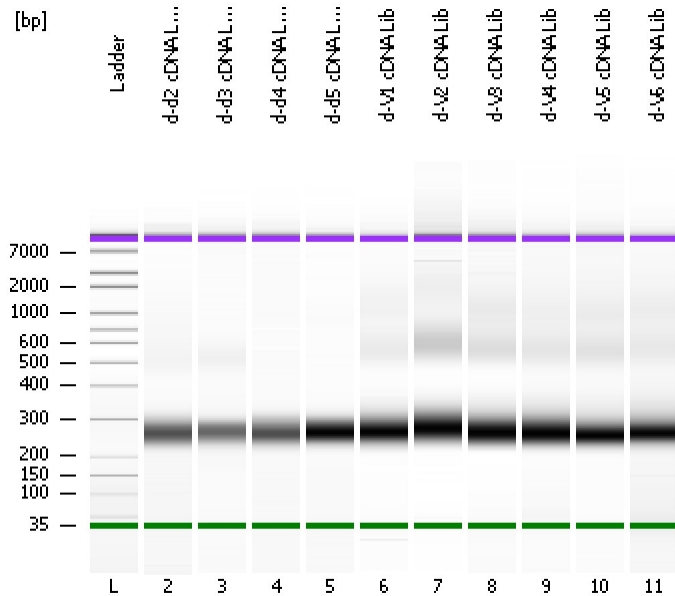


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:47:21 PM

Electrophoresis File Run Summary



Instrument Information:

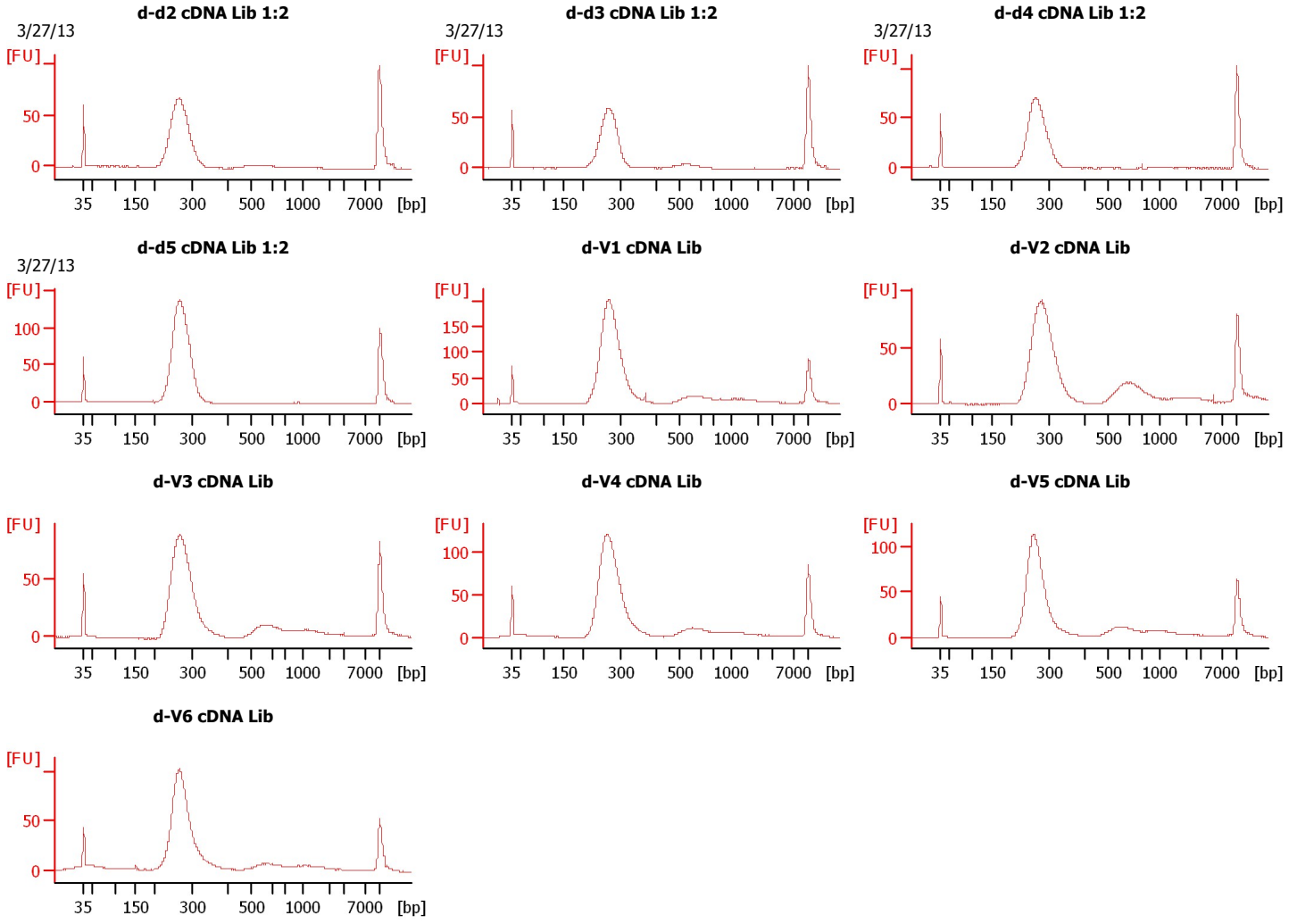
Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
 Assay Class: High Sensitivity DNA Assay
 Version: 1.03
 Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

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



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:47:21 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| d-d2 cDNA Lib 1:2 | 3/27/13 | <input type="checkbox"/> | ✓ | | | |
| d-d3 cDNA Lib 1:2 | 3/27/13 | <input type="checkbox"/> | ✓ | | | |
| d-d4 cDNA Lib 1:2 | 3/27/13 | <input type="checkbox"/> | ✓ | | | |
| d-d5 cDNA Lib 1:2 | 3/27/13 | <input type="checkbox"/> | ✓ | | | |
| d-V1 cDNA Lib | | <input type="checkbox"/> | ✓ | | | |
| d-V2 cDNA Lib | | <input type="checkbox"/> | ✓ | | | |
| d-V3 cDNA Lib | | <input type="checkbox"/> | ✓ | | | |
| d-V4 cDNA Lib | | <input type="checkbox"/> | ✓ | | | |
| d-V5 cDNA Lib | | <input type="checkbox"/> | ✓ | | | |
| d-V6 cDNA Lib | | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
Modified: 2/28/2013 3:47:21 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 32
Maximum Visible Range [s] : 138
Start Analysis Time Range [s] : 33
End Analysis Time Range [s] : 137.5
Ladder Concentration [pg/μl] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/μl] : 125
Upper Marker Concentration [pg/μl] : 75
Used Upper Marker for Quantitation
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 33.05
Integration End Time [s] : 137
Slope Threshold : 0.8
Height Threshold [FU] : 5
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

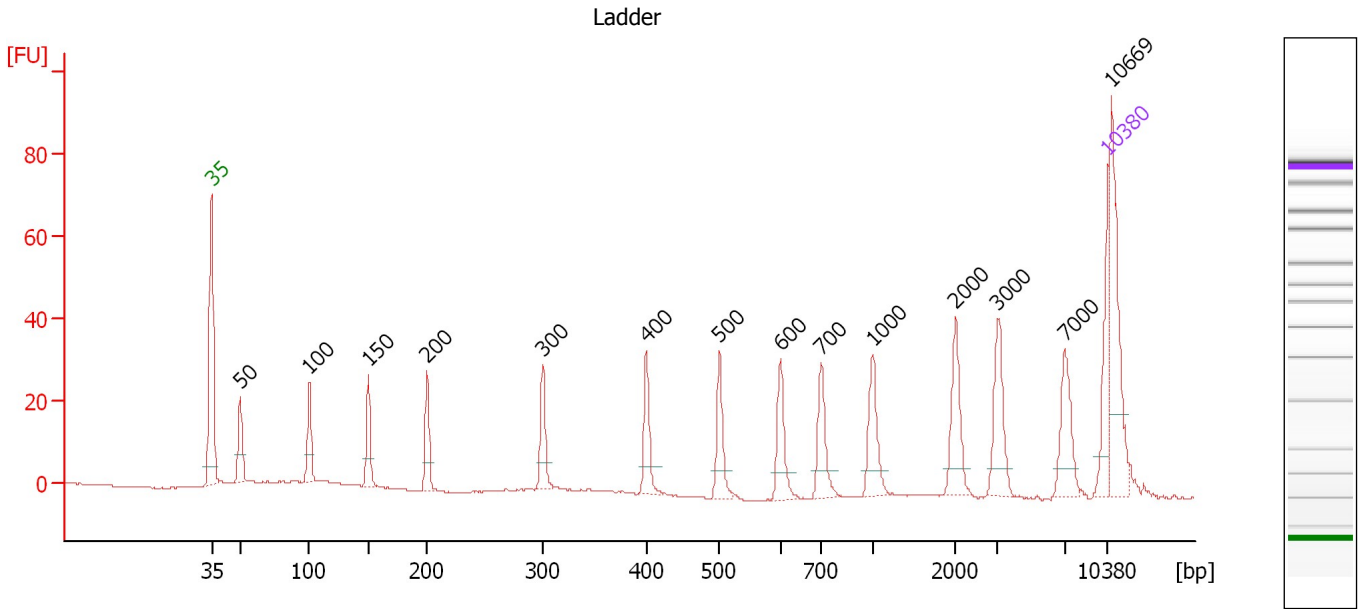
Ladder

| Ladder Peak | Size | Area |
|-------------|-------|------|
| 1 | 35 | 160 |
| 2 | 50 | 210 |
| 3 | 100 | 208 |
| 4 | 150 | 221 |
| 5 | 200 | 242 |
| 6 | 300 | 270 |
| 7 | 400 | 305 |
| 8 | 500 | 306 |
| 9 | 600 | 336 |
| 10 | 700 | 321 |
| 11 | 1000 | 366 |
| 12 | 2000 | 413 |
| 13 | 3000 | 411 |
| 14 | 7000 | 400 |
| 15 | 10380 | 214 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:47:21 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

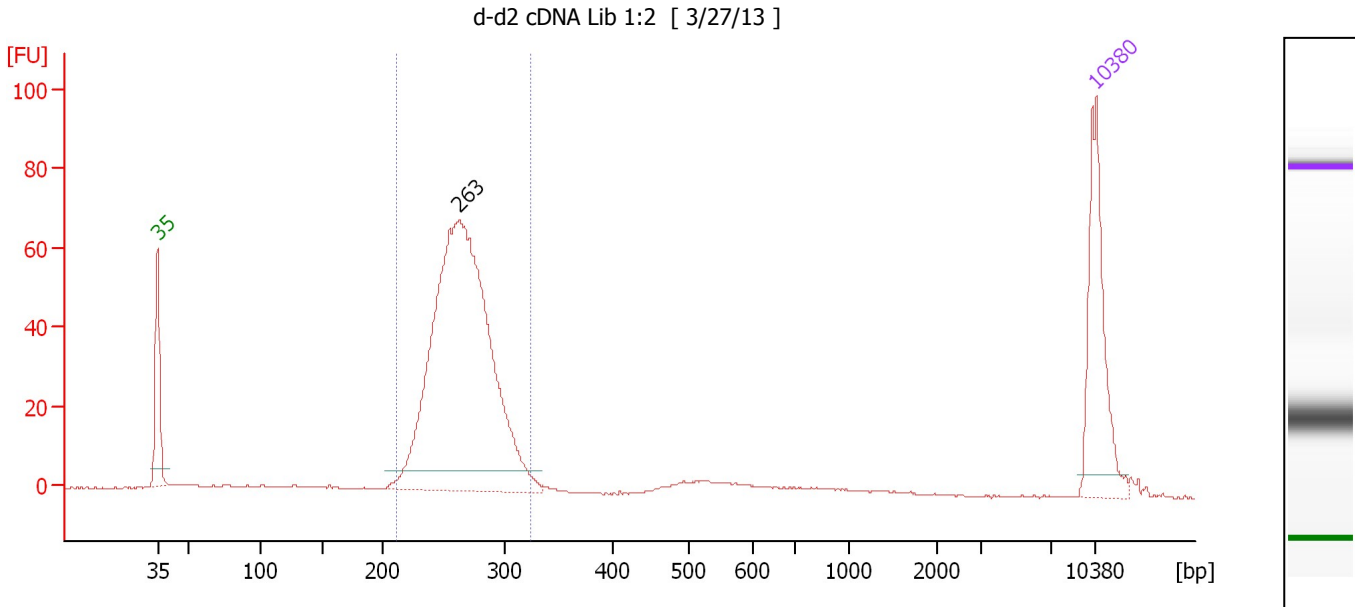
Peak table for Ladder

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 50 | 150.00 | 4,545.5 | Ladder Peak |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 16 | 10,669 | 0.00 | 0.0 | |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:47:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : d-d2 cDNA Lib 1:2

Number of peaks found: 1 Corr. Area 1: 557.3
 Noise: 0.1

Peak table for sample 2 : d-d2 cDNA Lib 1:2

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 263 | 580.19 | 3,342.6 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

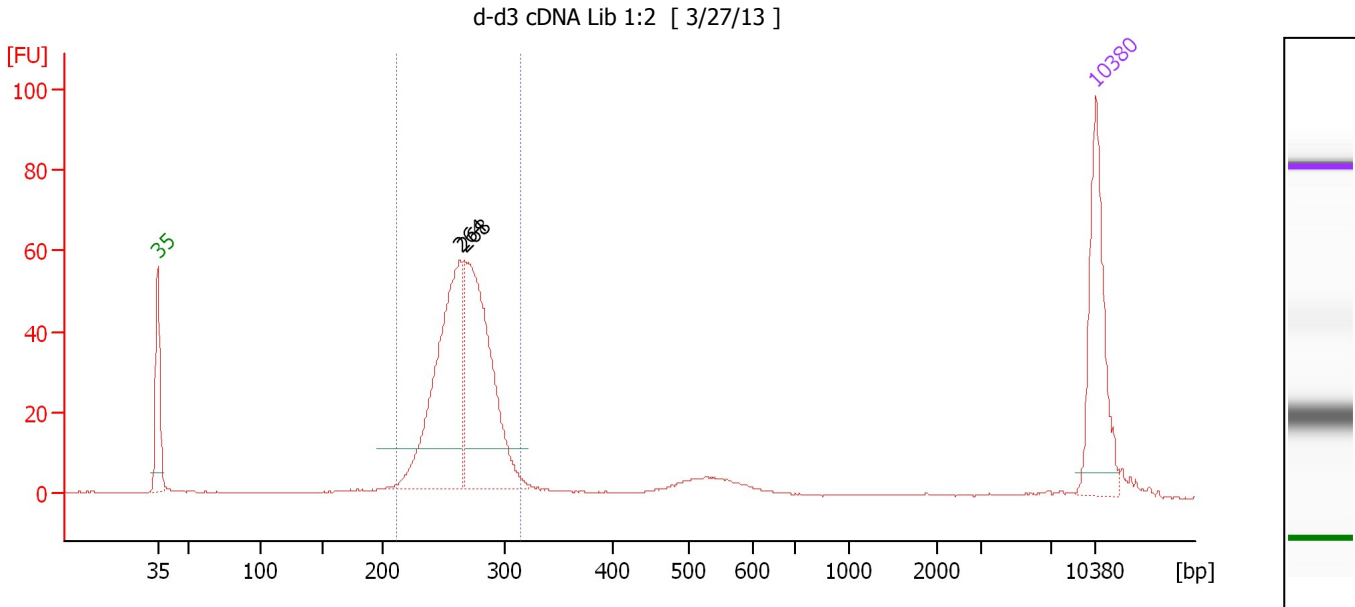
Region table for sample 2 : d-d2 cDNA Lib 1:2

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 212 | 324 | 265 | 3,295.3 | 575.83 | 557.3 | 87 | 8.2 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:47:21 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : d-d3 cDNA Lib 1:2

Height Threshold [FU] : 10

Overall Results for sample 3 : d-d3 cDNA Lib 1:2

Number of peaks found: 2 Corr. Area 1: 445.1
 Noise: 0.1

Peak table for sample 3 : d-d3 cDNA Lib 1:2

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 264 | 231.86 | 1,332.6 | |
| 3 | 268 | 235.56 | 1,334.2 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

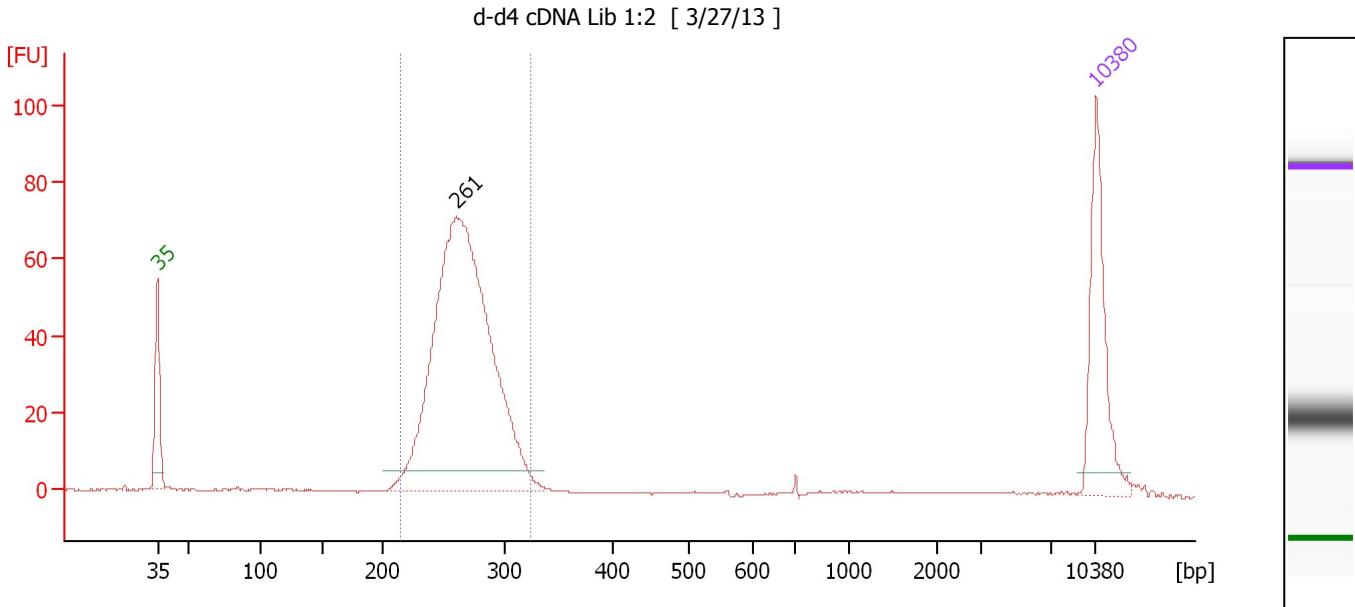
Region table for sample 3 : d-d3 cDNA Lib 1:2

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/µl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 212 | 315 | 266 | 2,819.9 | 494.37 | 445.1 | 78 | 7.5 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:47:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : d-d4 cDNA Lib 1:2

Number of peaks found: 1 Corr. Area 1: 571.5
 Noise: 0.1

Peak table for sample 4 : d-d4 cDNA Lib 1:2

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 261 | 623.13 | 3,618.5 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

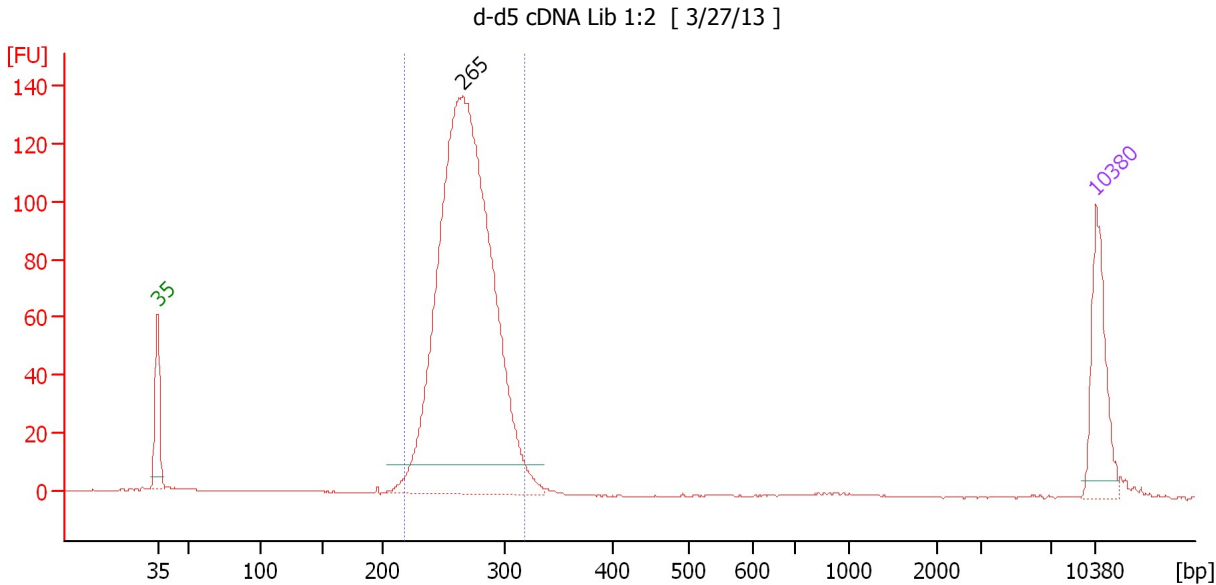
Region table for sample 4 : d-d4 cDNA Lib 1:2

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 215 | 325 | 267 | 3,533.4 | 620.48 | 571.5 | 87 | 8.2 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:47:21 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : d-d5 cDNA Lib 1:2

Height Threshold [FU] : 10

Overall Results for sample 5 : d-d5 cDNA Lib 1:2

Number of peaks found: 1 Corr. Area 1: 1,017.4
 Noise: 0.2

Peak table for sample 5 : d-d5 cDNA Lib 1:2

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 265 | 1,161.54 | 6,629.9 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

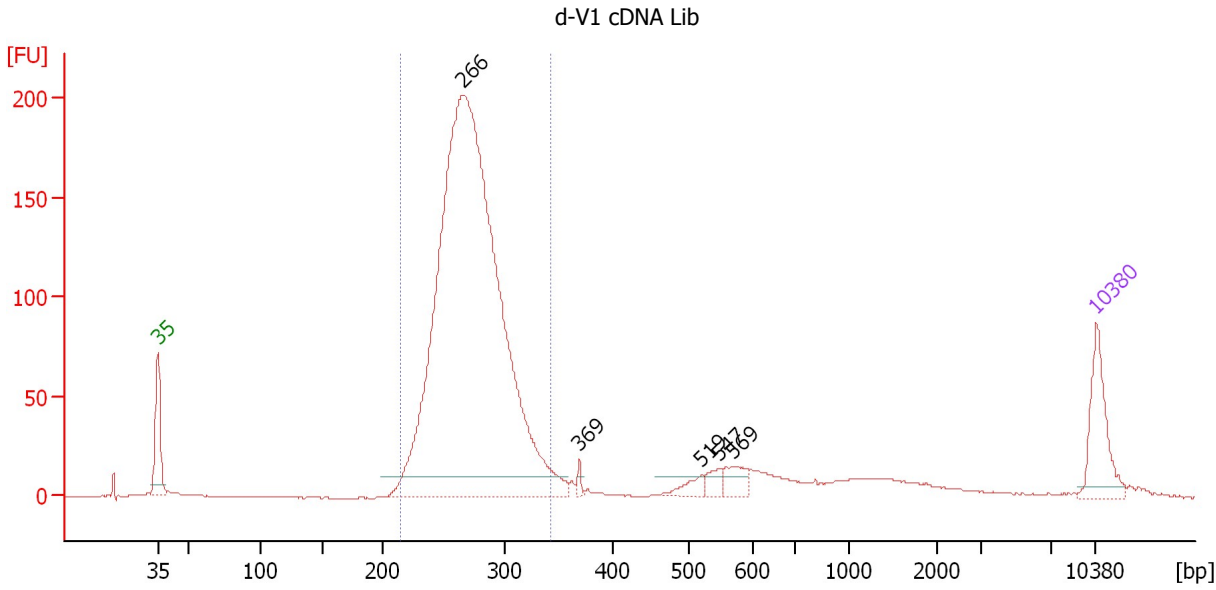
Region table for sample 5 : d-d5 cDNA Lib 1:2

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 217 | 318 | 268 | 6,433.4 | 1,136.56 | 1,017.4 | 93 | 7.4 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:47:21 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : d-V1 cDNA Lib

Height Threshold [FU] : 10

Overall Results for sample 6 : d-V1 cDNA Lib

Number of peaks found: 5 Corr. Area 1: 1,668.0
 Noise: 0.1

Peak table for sample 6 : d-V1 cDNA Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 266 | 2,000.65 | 11,393.7 | |
| 3 | 369 | 7.82 | 32.1 | |
| 4 | 519 | 20.91 | 61.1 | |
| 5 | 547 | 18.14 | 50.3 | |
| 6 | 569 | 31.82 | 84.8 | |
| 7 | 10,380 | 75.00 | 10.9 | Upper Marker |

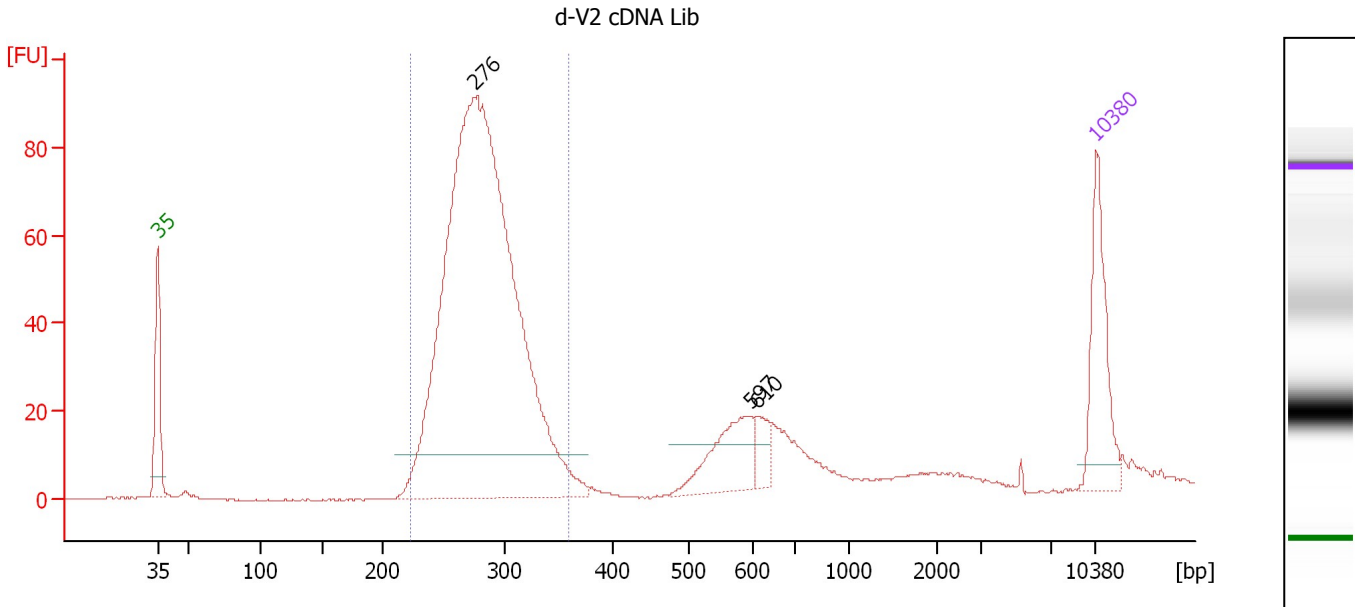
Region table for sample 6 : d-V1 cDNA Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 215 | 342 | 272 | 10,876.4 | 1,944.66 | 1,668.0 | 83 | 8.9 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:47:21 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : d-V2 cDNA Lib

Height Threshold [FU] : 10

Overall Results for sample 7 : d-V2 cDNA Lib

Number of peaks found: 3 Corr. Area 1: 839.5
 Noise: 0.2

Peak table for sample 7 : d-V2 cDNA Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 276 | 1,196.09 | 6,577.8 | |
| 3 | 597 | 76.04 | 193.0 | |
| 4 | 610 | 23.48 | 58.3 | |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker |

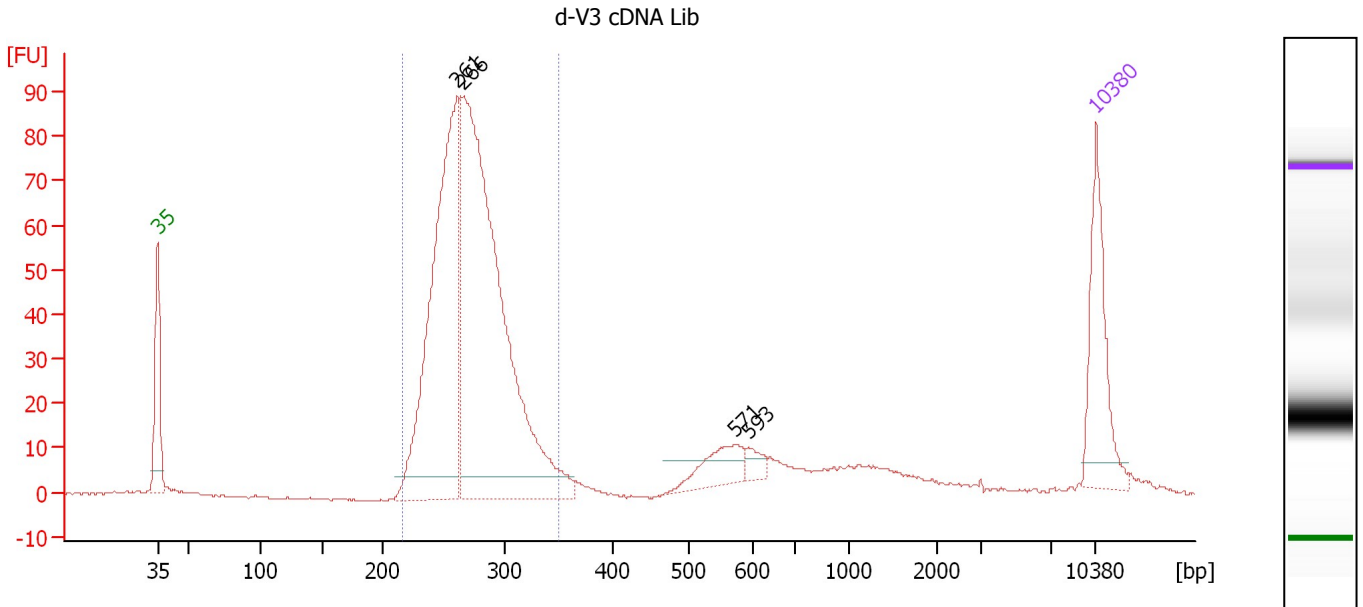
Region table for sample 7 : d-V2 cDNA Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 223 | 359 | 282 | 6,273.4 | 1,159.73 | 839.5 | 75 | 9.6 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:47:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : d-V3 cDNA Lib

Number of peaks found: 4 Corr. Area 1: 781.3
 Noise: 0.2

Peak table for sample 8 : d-V3 cDNA Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 261 | 424.50 | 2,463.9 | |
| 3 | 266 | 647.02 | 3,681.5 | |
| 4 | 571 | 40.56 | 107.6 | |
| 5 | 593 | 12.39 | 31.6 | |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker |

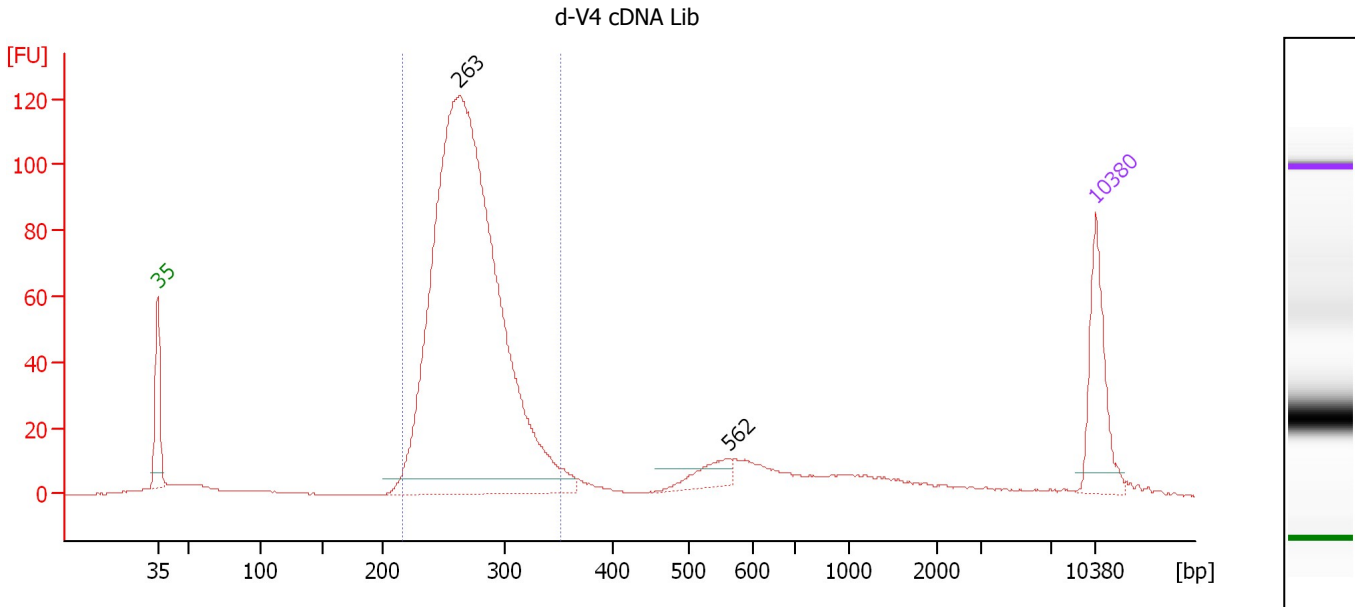
Region table for sample 8 : d-V3 cDNA Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 216 | 351 | 272 | 5,831.5 | 1,041.38 | 781.3 | 79 | 9.4 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:47:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : d-V4 cDNA Lib

Number of peaks found: 2 Corr. Area 1: 1,067.3
 Noise: 0.2

Peak table for sample 9 : d-V4 cDNA Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 263 | 1,399.94 | 8,073.5 | |
| 3 | 562 | 30.46 | 82.1 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

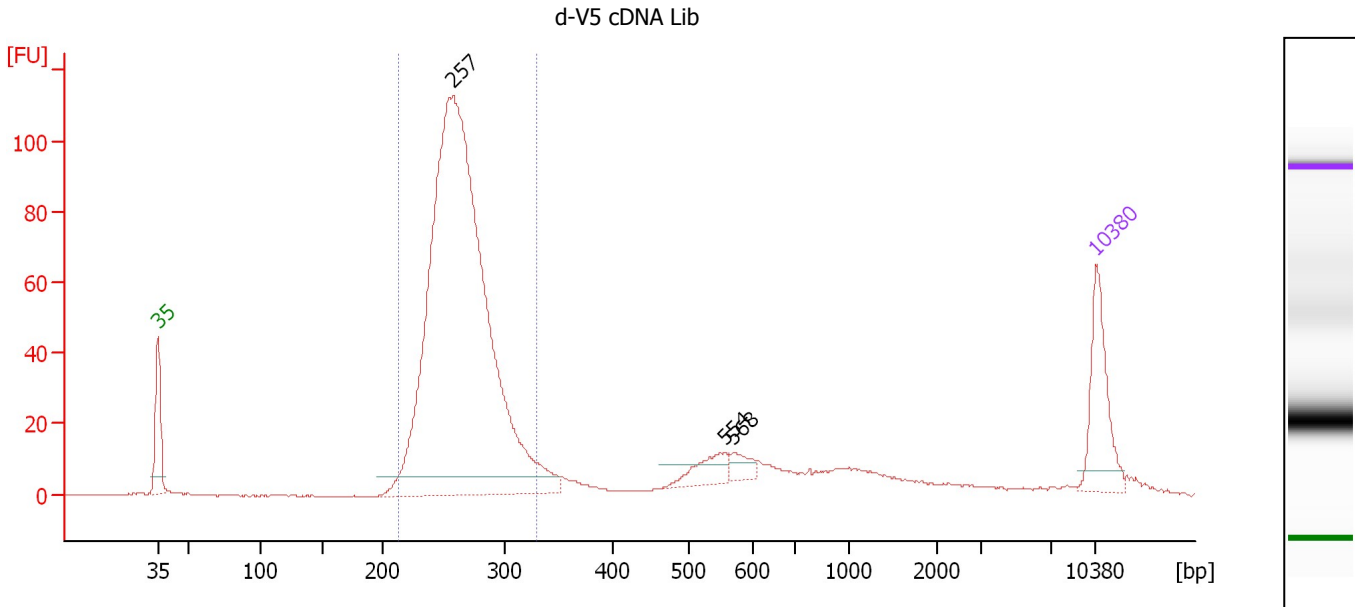
Region table for sample 9 : d-V4 cDNA Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 216 | 352 | 272 | 7,661.9 | 1,363.92 | 1,067.3 | 78 | 9.7 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:47:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : d-V5 cDNA Lib

Number of peaks found: 3 Corr. Area 1: 839.4
 Noise: 0.1

Peak table for sample 10 : d-V5 cDNA Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 257 | 1,354.63 | 7,971.7 | |
| 3 | 554 | 37.13 | 101.5 | |
| 4 | 568 | 20.09 | 53.6 | |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker |

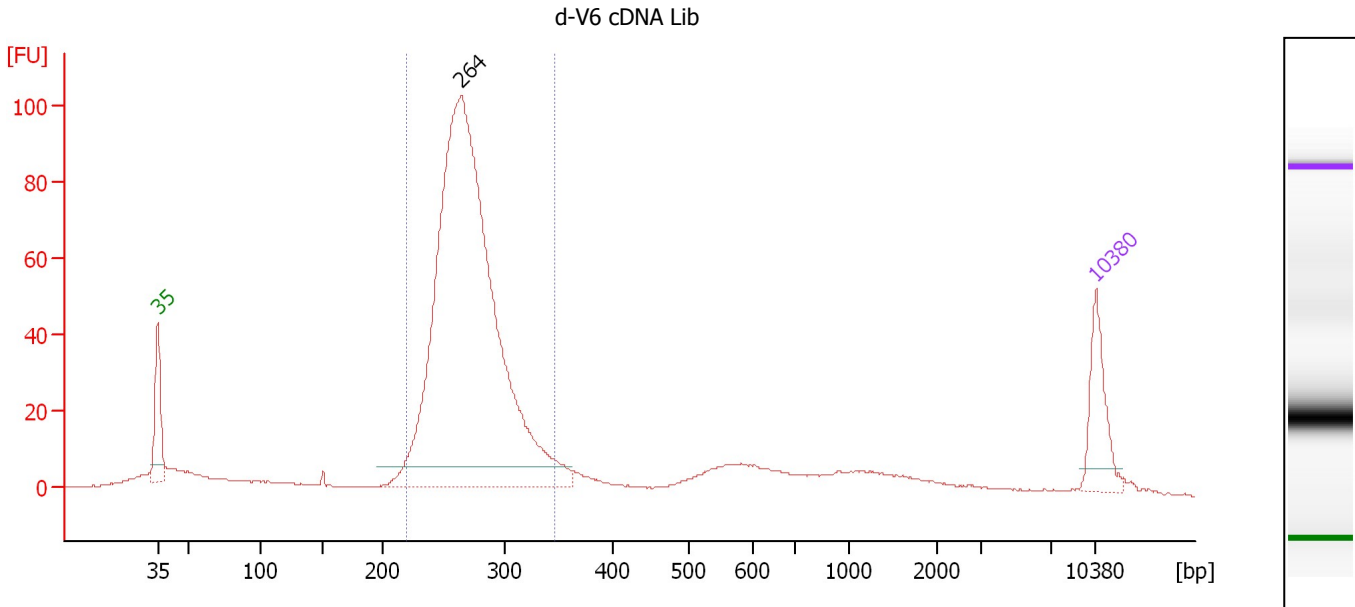
Region table for sample 10 : d-V5 cDNA Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 213 | 329 | 264 | 7,584.8 | 1,316.55 | 839.4 | 74 | 8.5 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
 Modified: 2/28/2013 3:47:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : d-V6 cDNA Lib

Number of peaks found: 1 Corr. Area 1: 775.2
 Noise: 0.2

Peak table for sample 11 : d-V6 cDNA Lib

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 264 | 1,593.15 | 9,150.9 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

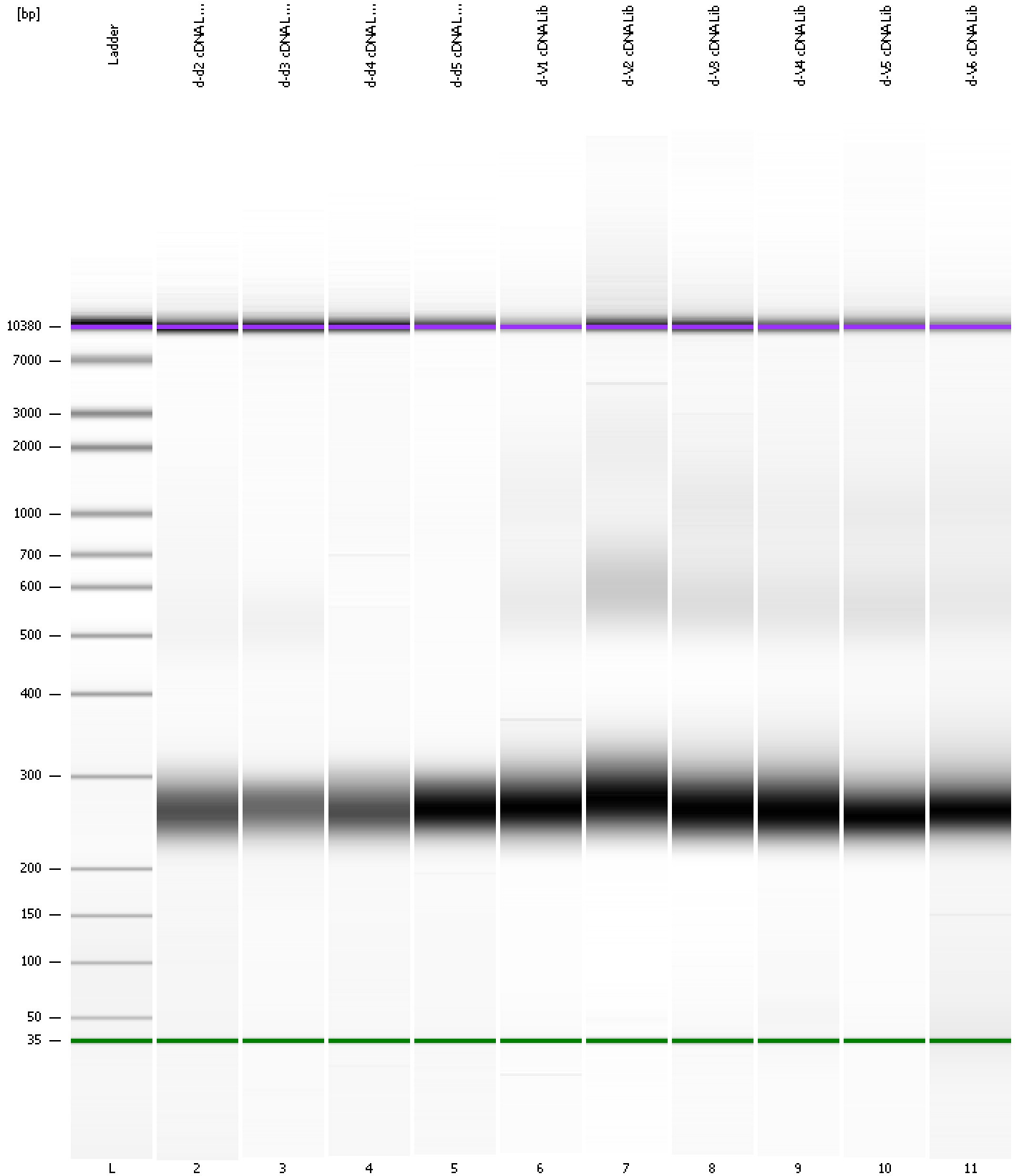
Region table for sample 11 : d-V6 cDNA Lib

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 220 | 346 | 271 | 8,821.2 | 1,570.38 | 775.2 | 72 | 9.1 | Blue |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad

Created: 2/28/2013 3:00:11 PM
Modified: 2/28/2013 3:47:21 PM

Gel Image



Assay Class: High Sensitivity DNA Assay Created: 2/28/2013 3:00:11 PM
 Data Path: C:\...gs\Bioanalyzer\2013-02-28\2013-02-28_002_Brian_cDNA_Lib.xad Modified: 2/28/2013 3:47:21 PM

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 | | 2/28/2013 3:41:30 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-02-28\2013-02-28_002.xad) | | Instrument | Run | | 2/28/2013 3:00:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 2/28/2013 3:00:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 2/28/2013 3:00:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 2/28/2013 3:00:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 2/28/2013 3:00:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 2/28/2013 3:00:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 2/28/2013 3:00:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |