| | | |
|---|---|---|
| Assay Class: | mRNA Pico | Created:   11/4/2015 11:05:56 AM |
| Data Path: | C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad | Modified:   11/4/2015 11:31:52 AM |

**Electrophoresis File Run Summary**

Instrument Information:

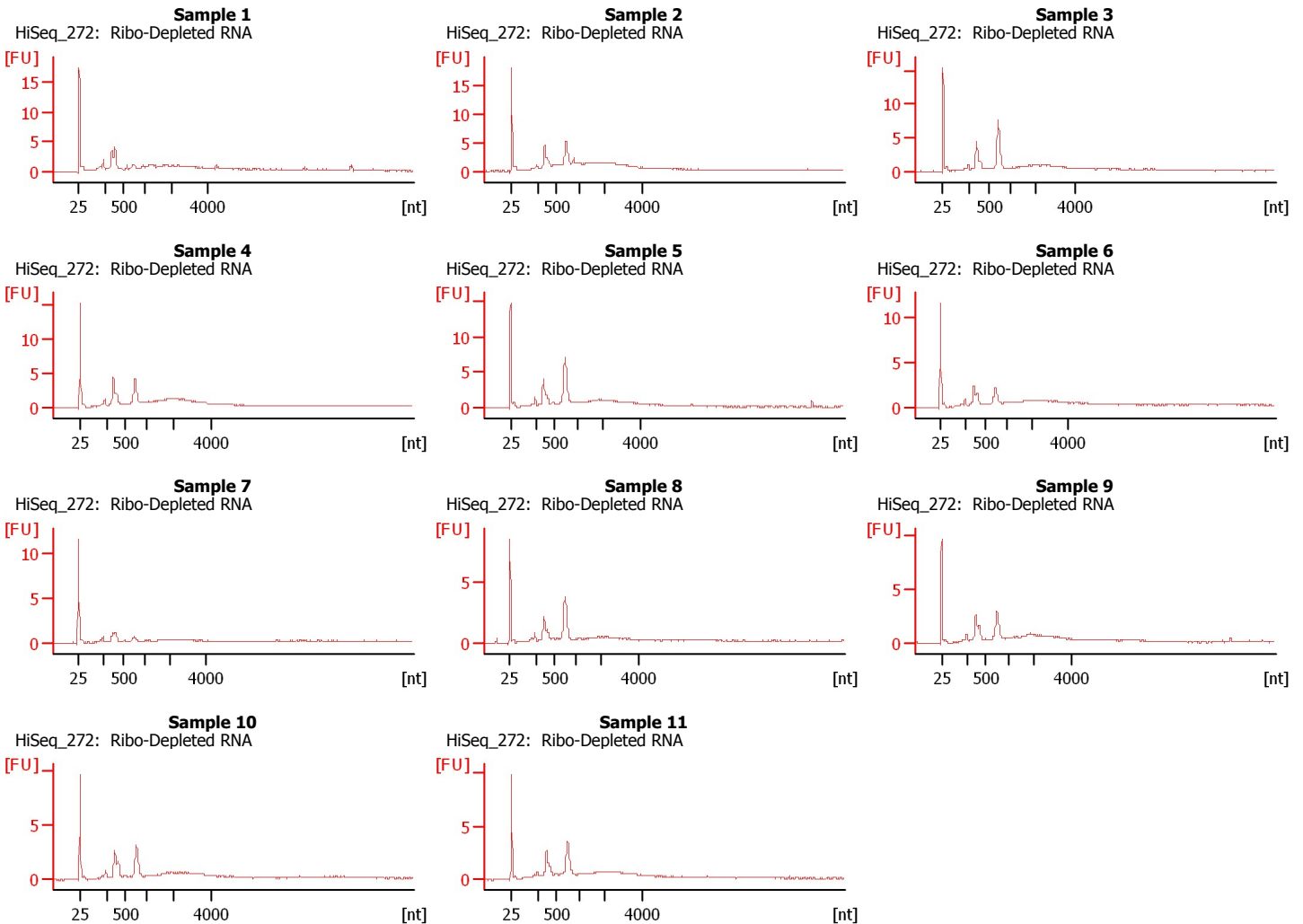| | | | |
|---|---|---|---|
| Instrument Name: | DE13701086 | Firmware: | C.01.069 |
| Serial#: | DE13701086 | Type: | G2938B |

Assay Information:

Assay Origin Path:    C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\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:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad

Created: 11/4/2015 11:05:56 AM
Modified: 11/4/2015 11:31:52 AM

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

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|---|---|---|---|---|
| Sample 1 | HiSeq_272: Ribo-Depleted RNA | ✔ | | |
| Sample 2 | HiSeq_272: Ribo-Depleted RNA | ✔ | | |
| Sample 3 | HiSeq_272: Ribo-Depleted RNA | ✔ | | |
| Sample 4 | HiSeq_272: Ribo-Depleted RNA | ✔ | | |
| Sample 5 | HiSeq_272: Ribo-Depleted RNA | ✔ | | |
| Sample 6 | HiSeq_272: Ribo-Depleted RNA | ✔ | | |
| Sample 7 | HiSeq_272: Ribo-Depleted RNA | ✔ | | |
| Sample 8 | HiSeq_272: Ribo-Depleted RNA | ✔ | | |
| Sample 9 | HiSeq_272: Ribo-Depleted RNA | ✔ | | |
| Sample 10 | HiSeq_272: Ribo-Depleted RNA | ✔ | | |
| Sample 11 | HiSeq_272: Ribo-Depleted RNA | ✔ | | |
| Ladder | | ✔ | | |

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class:        mRNA Pico                                                      Created:    11/4/2015 11:05:56 AM
Data Path:          C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad          Modified:   11/4/2015 11:31:52 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/µl] : 1000
Lower Marker Concentration [pg/µl] : 0
Upper Marker Concentration [pg/µl] : 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**

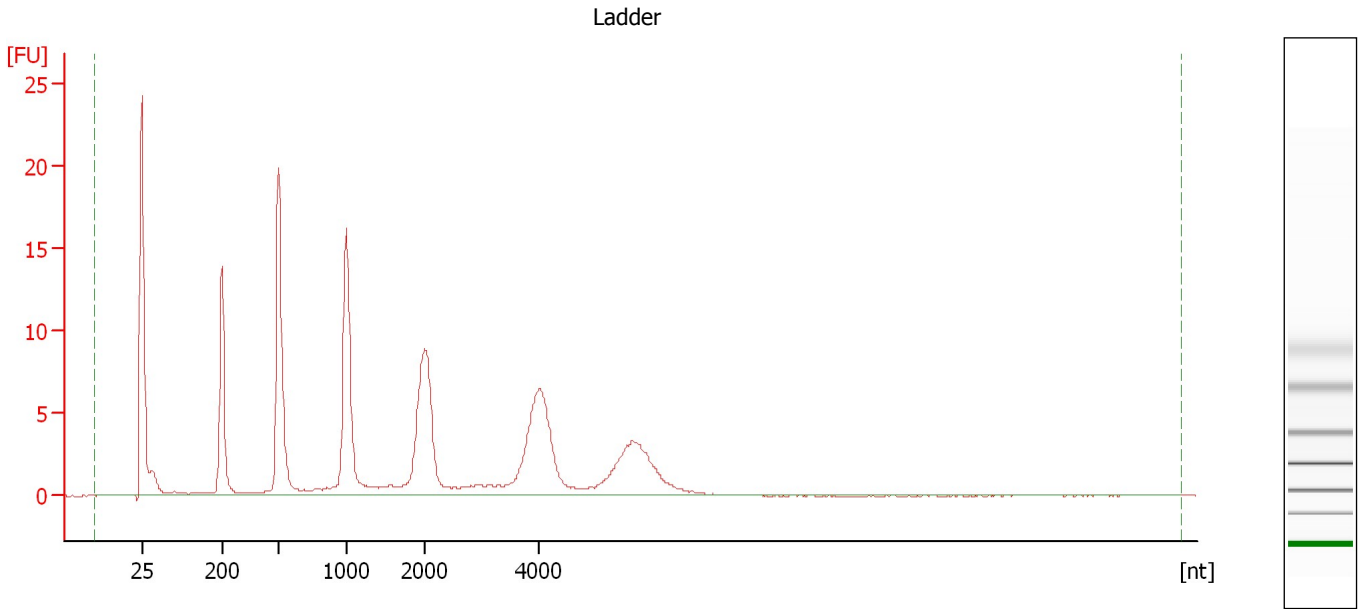Filter Width [s] : 0.5
Polynomial Order : 4

**Ladder**

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

Assay Class:     mRNA Pico                                                          Created:    11/4/2015 11:05:56 AM
Data Path:       C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad   Modified:   11/4/2015 11:31:52 AM

**Electropherogram Summary**



Ladder

**Overall Results for Ladder**
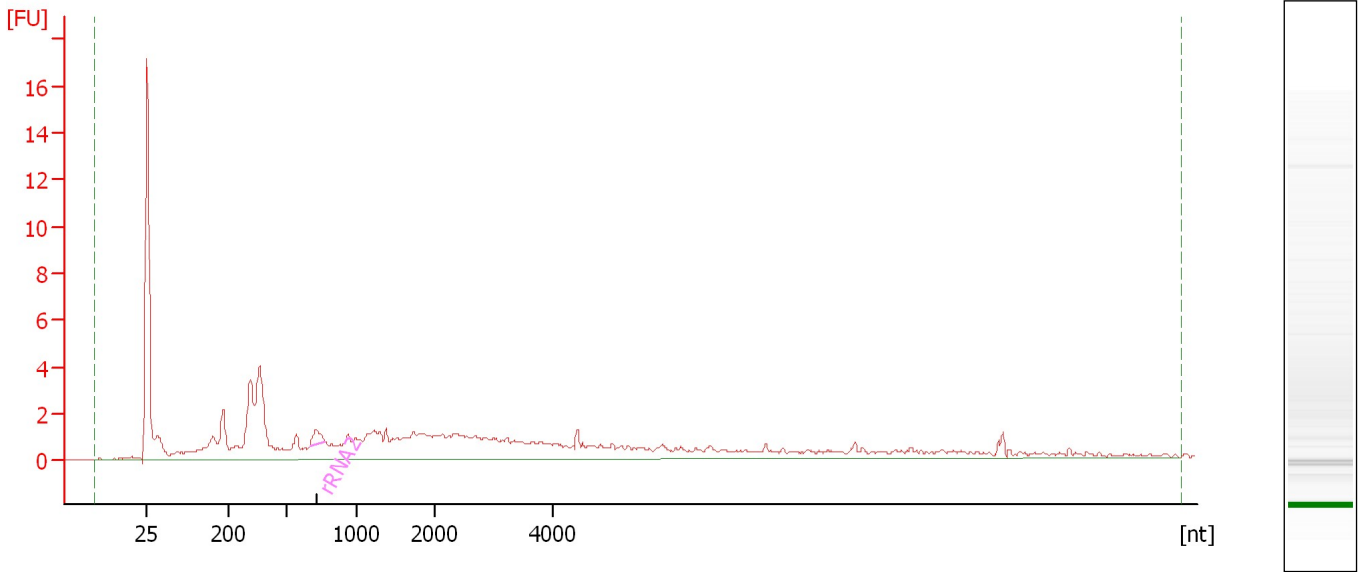
RNA Area:               172.7                    RNA Concentration:          1,000 pg/µl

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad

Created: 11/4/2015 11:05:56 AM
Modified: 11/4/2015 11:31:52 AM

**Electropherogram Summary Continued ...**

Sample 1 [ HiSeq_272: Ribo-Depleted RNA ]



**Overall Results for sample 1 :    Sample 1**

RNA Area: 92.4
RNA Concentration: 535 pg/µl

rRNA Contamination: 1.1 %

**Fragment table for sample 1 :    Sample 1**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| rRNA2 | 666 | 776 | 1.1 | 1.1 |

Assay Class:      mRNA Pico                                                          Created:    11/4/2015 11:05:56 AM
Data Path:        C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad   Modified:   11/4/2015 11:31:52 AM

**Electropherogram Summary Continued ...**

Sample 2  [ HiSeq_272:  Ribo-Depleted RNA ]
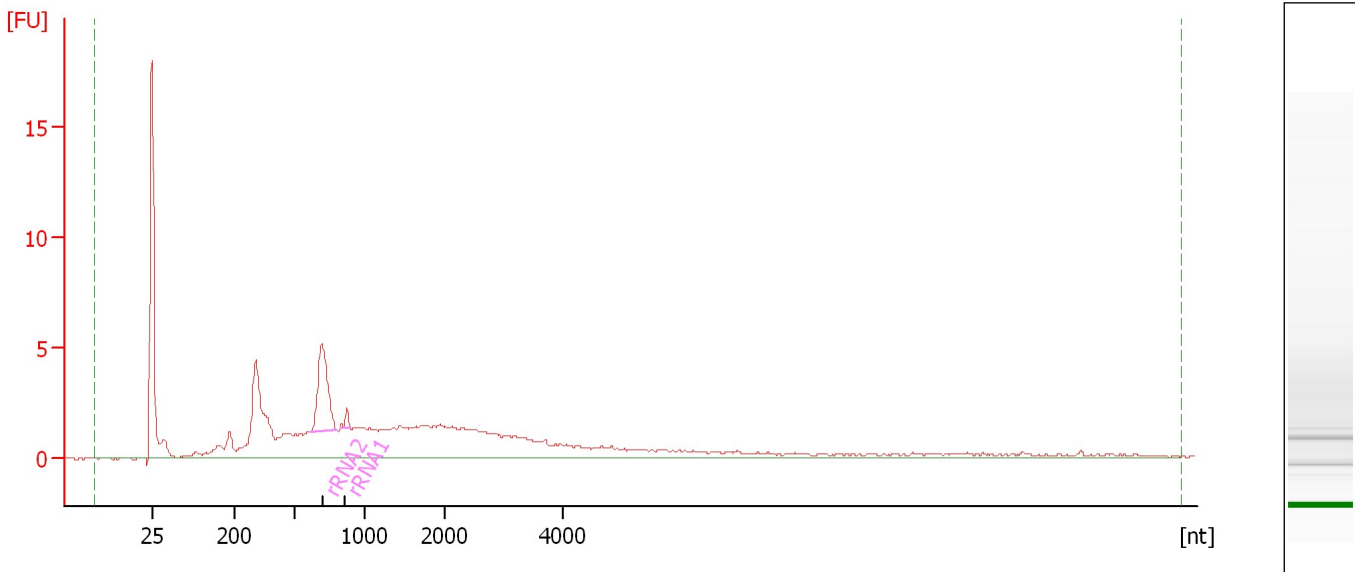


**Overall Results for sample 2  :      Sample 2**

RNA Area:                    106.5                   rRNA Contamination:          9.3 %
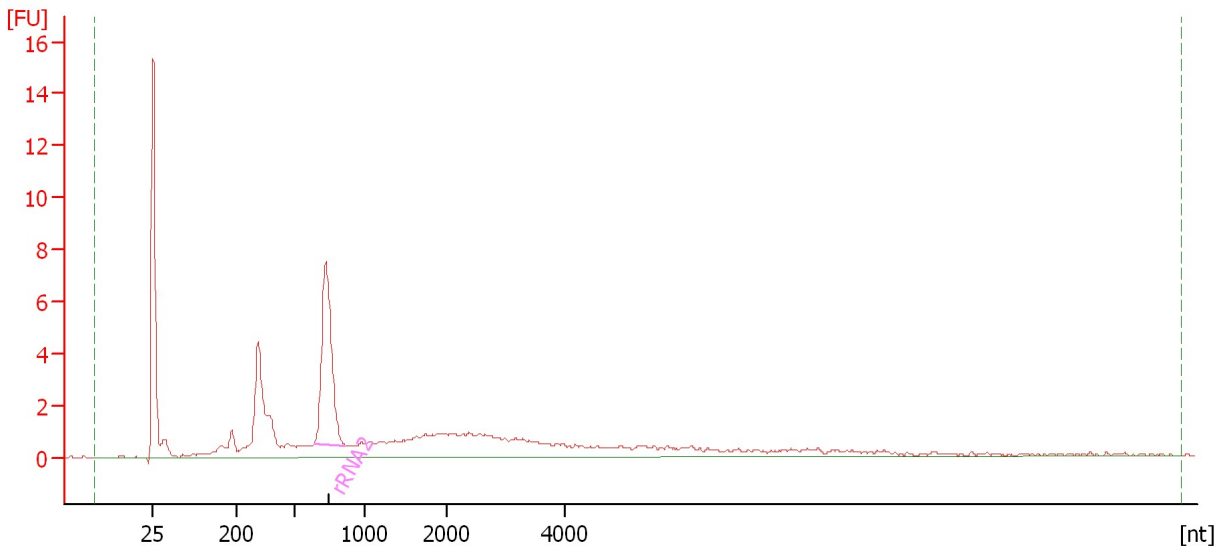RNA Concentration:           617 pg/µl


**Fragment table for sample 2  :      Sample 2**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| rRNA2 | 625 | 807 | 9.2 | 8.6 |
| rRNA1 | 830 | 898 | 0.7 | 0.7 |

Assay Class:      mRNA Pico                                           Created:    11/4/2015 11:05:56 AM
Data Path:        C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad    Modified:   11/4/2015 11:31:52 AM

**Electropherogram Summary Continued ...**

Sample 3  [ HiSeq_272:  Ribo-Depleted RNA ]



**Overall Results for sample 3  :      Sample 3**

RNA Area:               81.3                    rRNA Contamination:         20.0 %
RNA Concentration:      471 pg/µl
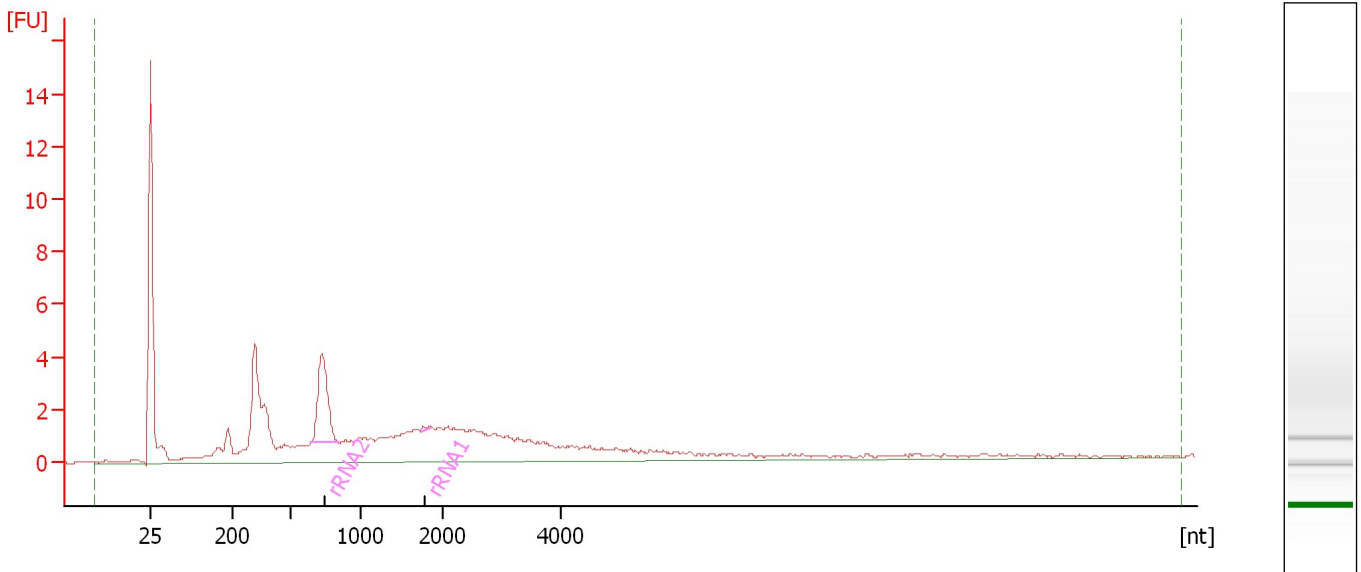
**Fragment table for sample 3  :      Sample 3**

| Name  | Start Size [nt] | End Size [nt] | Area | % of total Area |
|-------|-----------------|---------------|------|-----------------|
| rRNA2 | 639             | 855           | 16.3 | 20.0            |

**Electropherogram Summary Continued ...**

Sample 4  [ HiSeq_272:  Ribo-Depleted RNA ]



**Overall Results for sample 4  :      Sample 4**

| | | | |
|---|---|---|---|
| RNA Area: | 86.6 | rRNA Contamination: | 9.2 % |
| RNA Concentration: | 502 pg/µl | | |

**Fragment table for sample 4  :      Sample 4**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|---|---|---|---|---|
| rRNA2 | 642 | 831 | 7.9 | 9.1 |
| rRNA1 | 1,729 | 1,857 | 0.1 | 0.1 |

Assay Class:       mRNA Pico                                              Created:    11/4/2015 11:05:56 AM
Data Path:         C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad          Modified:   11/4/2015 11:31:52 AM

**Electropherogram Summary Continued ...**

Sample 5  [ HiSeq_272:  Ribo-Depleted RNA ]
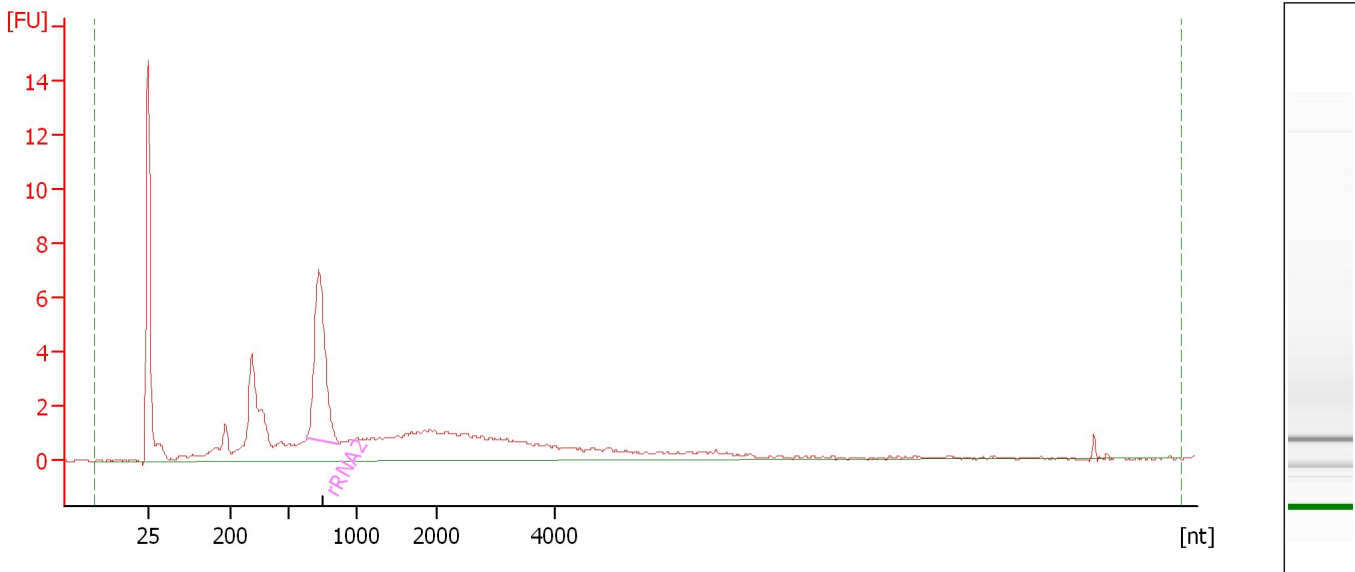


**Overall Results for sample 5  :**      **Sample 5**

RNA Area:                   86.1                    rRNA Contamination:           18.8 %
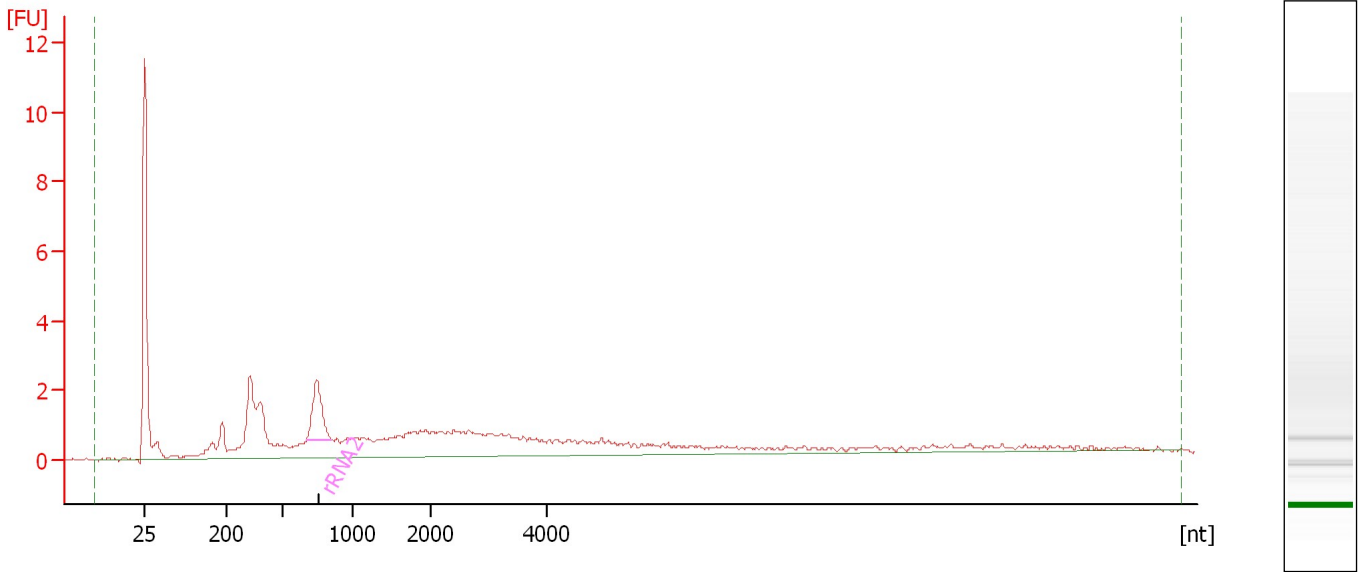RNA Concentration:          499 pg/µl


**Fragment table for sample 5  :**      **Sample 5**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| rRNA2 | 634 | 864 | 16.2 | 18.8 |

## Electropherogram Summary Continued ...

Sample 6  [ HiSeq_272:  Ribo-Depleted RNA ]



### Overall Results for sample 6  :      Sample 6

| | | | |
|---|---|---|---|
| RNA Area: | 57.6 | rRNA Contamination: | 6.8 % |
| RNA Concentration: | 334 pg/µl | | |

### Fragment table for sample 6  :      Sample 6

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|---|---|---|---|---|
| rRNA2 | 669 | 850 | 3.9 | 6.8 |

Assay Class:      mRNA Pico                                                                Created:    11/4/2015 11:05:56 AM
Data Path:        C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad        Modified:   11/4/2015 11:31:52 AM

**Electropherogram Summary Continued ...**

Sample 7  [ HiSeq_272:  Ribo-Depleted RNA ]
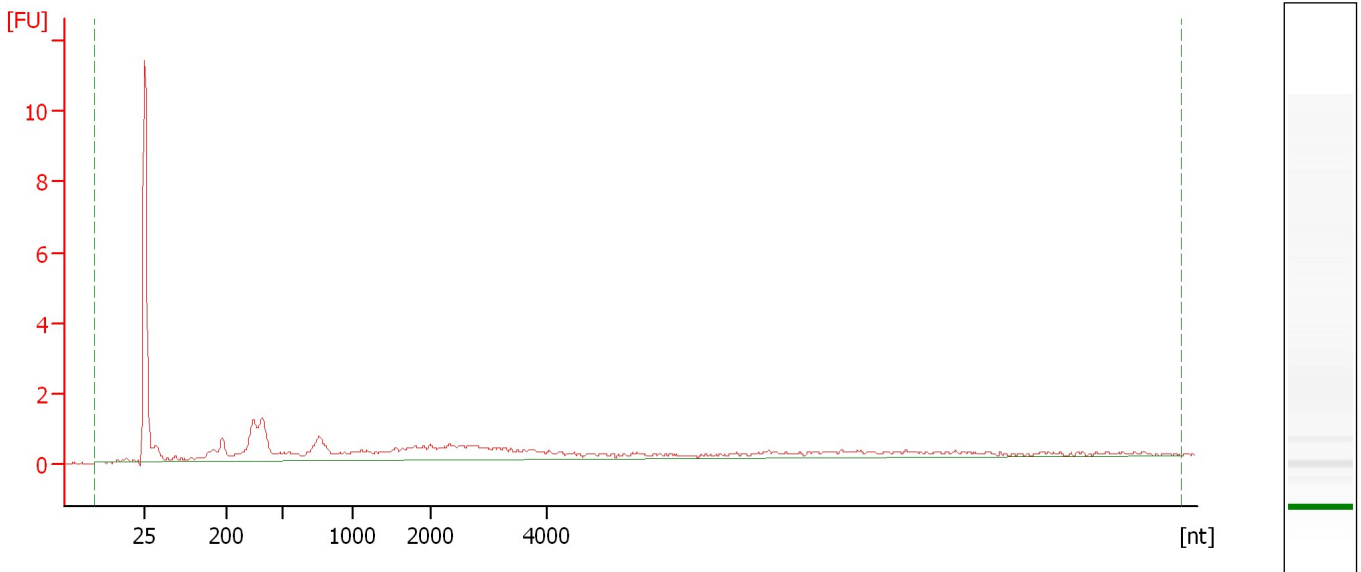


**Overall Results for sample 7  :      Sample 7**
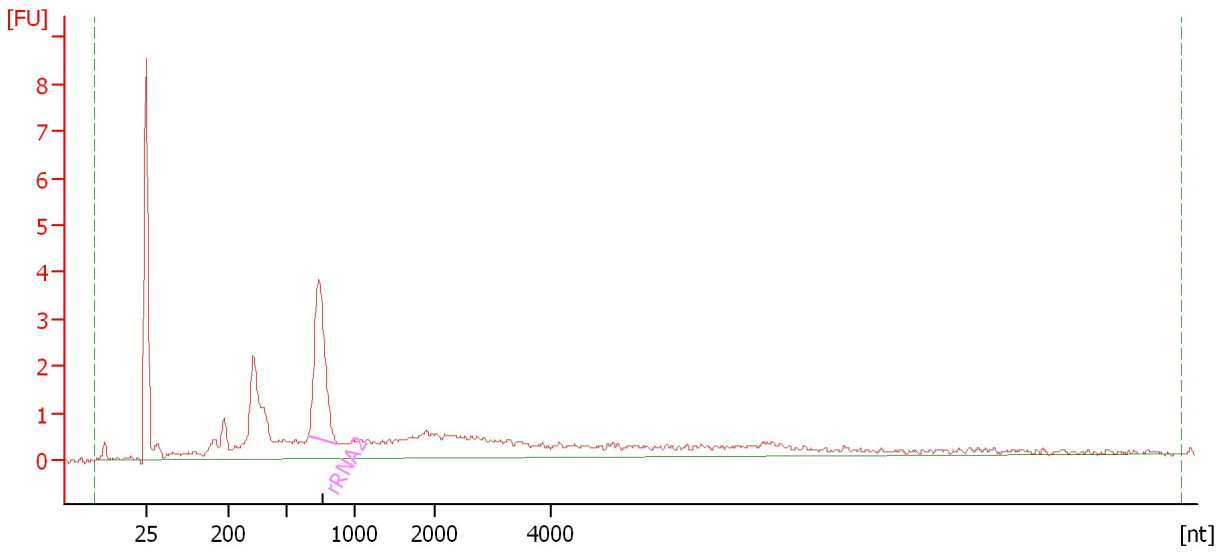
RNA Area:                    34.3                    rRNA Contamination:           0.0 %
RNA Concentration:           199 pg/µl

Assay Class:     mRNA Pico                                           Created:   11/4/2015 11:05:56 AM
Data Path:       C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad     Modified:  11/4/2015 11:31:52 AM

**Electropherogram Summary Continued ...**

Sample 8  [ HiSeq_272:  Ribo-Depleted RNA ]



**Overall Results for sample 8  :      Sample 8**

RNA Area:                    51.8                  rRNA Contamination:            16.6 %
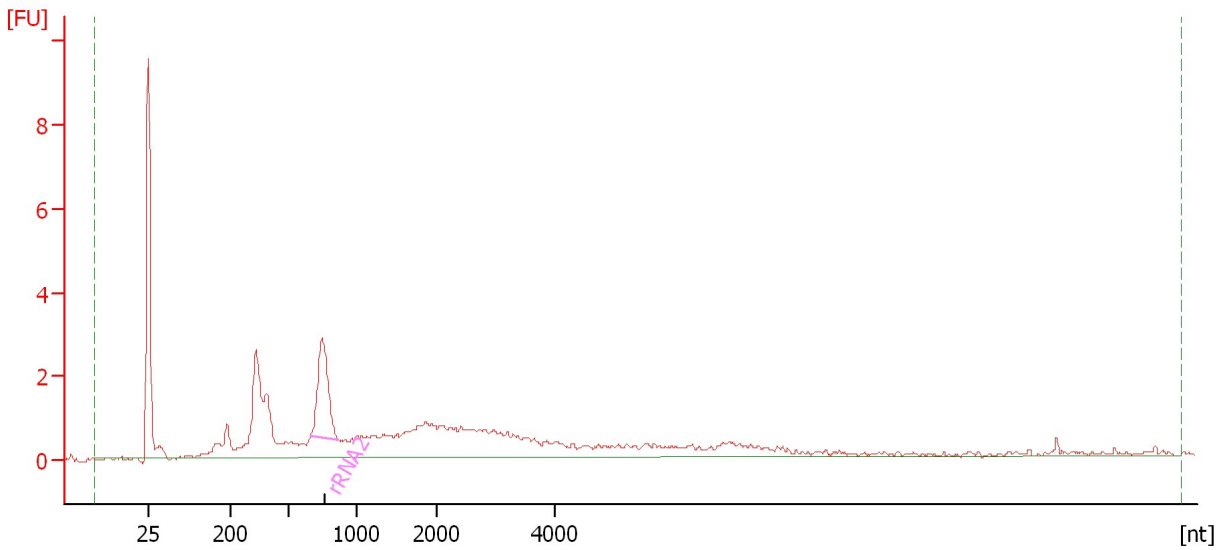RNA Concentration:           300 pg/µl

**Fragment table for sample 8  :      Sample 8**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| rRNA2 | 663 | 872 | 8.6 | 16.6 |

| | | |
|---|---|---|
| Assay Class: | mRNA Pico | Created:   11/4/2015 11:05:56 AM |
| Data Path: | C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad | Modified:   11/4/2015 11:31:52 AM |

**Electropherogram Summary Continued ...**

Sample 9  [ HiSeq_272:  Ribo-Depleted RNA ]



**Overall Results for sample 9  :       Sample 9**

| | | | |
|---|---|---|---|
| RNA Area: | 53.9 | rRNA Contamination: | 10.8 % |
| RNA Concentration: | 312 pg/µl | | |

**Fragment table for sample 9  :       Sample 9**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|---|---|---|---|---|
| rRNA2 | 663 | 864 | 5.8 | 10.8 |

**Electropherogram Summary Continued ...**

Sample 10  [ HiSeq_272:  Ribo-Depleted RNA ]



**Overall Results for sample 10  :      Sample 10**

RNA Area:                50.8                    rRNA Contamination:          13.9 %
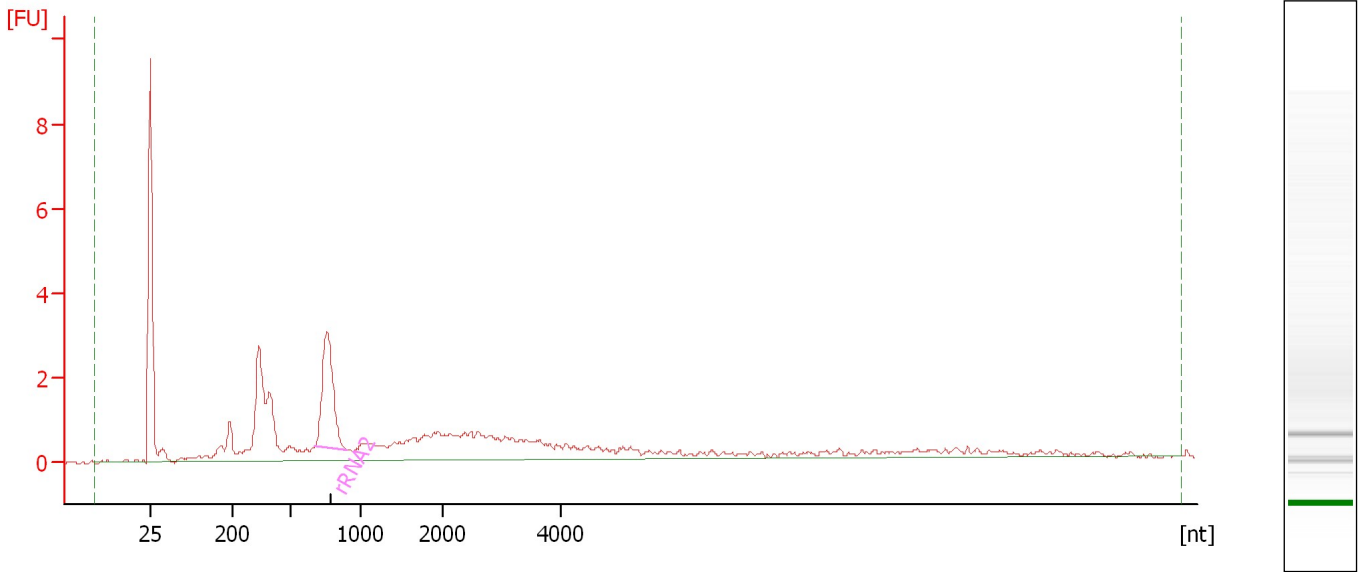RNA Concentration:       294 pg/µl
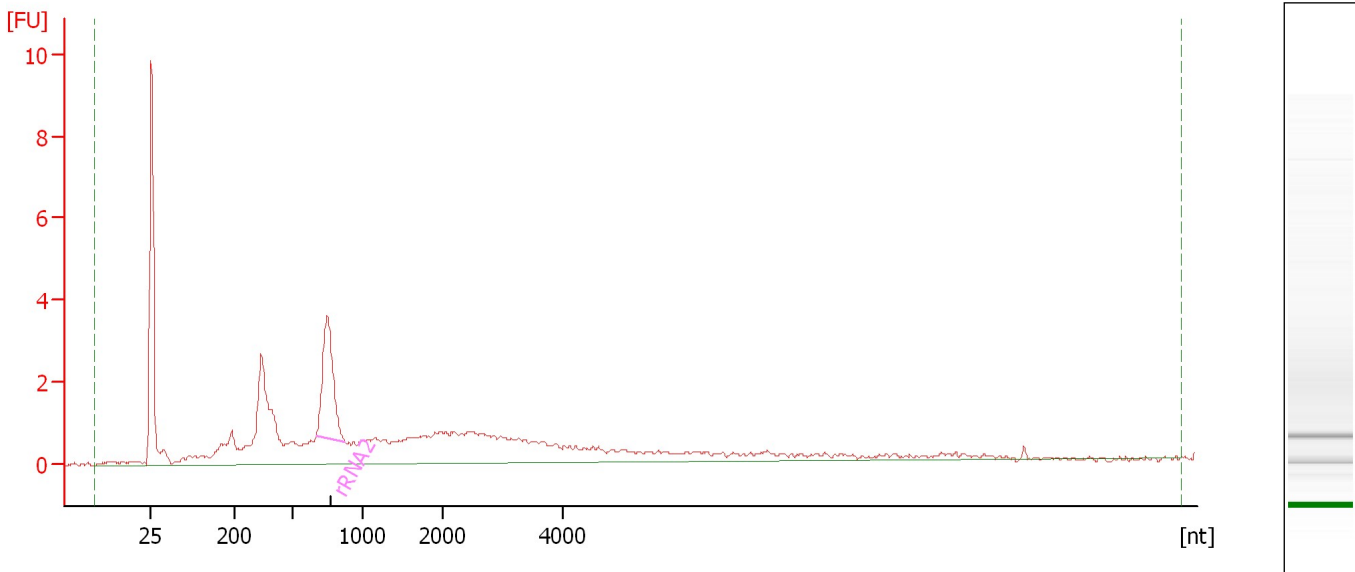
**Fragment table for sample 10  :      Sample 10**

| Name  | Start Size [nt] | End Size [nt] | Area | % of total Area |
|-------|-----------------|---------------|------|-----------------|
| rRNA2 | 671             | 888           | 7.0  | 13.9            |

**Electropherogram Summary Continued ...**

Sample 11  [ HiSeq_272:  Ribo-Depleted RNA ]



**Overall Results for sample 11  :      Sample 11**

| | | | |
|---|---|---|---|
| RNA Area: | 62.0 | rRNA Contamination: | 12.0 % |
| RNA Concentration: | 359 pg/µl | | |

**Fragment table for sample 11  :      Sample 11**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|---|---|---|---|---|
| rRNA2 | 668 | 873 | 7.4 | 12.0 |

Printed:   11/4/2015 12:06:58 PM

| Assay Class: | mRNA Pico | | Created: | 11/4/2015 11:05:56 AM |
| Data Path: | C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad | | Modified: | 11/4/2015 11:31:52 AM |

**Gel Image**

Assay Class:     mRNA Pico                                                                                         Created:    11/4/2015 11:05:56 AM
Data Path:       C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad              Modified:   11/4/2015 11:31:52 AM

**Curves**

**Standard Curve**

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad

Created: 11/4/2015 11:05:56 AM
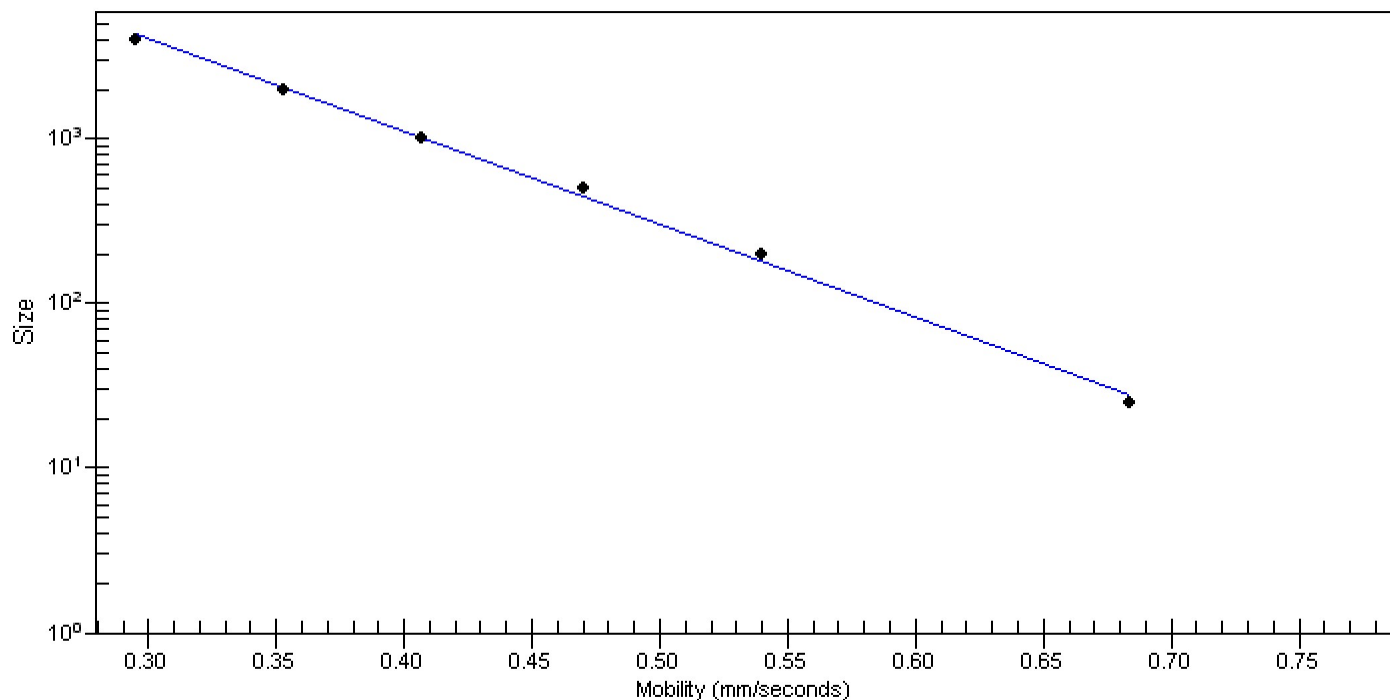Modified: 11/4/2015 11:31:52 AM

**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 | | 11/4/2015 9:31:51 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-04\2015-11-04_001.xad) | | Instrument | Run | | 11/4/2015 9:06:01 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 11/4/2015 9:06:01 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 11/4/2015 9:06:01 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 11/4/2015 9:06:01 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 11/4/2015 9:06:01 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 11/4/2015 9:06:01 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 11/4/2015 9:06:01 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |