: 7.70	
0.9		✓	RIN: 7.80	
P		✓	RIN: 8.10	
BRN		✓	RIN: 7.20	
BRS		✓	RIN: 7.30	
DCN		✓	RIN: 5.60	
Jas Needle 2		✓	RIN: 3.20	
Jas Root 2		✓	RIN:1	
Sample 10				
Sample 11				
Sample 12				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
Modified: 9/17/2014 11:12:30 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] : 0.2  
Area Threshold : 0.1  
Width Threshold [s] : 0.2  
Baseline Plateau [s] : 6

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

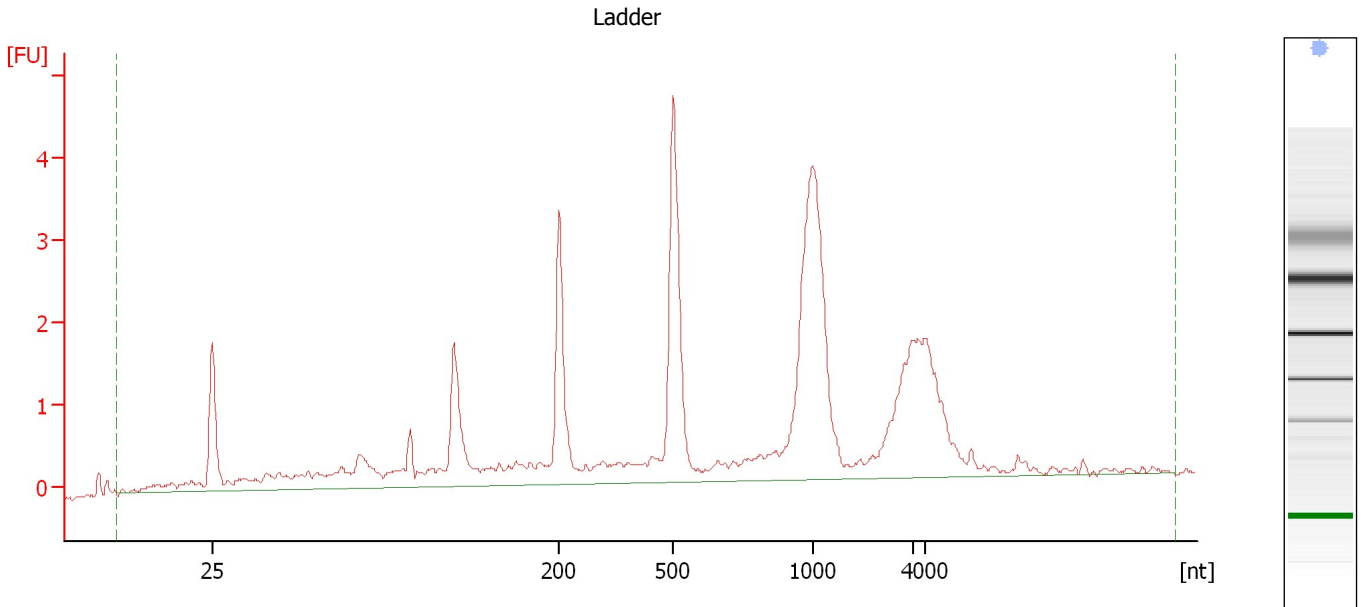
**Ladder**

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

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
Modified: 9/17/2014 11:12:30 AM

**Electropherogram Summary**



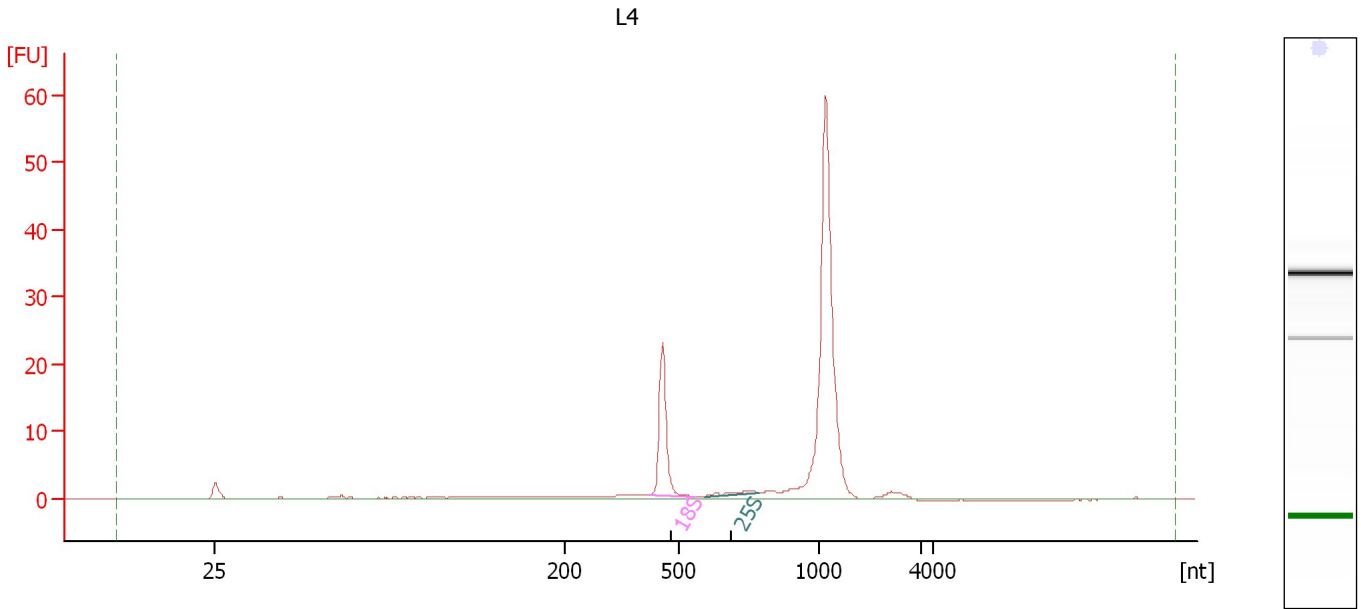
**Overall Results for Ladder**

RNA Area:	43.7	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: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
Modified: 9/17/2014 11:12:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : L4**

RNA Area: 116.6                      RNA Integrity Number (RIN): 7.3 (B.02.08)  
RNA Concentration: 400 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.1                      Result Flagging Label: RIN: 7.30

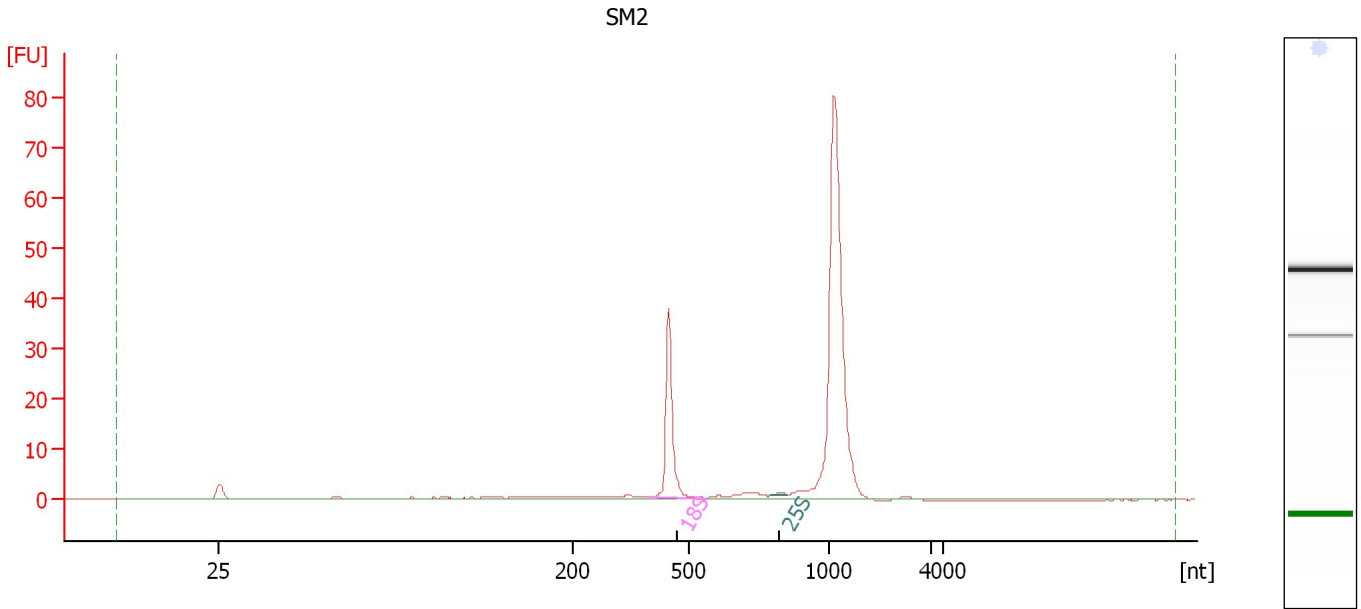
**Fragment table for sample 1 : L4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	420	554	18.5	15.9
25S	589	783	1.7	1.4

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
Modified: 9/17/2014 11:12:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : SM2**

RNA Area:	165.2	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	567 ng/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

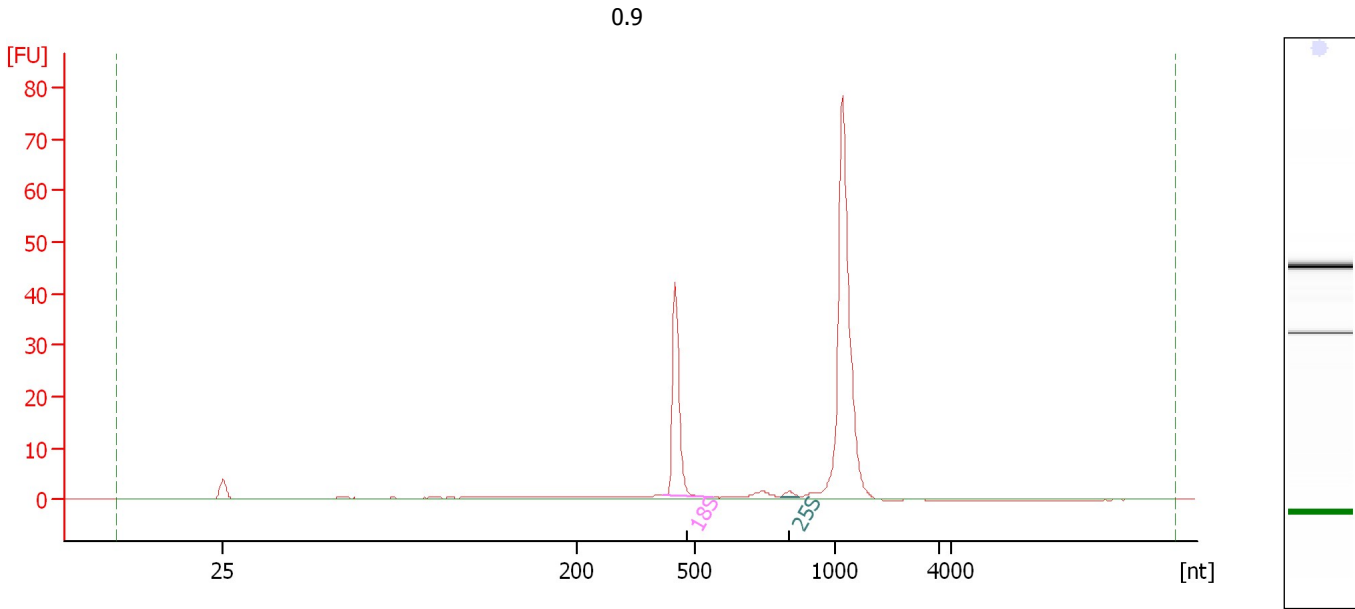
**Fragment table for sample 2 : SM2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	399	567	29.9	18.1
25S	794	851	0.3	0.2

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
 Modified: 9/17/2014 11:12:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 0.9**

RNA Area:	149.1	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	512 ng/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: 7.80

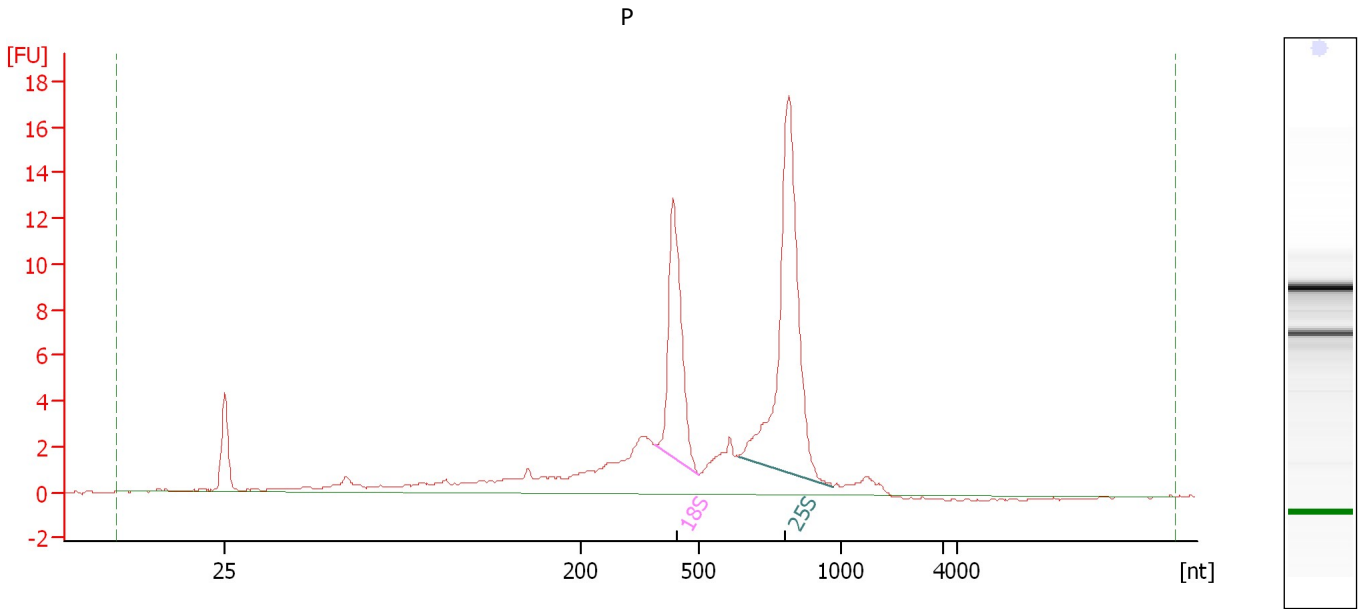
**Fragment table for sample 3 : 0.9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	420	563	31.6	21.2
25S	805	872	0.9	0.6

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
Modified: 9/17/2014 11:12:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : P**

RNA Area:	105.6	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	362 ng/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]:	1.9	Result Flagging Label:	RIN: 8.10

**Fragment table for sample 4 : P**

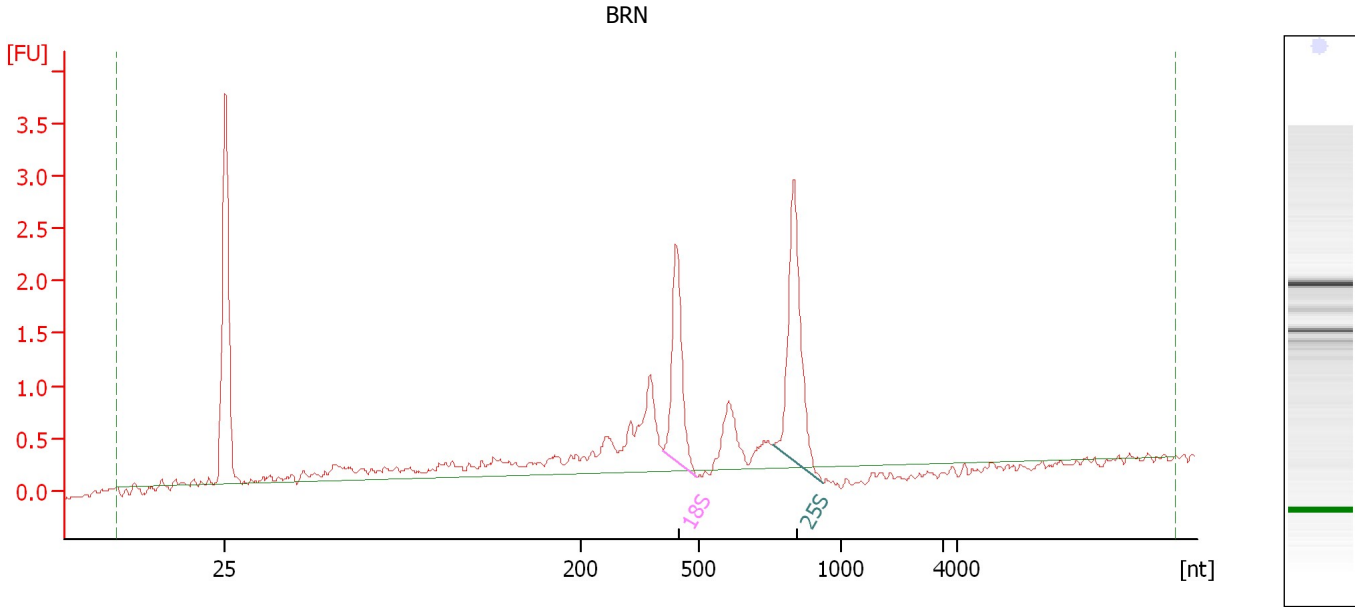
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	391	500	17.3	16.3
25S	643	973	32.3	30.5



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
Modified: 9/17/2014 11:12:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : BRN**

RNA Area: 15.6                      RNA Integrity Number (RIN): 7.2 (B.02.08)  
RNA Concentration: 53 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.5              Result Flagging Label: RIN: 7.20

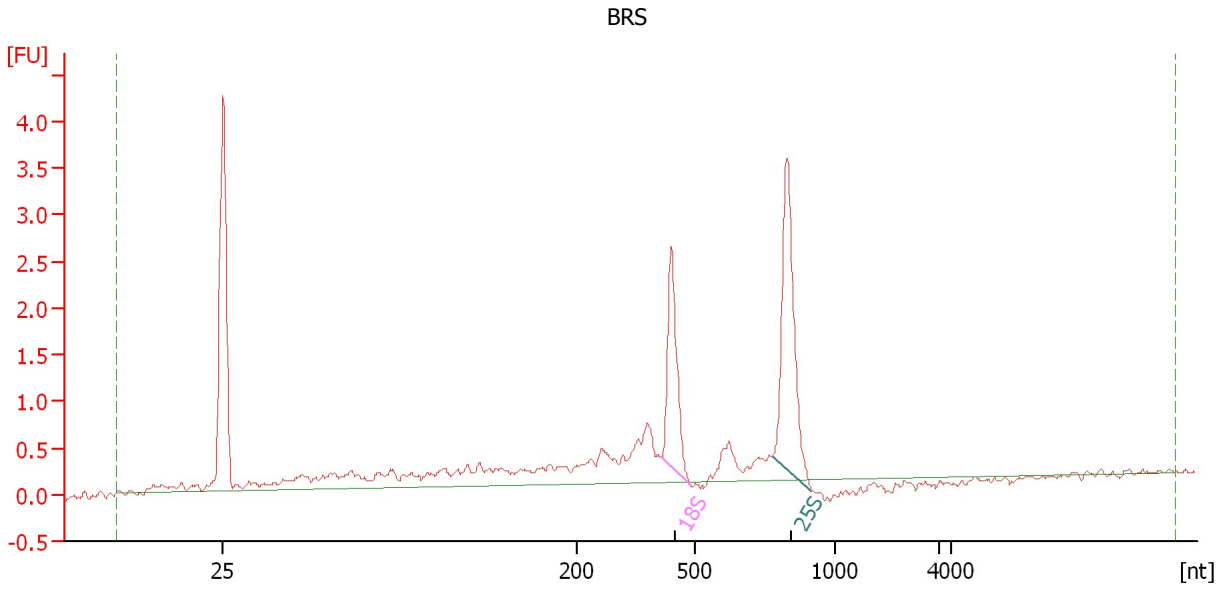
**Fragment table for sample 5 : BRN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	410	495	2.3	15.0
25S	763	935	3.5	22.7

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
Modified: 9/17/2014 11:12:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : BRS**

RNA Area:	18.6	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	64 ng/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]:	1.6	Result Flagging Label:	RIN: 7.30

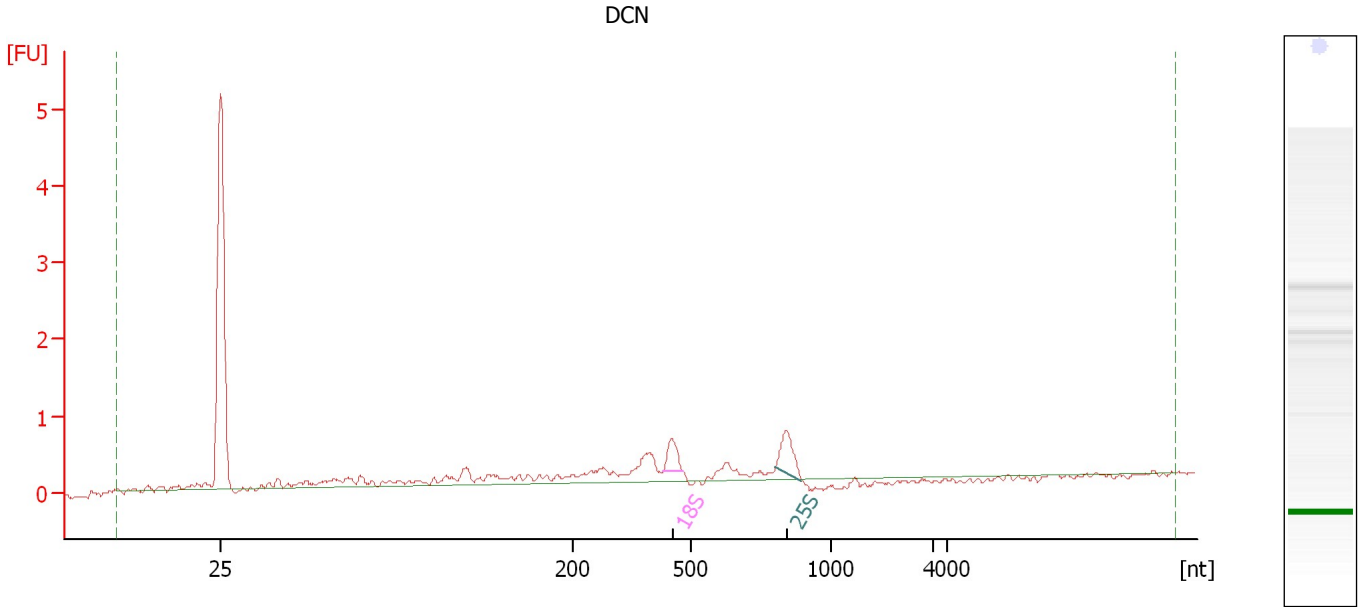
**Fragment table for sample 6 : BRS**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	414	491	2.6	14.0
25S	774	914	4.1	22.3

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
Modified: 9/17/2014 11:12:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : DCN**

RNA Area: 7.6                      RNA Integrity Number (RIN): 5.6 (B.02.08)  
RNA Concentration: 26 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.5              Result Flagging Label: RIN: 5.60

**Fragment table for sample 7 : DCN**

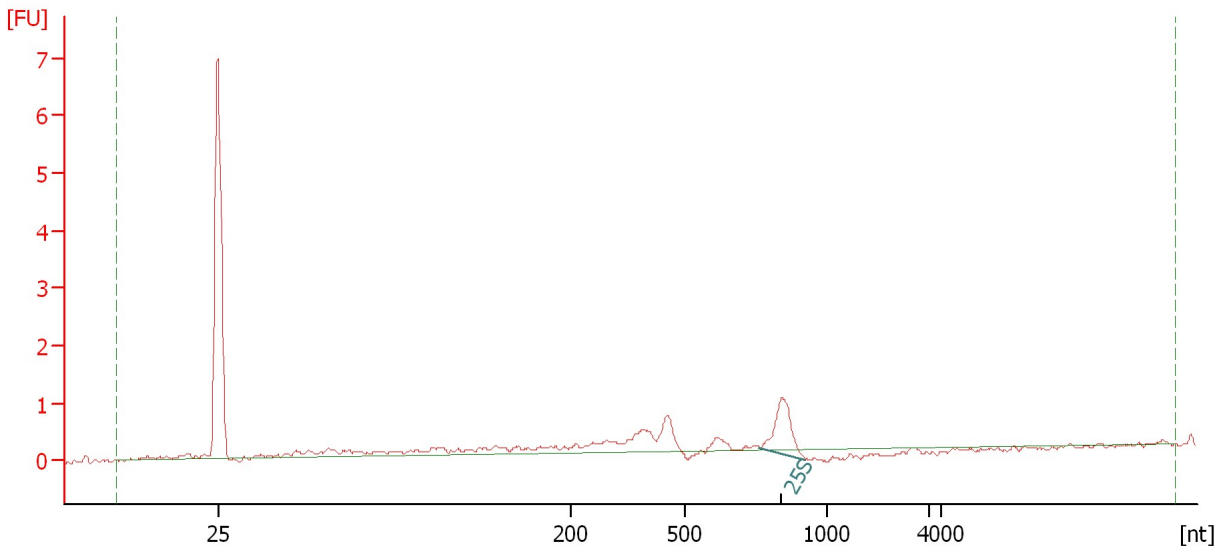
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	430	482	0.5	6.2
25S	801	896	0.7	9.3

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
Modified: 9/17/2014 11:12:30 AM

**Electropherogram Summary Continued ...**

Jas Needle 2



**Overall Results for sample 8 : Jas Needle 2**

RNA Area:	8.5	RNA Integrity Number (RIN):	3.2 (B.02.08)
RNA Concentration:	29 ng/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: 3.20

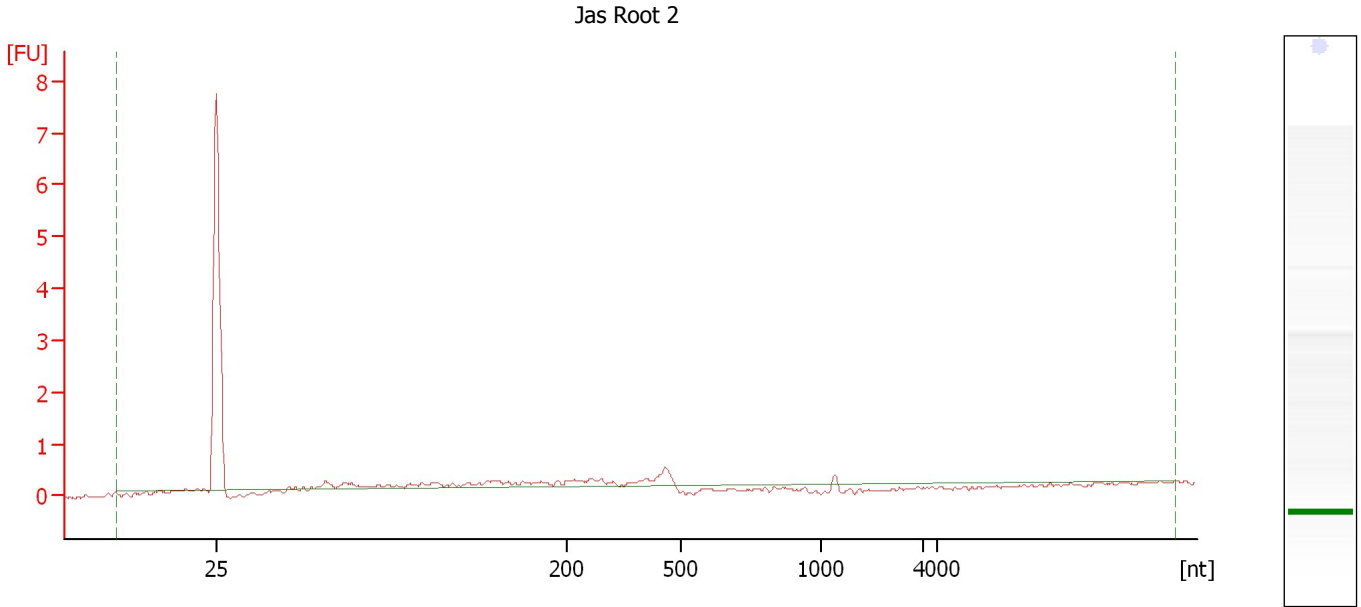
**Fragment table for sample 8 : Jas Needle 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	760	923	1.7	19.8

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
Modified: 9/17/2014 11:12:30 AM

**Electropherogram Summary Continued ...**



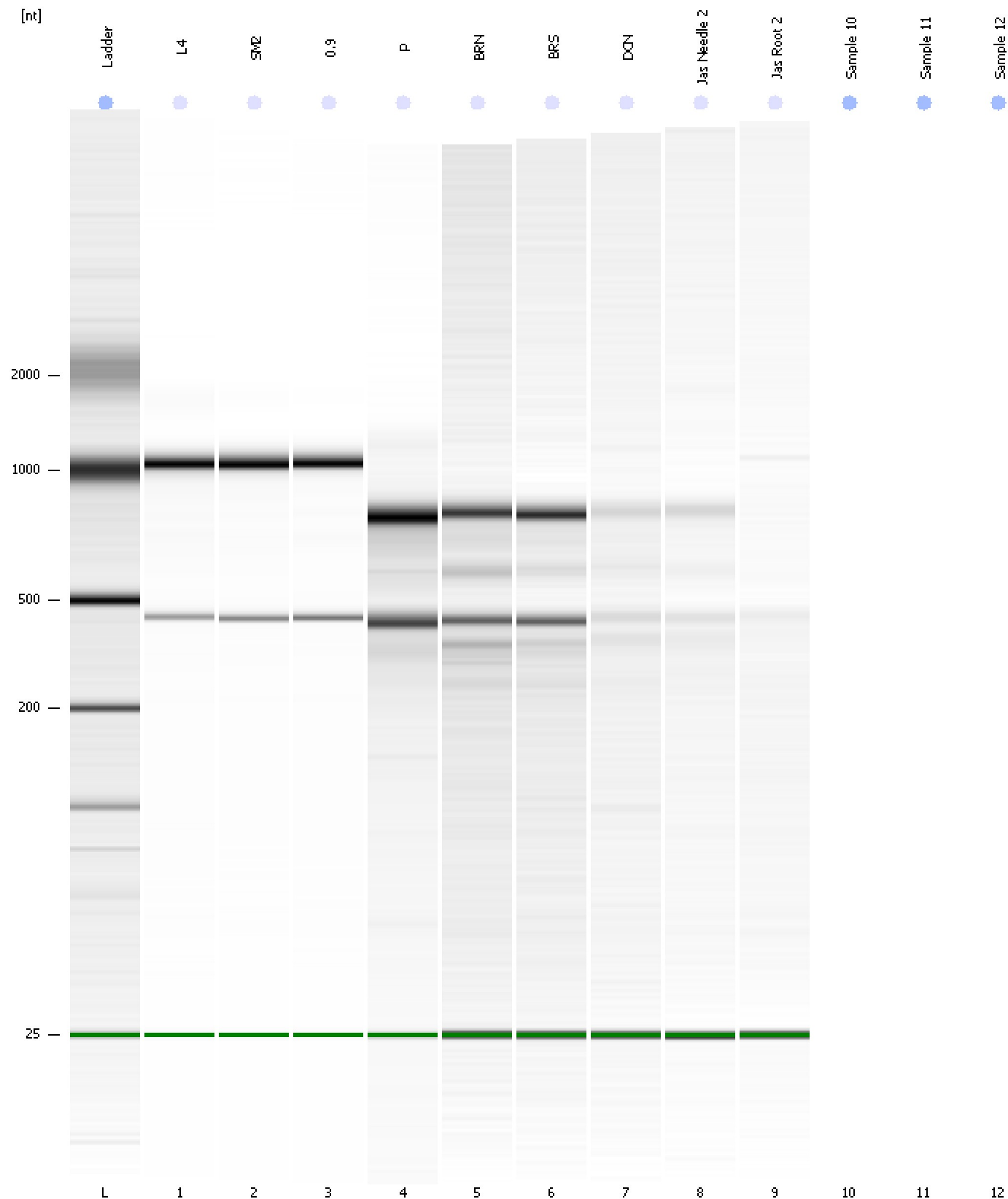
**Overall Results for sample 9 : Jas Root 2**

RNA Area:	4.7	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	16 ng/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:1

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
Modified: 9/17/2014 11:12:30 AM

**Gel Image**



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
Modified: 9/17/2014 11:12:30 AM

**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-17\2014-09-17\_002.xad

Created: 9/17/2014 10:52:40 AM  
 Modified: 9/17/2014 11:12:30 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		9/17/2014 11:12:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-17\2014-09-17_002.xad)		Instrument	Run		9/17/2014 10:52:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/17/2014 10:52:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/17/2014 10:52:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/17/2014 10:52:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/17/2014 10:52:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/17/2014 10:52:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/17/2014 10:52:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1