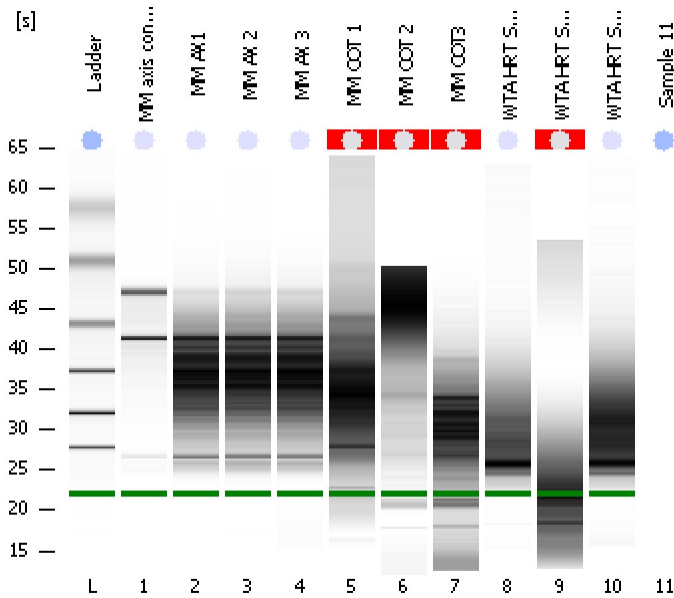


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
Modified: 4/24/2013 3:00:09 PM

Electrophoresis File Run Summary



Instrument Information:

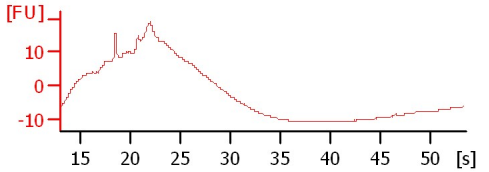
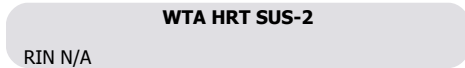
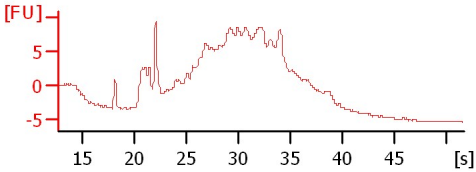
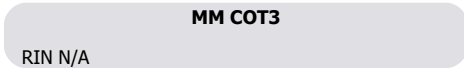
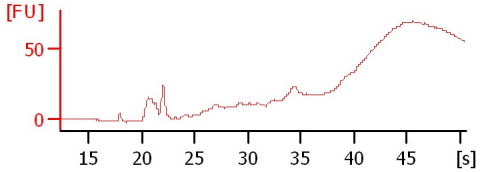
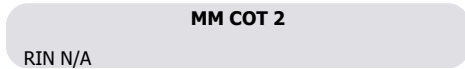
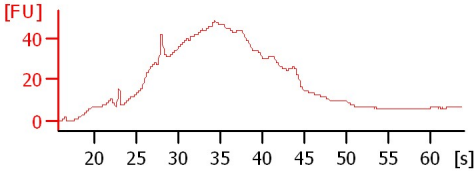
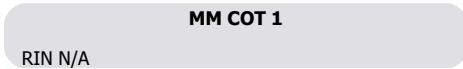
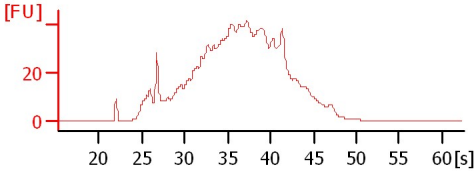
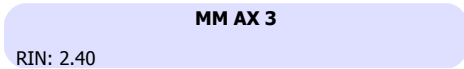
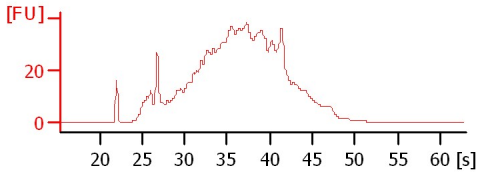
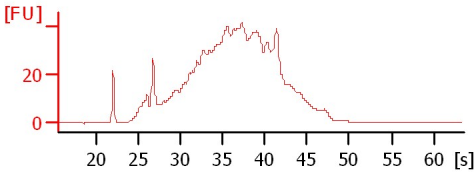
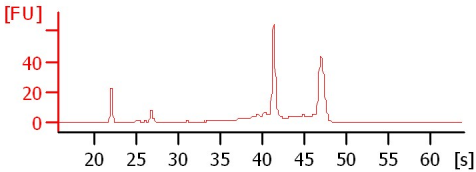
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
 Modified: 4/24/2013 3:00:09 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|-----------------|----------------|--------|-------------------|--------------|
| MM axis control | | ✓ | RIN:8 | |
| MM AX1 | | ✓ | RIN: 2.70 | |
| MM AX 2 | | ✓ | RIN: 2.50 | |
| MM AX 3 | | ✓ | RIN: 2.40 | |
| MM COT 1 | | ✓ | RIN N/A | |
| MM COT 2 | | ✓ | RIN N/A | |
| MM COT3 | | ✓ | RIN N/A | |
| WTA HRT SUS-1 | | ✓ | RIN:2 | |
| WTA HRT SUS-2 | | ✓ | RIN N/A | |
| WTA HRT SUS-3 | | ✓ | RIN: 1.90 | |
| Sample 11 | | | | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
Modified: 4/24/2013 3:00:09 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
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] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

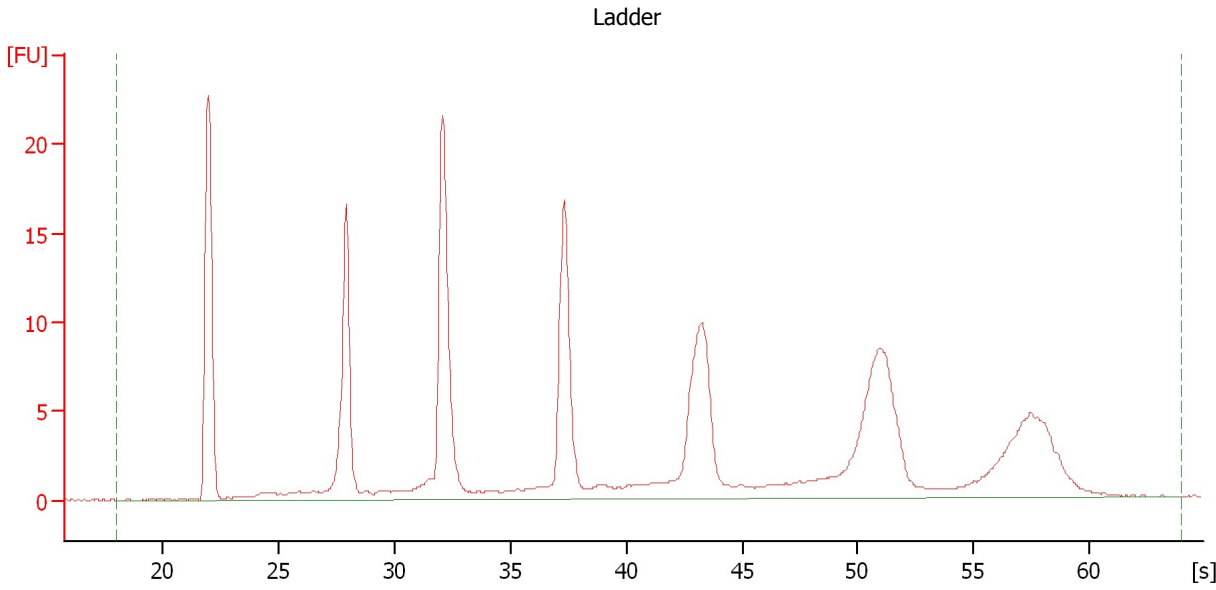
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
Modified: 4/24/2013 3:00:09 PM

Electropherogram Summary



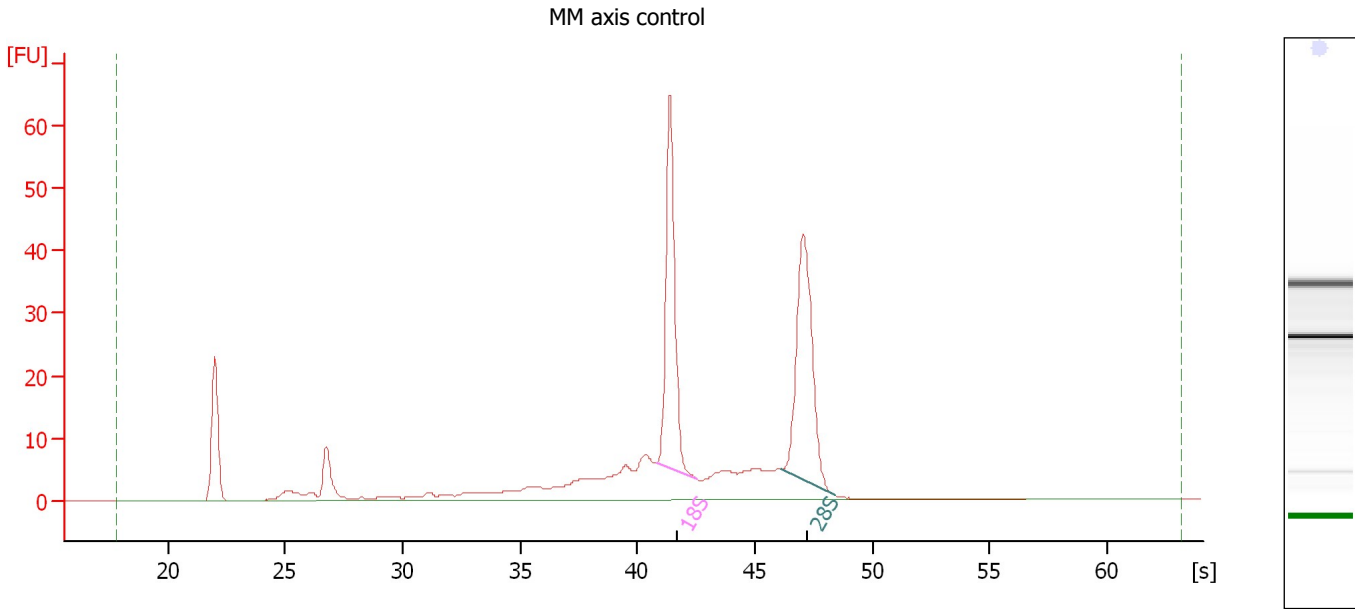
Overall Results for Ladder

| | | | |
|--------------------|-------------|------------------------|---|
| RNA Area: | 185.5 | Result Flagging Color: | |
| RNA Concentration: | 1,000 pg/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
 Modified: 4/24/2013 3:00:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : MM axis control

RNA Area: 292.1 RNA Integrity Number (RIN): 8 (B.02.08)
 RNA Concentration: 1,575 pg/μl Result Flagging Color:
 rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN:8

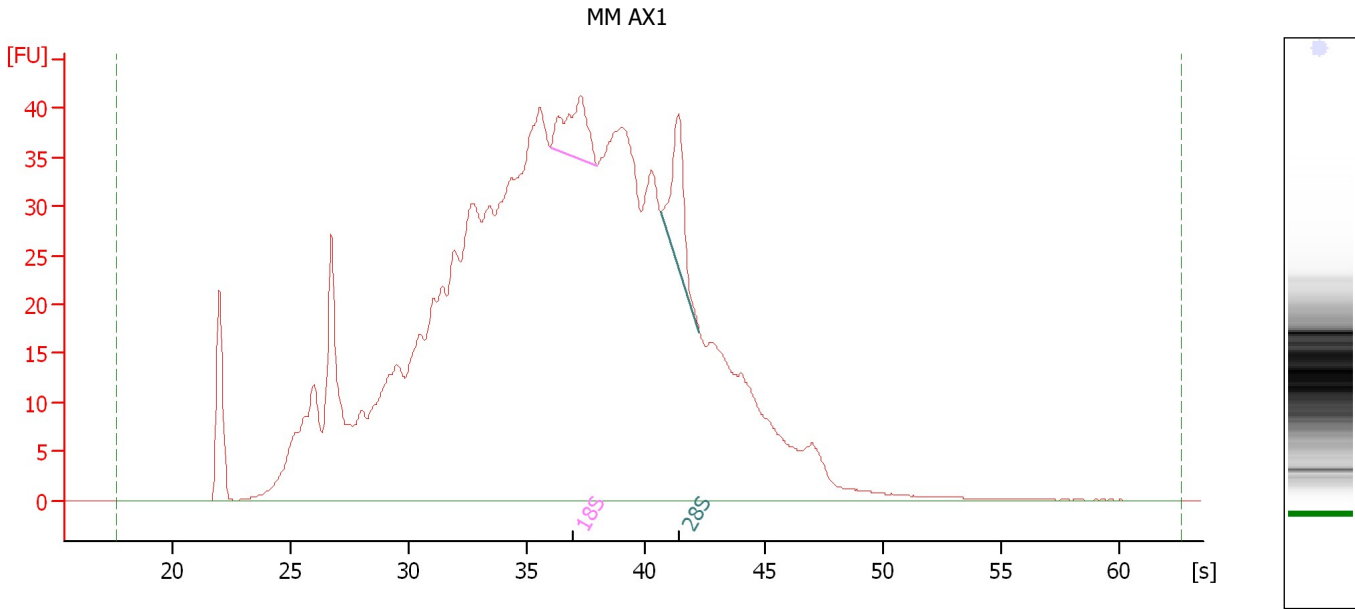
Fragment table for sample 1 : MM axis control

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 40.80 | 42.49 | 63.3 | 21.7 |
| 28S | 46.06 | 48.44 | 64.9 | 22.2 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
Modified: 4/24/2013 3:00:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : MM AX1

RNA Area: 1,385.9 RNA Integrity Number (RIN): 2.7 (B.02.08)
RNA Concentration: 7,473 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 2.70

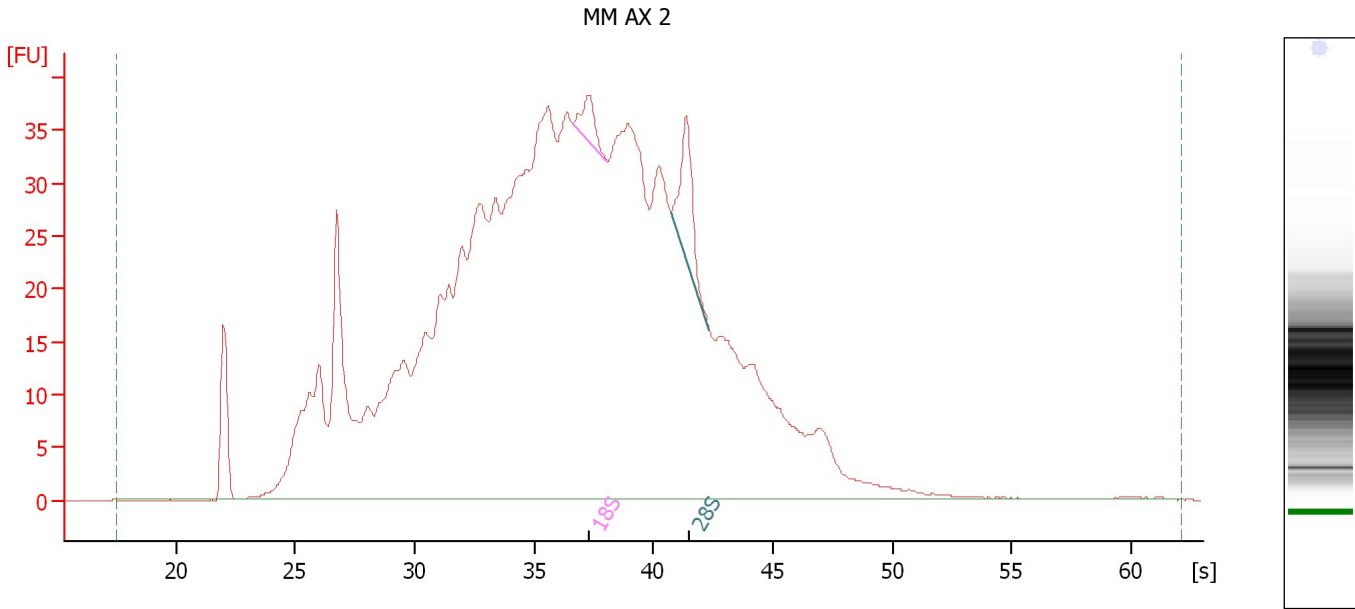
Fragment table for sample 2 : MM AX1

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 35.97 | 37.92 | 18.3 | 1.3 |
| 28S | 40.69 | 42.28 | 20.5 | 1.5 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
Modified: 4/24/2013 3:00:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : MM AX 2

RNA Area: 1,318.9 RNA Integrity Number (RIN): 2.5 (B.02.08)
RNA Concentration: 7,112 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.5 Result Flagging Label: RIN: 2.50

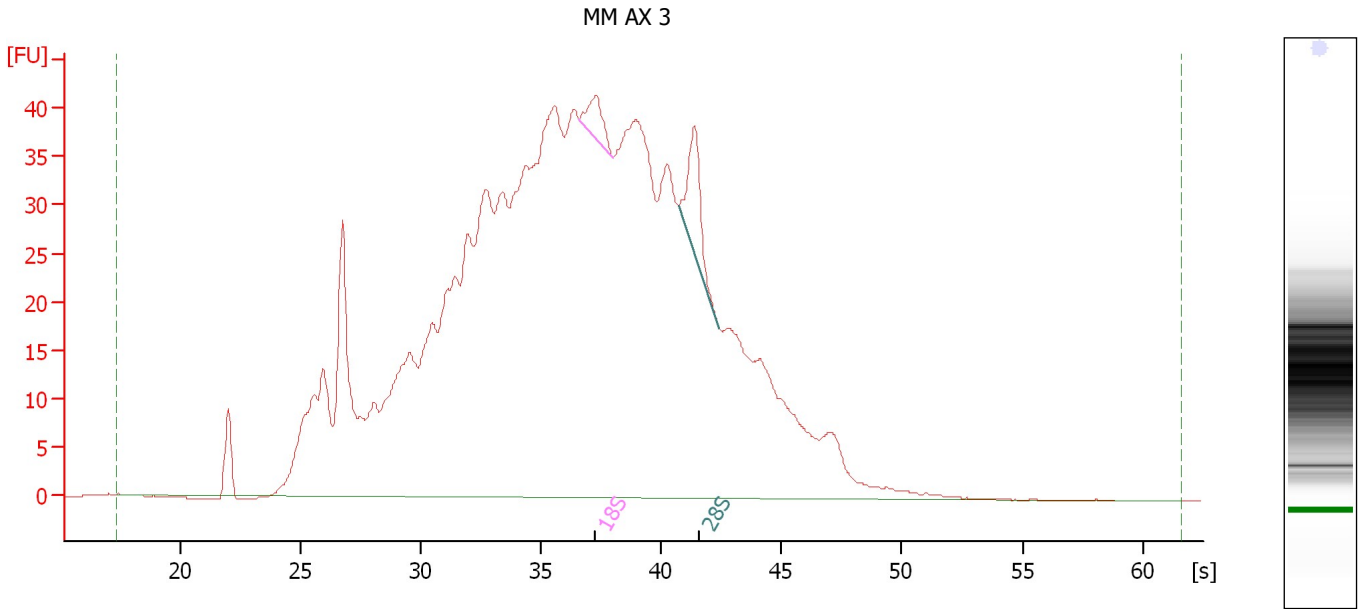
Fragment table for sample 3 : MM AX 2

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 36.62 | 38.06 | 7.3 | 0.6 |
| 28S | 40.72 | 42.34 | 18.5 | 1.4 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
Modified: 4/24/2013 3:00:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MM AX 3

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 1,441.7 | RNA Integrity Number (RIN): | 2.4 (B.02.08) |
| RNA Concentration: | 7,774 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 2.2 | Result Flagging Label: | RIN: 2.40 |

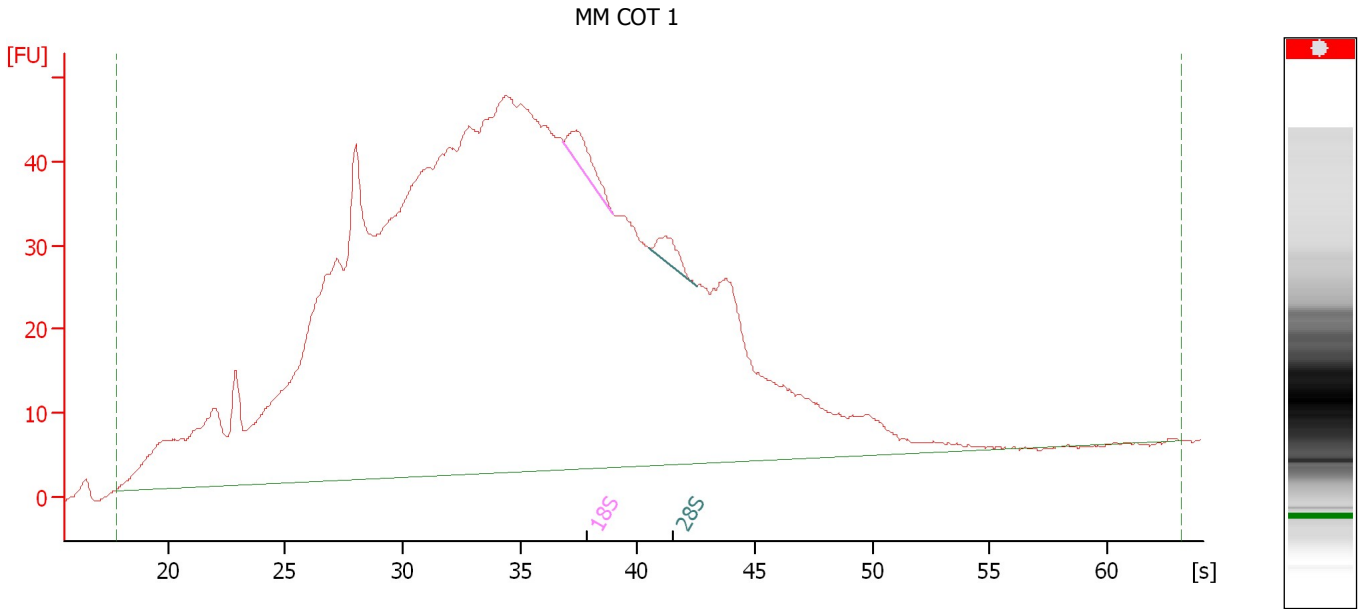
Fragment table for sample 4 : MM AX 3

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 36.59 | 37.98 | 8.4 | 0.6 |
| 28S | 40.70 | 42.44 | 18.5 | 1.3 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
 Modified: 4/24/2013 3:00:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : MM COT 1

| | | | |
|-------------------------|--------------|-----------------------------|---|
| RNA Area: | 2,002.4 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 10,797 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.7 | Result Flagging Label: | RIN N/A |

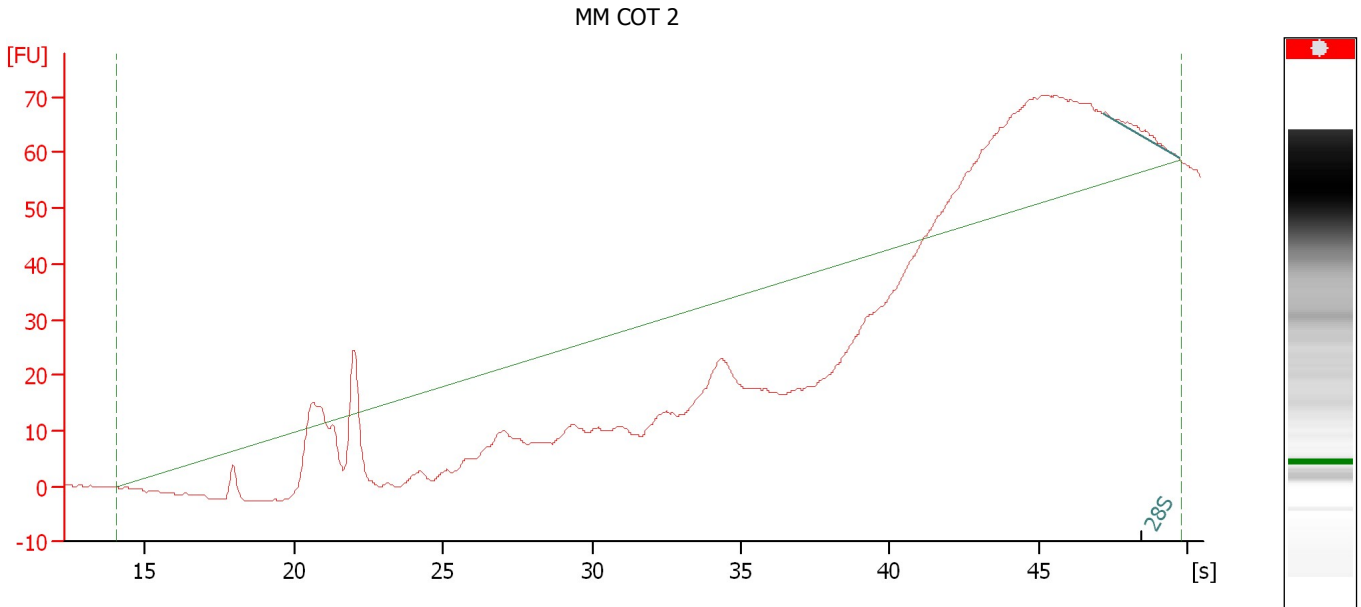
Fragment table for sample 5 : MM COT 1

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 36.82 | 38.97 | 12.0 | 0.6 |
| 28S | 40.43 | 42.49 | 8.1 | 0.4 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
 Modified: 4/24/2013 3:00:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : MM COT 2

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 222.1 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 1,197 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN N/A |

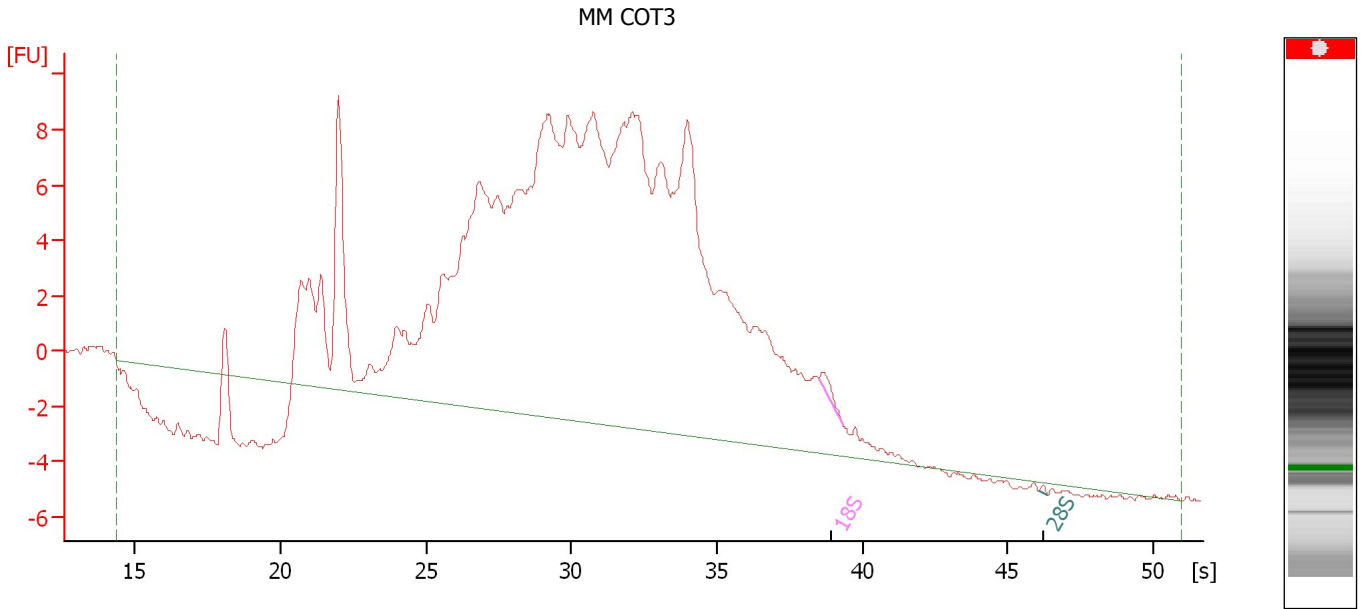
Fragment table for sample 6 : MM COT 2

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 28S | 47.14 | 49.70 | 4.0 | 1.8 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
 Modified: 4/24/2013 3:00:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : MM COT3

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 360.2 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 1,942 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.1 | Result Flagging Label: | RIN N/A |

Fragment table for sample 7 : MM COT3

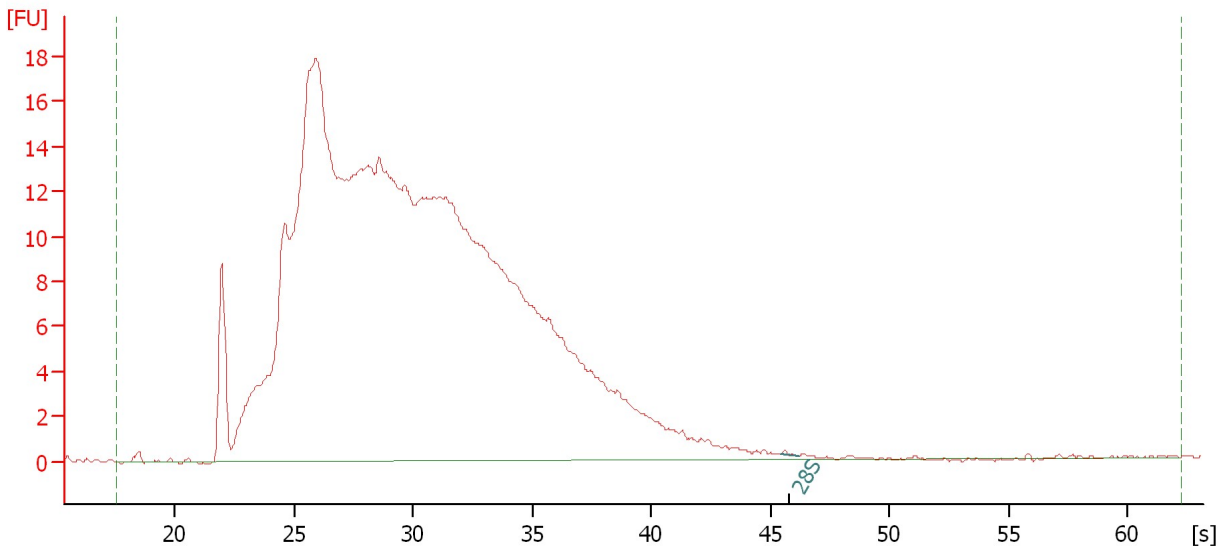
| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 18S | 38.50 | 39.31 | 0.8 | 0.2 |
| 28S | 46.10 | 46.36 | 0.1 | 0.0 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
Modified: 4/24/2013 3:00:09 PM

Electropherogram Summary Continued ...

WTA HRT SUS-1



Overall Results for sample 8 : WTA HRT SUS-1

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 516.5 | RNA Integrity Number (RIN): | 2 (B.02.08) |
| RNA Concentration: | 2,785 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN:2 |

Fragment table for sample 8 : WTA HRT SUS-1

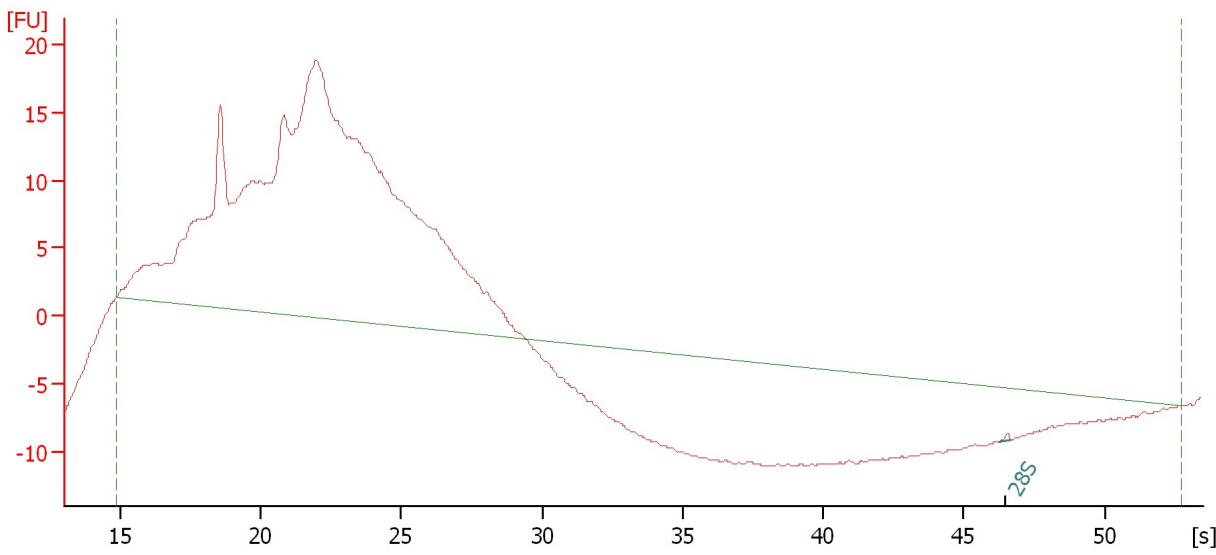
| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 28S | 45.44 | 46.16 | 0.1 | 0.0 |

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
 Modified: 4/24/2013 3:00:09 PM

Electropherogram Summary Continued ...

WTA HRT SUS-2



Overall Results for sample 9 : WTA HRT SUS-2

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 223.4 | RNA Integrity Number (RIN): | N/A (B.02.08) |
| RNA Concentration: | 1,205 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN N/A |

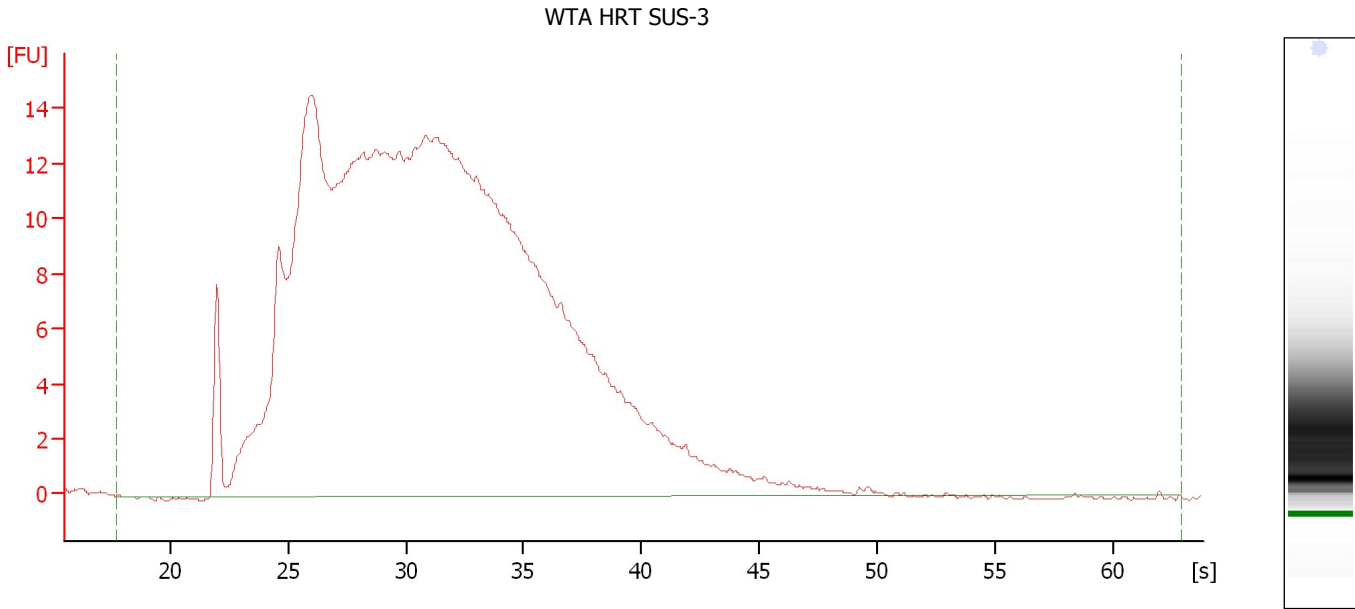
Fragment table for sample 9 : WTA HRT SUS-2

| Name | Start Time [s] | End Time [s] | Area | % of total Area |
|------|----------------|--------------|------|-----------------|
| 28S | 46.22 | 46.71 | 0.3 | 0.1 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
Modified: 4/24/2013 3:00:09 PM

Electropherogram Summary Continued ...



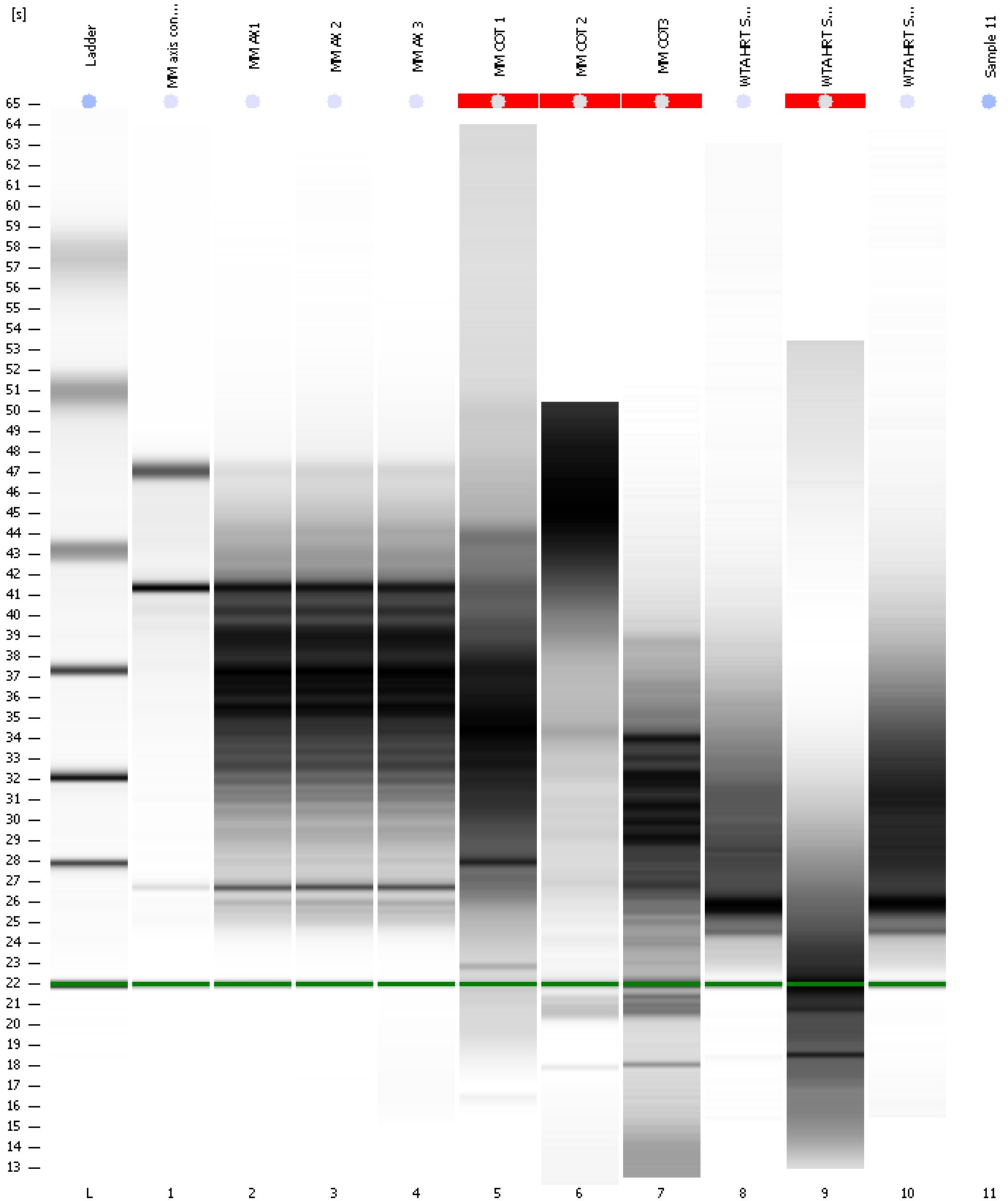
Overall Results for sample 10 : WTA HRT SUS-3

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 535.3 | RNA Integrity Number (RIN): | 1.9 (B.02.08) |
| RNA Concentration: | 2,886 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 1.90 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
Modified: 4/24/2013 3:00:09 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
Modified: 4/24/2013 3:00:09 PM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad

Created: 4/24/2013 2:38:27 PM
 Modified: 4/24/2013 3:00:09 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 11) | | Instrument | Run | | 4/24/2013 2:59:55 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-24\2013-04-24_001.xad) | | Instrument | Run | | 4/24/2013 2:38:32 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 4/24/2013 2:38:32 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 4/24/2013 2:38:32 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 4/24/2013 2:38:32 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 4/24/2013 2:38:32 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 4/24/2013 2:38:32 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 4/24/2013 2:38:32 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |