

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_003.xad

Created: 10/1/2015 3:52:48 PM
Modified: 10/1/2015 4:42:57 PM

Electrophoresis File Run Summary

Instrument Information:

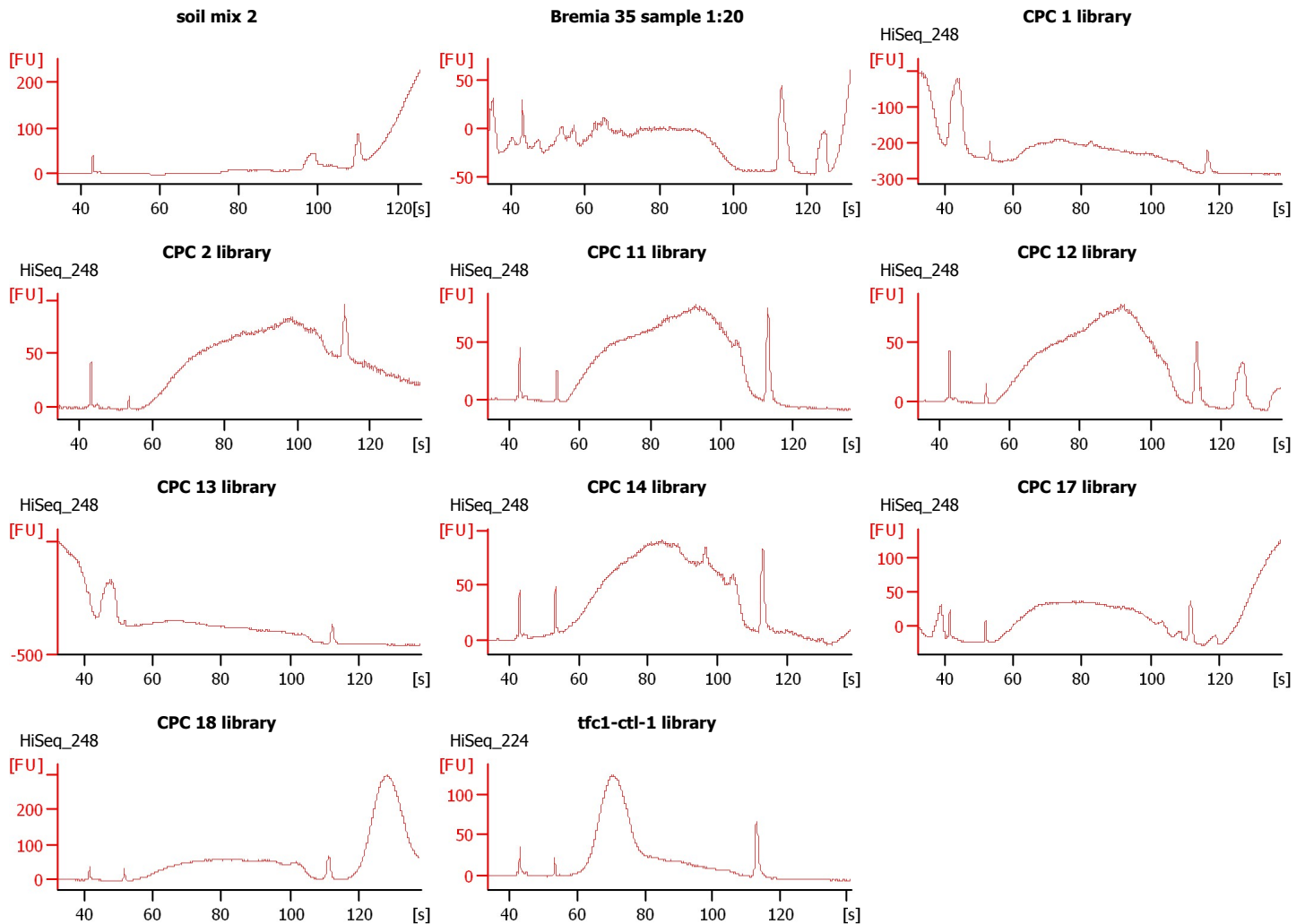
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_003.xad

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Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-----------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| soil mix 2 | | <input type="checkbox"/> | ✓ | | | |
| Bremia 35 sample 1:20 | | <input type="checkbox"/> | ✓ | | | |
| CPC 1 library | HiSeq_248 | <input type="checkbox"/> | ✓ | | | |
| CPC 2 library | HiSeq_248 | <input type="checkbox"/> | ✓ | | | |
| CPC 11 library | HiSeq_248 | <input type="checkbox"/> | ✓ | | | |
| CPC 12 library | HiSeq_248 | <input type="checkbox"/> | ✓ | | | |
| CPC 13 library | HiSeq_248 | <input type="checkbox"/> | ✓ | | | |
| CPC 14 library | HiSeq_248 | <input type="checkbox"/> | ✓ | | | |
| CPC 17 library | HiSeq_248 | <input type="checkbox"/> | ✓ | | | |
| CPC 18 library | HiSeq_248 | <input type="checkbox"/> | ✓ | | | |
| tfc1-ctl-1 library | HiSeq_224 | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

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] : 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

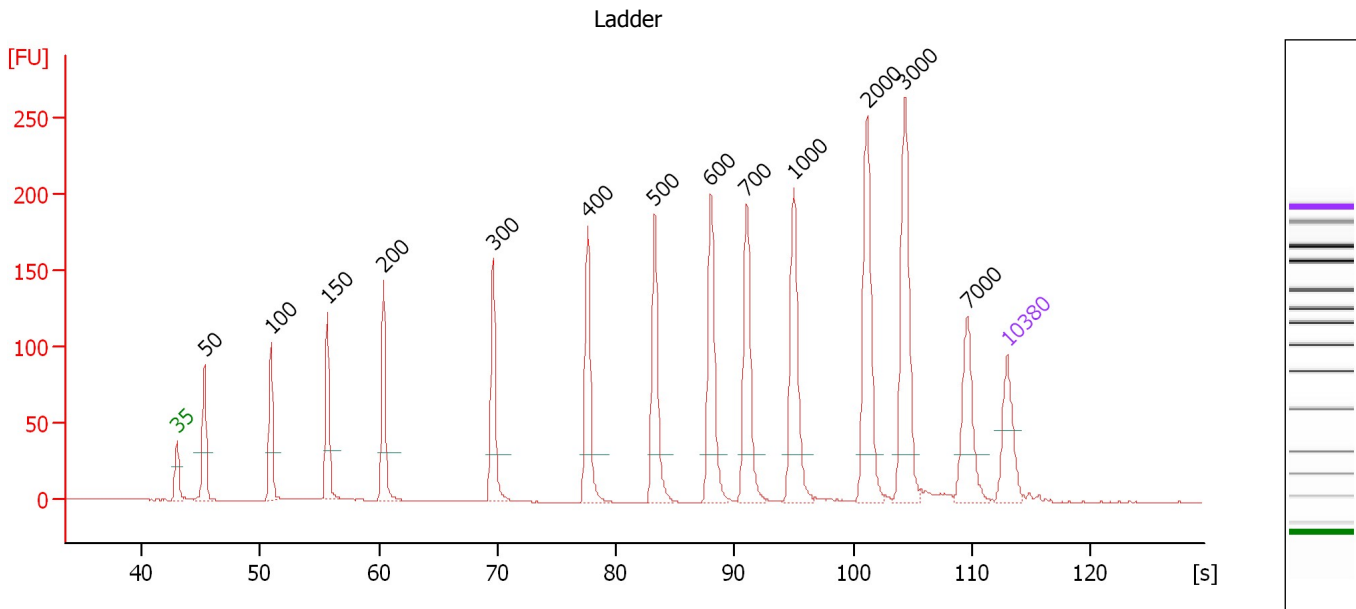
Ladder

| 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 |

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

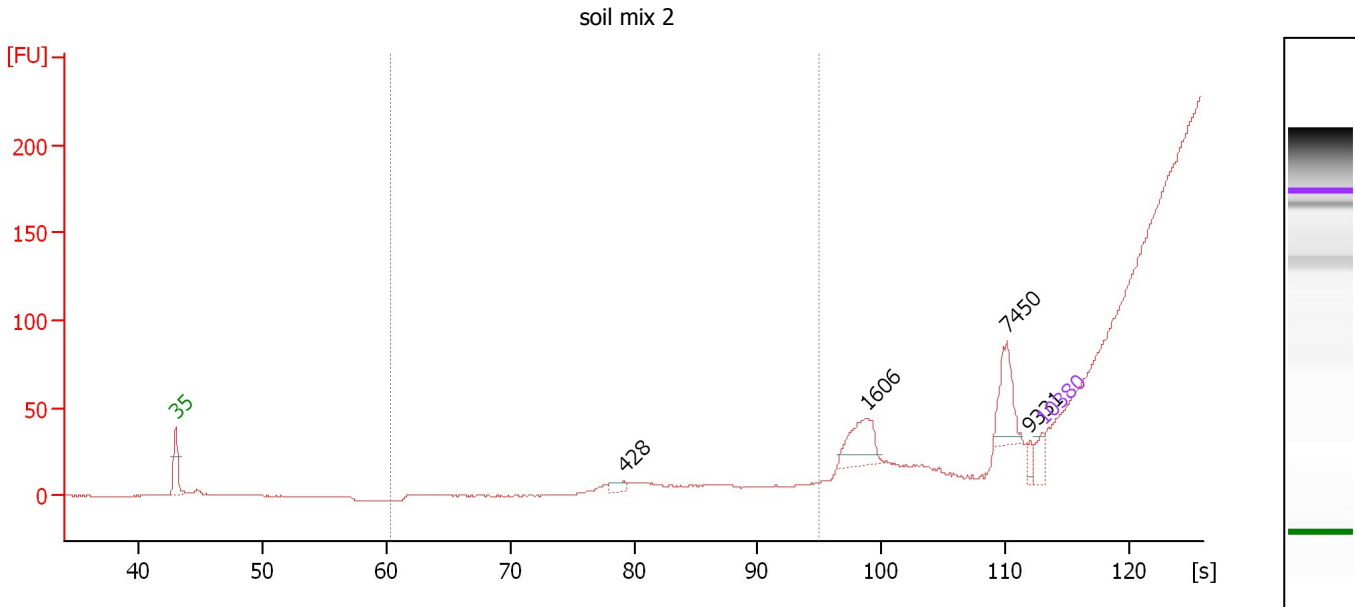
Peak table for Ladder

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 50 | 150.00 | 4,545.5 | Ladder Peak | 45.31 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.92 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.68 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.43 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.67 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.64 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.25 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 88.01 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.04 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.98 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.18 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.35 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.65 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 1 : soil mix 2

Number of peaks found: 4 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 1 : soil mix 2

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 428 | 52.53 | 186.1 | | 79.19 |
| 3 | 1,606 | 235.38 | 222.0 | | 98.74 |
| 4 | 7,450 | 236.86 | 48.2 | | 110.10 |
| 5 | 9,331 | 42.57 | 6.9 | | 111.96 |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Region table for sample 1 : soil mix 2

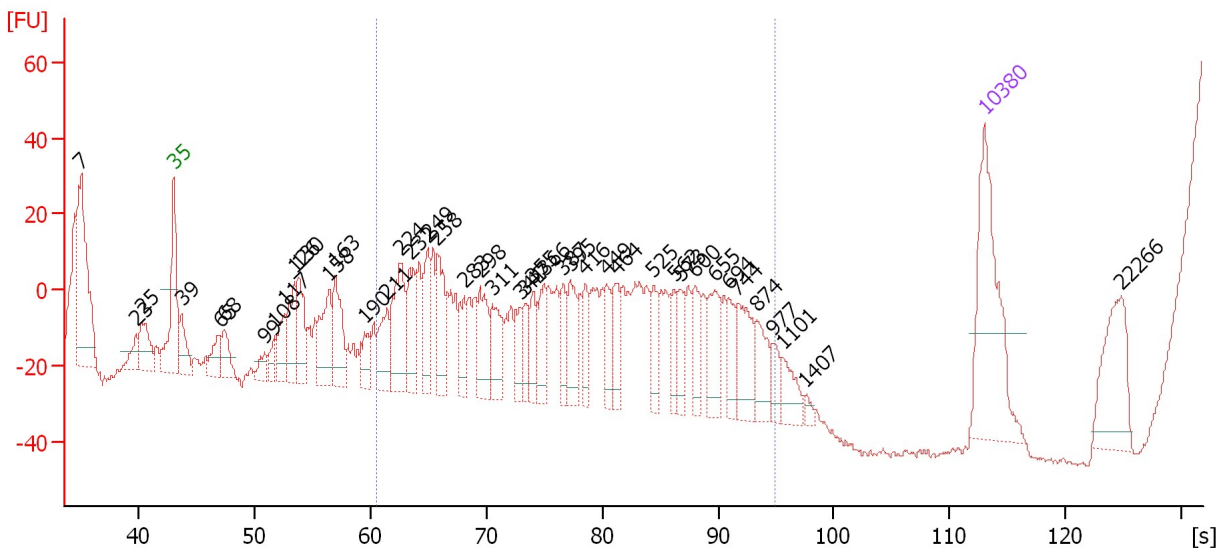
| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200 | 1,000 | 0 | 0.0 | 0.0 | 0.00 | 0 | 0.0 |

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Electropherogram Summary Continued ...

Bremia 35 sample 1:20



Overall Results for sample 2 : Bremia 35 sample 1:20

Number of peaks found: 43 Corr. Area 1: 0.0
 Noise: 1.1

Peak table for sample 2 : Bremia 35 sample 1:20

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 7 | 0.00 | 0.0 | | 34.97 |
| 2 | 23 | 0.00 | 0.0 | | 39.71 |
| 3 | 25 | 0.00 | 0.0 | | 40.22 |
| 4 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 5 | 39 | 27.50 | 1,062.4 | | 43.65 |
| 6 | 65 | 25.42 | 596.6 | | 46.94 |
| 7 | 68 | 22.53 | 503.2 | | 47.31 |
| 8 | 99 | 12.51 | 191.8 | | 50.79 |
| 9 | 108 | 13.05 | 183.3 | | 51.67 |
| 10 | 117 | 26.86 | 347.4 | | 52.56 |
| 11 | 126 | 41.88 | 503.8 | | 53.39 |
| 12 | 130 | 42.65 | 497.6 | | 53.76 |
| 13 | 158 | 48.60 | 467.1 | | 56.41 |
| 14 | 163 | 45.20 | 420.1 | | 56.92 |
| 15 | 190 | 18.55 | 148.0 | | 59.47 |
| 16 | 211 | 31.87 | 229.2 | | 61.42 |
| 17 | 224 | 58.39 | 395.4 | | 62.62 |
| 18 | 232 | 37.69 | 245.9 | | 63.41 |
| 19 | 249 | 34.58 | 210.6 | | 64.94 |
| 20 | 258 | 43.01 | 252.7 | | 65.78 |
| 21 | 283 | 20.55 | 110.0 | | 68.10 |
| 22 | 298 | 34.30 | 174.4 | | 69.49 |
| 23 | 311 | 33.13 | 161.6 | | 70.51 |
| 24 | 341 | 19.55 | 86.9 | | 72.92 |
| 25 | 347 | 16.75 | 73.2 | | 73.38 |

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Electropherogram Summary Continued ...

... Peak table for sample 2 : Bremia 35 sample 1:20

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 355 | 20.18 | 86.2 | | 74.03 |
| 27 | 366 | 25.49 | 105.4 | | 74.96 |
| 28 | 387 | 18.33 | 71.7 | | 76.63 |
| 29 | 395 | 27.91 | 107.1 | | 77.23 |
| 30 | 416 | 17.68 | 64.4 | | 78.53 |
| 31 | 449 | 20.58 | 69.5 | | 80.39 |
| 32 | 464 | 20.75 | 67.8 | | 81.22 |
| 33 | 525 | 18.12 | 52.3 | | 84.42 |
| 34 | 562 | 15.73 | 42.4 | | 86.19 |
| 35 | 573 | 18.17 | 48.0 | | 86.74 |
| 36 | 600 | 21.20 | 53.6 | | 88.00 |
| 37 | 655 | 29.03 | 67.2 | | 89.67 |
| 38 | 694 | 17.73 | 38.7 | | 90.87 |
| 39 | 744 | 35.13 | 71.6 | | 91.61 |
| 40 | 874 | 22.24 | 38.5 | | 93.33 |
| 41 | 977 | 11.42 | 17.7 | | 94.68 |
| 42 | 1,101 | 16.01 | 22.0 | | 95.60 |
| 43 | 1,407 | 3.34 | 3.6 | | 97.51 |
| 44 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 45 | 22,266 | 0.00 | 0.0 | | 124.78 |

Region table for sample 2 : Bremia 35 sample 1:20

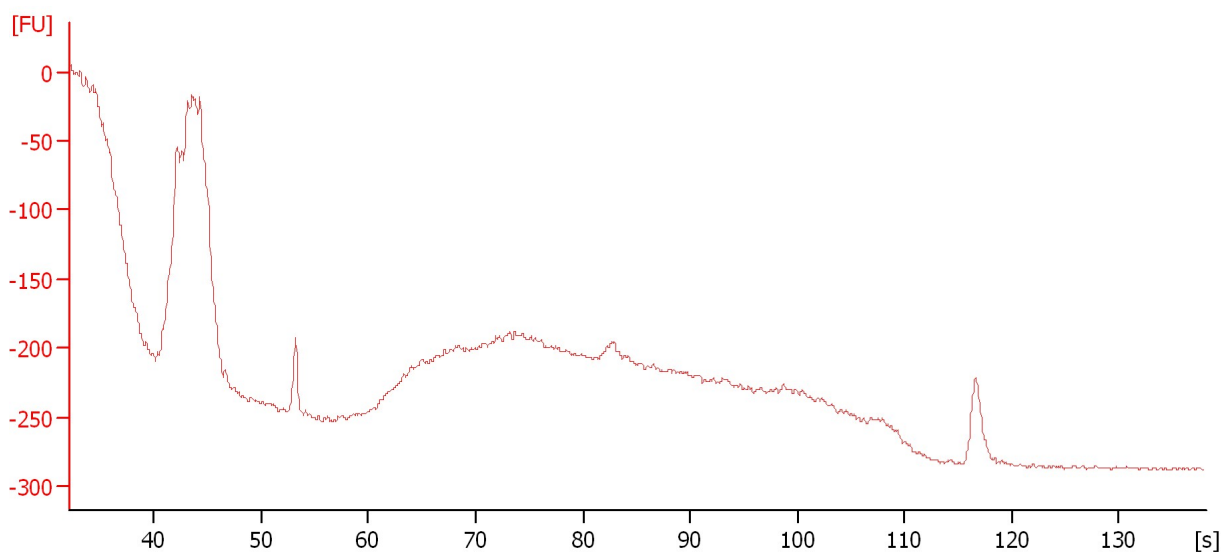
| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200 | 1,000 | 0 | 0.0 | 0.0 | 0.00 | 0 | 0.0 |

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Electropherogram Summary Continued ...

CPC 1 library [HiSeq_248]



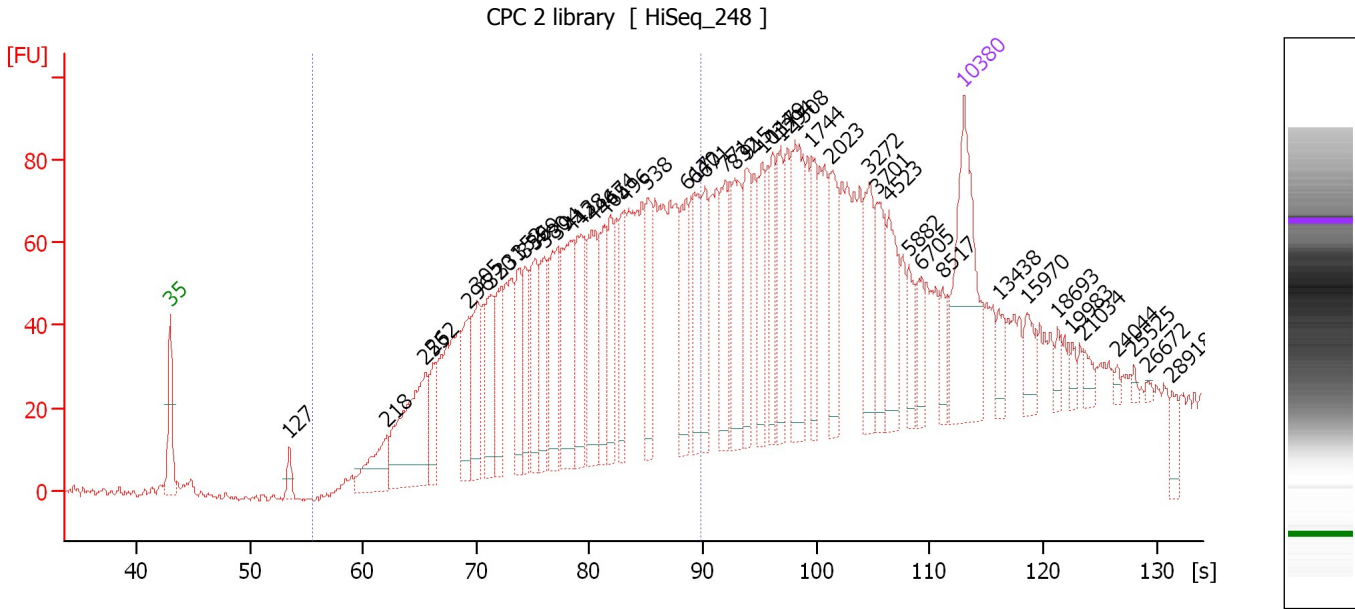
Overall Results for sample 3 : CPC 1 library

Noise: 1.4

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 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : CPC 2 library

Number of peaks found: 47 Corr. Area 1: 1,528.5
 Noise: 0.9

Peak table for sample 4 : CPC 2 library

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 127 | 12.07 | 143.7 | | 53.51 |
| 3 | 218 | 41.76 | 289.7 | | 62.13 |
| 4 | 255 | 108.29 | 643.9 | | 65.50 |
| 5 | 262 | 28.18 | 163.0 | | 66.16 |
| 6 | 296 | 42.18 | 216.0 | | 69.29 |
| 7 | 305 | 49.71 | 246.7 | | 70.09 |
| 8 | 320 | 47.85 | 226.9 | | 71.23 |
| 9 | 331 | 40.15 | 183.6 | | 72.17 |
| 10 | 352 | 38.73 | 166.9 | | 73.78 |
| 11 | 359 | 35.77 | 151.0 | | 74.35 |
| 12 | 369 | 44.02 | 180.5 | | 75.21 |
| 13 | 380 | 43.46 | 173.5 | | 76.01 |
| 14 | 394 | 56.93 | 219.0 | | 77.15 |
| 15 | 413 | 73.50 | 269.5 | | 78.38 |
| 16 | 428 | 52.53 | 186.2 | | 79.18 |
| 17 | 446 | 60.18 | 204.4 | | 80.23 |
| 18 | 465 | 41.26 | 134.5 | | 81.27 |
| 19 | 474 | 36.63 | 117.1 | | 81.79 |
| 20 | 496 | 36.85 | 112.6 | | 83.02 |
| 21 | 538 | 38.74 | 109.1 | | 85.06 |
| 22 | 617 | 39.25 | 96.4 | | 88.51 |
| 23 | 640 | 32.96 | 78.0 | | 89.22 |
| 24 | 671 | 38.26 | 86.3 | | 90.17 |
| 25 | 771 | 39.95 | 78.5 | | 91.97 |

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Electropherogram Summary Continued ...

... Peak table for sample 4 : CPC 2 library

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 832 | 46.21 | 84.1 | | 92.78 |
| 27 | 915 | 42.64 | 70.6 | | 93.87 |
| 28 | 1,034 | 34.09 | 49.9 | | 95.19 |
| 29 | 1,179 | 29.73 | 38.2 | | 96.09 |
| 30 | 1,294 | 31.75 | 37.2 | | 96.80 |
| 31 | 1,508 | 56.91 | 57.2 | | 98.13 |
| 32 | 1,744 | 28.01 | 24.3 | | 99.60 |
| 33 | 2,023 | 37.48 | 28.1 | | 101.25 |
| 34 | 3,272 | 33.67 | 15.6 | | 104.71 |
| 35 | 3,701 | 32.86 | 13.5 | | 105.28 |
| 36 | 4,523 | 33.88 | 11.3 | | 106.37 |
| 37 | 5,882 | 15.96 | 4.1 | | 108.17 |
| 38 | 6,705 | 15.26 | 3.4 | | 109.26 |
| 39 | 8,517 | 10.74 | 1.9 | | 111.15 |
| 40 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 41 | 13,438 | 0.00 | 0.0 | | 116.03 |
| 42 | 15,970 | 0.00 | 0.0 | | 118.54 |
| 43 | 18,693 | 0.00 | 0.0 | | 121.24 |
| 44 | 19,983 | 0.00 | 0.0 | | 122.52 |
| 45 | 21,034 | 0.00 | 0.0 | | 123.56 |
| 46 | 24,044 | 0.00 | 0.0 | | 126.55 |
| 47 | 25,525 | 0.00 | 0.0 | | 128.01 |
| 48 | 26,672 | 0.00 | 0.0 | | 129.15 |
| 49 | 28,918 | 0.00 | 0.0 | | 131.38 |

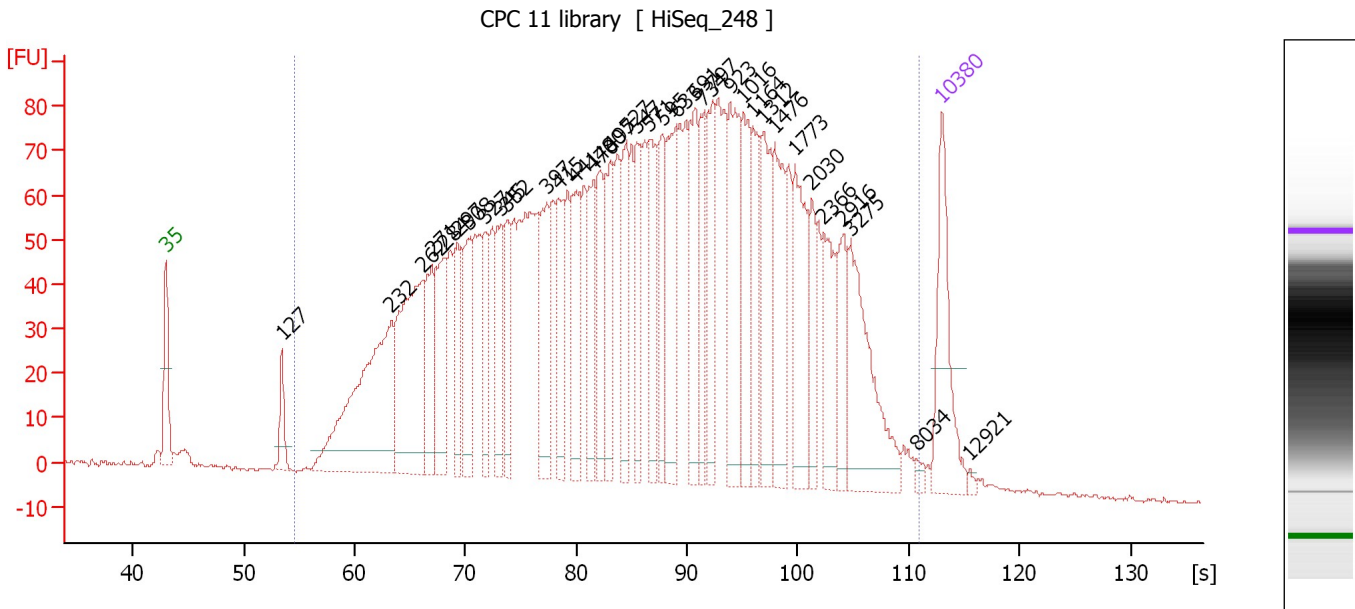
Region table for sample 4 : CPC 2 library

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 148 | 659 | 436 | 1,528.5 | 4,878.0 | 1,252.22 | 52 | 26.1 |

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Electropherogram Summary Continued ...



Overall Results for sample 5 : CPC 11 library

Number of peaks found: 36 Corr. Area 1: 3,667.9
 Noise: 0.4

Peak table for sample 5 : CPC 11 library

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 127 | 36.62 | 437.9 | | 53.46 |
| 3 | 232 | 287.11 | 1,878.7 | | 63.35 |
| 4 | 262 | 218.23 | 1,259.7 | | 66.20 |
| 5 | 271 | 78.33 | 438.1 | | 66.98 |
| 6 | 284 | 97.95 | 522.6 | | 68.19 |
| 7 | 297 | 64.71 | 330.6 | | 69.35 |
| 8 | 308 | 87.53 | 431.2 | | 70.27 |
| 9 | 327 | 59.59 | 276.1 | | 71.82 |
| 10 | 345 | 58.61 | 257.6 | | 73.23 |
| 11 | 352 | 58.79 | 253.1 | | 73.81 |
| 12 | 397 | 82.28 | 314.1 | | 77.39 |
| 13 | 415 | 70.24 | 256.7 | | 78.46 |
| 14 | 441 | 74.93 | 257.2 | | 79.96 |
| 15 | 470 | 71.11 | 229.3 | | 81.56 |
| 16 | 480 | 68.66 | 216.6 | | 82.14 |
| 17 | 497 | 78.38 | 238.7 | | 83.11 |
| 18 | 527 | 79.44 | 228.6 | | 84.52 |
| 19 | 547 | 64.51 | 178.7 | | 85.48 |
| 20 | 571 | 76.46 | 202.8 | | 86.65 |
| 21 | 595 | 57.26 | 145.9 | | 87.76 |
| 22 | 633 | 93.38 | 223.4 | | 89.02 |
| 23 | 691 | 89.15 | 195.5 | | 90.76 |
| 24 | 734 | 60.24 | 124.3 | | 91.49 |
| 25 | 797 | 72.85 | 138.5 | | 92.31 |

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Electropherogram Summary Continued ...

... Peak table for sample 5 : CPC 11 library

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 923 | 100.73 | 165.4 | | 93.96 |
| 27 | 1,016 | 74.41 | 111.0 | | 95.08 |
| 28 | 1,164 | 59.04 | 76.8 | | 96.00 |
| 29 | 1,312 | 76.81 | 88.7 | | 96.92 |
| 30 | 1,476 | 80.22 | 82.3 | | 97.93 |
| 31 | 1,773 | 82.42 | 70.4 | | 99.78 |
| 32 | 2,030 | 34.79 | 26.0 | | 101.28 |
| 33 | 2,366 | 58.58 | 37.5 | | 102.34 |
| 34 | 2,916 | 45.00 | 23.4 | | 104.09 |
| 35 | 3,275 | 108.12 | 50.0 | | 104.72 |
| 36 | 8,034 | 4.71 | 0.9 | | 110.67 |
| 37 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 38 | 12,921 | 0.00 | 0.0 | | 115.52 |

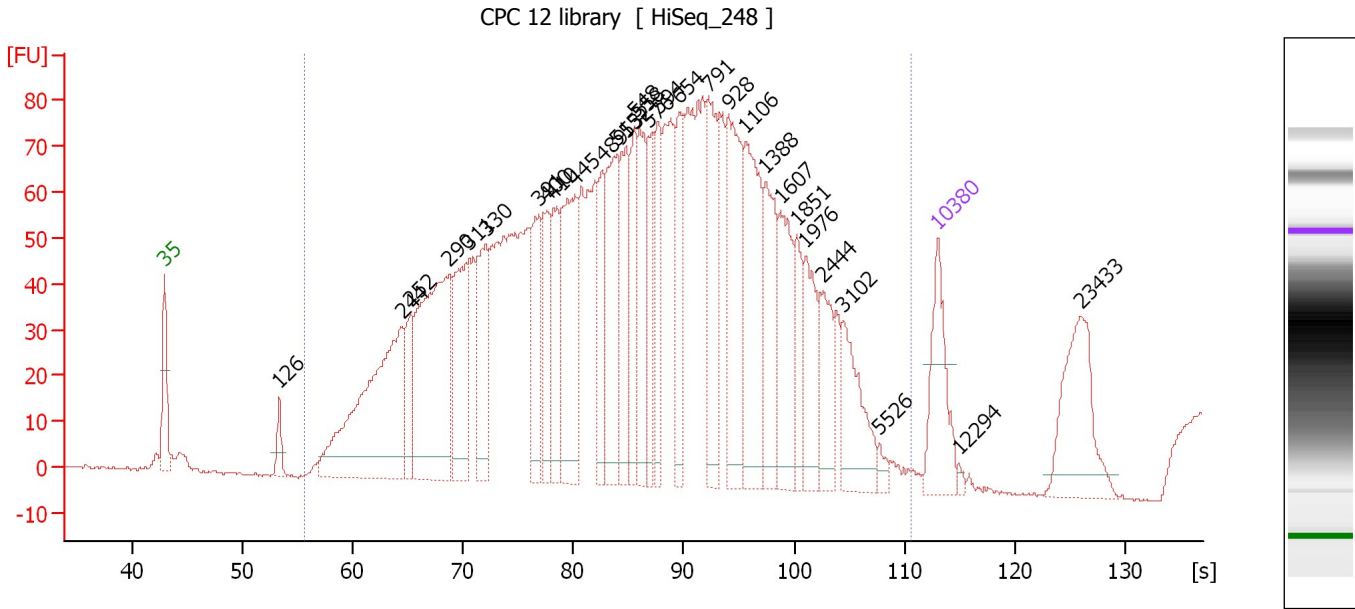
Region table for sample 5 : CPC 11 library

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 139 | 8,275 | 985 | 3,667.9 | 13,350.6 | 3,893.65 | 98 | 100.0 |

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Electropherogram Summary Continued ...



Overall Results for sample 6 : CPC 12 library

Number of peaks found: 30 Corr. Area 1: 2,722.7
 Noise: 0.4

Peak table for sample 6 : CPC 12 library

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 126 | 28.96 | 349.2 | | 53.36 |
| 3 | 244 | 372.12 | 2,315.3 | | 64.45 |
| 4 | 252 | 66.45 | 399.6 | | 65.23 |
| 5 | 290 | 337.37 | 1,763.4 | | 68.73 |
| 6 | 311 | 162.99 | 794.5 | | 70.53 |
| 7 | 330 | 126.79 | 581.5 | | 72.09 |
| 8 | 391 | 89.18 | 345.8 | | 76.91 |
| 9 | 400 | 84.44 | 319.9 | | 77.64 |
| 10 | 410 | 89.68 | 331.1 | | 78.22 |
| 11 | 445 | 180.68 | 615.2 | | 80.16 |
| 12 | 489 | 73.37 | 227.2 | | 82.65 |
| 13 | 515 | 148.39 | 436.7 | | 83.96 |
| 14 | 532 | 102.87 | 292.8 | | 84.79 |
| 15 | 548 | 87.30 | 241.6 | | 85.52 |
| 16 | 558 | 98.82 | 268.4 | | 86.00 |
| 17 | 576 | 73.44 | 193.1 | | 86.88 |
| 18 | 594 | 73.12 | 186.6 | | 87.70 |
| 19 | 654 | 98.20 | 227.4 | | 89.65 |
| 20 | 791 | 135.82 | 260.3 | | 92.23 |
| 21 | 928 | 157.47 | 257.2 | | 94.03 |
| 22 | 1,106 | 157.00 | 215.2 | | 95.63 |
| 23 | 1,388 | 97.43 | 106.4 | | 97.38 |
| 24 | 1,607 | 97.07 | 91.5 | | 98.75 |
| 25 | 1,851 | 46.56 | 38.1 | | 100.26 |

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Electropherogram Summary Continued ...

... Peak table for sample 6 : CPC 12 library

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 1,976 | 68.24 | 52.3 | | 101.03 |
| 27 | 2,444 | 57.56 | 35.7 | | 102.59 |
| 28 | 3,102 | 76.30 | 37.3 | | 104.49 |
| 29 | 5,526 | 8.76 | 2.4 | | 107.70 |
| 30 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 31 | 12,294 | 0.00 | 0.0 | | 114.90 |
| 32 | 23,433 | 0.00 | 0.0 | | 125.94 |

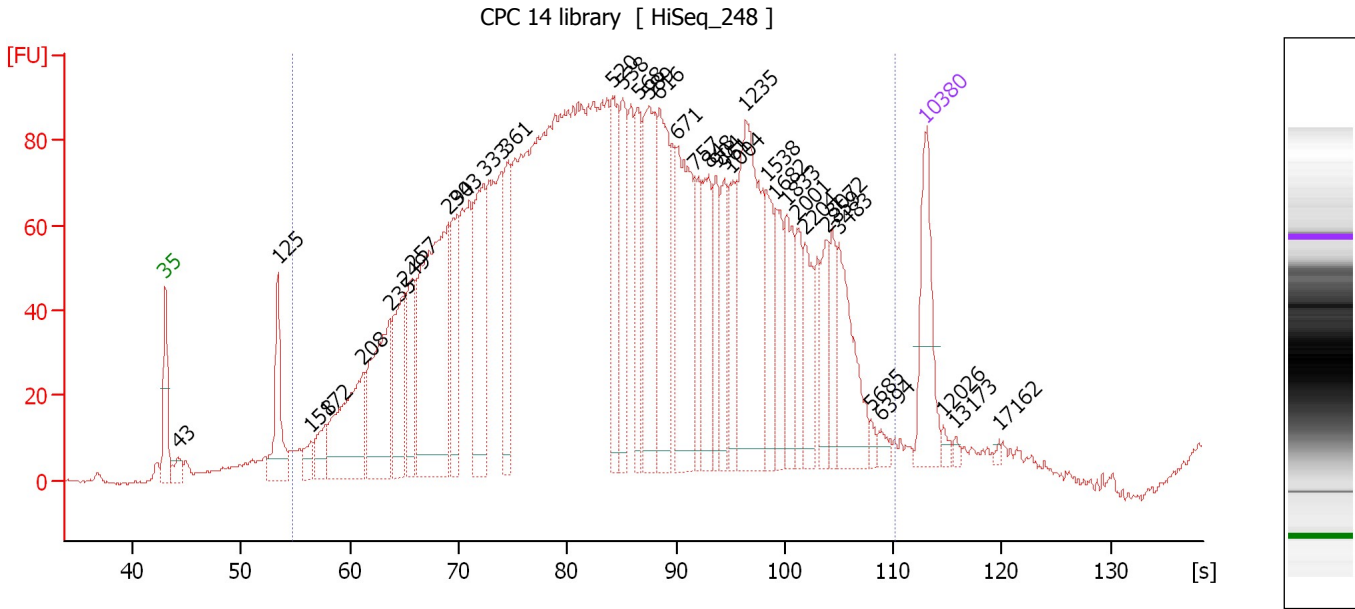
Region table for sample 6 : CPC 12 library

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 150 | 8,017 | 775 | 2,722.7 | 12,465.7 | 3,662.01 | 98 | 83.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_003.xad

Created: 10/1/2015 3:52:48 PM
 Modified: 10/1/2015 4:42:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : CPC 14 library

Number of peaks found: 37 Corr. Area 1: 3,790.1
 Noise: 0.3

Peak table for sample 8 : CPC 14 library

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 43 | 23.19 | 822.6 | | 44.19 |
| 3 | 125 | 105.77 | 1,278.7 | | 53.33 |
| 4 | 158 | 22.62 | 216.8 | | 56.45 |
| 5 | 172 | 37.93 | 333.9 | | 57.78 |
| 6 | 208 | 164.40 | 1,196.2 | | 61.19 |
| 7 | 235 | 175.96 | 1,134.6 | | 63.66 |
| 8 | 249 | 109.29 | 663.9 | | 65.00 |
| 9 | 257 | 91.19 | 537.7 | | 65.69 |
| 10 | 294 | 336.79 | 1,736.5 | | 69.10 |
| 11 | 303 | 96.36 | 482.1 | | 69.89 |
| 12 | 333 | 165.72 | 753.6 | | 72.31 |
| 13 | 361 | 100.74 | 423.4 | | 74.49 |
| 14 | 520 | 105.61 | 308.0 | | 84.18 |
| 15 | 538 | 89.57 | 252.1 | | 85.07 |
| 16 | 568 | 78.35 | 208.9 | | 86.50 |
| 17 | 589 | 141.32 | 363.4 | | 87.49 |
| 18 | 616 | 139.20 | 342.6 | | 88.48 |
| 19 | 671 | 165.35 | 373.3 | | 90.16 |
| 20 | 757 | 54.96 | 110.0 | | 91.79 |
| 21 | 848 | 79.96 | 142.9 | | 92.98 |
| 22 | 904 | 49.61 | 83.1 | | 93.72 |
| 23 | 961 | 55.28 | 87.2 | | 94.46 |
| 24 | 1,004 | 47.18 | 71.2 | | 95.01 |
| 25 | 1,235 | 196.72 | 241.3 | | 96.44 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_003.xad

Created: 10/1/2015 3:52:48 PM
 Modified: 10/1/2015 4:42:57 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : CPC 14 library

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 1,538 | 52.14 | 51.4 | | 98.32 |
| 27 | 1,682 | 48.13 | 43.4 | | 99.21 |
| 28 | 1,833 | 55.32 | 45.7 | | 100.15 |
| 29 | 2,001 | 36.66 | 27.8 | | 101.19 |
| 30 | 2,204 | 41.99 | 28.9 | | 101.83 |
| 31 | 2,859 | 40.58 | 21.5 | | 103.90 |
| 32 | 3,072 | 30.55 | 15.1 | | 104.45 |
| 33 | 3,483 | 84.37 | 36.7 | | 104.99 |
| 34 | 5,685 | 5.73 | 1.5 | | 107.91 |
| 35 | 6,394 | 8.27 | 2.0 | | 108.85 |
| 36 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 37 | 12,026 | 0.00 | 0.0 | | 114.63 |
| 38 | 13,173 | 0.00 | 0.0 | | 115.77 |
| 39 | 17,162 | 0.00 | 0.0 | | 119.72 |

Region table for sample 8 : CPC 14 library

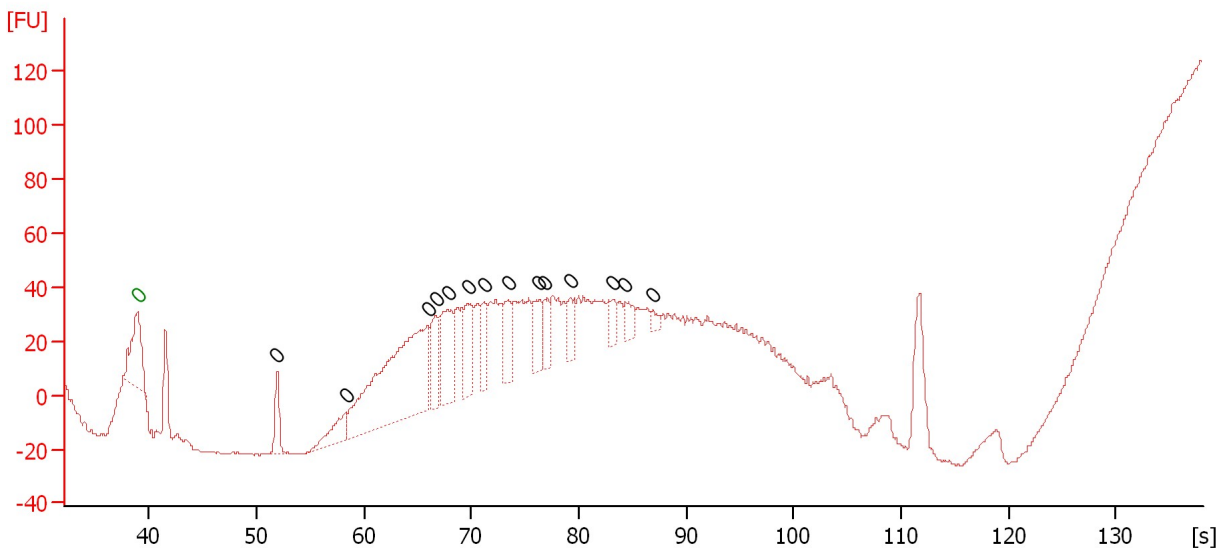
| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 140 | 7,552 | 865 | 3,790.1 | 16,470.7 | 4,533.50 | 96 | 100.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_003.xad

Created: 10/1/2015 3:52:48 PM
 Modified: 10/1/2015 4:42:57 PM

Electropherogram Summary Continued ...

CPC 17 library [HiSeq_248]



Overall Results for sample 9 : CPC 17 library

Number of peaks found: 14 Noise: 0.5

Peak table for sample 9 : CPC 17 library

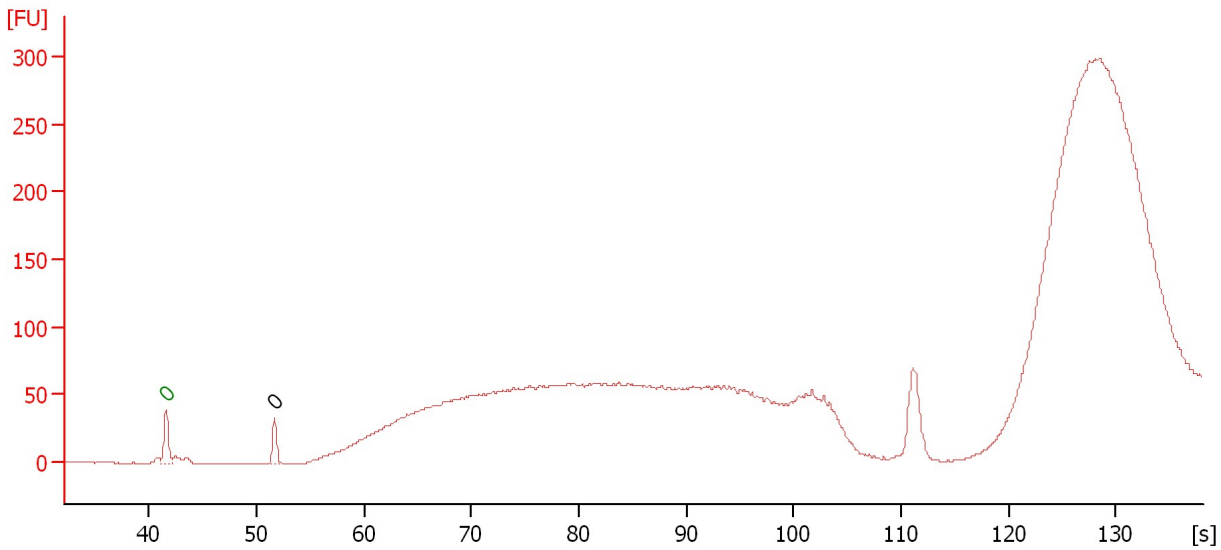
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 0 | 0.00 | 0.0 | Lower Marker | 38.90 |
| 2 | 0 | 0.00 | 0.0 | | 51.90 |
| 3 | 0 | 0.00 | 0.0 | | 58.35 |
| 4 | 0 | 0.00 | 0.0 | | 65.95 |
| 5 | 0 | 0.00 | 0.0 | | 66.70 |
| 6 | 0 | 0.00 | 0.0 | | 67.80 |
| 7 | 0 | 0.00 | 0.0 | | 69.65 |
| 8 | 0 | 0.00 | 0.0 | | 71.15 |
| 9 | 0 | 0.00 | 0.0 | | 73.40 |
| 10 | 0 | 0.00 | 0.0 | | 76.30 |
| 11 | 0 | 0.00 | 0.0 | | 76.85 |
| 12 | 0 | 0.00 | 0.0 | | 79.20 |
| 13 | 0 | 0.00 | 0.0 | | 83.25 |
| 14 | 0 | 0.00 | 0.0 | | 84.35 |
| 15 | 0 | 0.00 | 0.0 | | 86.85 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_003.xad

Created: 10/1/2015 3:52:48 PM
Modified: 10/1/2015 4:42:57 PM

Electropherogram Summary Continued ...

CPC 18 library [HiSeq_248]



Overall Results for sample 10 : CPC 18 library

Number of peaks found: 1 Noise: 0.3

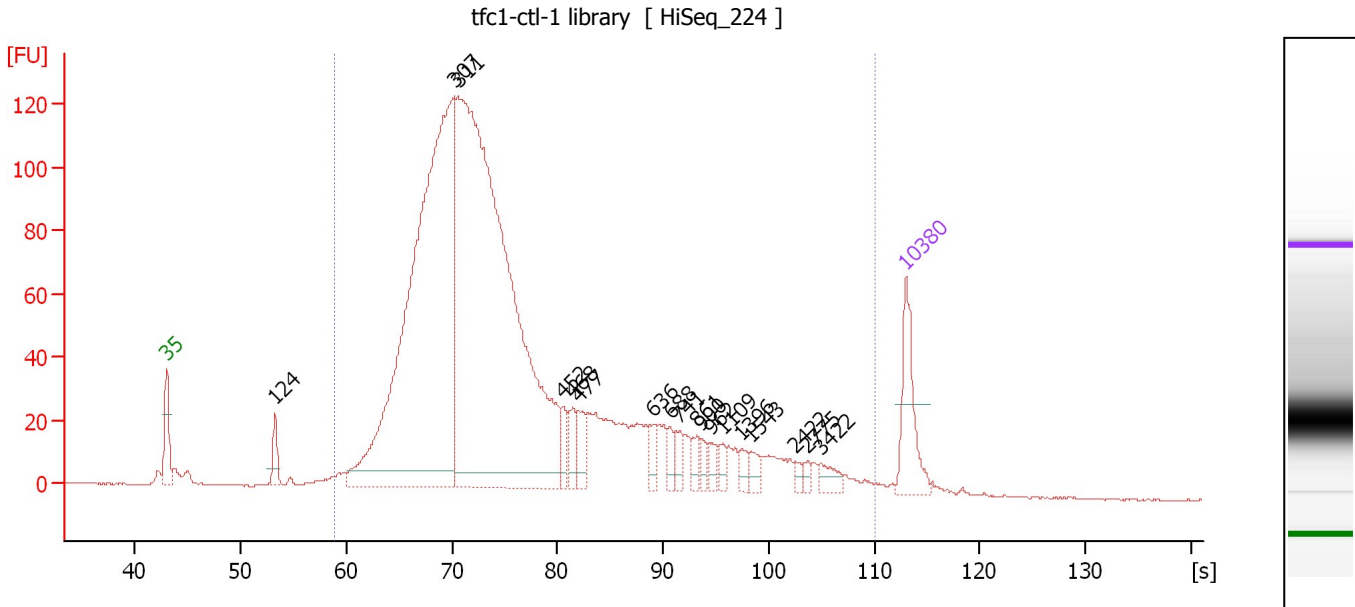
Peak table for sample 10 : CPC 18 library

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 0 | 0.00 | 0.0 | Lower Marker | 41.60 |
| 2 | 0 | 0.00 | 0.0 | | 51.70 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_003.xad

Created: 10/1/2015 3:52:48 PM
 Modified: 10/1/2015 4:42:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : tfc1-ctl-1 library

Number of peaks found: 18 Corr. Area 1: 2,385.5
 Noise: 0.3

Peak table for sample 11 : tfc1-ctl-1 library

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 124 | 38.71 | 472.3 | | 53.23 |
| 3 | 307 | 1,280.35 | 6,321.6 | | 70.22 |
| 4 | 311 | 1,622.54 | 7,896.1 | | 70.57 |
| 5 | 452 | 29.34 | 98.4 | | 80.54 |
| 6 | 468 | 32.97 | 106.7 | | 81.46 |
| 7 | 477 | 38.58 | 122.5 | | 81.97 |
| 8 | 636 | 21.68 | 51.7 | | 89.09 |
| 9 | 688 | 19.03 | 41.9 | | 90.67 |
| 10 | 741 | 23.09 | 47.2 | | 91.58 |
| 11 | 861 | 18.38 | 32.3 | | 93.16 |
| 12 | 900 | 13.90 | 23.4 | | 93.67 |
| 13 | 962 | 12.52 | 19.7 | | 94.48 |
| 14 | 1,109 | 12.63 | 17.3 | | 95.65 |
| 15 | 1,396 | 13.65 | 14.8 | | 97.43 |
| 16 | 1,543 | 14.57 | 14.3 | | 98.35 |
| 17 | 2,422 | 7.37 | 4.6 | | 102.52 |
| 18 | 2,775 | 6.85 | 3.7 | | 103.64 |
| 19 | 3,422 | 18.13 | 8.0 | | 104.91 |
| 20 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Region table for sample 11 : tfc1-ctl-1 library

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 184 | 7,353 | 556 | 2,385.5 | 15,676.8 | 3,554.63 | 97 | 100.0 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_003.xad

Created: 10/1/2015 3:52:48 PM
Modified: 10/1/2015 4:42:57 PM

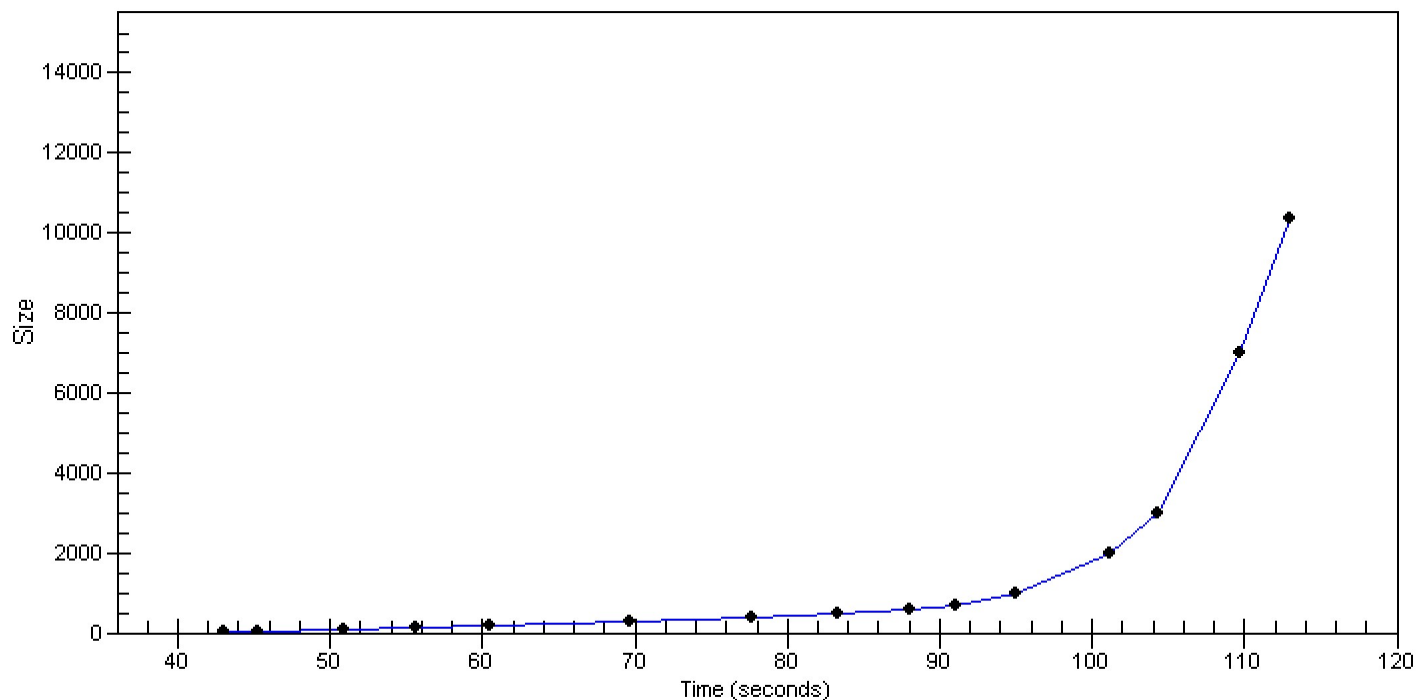
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_003.xad

Created: 10/1/2015 3:52:48 PM
Modified: 10/1/2015 4:42:57 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_003.xad

Created: 10/1/2015 3:52:48 PM
 Modified: 10/1/2015 4:42:57 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 | | 10/1/2015 4:34:06 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-01\2015-10-01_003.xad) | | Instrument | Run | | 10/1/2015 3:52:54 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 10/1/2015 3:52:54 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 10/1/2015 3:52:54 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 10/1/2015 3:52:54 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 10/1/2015 3:52:54 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 10/1/2015 3:52:54 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 10/1/2015 3:52:54 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |