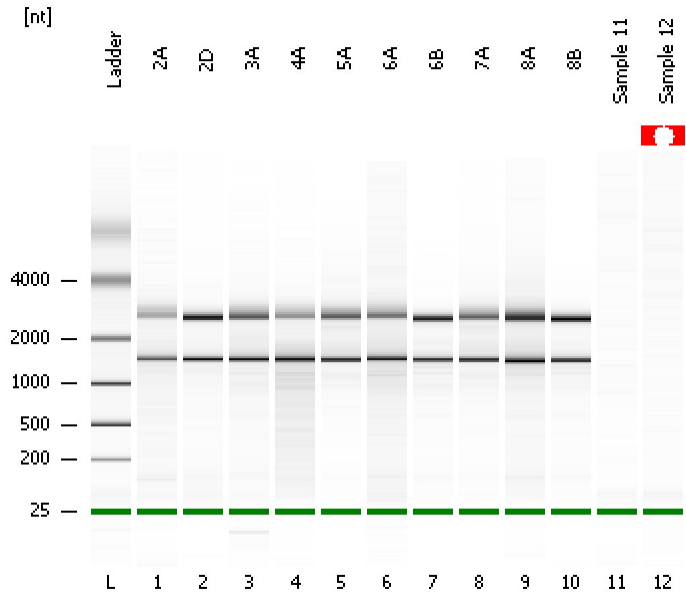


Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Electrophoresis File Run Summary



Instrument Information:

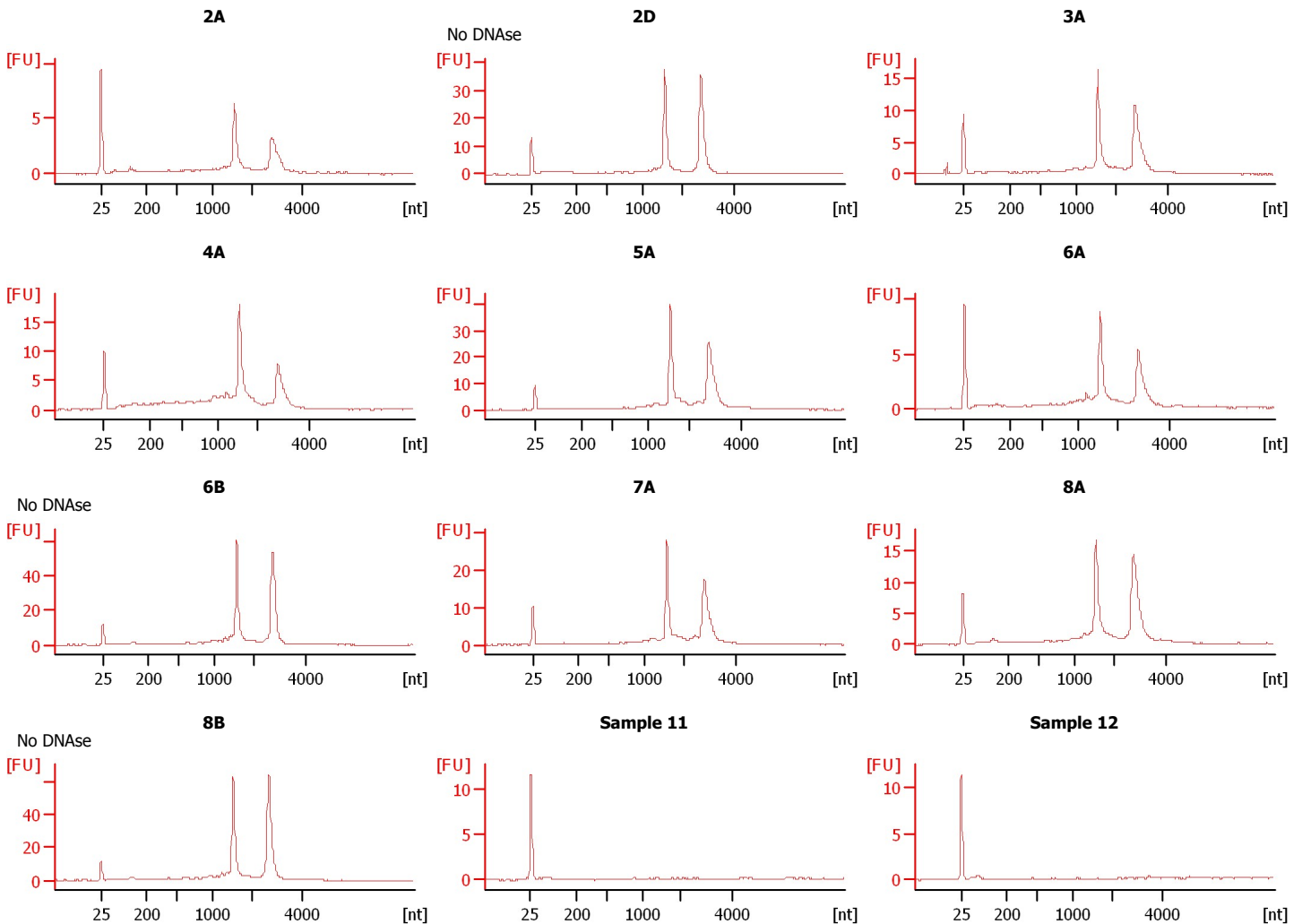
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Prokaryote Total RNA Nano Series II.xsy
Assay Class: Prokaryote Total RNA Nano
Version: 2.5
Assay Comments: Total RNA Analysis ng sensitivity (Prokaryote)
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Chip Information:

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



Assay Class: Prokaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
 Modified: 4/8/2015 2:52:53 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|----------------|--------|--------------|--------------|
| 2A | | ✓ | | |
| 2D | No DNase | ✓ | | |
| 3A | | ✓ | | |
| 4A | | ✓ | | |
| 5A | | ✓ | | |
| 6A | | ✓ | | |
| 6B | No DNase | ✓ | | |
| 7A | | ✓ | | |
| 8A | | ✓ | | |
| 8B | No DNase | ✓ | | |
| Sample 11 | | ✓ | | |
| Sample 12 | | ✓ | | |
| Ladder | | ✓ | | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

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] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

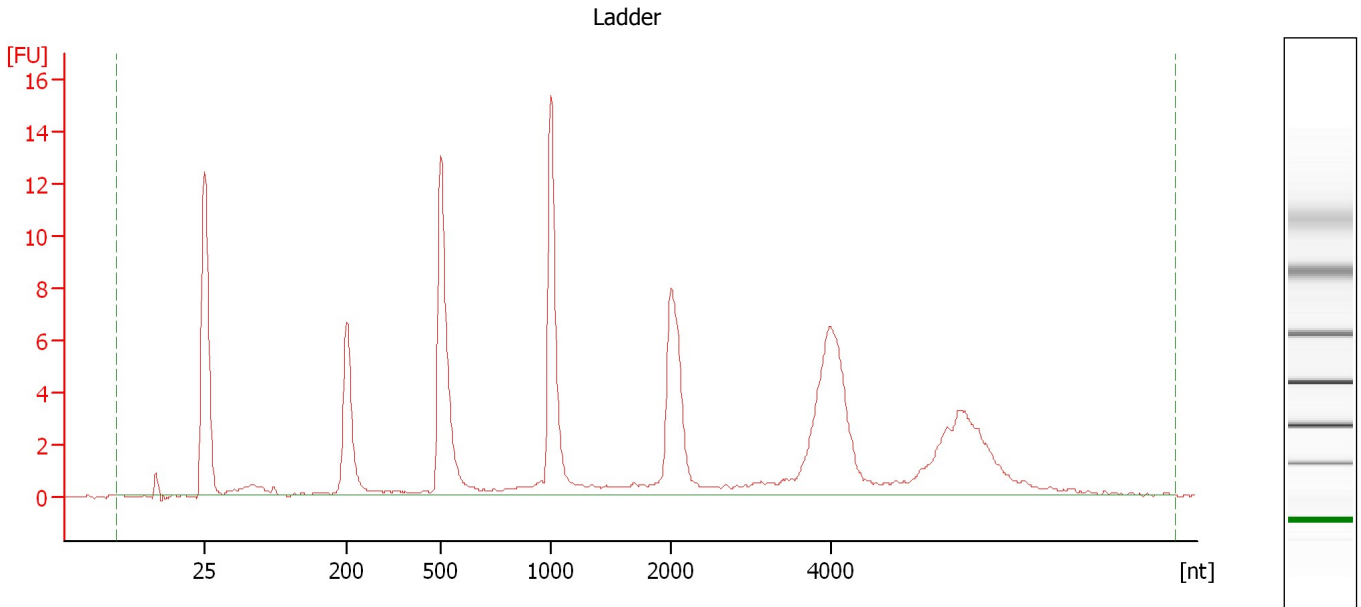
Ladder

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

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Electropherogram Summary



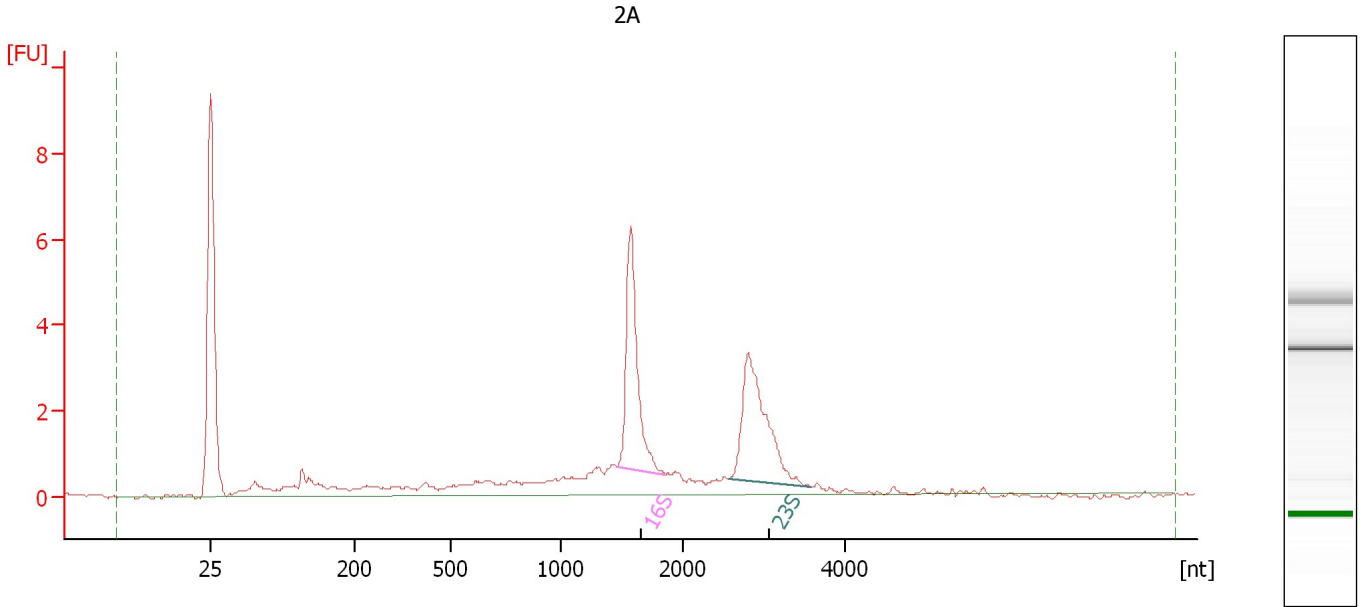
Overall Results for Ladder

RNA Area: 109.8 RNA Concentration: 150 ng/μl

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 2A

RNA Area: 40.4 rRNA Ratio [23s / 16s]: 1.0
RNA Concentration: 55 ng/μl RNA Integrity Number (RIN): 8.1 (B.02.08)

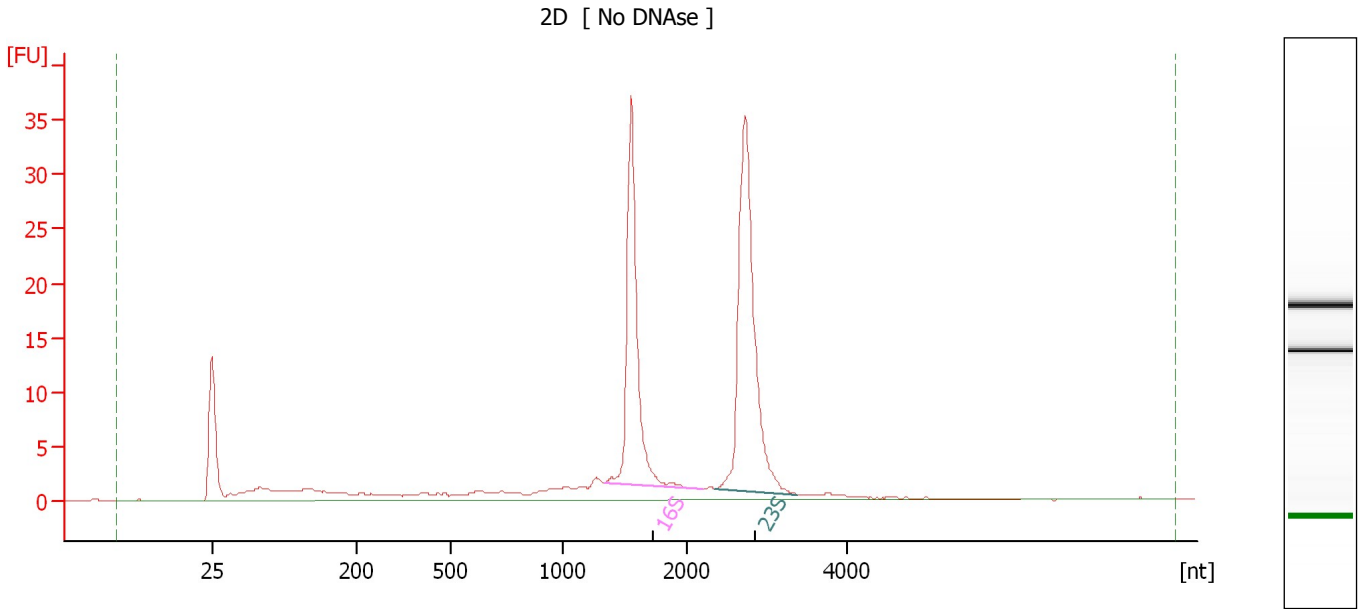
Fragment table for sample 1 : 2A

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 16S | 1,444 | 1,846 | 7.5 | 18.7 |
| 23S | 2,562 | 3,583 | 7.9 | 19.5 |

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2D

RNA Area: 170.4 rRNA Ratio [23s / 16s]: 1.4
RNA Concentration: 233 ng/μl RNA Integrity Number (RIN): 9.4 (B.02.08)

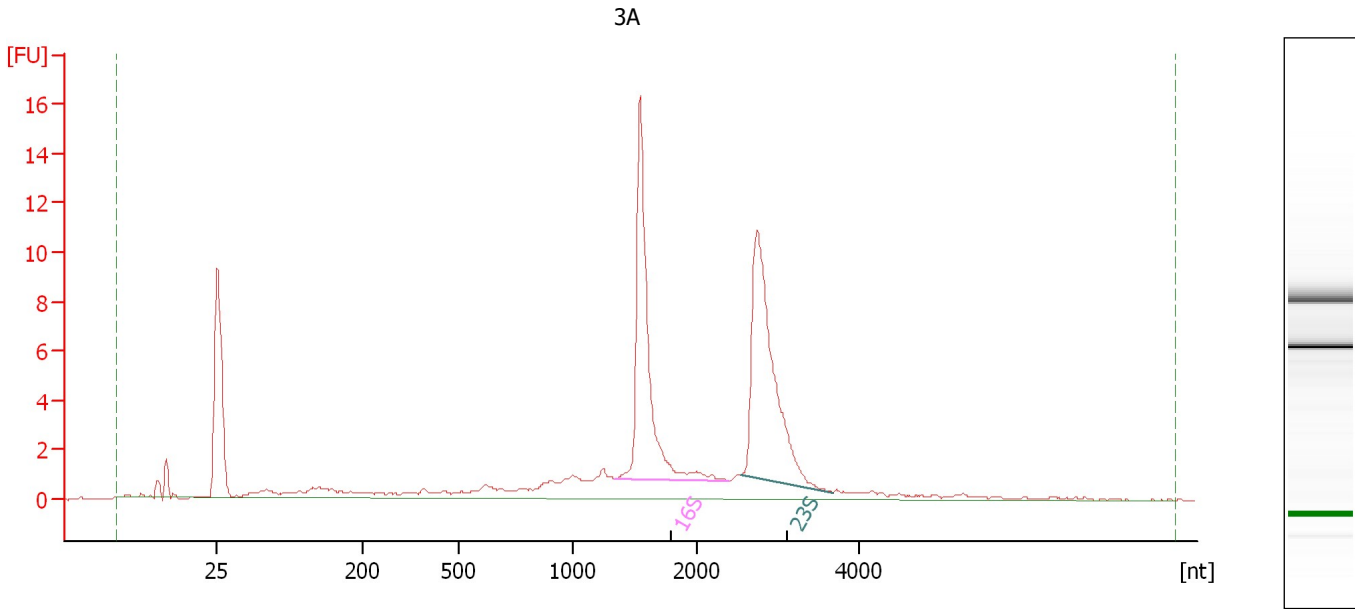
Fragment table for sample 2 : 2D

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 16S | 1,333 | 2,205 | 43.1 | 25.3 |
| 23S | 2,363 | 3,382 | 58.5 | 34.3 |

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3A

RNA Area: 80.7 rRNA Ratio [23s / 16s]: 1.1
RNA Concentration: 110 ng/μl RNA Integrity Number (RIN): 9 (B.02.08)

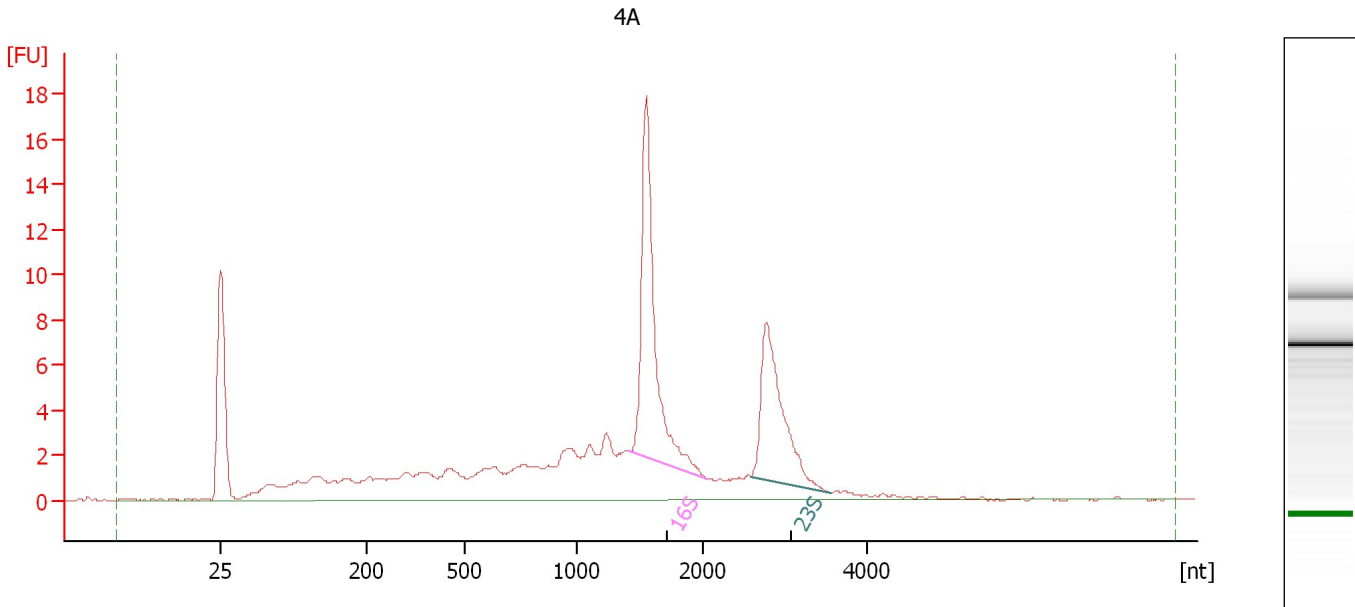
Fragment table for sample 3 : 3A

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 16S | 1,343 | 2,404 | 21.3 | 26.3 |
| 23S | 2,548 | 3,674 | 23.0 | 28.5 |

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 4A

RNA Area: 128.3 rRNA Ratio [23s / 16s]: 0.7
RNA Concentration: 175 ng/μl RNA Integrity Number (RIN): 7.1 (B.02.08)

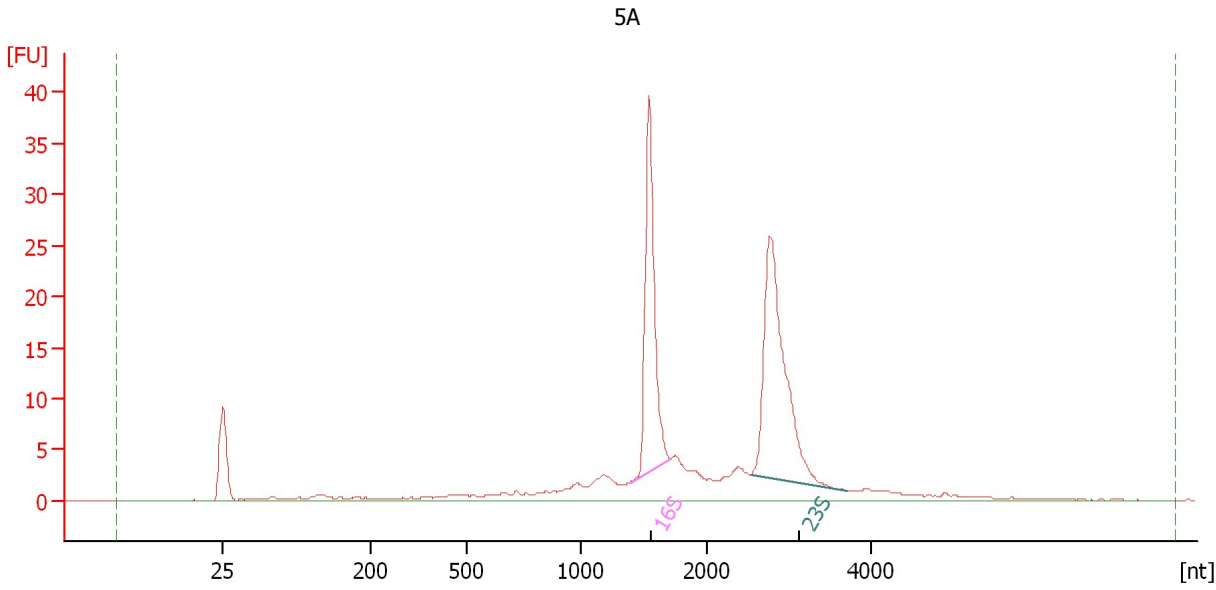
Fragment table for sample 4 : 4A

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 16S | 1,417 | 2,066 | 24.6 | 19.2 |
| 23S | 2,586 | 3,575 | 16.1 | 12.6 |

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 5A

RNA Area: 180.6 rRNA Ratio [23s / 16s]: 1.3
RNA Concentration: 247 ng/μl RNA Integrity Number (RIN): 9 (B.02.08)

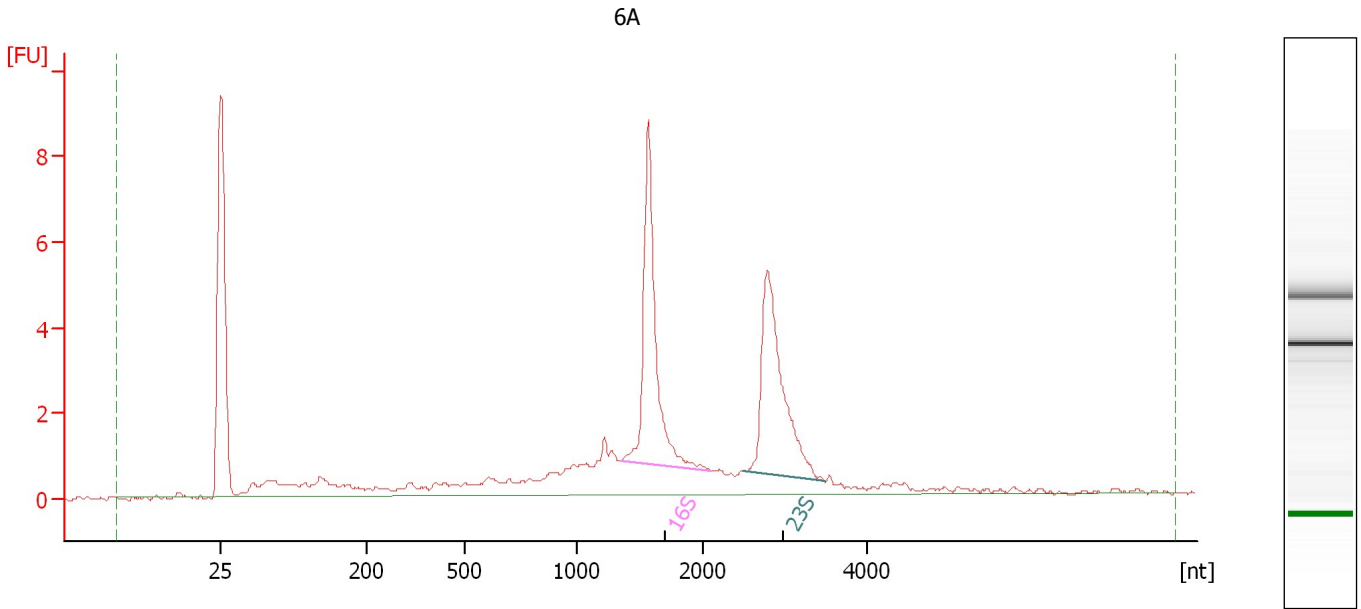
Fragment table for sample 5 : 5A

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 16S | 1,387 | 1,711 | 39.9 | 22.1 |
| 23S | 2,534 | 3,700 | 52.8 | 29.2 |

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 6A

RNA Area: 55.7 rRNA Ratio [23s / 16s]: 1.0
RNA Concentration: 76 ng/μl RNA Integrity Number (RIN): 8.3 (B.02.08)

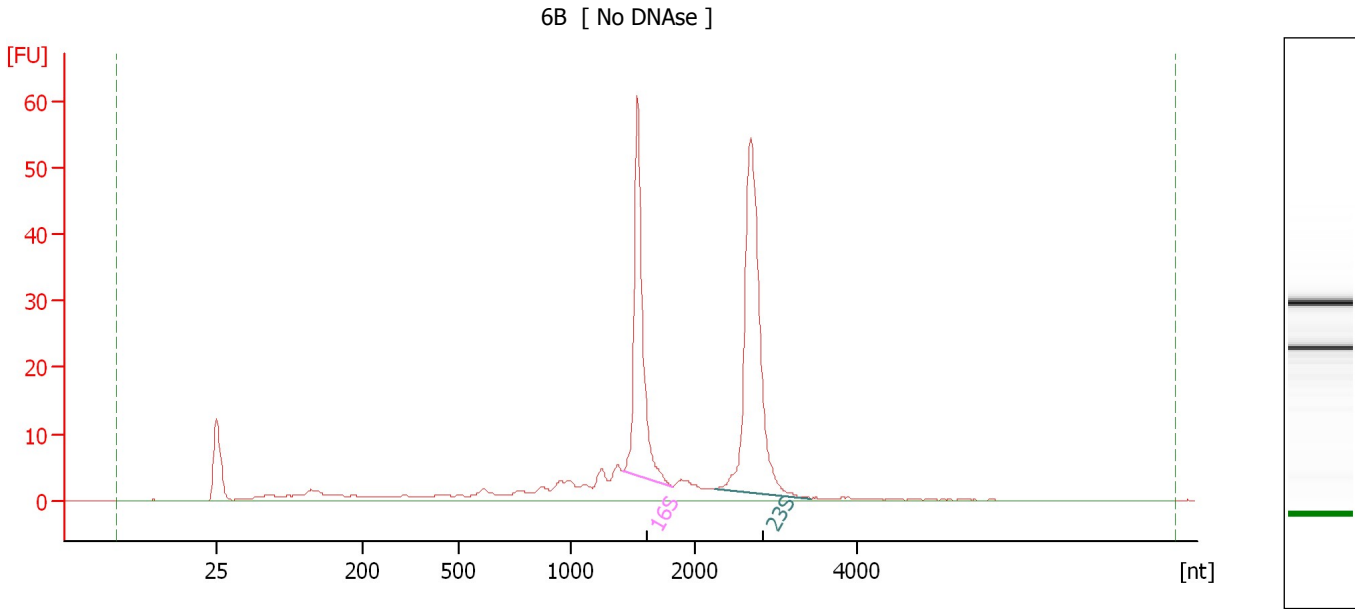
Fragment table for sample 6 : 6A

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 16S | 1,349 | 2,092 | 11.3 | 20.2 |
| 23S | 2,495 | 3,484 | 10.8 | 19.5 |

Assay Class: Prokaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
 Modified: 4/8/2015 2:52:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 6B

RNA Area: 246.9 rRNA Ratio [23s / 16s]: 1.5
 RNA Concentration: 337 ng/μl RNA Integrity Number (RIN): 8.9 (B.02.08)

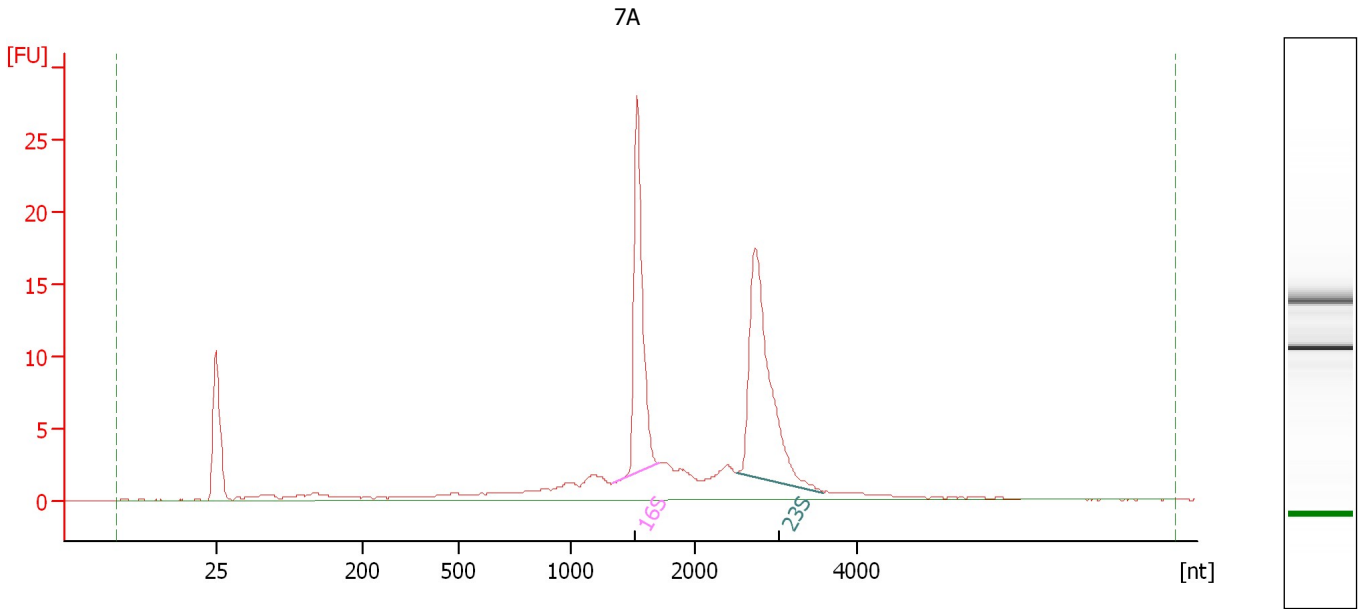
Fragment table for sample 7 : 6B

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 16S | 1,427 | 1,825 | 59.4 | 24.1 |
| 23S | 2,259 | 3,440 | 87.5 | 35.4 |

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 7A

RNA Area: 123.0 rRNA Ratio [23s / 16s]: 1.2
RNA Concentration: 168 ng/μl RNA Integrity Number (RIN): 9 (B.02.08)

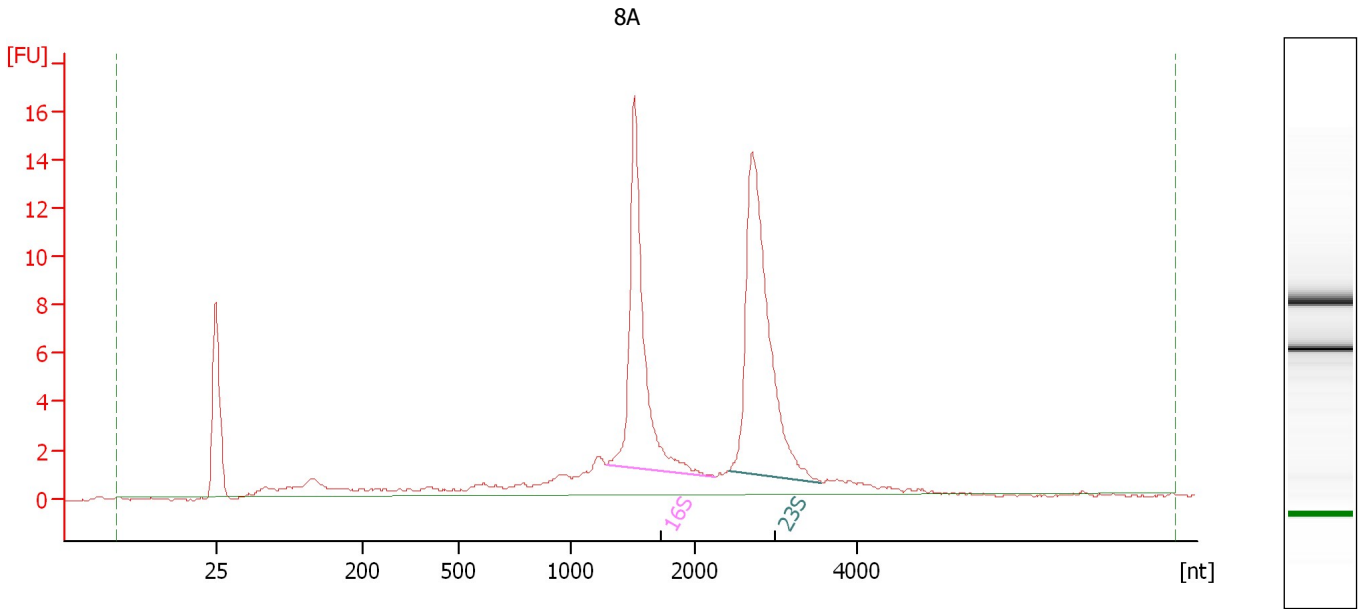
Fragment table for sample 8 : 7A

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 16S | 1,349 | 1,721 | 27.9 | 22.7 |
| 23S | 2,535 | 3,584 | 34.6 | 28.1 |

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 8A

RNA Area: 103.3 rRNA Ratio [23s / 16s]: 1.3
RNA Concentration: 141 ng/μl RNA Integrity Number (RIN): 9.1 (B.02.08)

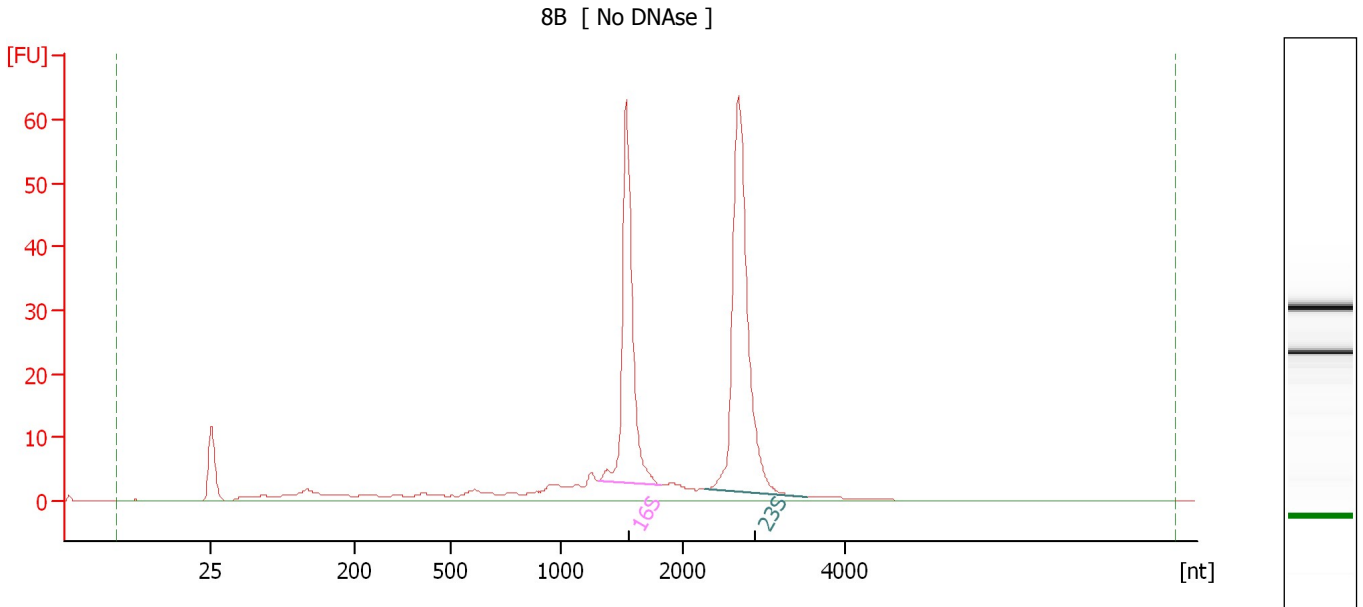
Fragment table for sample 9 : 8A

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 16S | 1,289 | 2,259 | 25.5 | 24.7 |
| 23S | 2,430 | 3,558 | 32.5 | 31.4 |

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 8B

RNA Area: 282.3 rRNA Ratio [23s / 16s]: 1.4
RNA Concentration: 386 ng/μl RNA Integrity Number (RIN): 9.3 (B.02.08)

Fragment table for sample 10 : 8B

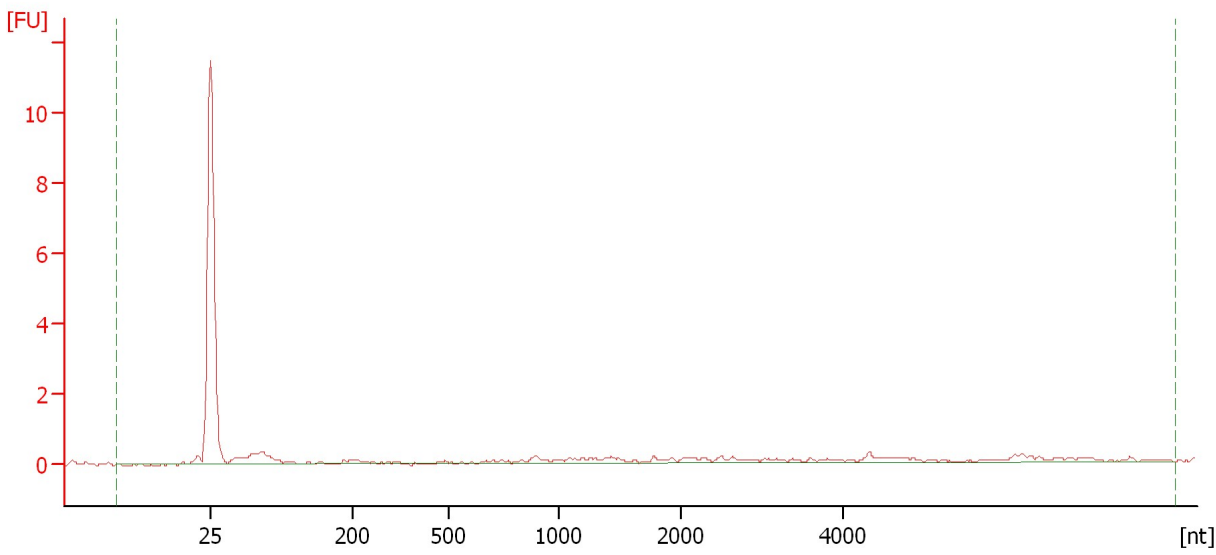
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 16S | 1,304 | 1,811 | 72.9 | 25.8 |
| 23S | 2,257 | 3,530 | 104.0 | 36.9 |

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Electropherogram Summary Continued ...

Sample 11



Overall Results for sample 11 : Sample 11

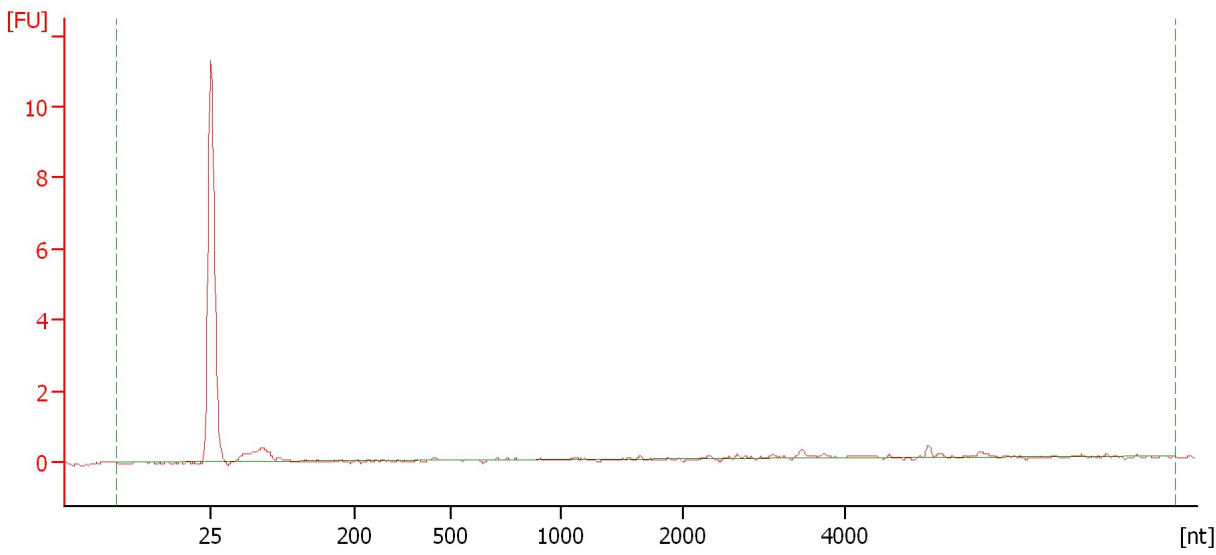
| | | | |
|--------------------|----------|-----------------------------|-------------|
| RNA Area: | 9.2 | rRNA Ratio [23s / 16s]: | 0.0 |
| RNA Concentration: | 13 ng/μl | RNA Integrity Number (RIN): | 1 (B.02.08) |

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Electropherogram Summary Continued ...

Sample 12



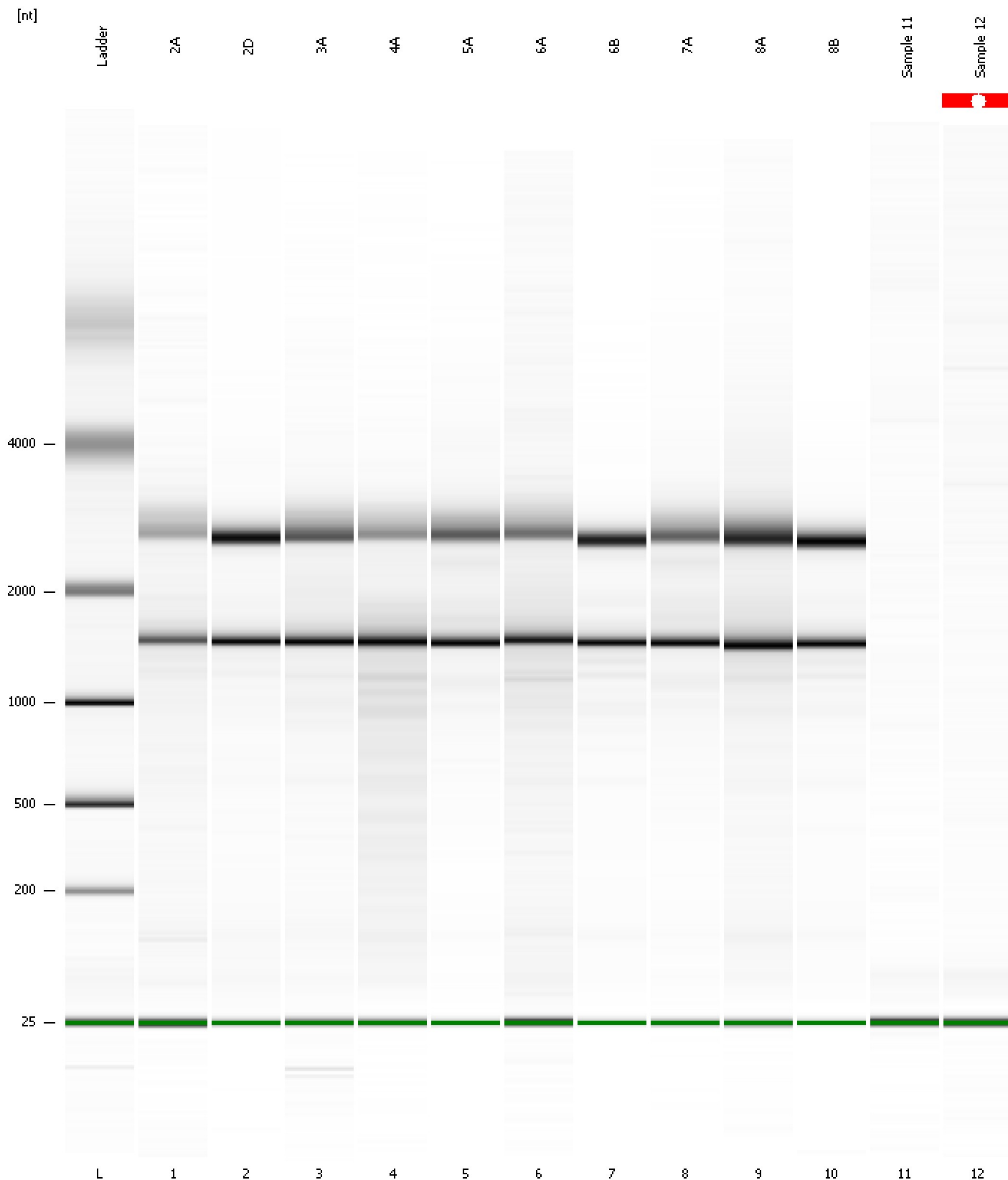
Overall Results for sample 12 : Sample 12

| | | | |
|--------------------|---------|-----------------------------|---------------|
| RNA Area: | 3.3 | rRNA Ratio [23s / 16s]: | 0.0 |
| RNA Concentration: | 5 ng/μl | RNA Integrity Number (RIN): | N/A (B.02.08) |

Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Gel Image

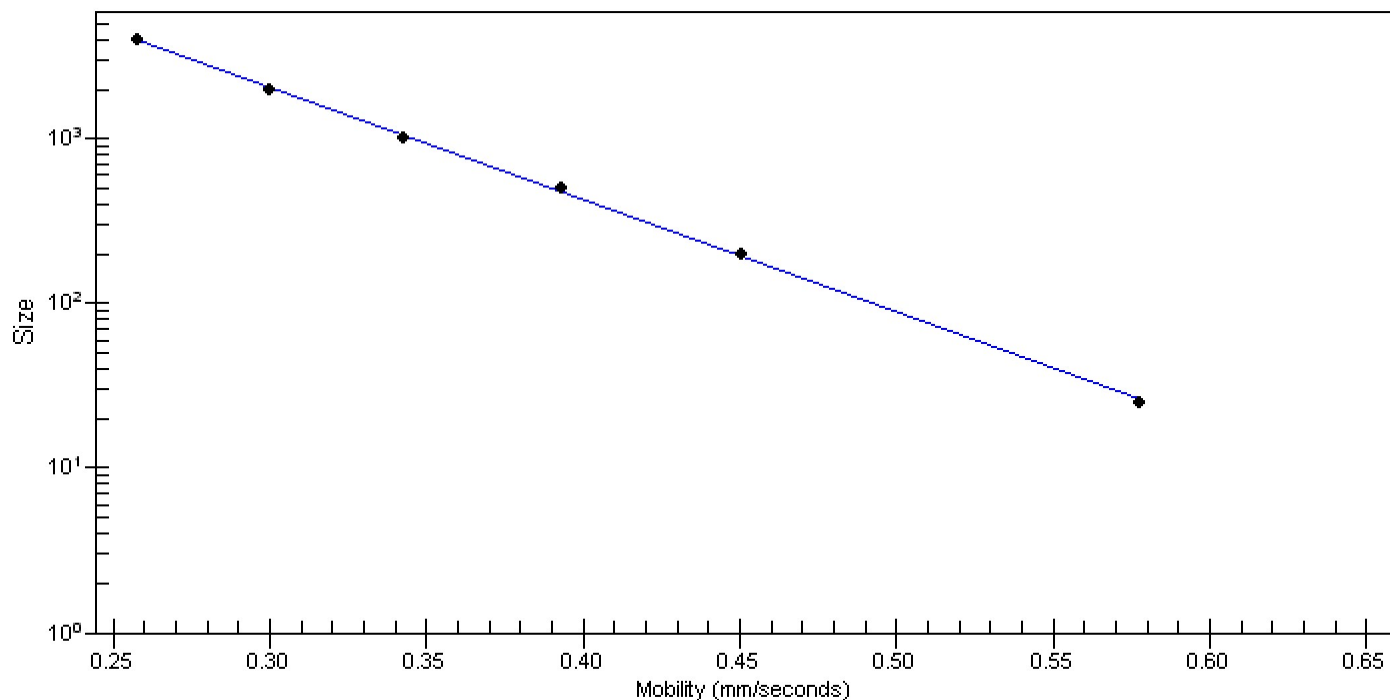


Assay Class: Prokaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad

Created: 4/8/2015 2:29:08 PM
Modified: 4/8/2015 2:52:53 PM

Curves

Standard Curve



Assay Class: Prokaryote Total RNA Nano Created: 4/8/2015 2:29:08 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad Modified: 4/8/2015 2:52:53 PM

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 | | 4/8/2015 2:52:51 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-04-08\2015-04-08_003.xad) | | Instrument | Run | | 4/8/2015 2:29:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 4/8/2015 2:29:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 4/8/2015 2:29:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 4/8/2015 2:29:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 4/8/2015 2:29:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 4/8/2015 2:29:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 4/8/2015 2:29:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |