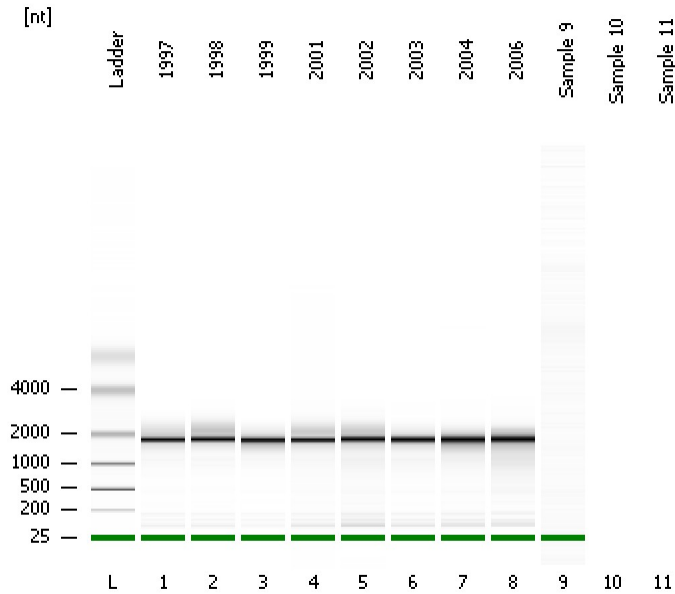


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
Modified: 7/25/2019 9:51:30 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

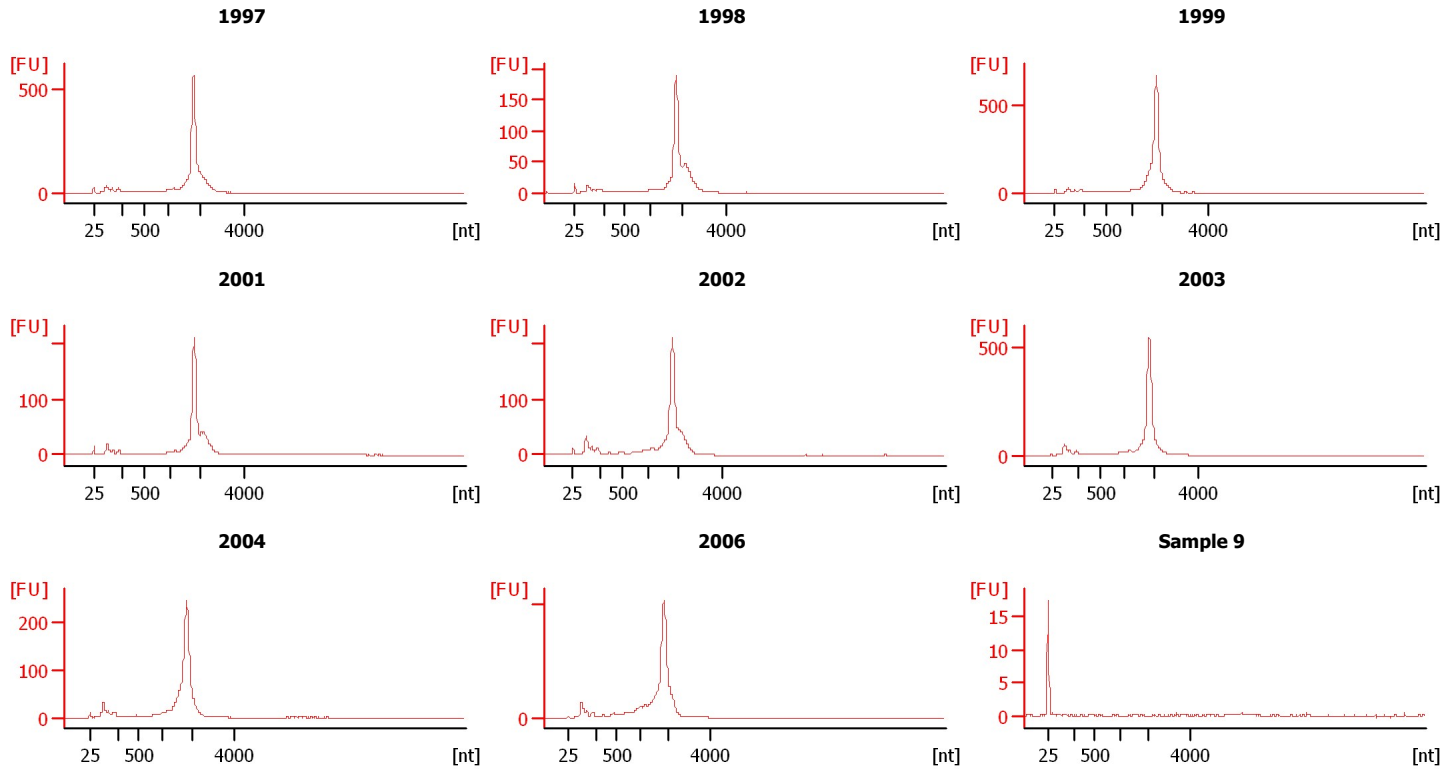
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

Assay Class: mRNA Pico
Version: 2.6
Assay Comments: mRNA Analysis pg sensitivity

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Chip Information:

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



Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
Modified: 7/25/2019 9:51:30 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1997		✓		
1998		✓		
1999		✓		
2001		✓		
2002		✓		
2003		✓		
2004		✓		
2006		✓		
Sample 9		✓		
Sample 10				
Sample 11				
Ladder		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
Modified: 7/25/2019 9:51:30 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 14
Maximum Visible Range [s] : 85
Start Analysis Time Range [s] : 15
End Analysis Time Range [s] : 84
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] : 15
Integration End Time [s] : 84
Slope Threshold : 0.2
Height Threshold [FU] : 0.5
Area Threshold : 0.1
Width Threshold [s] : 0.2
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

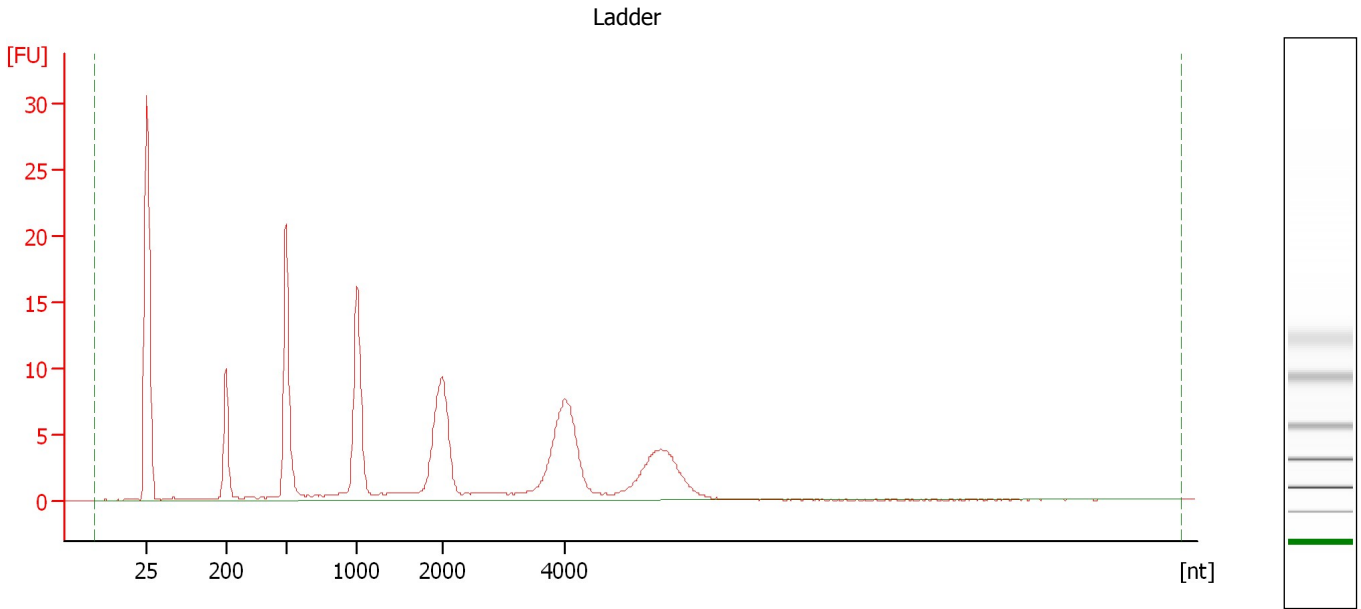
Ladder

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
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Electropherogram Summary



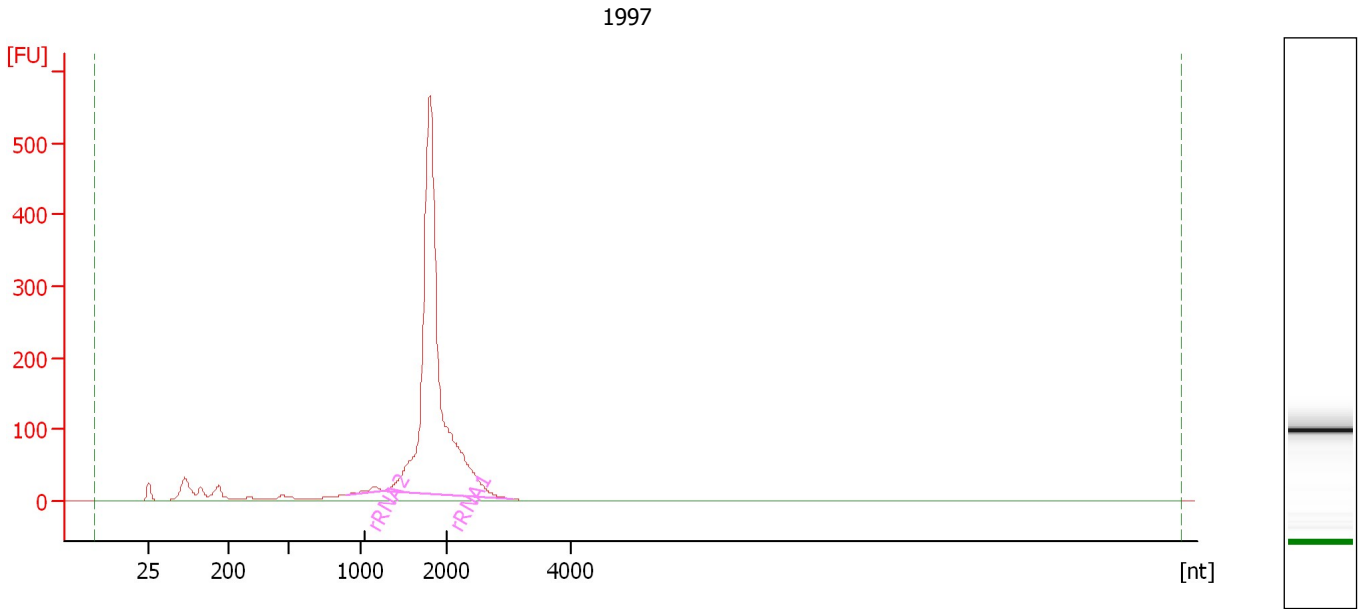
Overall Results for Ladder

RNA Area: 173.5 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : 1997

RNA Area: 2,461.6 rRNA Contamination: 74.9 %
RNA Concentration: 14,184 pg/μl

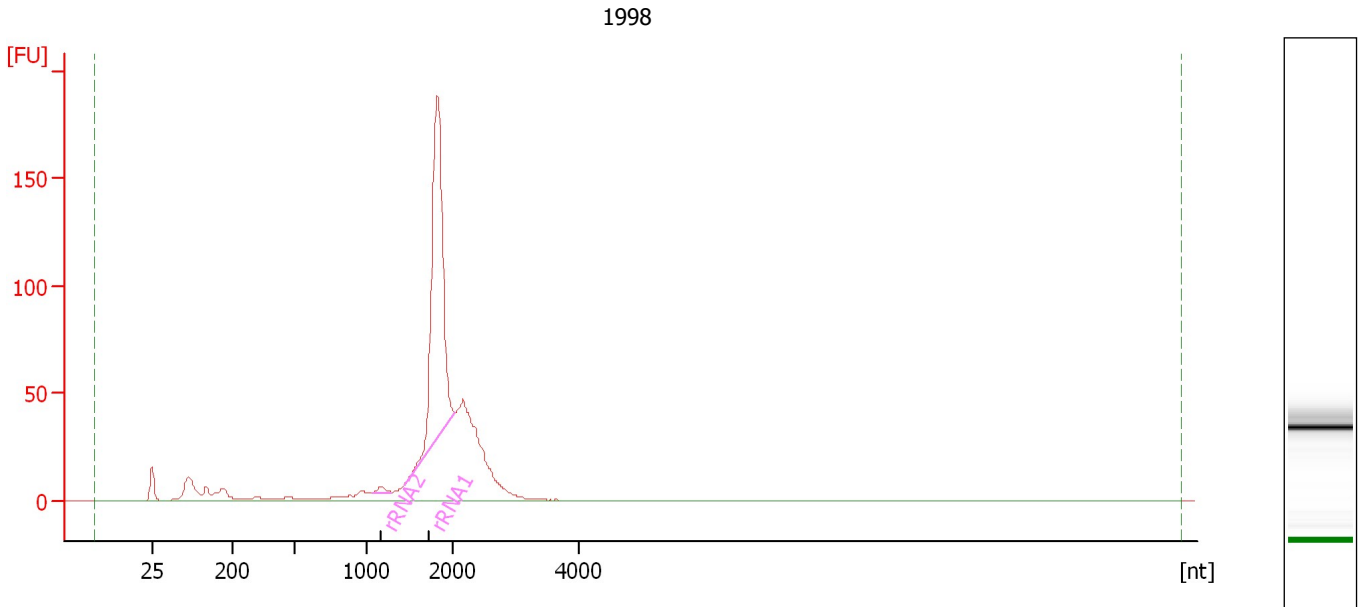
Fragment table for sample 1 : 1997

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	904	1,259	21.8	0.9
rRNA1	1,259	3,057	1,821.9	74.0

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : 1998

RNA Area: 909.7 rRNA Contamination: 37.4 %
RNA Concentration: 5,242 pg/μl

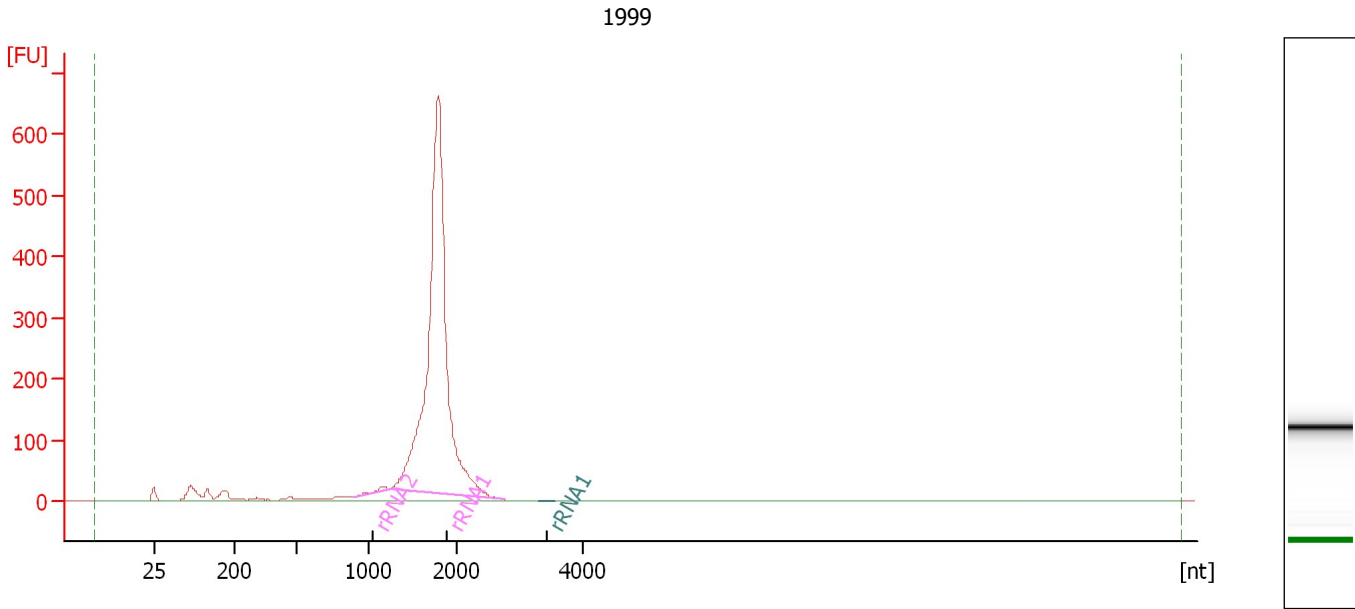
Fragment table for sample 2 : 1998

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,065	1,286	4.6	0.5
rRNA1	1,433	2,028	335.6	36.9

Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : 1999

RNA Area: 2,846.0 rRNA Contamination: 79.0 %
 RNA Concentration: 16,399 pg/μl

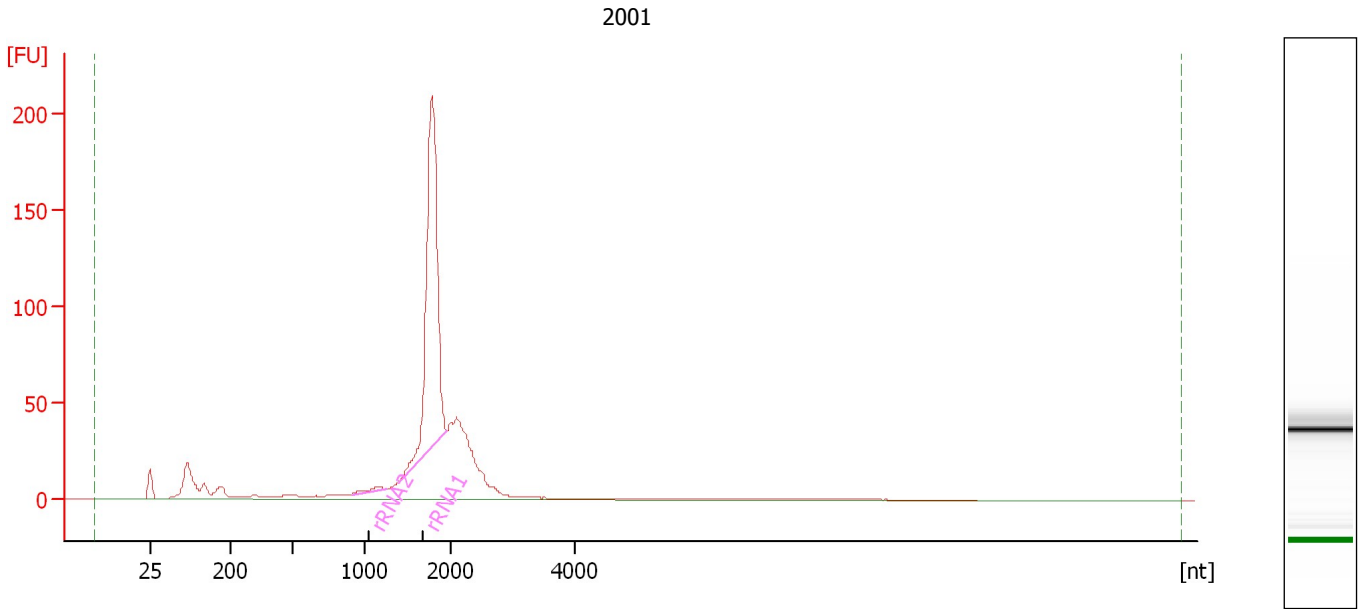
Fragment table for sample 3 : 1999

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	905	1,235	12.8	0.4
rRNA1	1,235	2,752	2,234.8	78.5
rRNA1	3,310	3,577	0.7	0.0

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : 2001

RNA Area: 986.4 rRNA Contamination: 39.5 %
RNA Concentration: 5,684 pg/μl

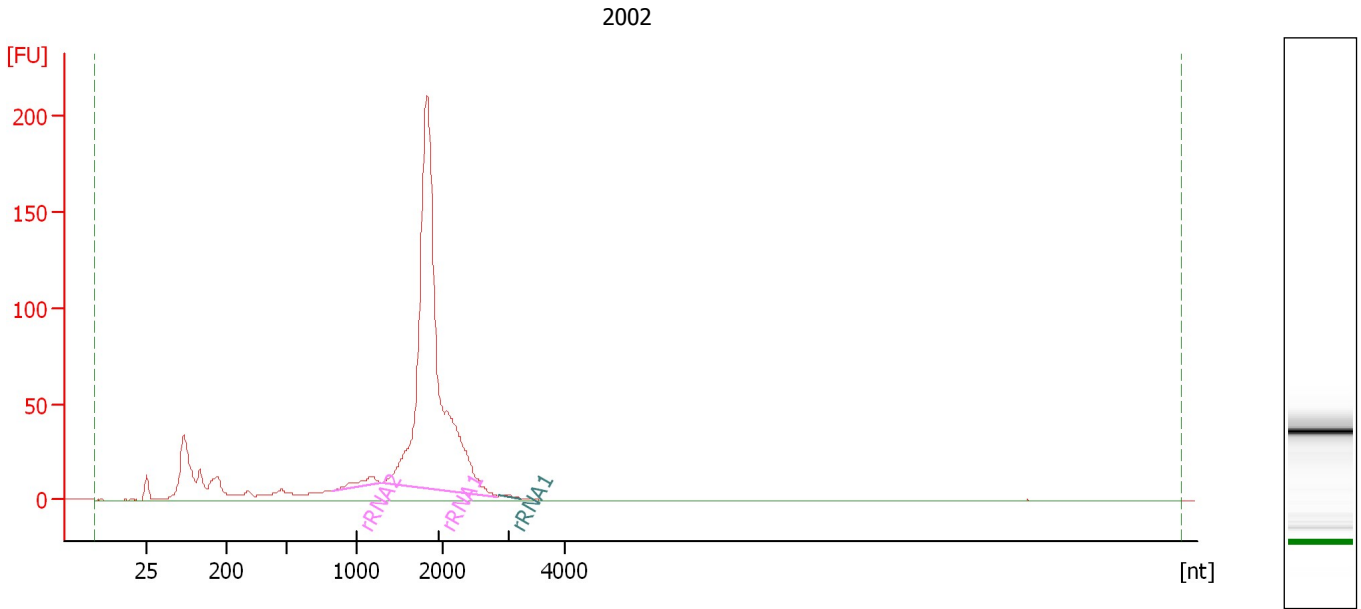
Fragment table for sample 4 : 2001

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	919	1,263	5.8	0.6
rRNA1	1,401	1,964	383.6	38.9

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : 2002

RNA Area: 1,262.4 rRNA Contamination: 62.5 %
RNA Concentration: 7,274 pg/μl

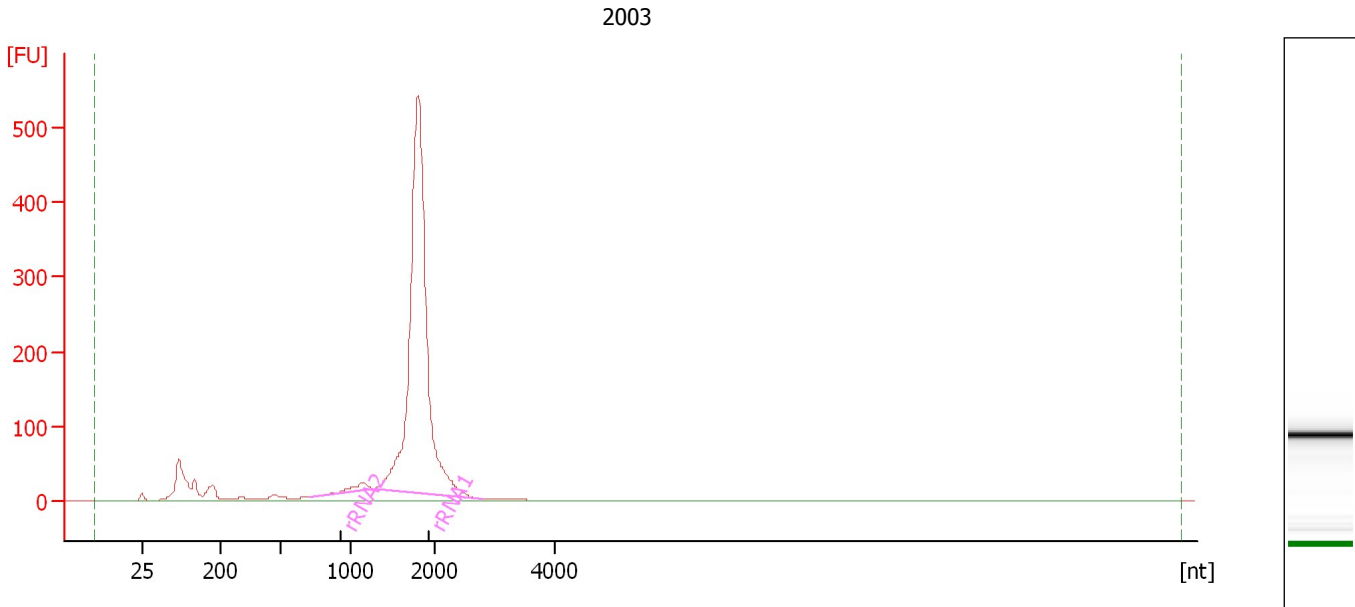
Fragment table for sample 5 : 2002

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	831	1,271	17.4	1.4
rRNA1	1,289	2,883	770.4	61.0
rRNA1	2,922	3,285	1.7	0.1

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : 2003

RNA Area: 2,578.5 rRNA Contamination: 69.7 %
RNA Concentration: 14,857 pg/μl

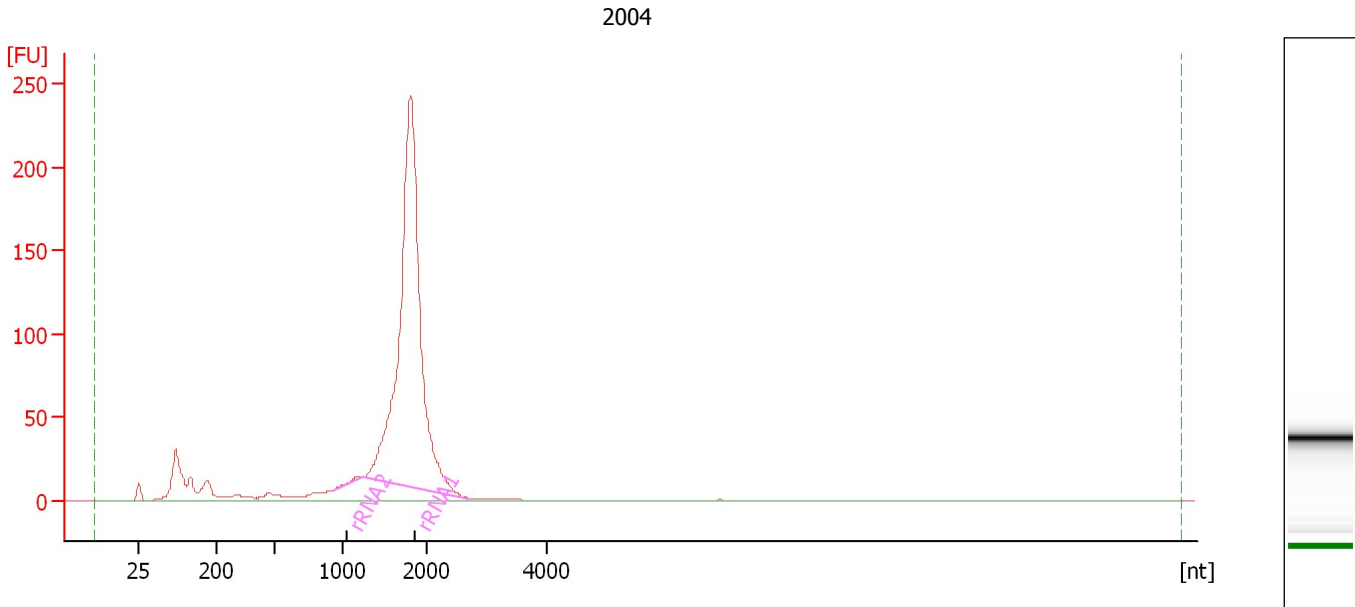
Fragment table for sample 6 : 2003

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	717	1,269	38.7	1.5
rRNA1	1,278	2,800	1,757.8	68.2

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
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Electropherogram Summary Continued ...



Overall Results for sample 7 : 2004

RNA Area: 1,480.1 rRNA Contamination: 66.4 %
RNA Concentration: 8,528 pg/μl

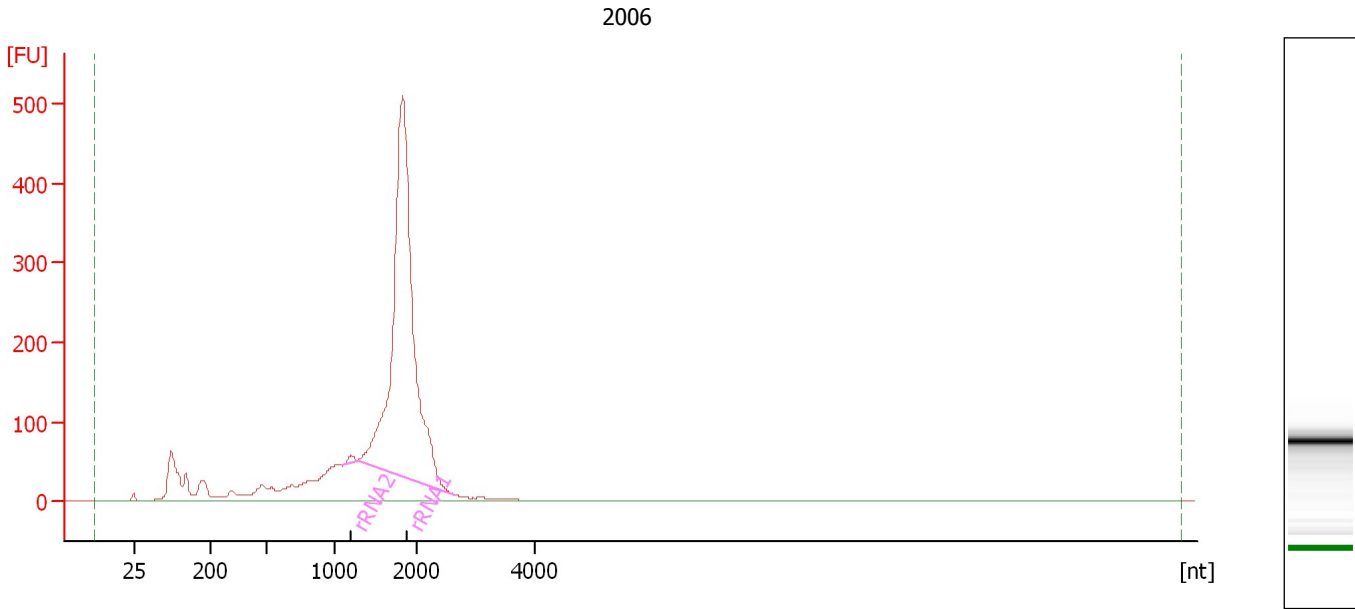
Fragment table for sample 7 : 2004

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	924	1,229	4.0	0.3
rRNA1	1,229	2,702	979.1	66.2

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
Modified: 7/25/2019 9:51:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 2006

RNA Area: 3,667.2 rRNA Contamination: 54.4 %
RNA Concentration: 21,131 pg/μl

Fragment table for sample 8 : 2006

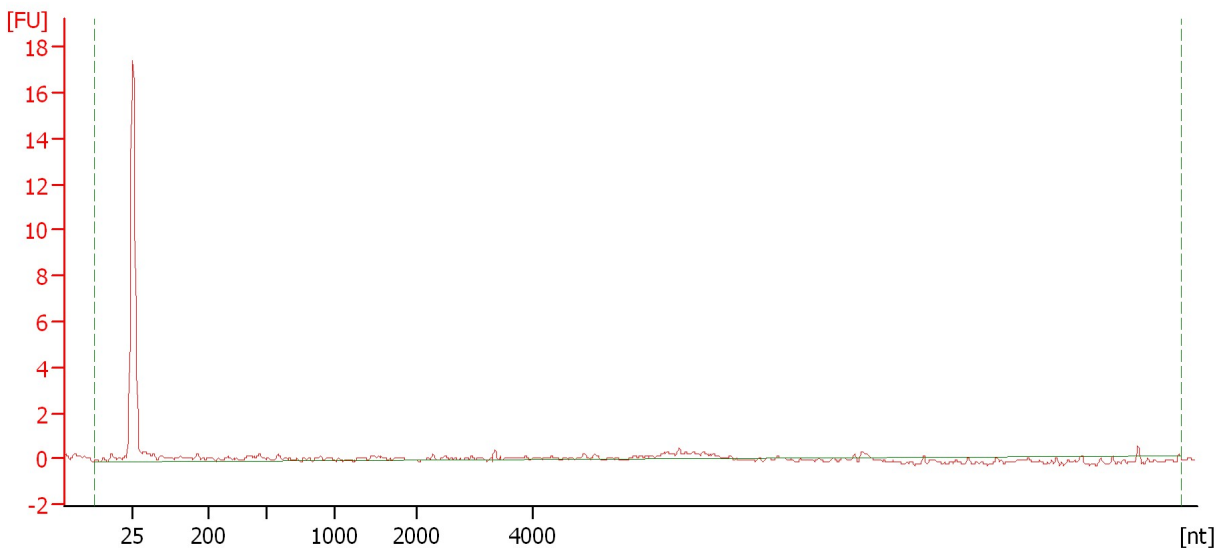
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,097	1,273	12.2	0.3
rRNA1	1,273	2,629	1,984.1	54.1

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
Modified: 7/25/2019 9:51:30 AM

Electropherogram Summary Continued ...

Sample 9



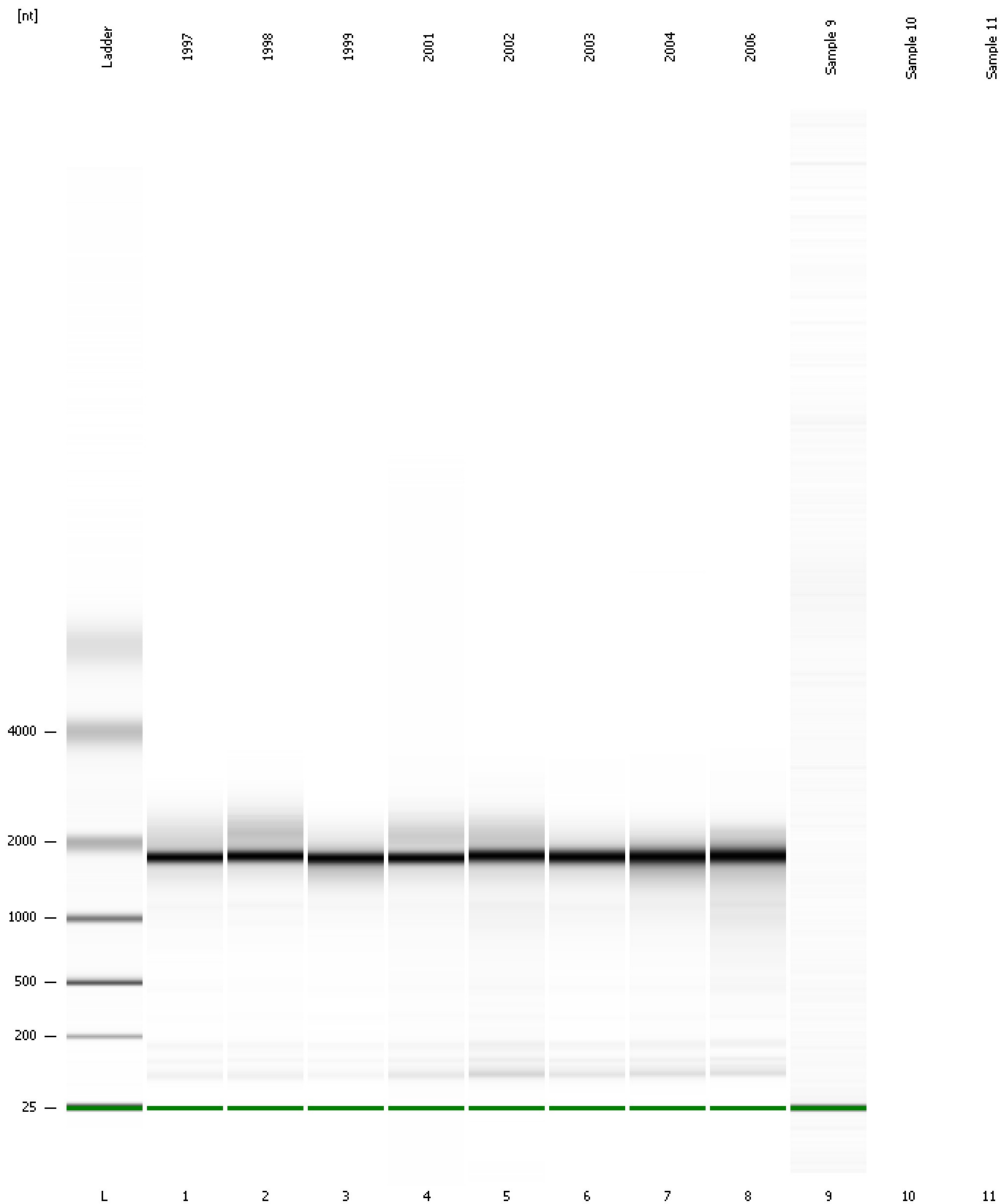
Overall Results for sample 9 : Sample 9

RNA Area: 9.9 rRNA Contamination: 0.0 %
RNA Concentration: 57 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
Modified: 7/25/2019 9:51:30 AM

Gel Image



Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
Modified: 7/25/2019 9:51:30 AM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad

Created: 7/25/2019 9:28:58 AM
 Modified: 7/25/2019 9:51:30 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		7/25/2019 9:51:29 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-07-25\2019-07-25_001.xad)		Instrument	Run		7/25/2019 9:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/25/2019 9:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/25/2019 9:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/25/2019 9:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/25/2019 9:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/25/2019 9:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/25/2019 9:29:04 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1