

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_003.xad

Created: 4/19/2016 4:26:39 PM
Modified: 4/19/2016 4:52:34 PM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

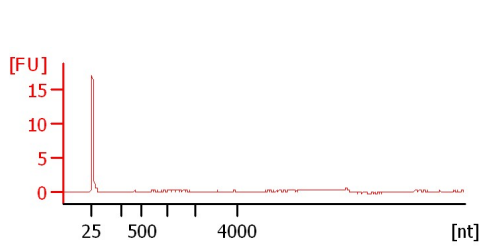
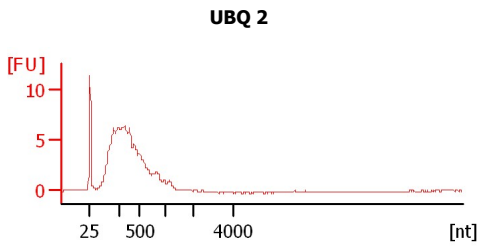
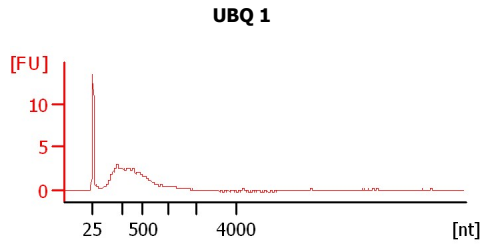
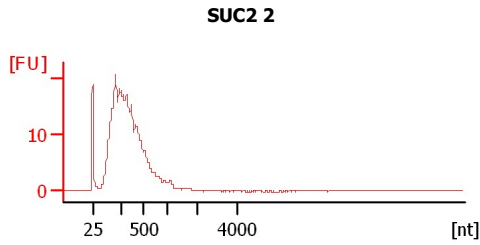
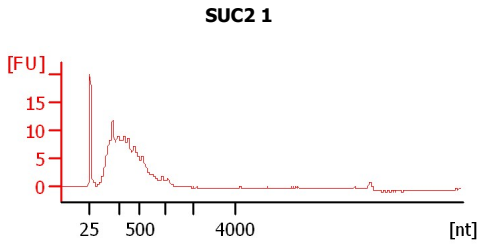
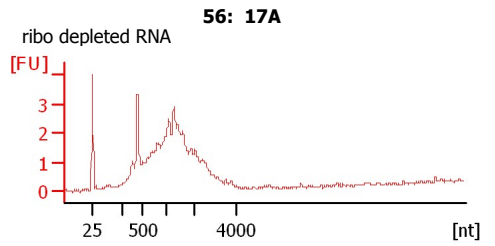
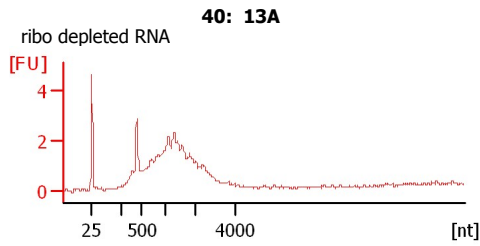
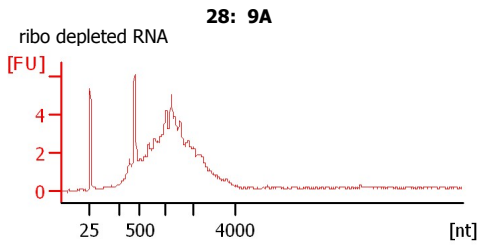
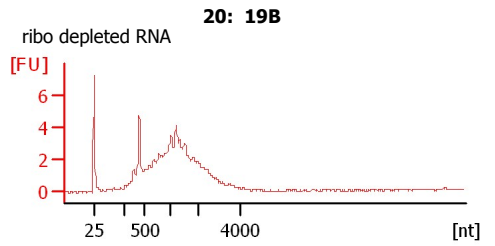
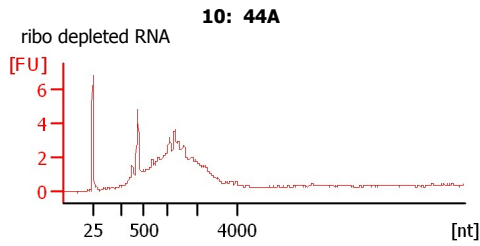
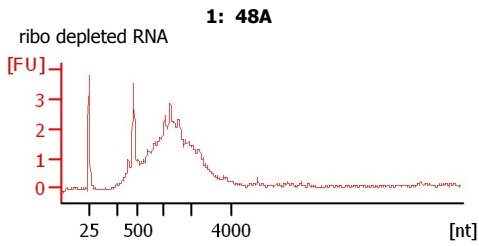
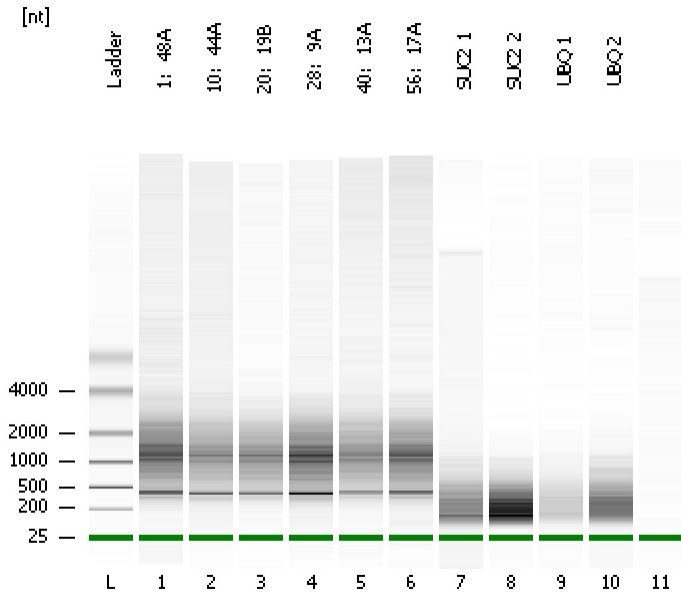
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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:



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Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-------------|-------------------|--------|--------------|--------------|
| 1: 48A | ribo depleted RNA | ✓ | | |
| 10: 44A | ribo depleted RNA | ✓ | | |
| 20: 19B | ribo depleted RNA | ✓ | | |
| 28: 9A | ribo depleted RNA | ✓ | | |
| 40: 13A | ribo depleted RNA | ✓ | | |
| 56: 17A | ribo depleted RNA | ✓ | | |
| SUC2 1 | | ✓ | | |
| SUC2 2 | | ✓ | | |
| UBQ 1 | | ✓ | | |
| UBQ 2 | | ✓ | | |
| Ladder | | ✓ | | |

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] : 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

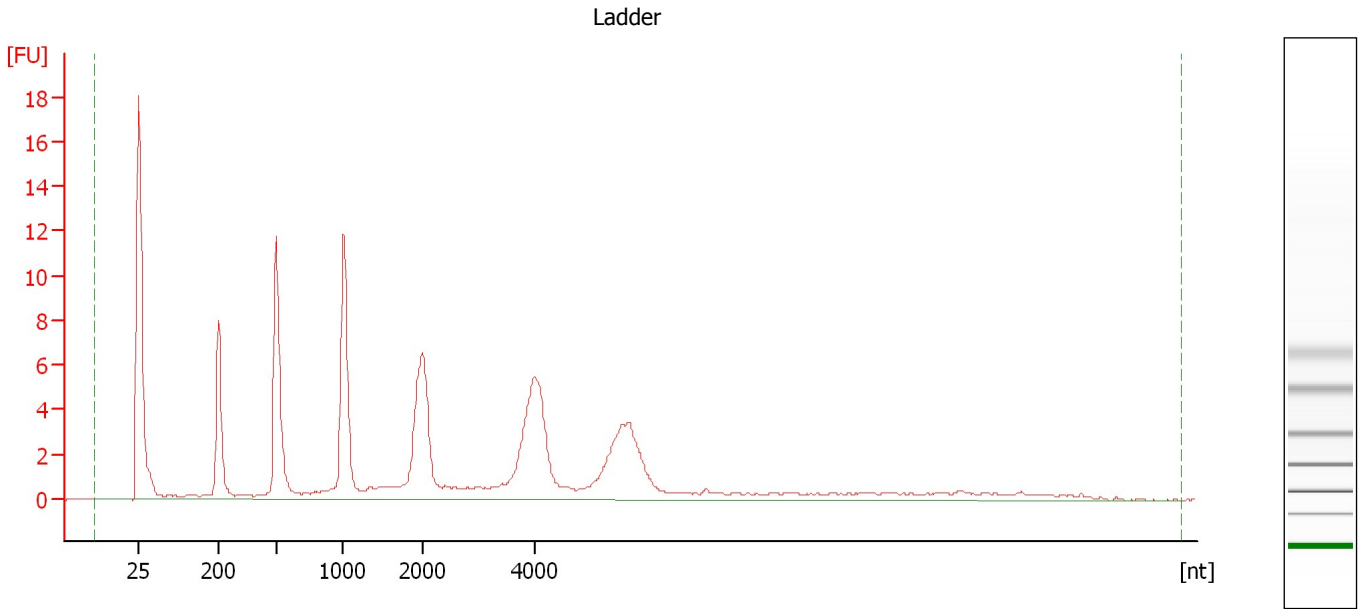
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

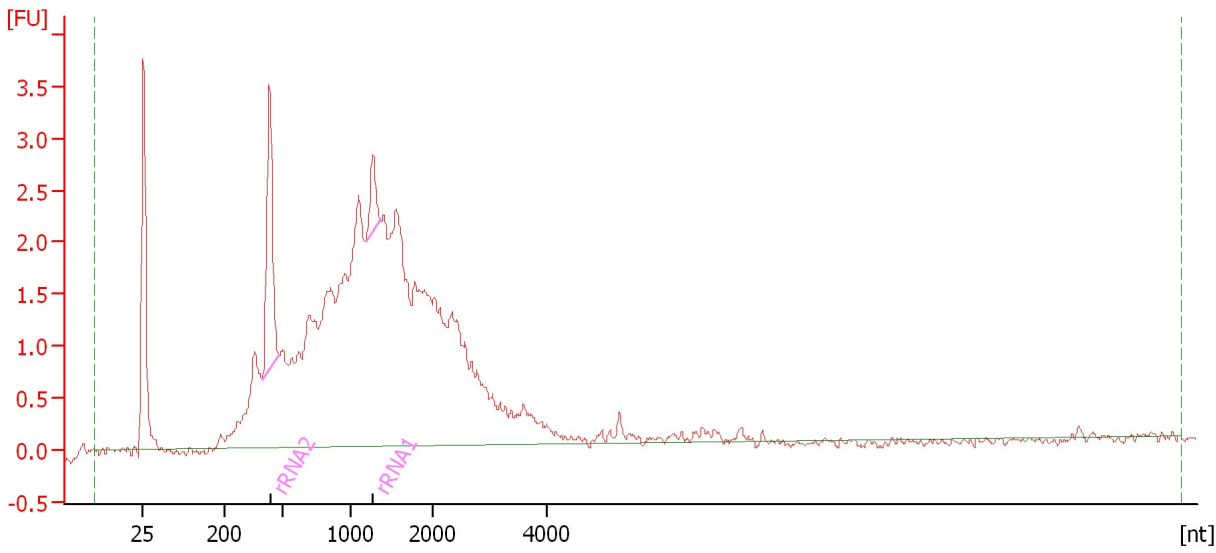
RNA Area: 139.4 RNA Concentration: 1,000 pg/μl

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Electropherogram Summary Continued ...

1: 48A [ribo depleted RNA]



Overall Results for sample 1 : 1: 48A

RNA Area: 71.6 rRNA Contamination: 7.0 %
RNA Concentration: 514 pg/μl

Fragment table for sample 1 : 1: 48A

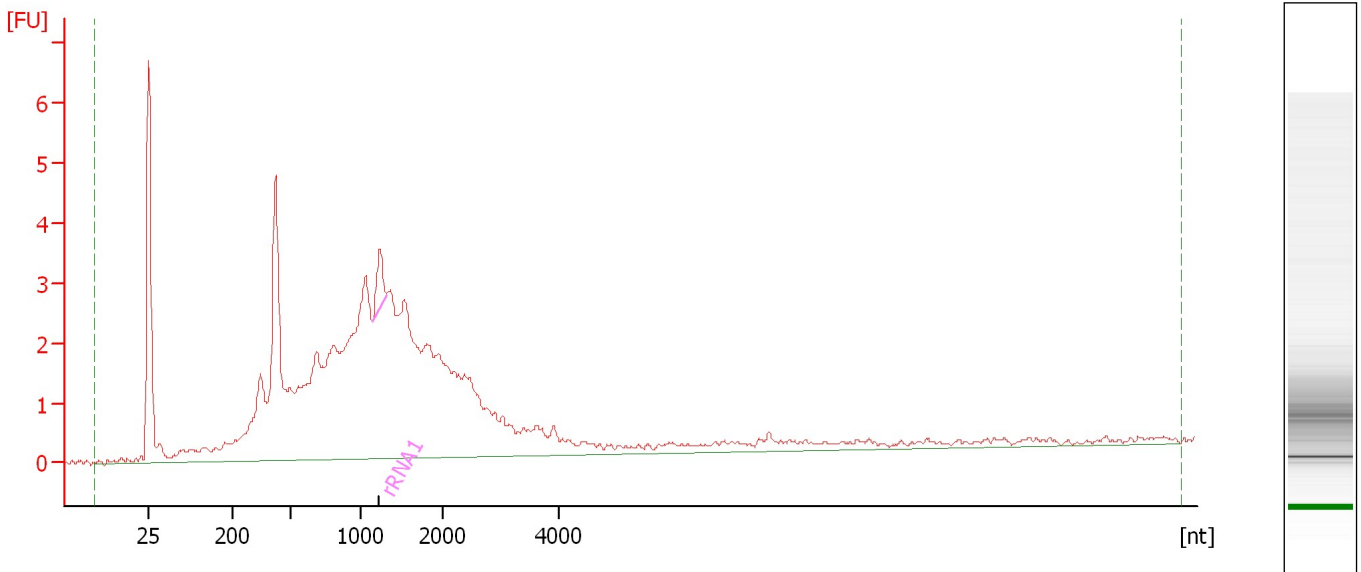
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|-------|-----------------|---------------|------|-----------------|
| rRNA2 | 392 | 480 | 4.1 | 5.8 |
| rRNA1 | 1,177 | 1,356 | 0.9 | 1.2 |

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Electropherogram Summary Continued ...

10: 44A [ribo depleted RNA]



Overall Results for sample 2 : 10: 44A

RNA Area: 100.7 rRNA Contamination: 1.2 %
RNA Concentration: 722 pg/μl

Fragment table for sample 2 : 10: 44A

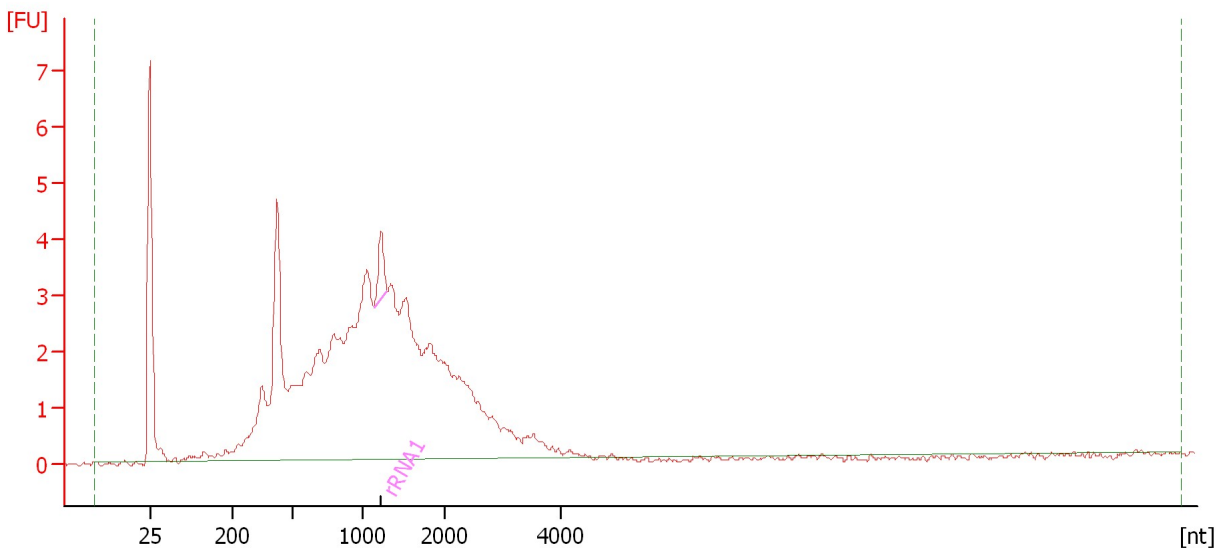
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|-------|-----------------|---------------|------|-----------------|
| rRNA1 | 1,147 | 1,313 | 1.2 | 1.2 |

Assay Class: mRNA Pico
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Electropherogram Summary Continued ...

20: 19B [ribo depleted RNA]



Overall Results for sample 3 : 20: 19B

RNA Area: 96.7 rRNA Contamination: 1.4 %
RNA Concentration: 694 pg/μl

Fragment table for sample 3 : 20: 19B

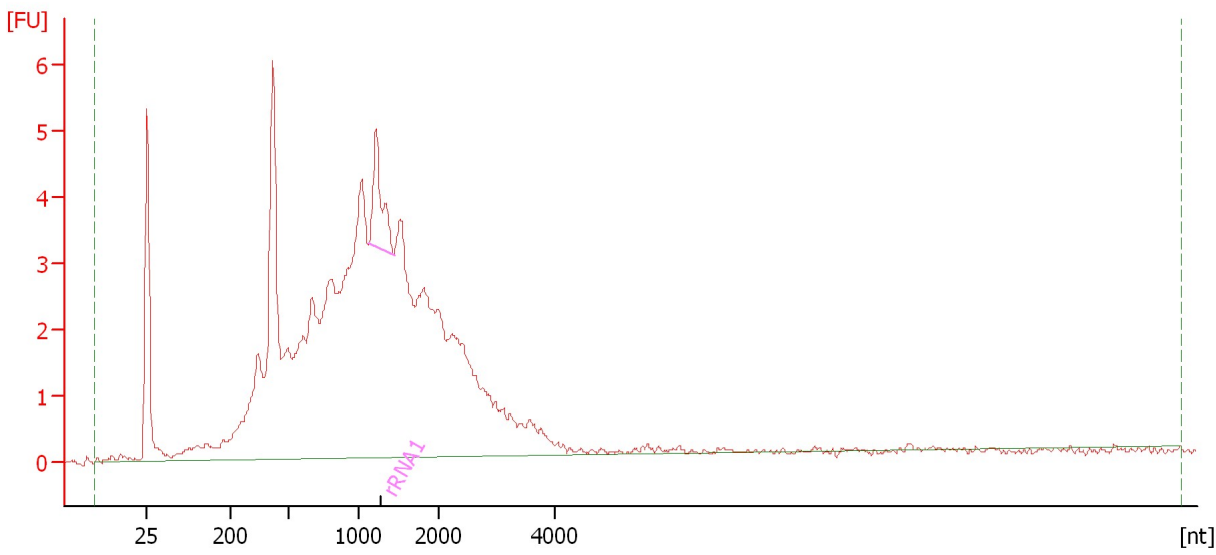
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|-------|-----------------|---------------|------|-----------------|
| rRNA1 | 1,140 | 1,305 | 1.4 | 1.4 |

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_003.xad

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Electropherogram Summary Continued ...

28: 9A [ribo depleted RNA]



Overall Results for sample 4 : 28: 9A

RNA Area: 124.8 rRNA Contamination: 2.6 %
RNA Concentration: 895 pg/μl

Fragment table for sample 4 : 28: 9A

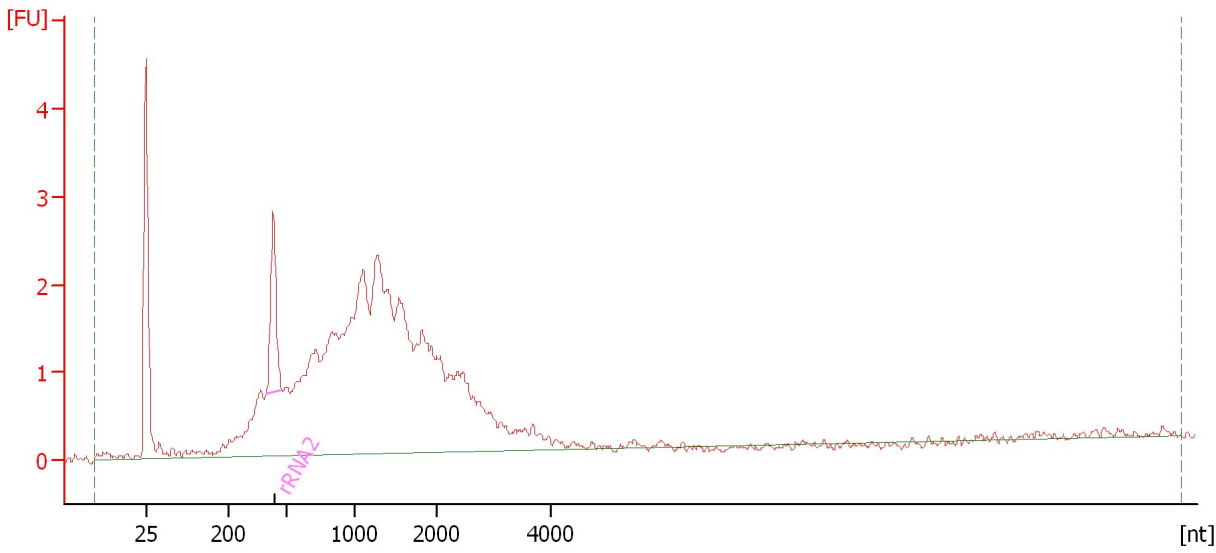
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|-------|-----------------|---------------|------|-----------------|
| rRNA1 | 1,131 | 1,436 | 3.2 | 2.6 |

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_003.xad

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Electropherogram Summary Continued ...

40: 13A [ribo depleted RNA]



Overall Results for sample 5 : 40: 13A

RNA Area: 62.2 rRNA Contamination: 4.8 %
RNA Concentration: 446 pg/μl

Fragment table for sample 5 : 40: 13A

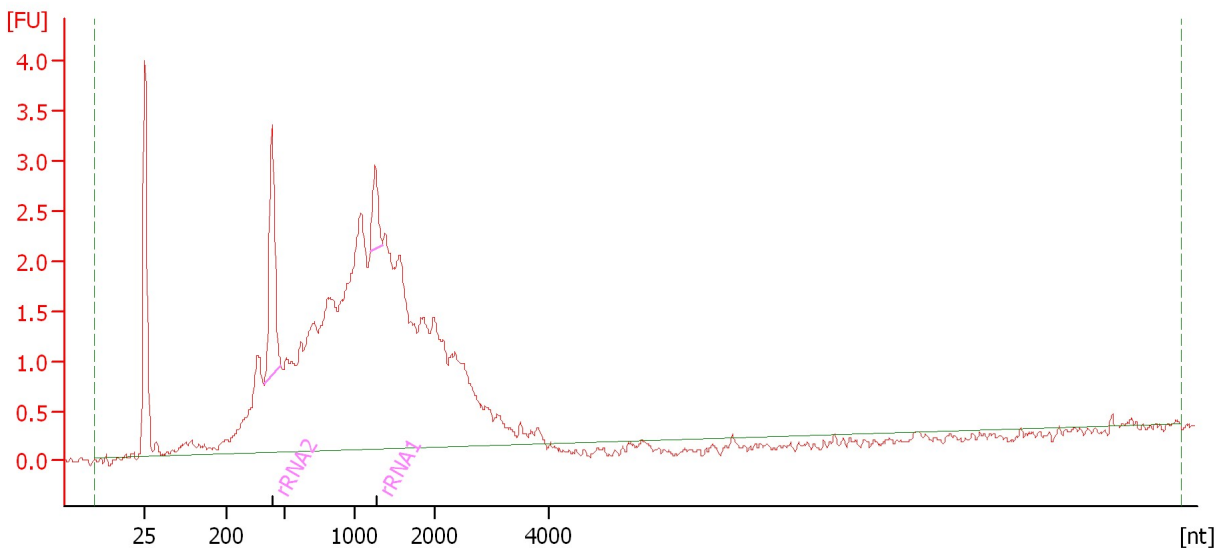
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|-------|-----------------|---------------|------|-----------------|
| rRNA2 | 396 | 478 | 3.0 | 4.8 |

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_003.xad

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Electropherogram Summary Continued ...

56: 17A [ribo depleted RNA]



Overall Results for sample 6 : 56: 17A

RNA Area: 65.3 rRNA Contamination: 7.2 %
RNA Concentration: 469 pg/μl

Fragment table for sample 6 : 56: 17A

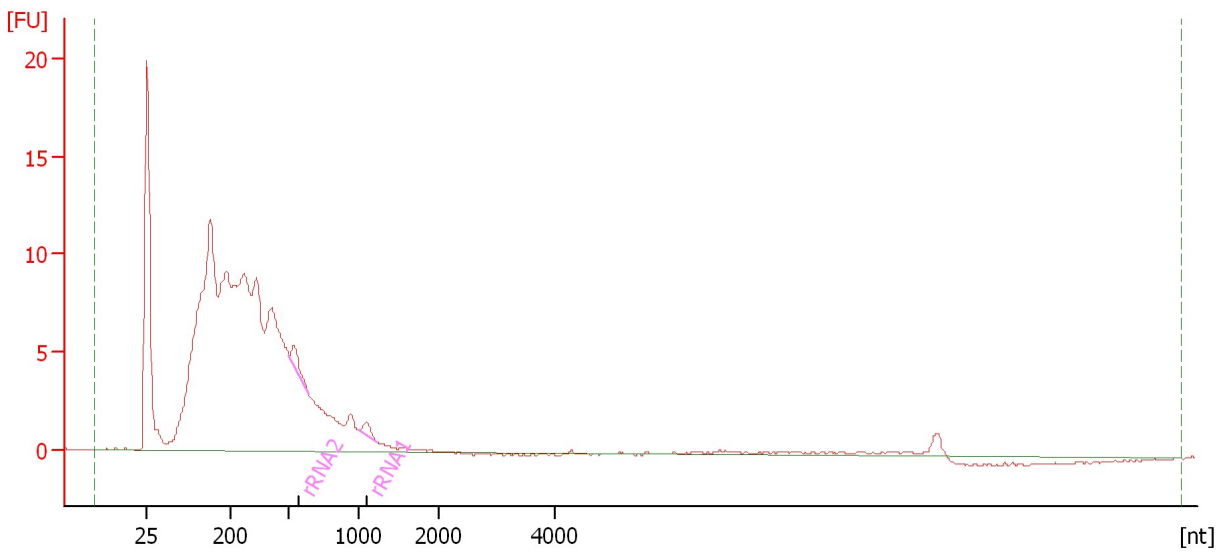
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|-------|-----------------|---------------|------|-----------------|
| rRNA2 | 393 | 480 | 3.7 | 5.7 |
| rRNA1 | 1,192 | 1,351 | 1.0 | 1.5 |

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_003.xad

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Electropherogram Summary Continued ...

SUC2 1



Overall Results for sample 7 : SUC2 1

RNA Area: 255.2 rRNA Contamination: 1.2 %
RNA Concentration: 1,831 pg/μl

Fragment table for sample 7 : SUC2 1

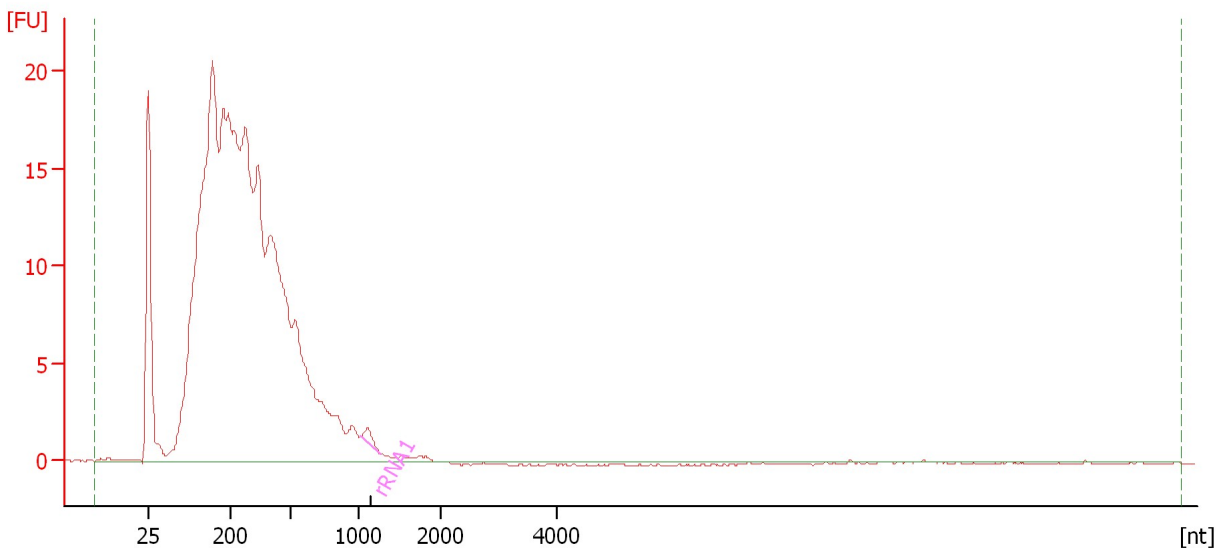
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|-------|-----------------|---------------|------|-----------------|
| rRNA2 | 505 | 642 | 2.1 | 0.8 |
| rRNA1 | 1,014 | 1,220 | 1.1 | 0.4 |

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Electropherogram Summary Continued ...

SUC2 2



Overall Results for sample 8 : SUC2 2

RNA Area: 428.2 rRNA Contamination: 0.3 %
RNA Concentration: 3,072 pg/μl

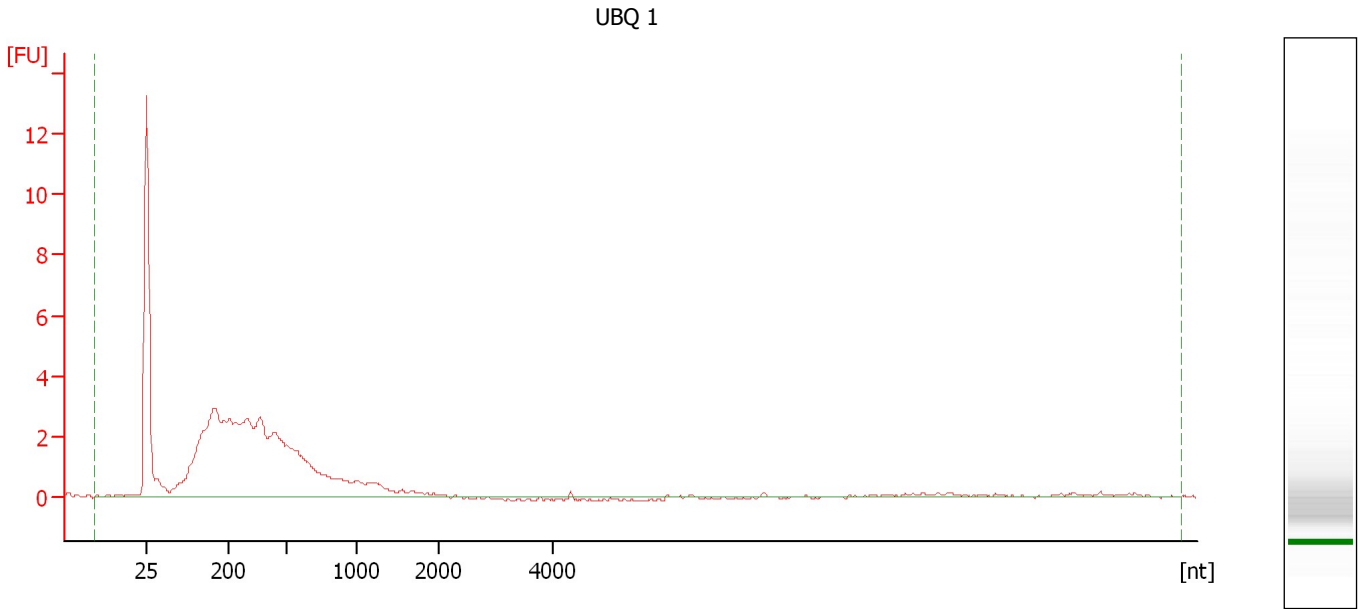
Fragment table for sample 8 : SUC2 2

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|-------|-----------------|---------------|------|-----------------|
| rRNA1 | 1,017 | 1,252 | 1.3 | 0.3 |

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Electropherogram Summary Continued ...



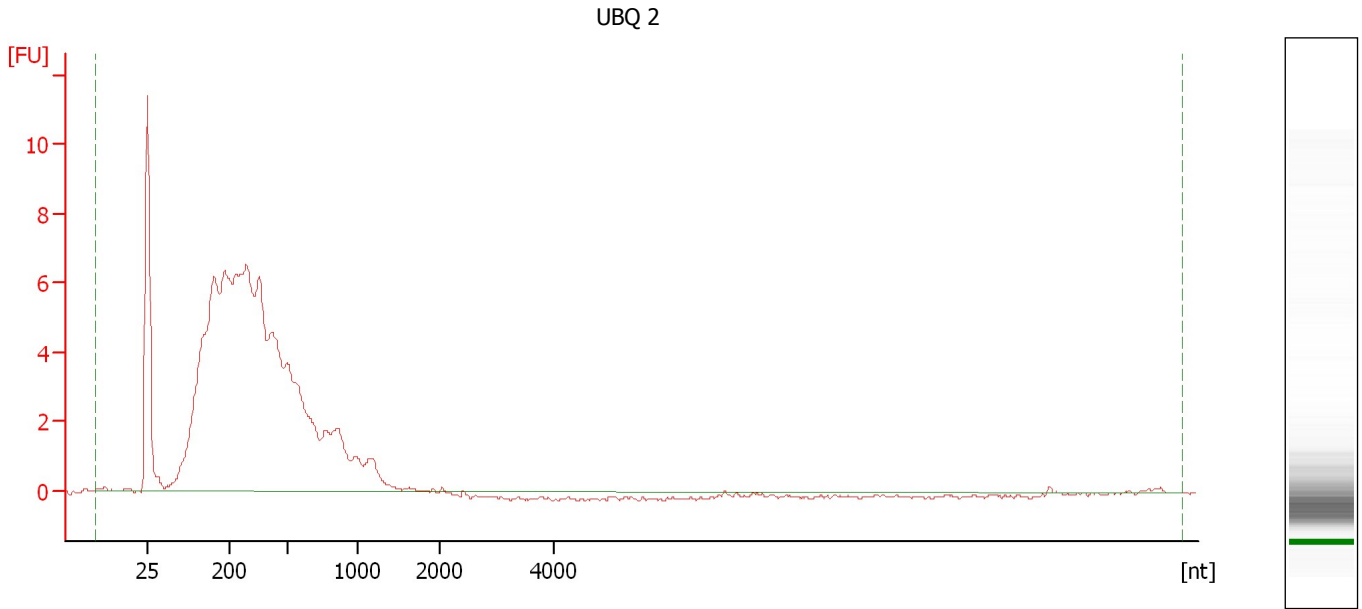
Overall Results for sample 9 : UBQ 1

| | | | |
|--------------------|-----------|---------------------|-------|
| RNA Area: | 79.7 | rRNA Contamination: | 0.0 % |
| RNA Concentration: | 572 pg/μl | | |

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Electropherogram Summary Continued ...



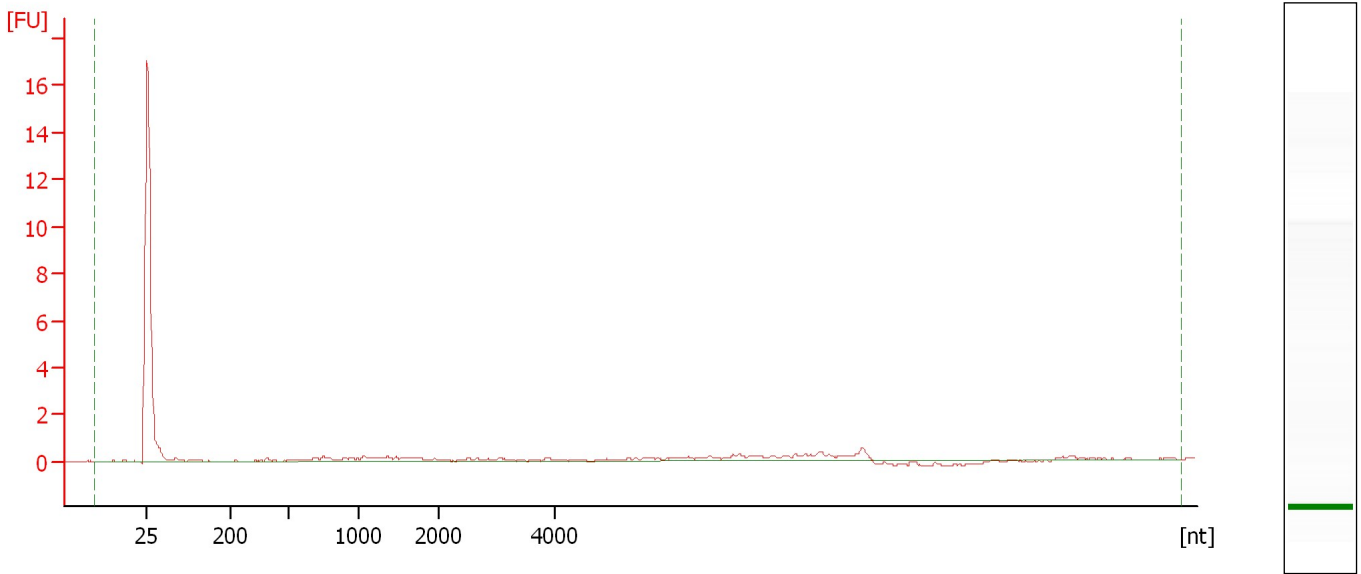
Overall Results for sample 10 : UBQ 2

| | | | |
|--------------------|-------------------|---------------------|-------|
| RNA Area: | 162.7 | rRNA Contamination: | 0.0 % |
| RNA Concentration: | 1,168 pg/ μ l | | |

Assay Class: mRNA Pico
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Electropherogram Summary Continued ...



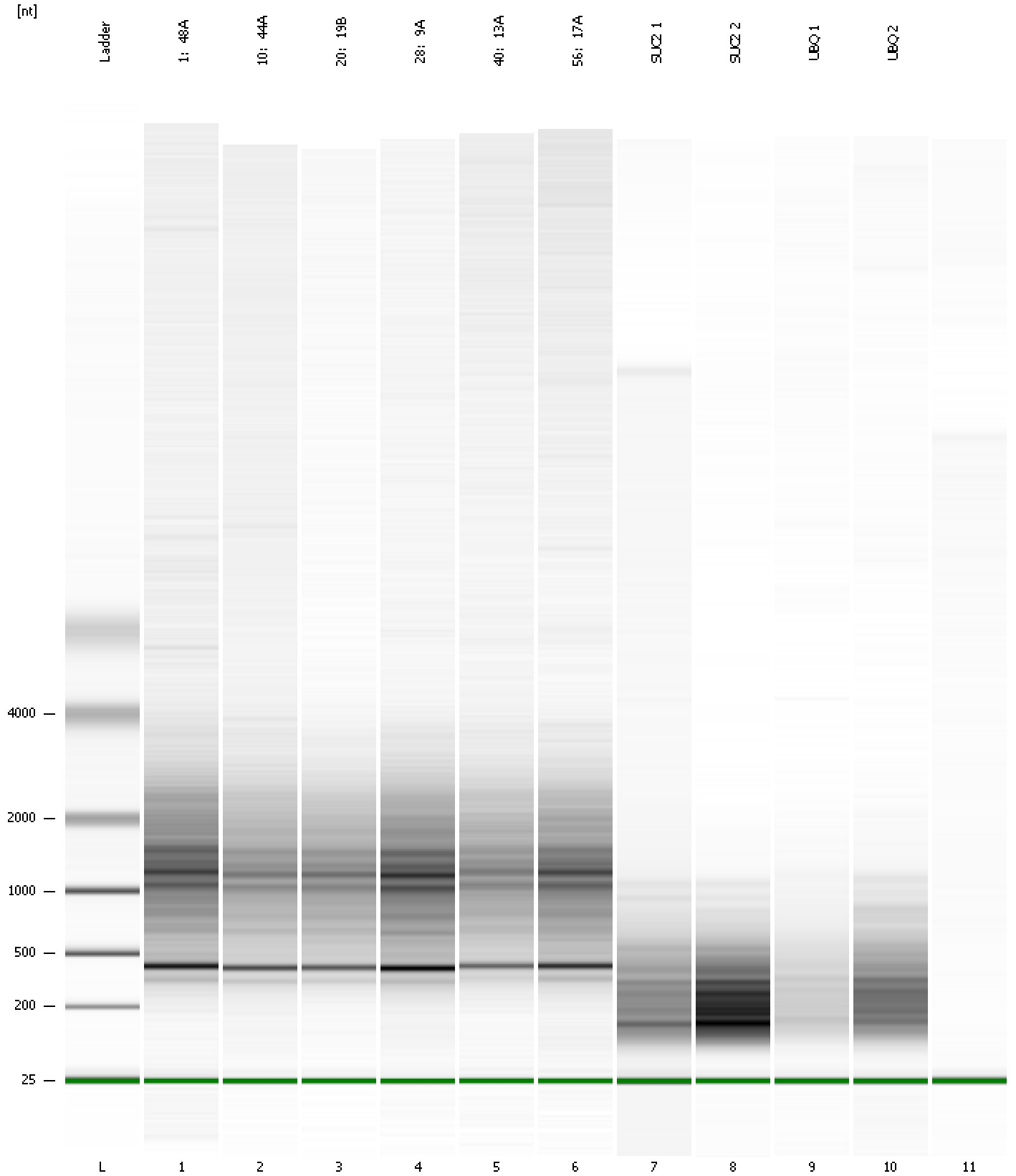
Overall Results for sample 11 :

| | | | |
|--------------------|----------------|---------------------|-------|
| RNA Area: | 8.9 | rRNA Contamination: | 0.0 % |
| RNA Concentration: | 64 pg/ μ l | | |

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Gel Image

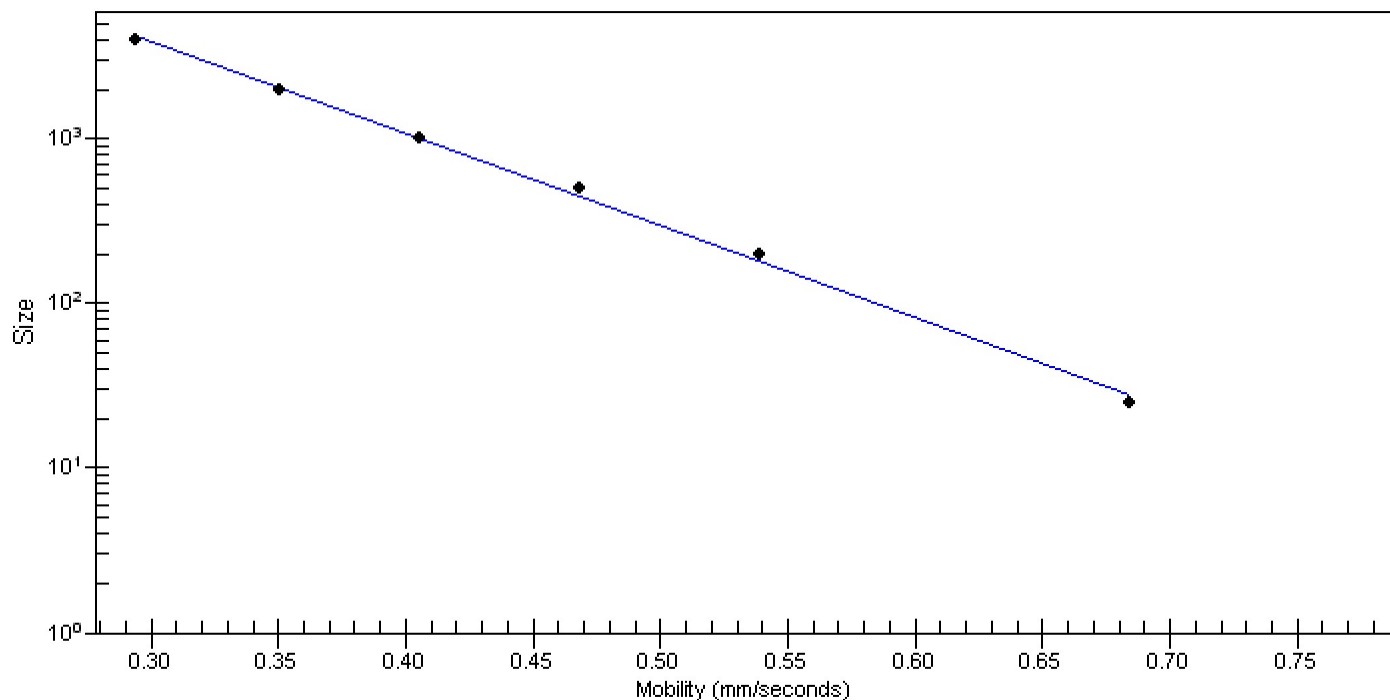


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_003.xad

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Curves

Standard Curve



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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 | | 4/19/2016 4:52:32 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_003.xad) | | Instrument | Run | | 4/19/2016 4:26:44 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 4/19/2016 4:26:44 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 4/19/2016 4:26:44 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 4/19/2016 4:26:44 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 4/19/2016 4:26:44 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 4/19/2016 4:26:44 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 4/19/2016 4:26:44 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |