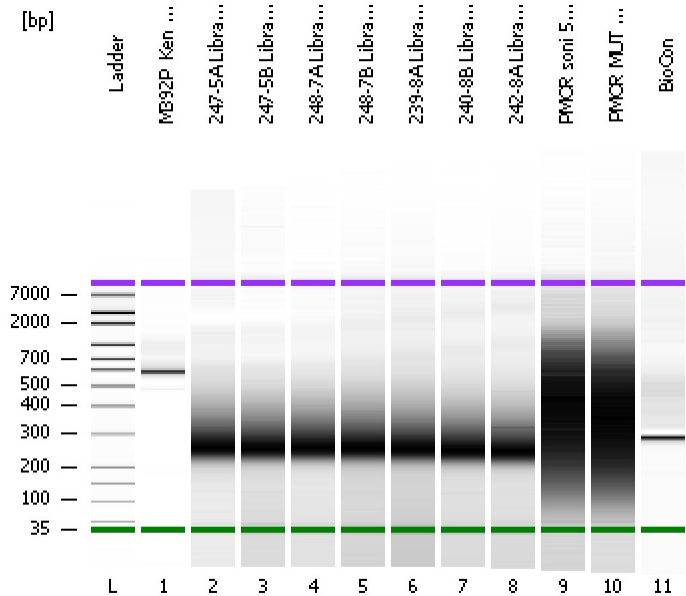


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
Modified: 8/8/2016 1:15:52 PM

Electrophoresis File Run Summary



Instrument Information:

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

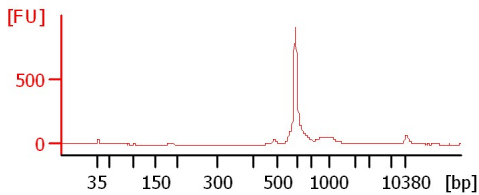
Assay Information:

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

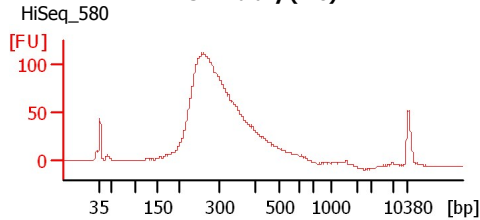
Chip Information:

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

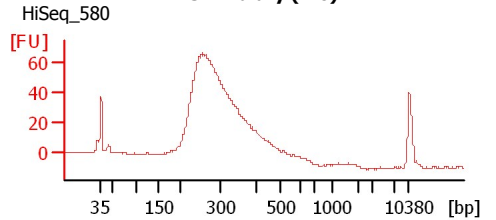
M392P_Ken 1:10



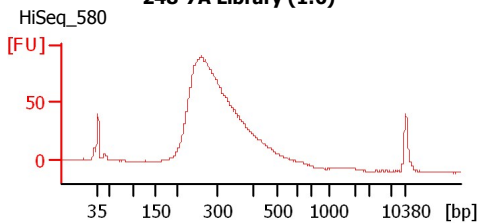
247-5A Library (1:6)



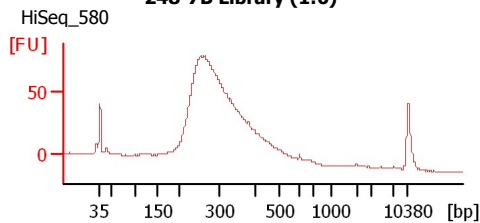
247-5B Library (1:6)



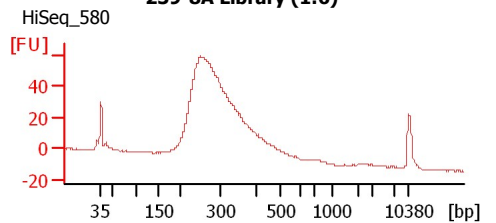
248-7A Library (1:6)



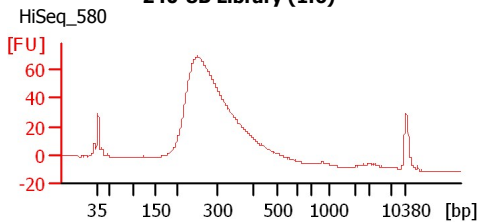
248-7B Library (1:6)



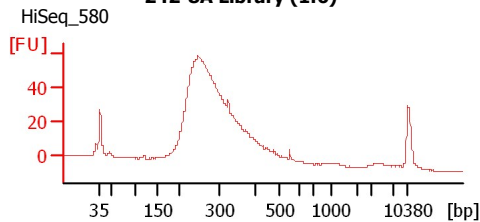
239-8A Library (1:6)



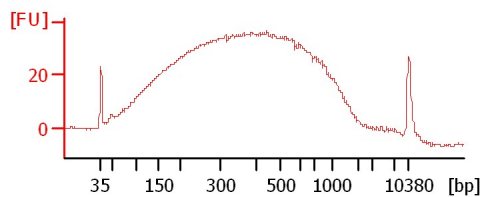
240-8B Library (1:6)



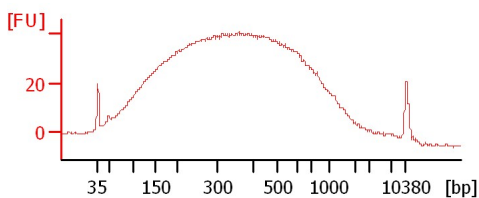
242-8A Library (1:6)



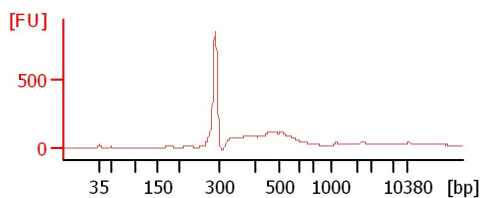
PMOR soni 50 sec



PMOR MUT soni 50 sec



BioCon



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
Modified: 8/8/2016 1:15:52 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|----------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| M392P_Ken 1:10 | | <input type="checkbox"/> | ✓ | | | |
| 247-5A Library (1:6) | HiSeq_580 | <input type="checkbox"/> | ✓ | | | |
| 247-5B Library (1:6) | HiSeq_580 | <input type="checkbox"/> | ✓ | | | |
| 248-7A Library (1:6) | HiSeq_580 | <input type="checkbox"/> | ✓ | | | |
| 248-7B Library (1:6) | HiSeq_580 | <input type="checkbox"/> | ✓ | | | |
| 239-8A Library (1:6) | HiSeq_580 | <input type="checkbox"/> | ✓ | | | |
| 240-8B Library (1:6) | HiSeq_580 | <input type="checkbox"/> | ✓ | | | |
| 242-8A Library (1:6) | HiSeq_580 | <input type="checkbox"/> | ✓ | | | |
| PMOR soni 50 sec | | <input type="checkbox"/> | ✓ | | | |
| PMOR MUT soni 50 sec | | <input type="checkbox"/> | ✓ | | | |
| BioCon | | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
Modified: 8/8/2016 1:15:52 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

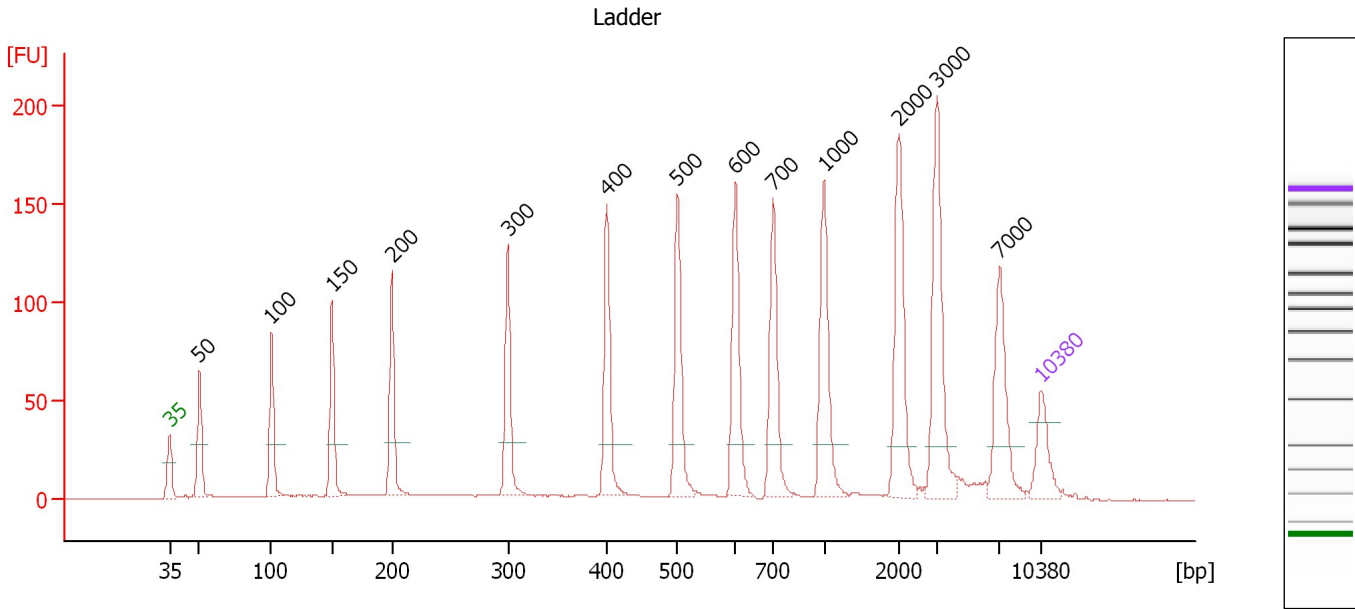
Ladder

| 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:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
 Modified: 8/8/2016 1:15:52 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

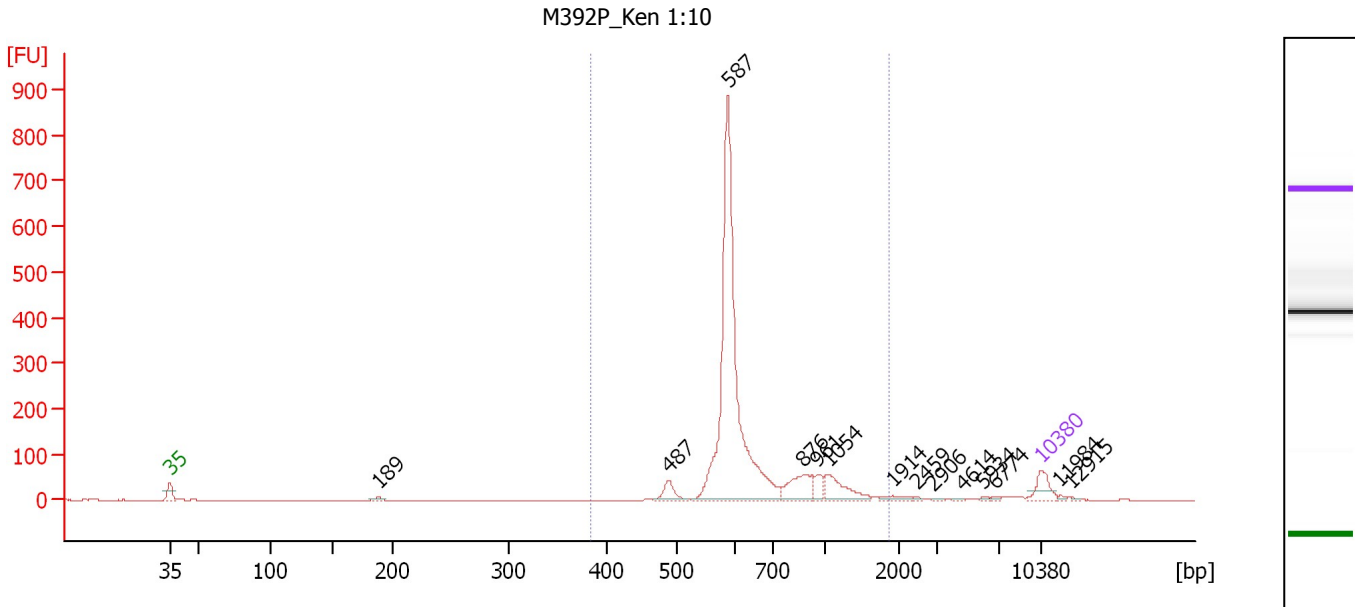
Peak table for Ladder

| 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 | 45.39 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 51.18 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 56.06 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.85 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 70.17 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 78.15 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.83 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 88.47 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.51 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.60 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.63 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.67 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.71 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
 Modified: 8/8/2016 1:15:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : M392P_Ken 1:10

Number of peaks found: 14 Corr. Area 1: 1,712.1
 Noise: 0.2

Peak table for sample 1 : M392P_Ken 1:10

| 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 | 189 | 18.31 | 146.6 | | 59.82 |
| 3 | 487 | 88.76 | 276.2 | | 83.09 |
| 4 | 587 | 1,792.13 | 4,625.3 | | 87.87 |
| 5 | 876 | 169.98 | 293.9 | | 93.91 |
| 6 | 961 | 51.11 | 80.6 | | 95.07 |
| 7 | 1,054 | 143.46 | 206.1 | | 95.93 |
| 8 | 1,914 | 28.00 | 22.2 | | 101.12 |
| 9 | 2,459 | 5.76 | 3.5 | | 103.03 |
| 10 | 2,906 | 6.87 | 3.6 | | 104.39 |
| 11 | 4,614 | 6.69 | 2.2 | | 106.71 |
| 12 | 5,934 | 7.23 | 1.8 | | 108.37 |
| 13 | 6,774 | 7.83 | 1.8 | | 109.42 |
| 14 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 15 | 11,984 | 0.00 | 0.0 | | 114.56 |
| 16 | 12,915 | 0.00 | 0.0 | | 115.47 |

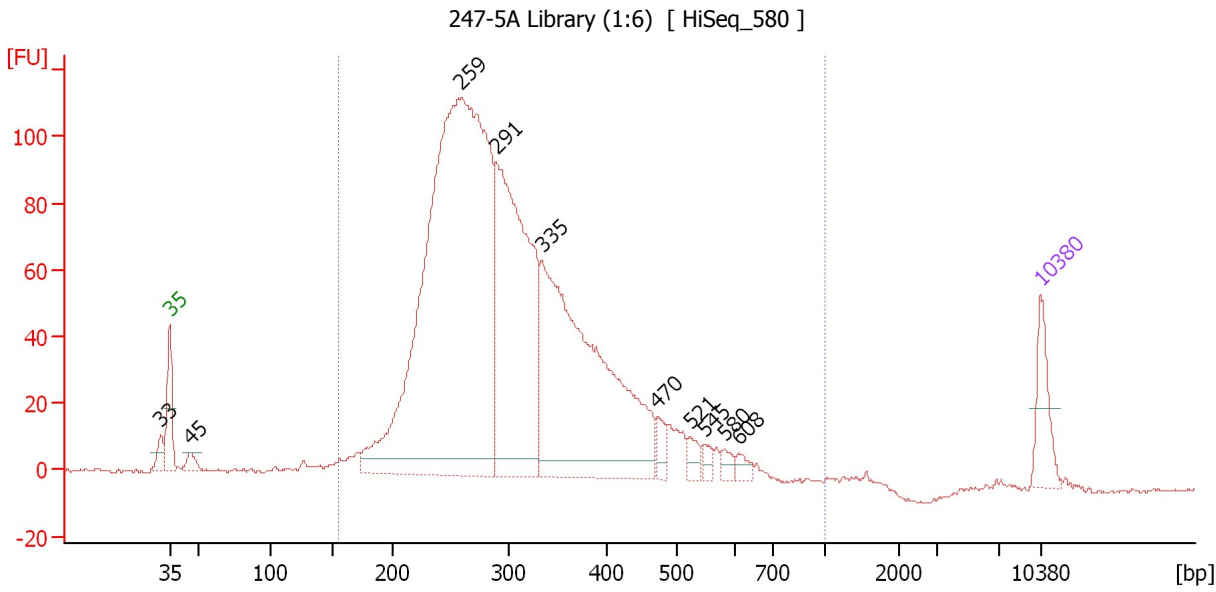
Region table for sample 1 : M392P_Ken 1:10

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 383 | 1,860 | 683 | 1,712.1 | 5,301.3 | 2,226.16 | 94 | 31.2 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
 Modified: 8/8/2016 1:15:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 247-5A Library (1:6)

Number of peaks found: 10 Corr. Area 1: 2,045.3
 Noise: 0.4

Peak table for sample 2 : 247-5A Library (1:6)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 33 | 0.00 | 0.0 | | 42.29 |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 3 | 45 | 27.23 | 907.6 | | 44.67 |
| 4 | 259 | 2,341.60 | 13,688.6 | | 66.37 |
| 5 | 291 | 907.73 | 4,732.0 | | 69.30 |
| 6 | 335 | 1,035.38 | 4,686.8 | | 72.94 |
| 7 | 470 | 33.78 | 108.8 | | 82.15 |
| 8 | 521 | 28.11 | 81.7 | | 84.83 |
| 9 | 545 | 20.10 | 55.8 | | 85.94 |
| 10 | 580 | 19.55 | 51.0 | | 87.56 |
| 11 | 608 | 20.90 | 52.1 | | 88.72 |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

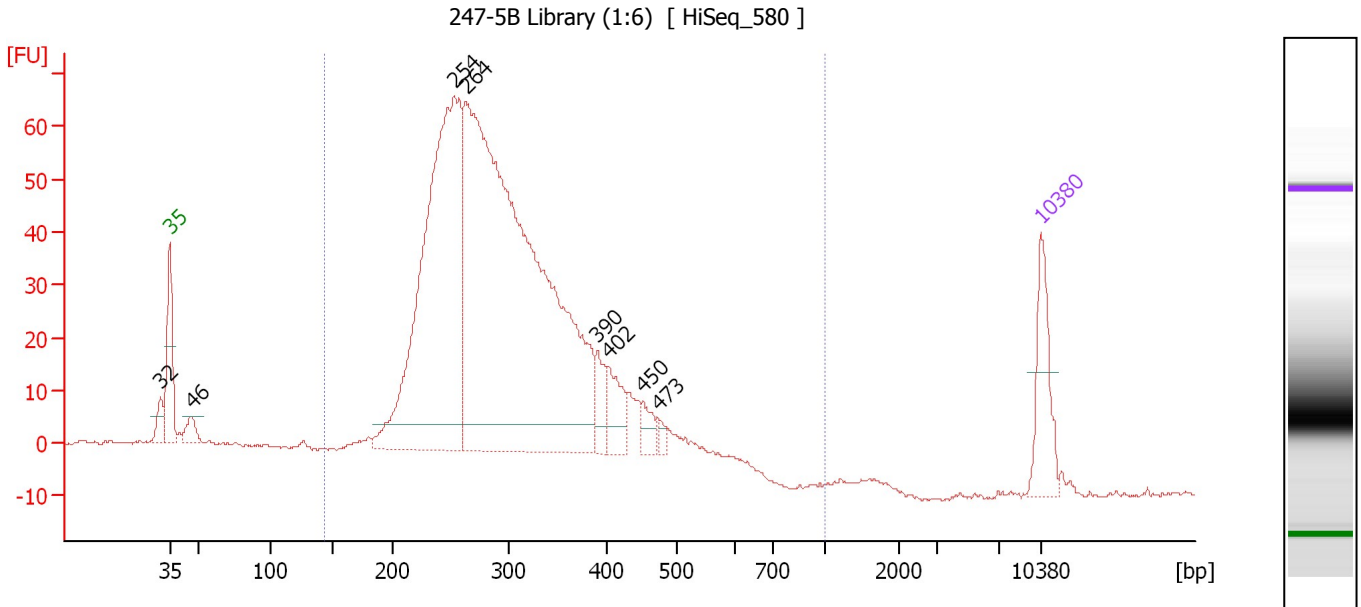
Region table for sample 2 : 247-5A Library (1:6)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 155 | 1,000 | 313 | 2,045.3 | 23,423.4 | 4,448.30 | 98 | 27.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
 Modified: 8/8/2016 1:15:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 247-5B Library (1:6)

Number of peaks found: 8 Corr. Area 1: 1,178.2
 Noise: 0.3

Peak table for sample 3 : 247-5B Library (1:6)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 32 | 0.00 | 0.0 | | 42.28 |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 3 | 46 | 31.39 | 1,029.2 | | 44.79 |
| 4 | 254 | 886.57 | 5,287.0 | | 65.89 |
| 5 | 264 | 1,584.90 | 9,098.2 | | 66.81 |
| 6 | 390 | 44.11 | 171.2 | | 77.39 |
| 7 | 402 | 54.57 | 205.7 | | 78.26 |
| 8 | 450 | 27.79 | 93.7 | | 80.96 |
| 9 | 473 | 11.54 | 37.0 | | 82.29 |
| 10 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

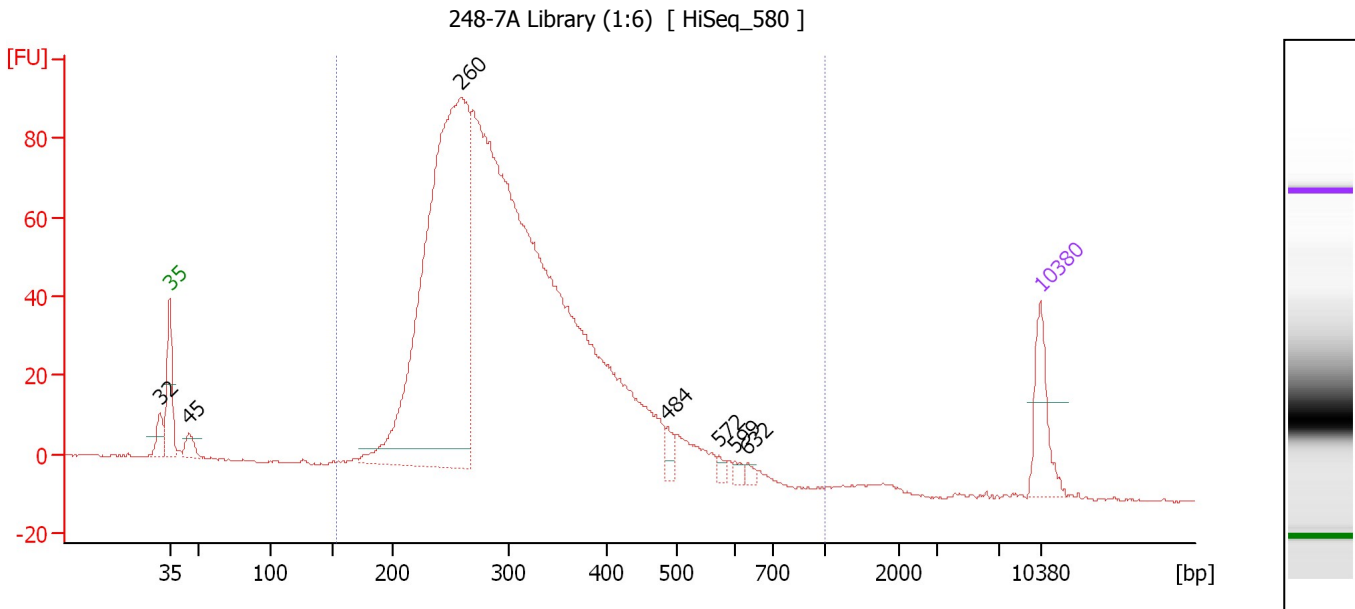
Region table for sample 3 : 247-5B Library (1:6)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 143 | 1,000 | 305 | 1,178.2 | 14,681.2 | 2,760.34 | 95 | 24.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
 Modified: 8/8/2016 1:15:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 248-7A Library (1:6)

Number of peaks found: 7 Corr. Area 1: 1,633.1
 Noise: 0.3

Peak table for sample 4 : 248-7A Library (1:6)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 32 | 0.00 | 0.0 | | 42.22 |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 3 | 45 | 35.28 | 1,194.3 | | 44.56 |
| 4 | 260 | 1,440.70 | 8,391.8 | | 66.45 |
| 5 | 484 | 24.60 | 77.1 | | 82.90 |
| 6 | 572 | 9.41 | 24.9 | | 87.16 |
| 7 | 599 | 10.12 | 25.6 | | 88.40 |
| 8 | 632 | 9.84 | 23.6 | | 89.44 |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

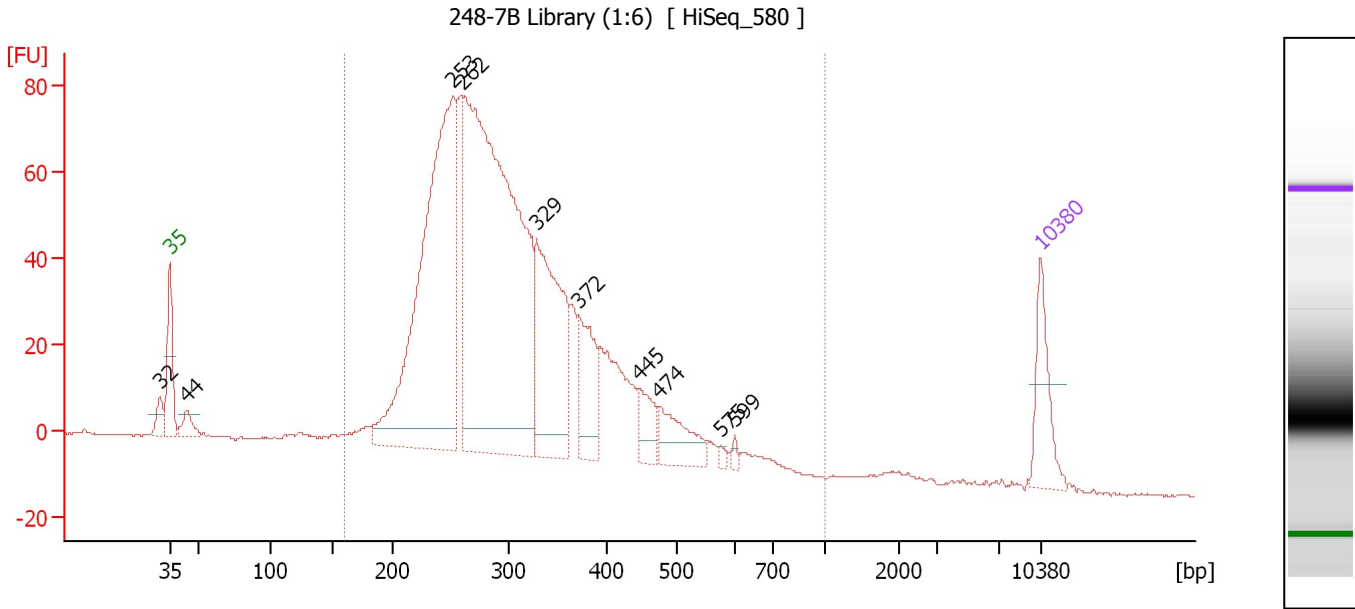
Region table for sample 4 : 248-7A Library (1:6)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 153 | 1,000 | 312 | 1,633.1 | 20,303.7 | 3,885.98 | 98 | 25.3 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
 Modified: 8/8/2016 1:15:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 248-7B Library (1:6)

Number of peaks found: 10 Corr. Area 1: 1,456.3
 Noise: 0.2

Peak table for sample 5 : 248-7B Library (1:6)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 32 | 0.00 | 0.0 | | 42.21 |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 3 | 44 | 37.85 | 1,315.1 | | 44.37 |
| 4 | 253 | 930.30 | 5,563.7 | | 65.82 |
| 5 | 262 | 1,337.33 | 7,738.3 | | 66.62 |
| 6 | 329 | 355.29 | 1,636.6 | | 72.48 |
| 7 | 372 | 127.58 | 519.7 | | 75.91 |
| 8 | 445 | 58.17 | 198.0 | | 80.72 |
| 9 | 474 | 87.34 | 279.1 | | 82.36 |
| 10 | 575 | 6.94 | 18.3 | | 87.32 |
| 11 | 599 | 7.59 | 19.2 | | 88.43 |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

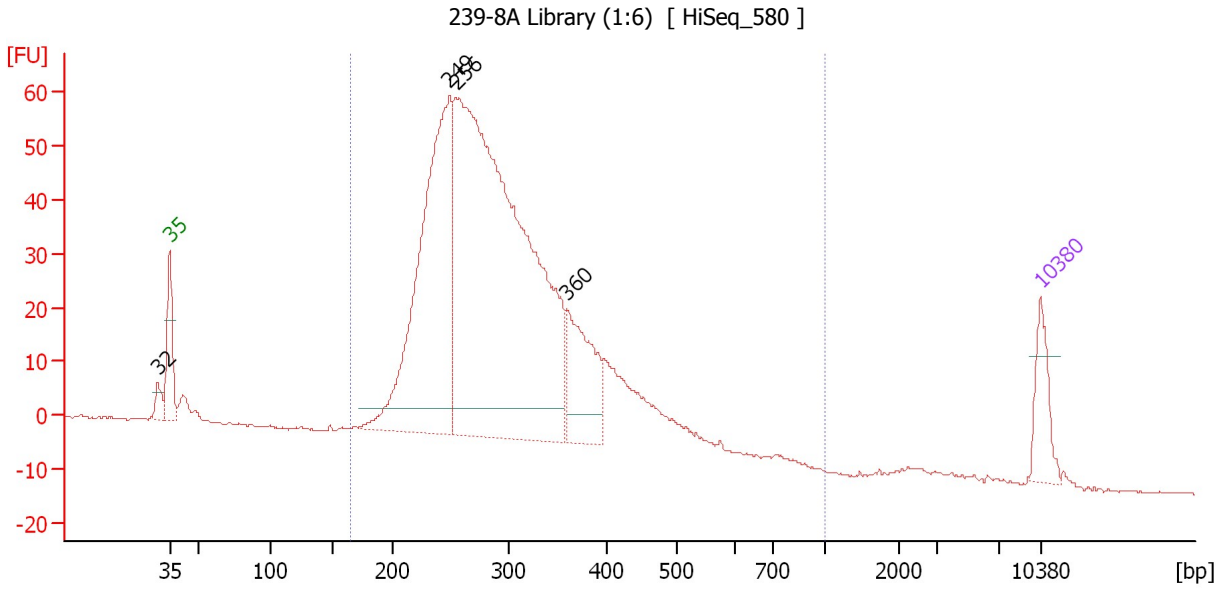
Region table for sample 5 : 248-7B Library (1:6)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 160 | 1,000 | 311 | 1,456.3 | 17,411.1 | 3,303.98 | 96 | 26.3 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
 Modified: 8/8/2016 1:15:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 239-8A Library (1:6)

Number of peaks found: 4 Corr. Area 1: 1,038.7
 Noise: 0.2

Peak table for sample 6 : 239-8A Library (1:6)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 32 | 0.00 | 0.0 | | 42.03 |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 3 | 249 | 955.36 | 5,804.2 | | 65.45 |
| 4 | 256 | 2,070.38 | 12,266.0 | | 66.05 |
| 5 | 360 | 236.60 | 996.8 | | 74.93 |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

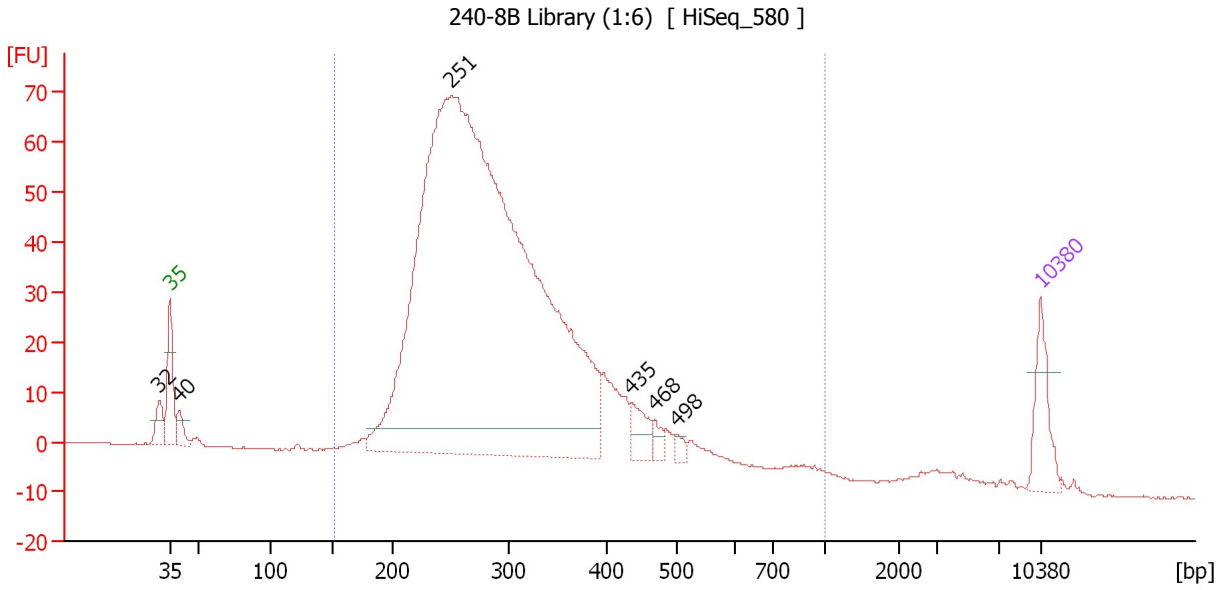
Region table for sample 6 : 239-8A Library (1:6)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 165 | 1,000 | 302 | 1,038.7 | 18,448.4 | 3,458.80 | 97 | 23.5 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
 Modified: 8/8/2016 1:15:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 240-8B Library (1:6)

Number of peaks found: 6 Corr. Area 1: 1,198.4
 Noise: 0.2

Peak table for sample 7 : 240-8B Library (1:6)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 32 | 0.00 | 0.0 | | 42.18 |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 3 | 40 | 39.66 | 1,509.0 | | 43.77 |
| 4 | 251 | 3,440.66 | 20,772.7 | | 65.60 |
| 5 | 435 | 55.74 | 194.3 | | 80.12 |
| 6 | 468 | 22.26 | 72.2 | | 81.99 |
| 7 | 498 | 14.86 | 45.2 | | 83.75 |
| 8 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

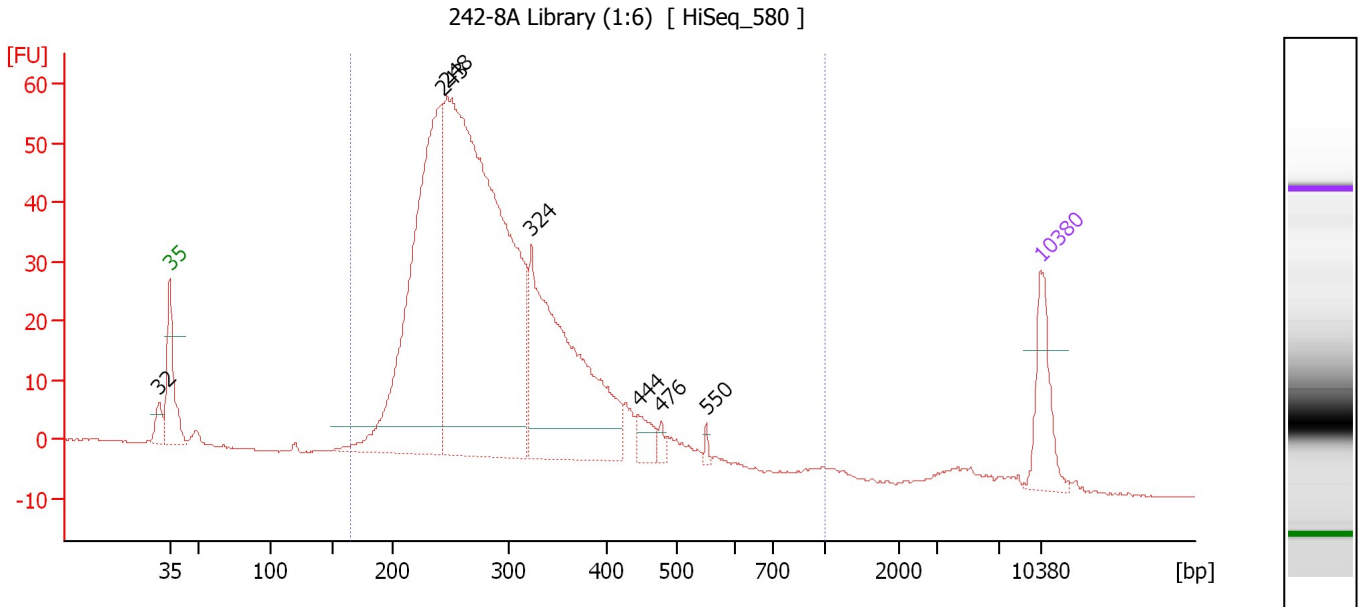
Region table for sample 7 : 240-8B Library (1:6)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 153 | 1,000 | 303 | 1,198.4 | 19,692.2 | 3,639.47 | 96 | 28.3 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
 Modified: 8/8/2016 1:15:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 242-8A Library (1:6)

Number of peaks found: 7 Corr. Area 1: 959.5
 Noise: 0.2

Peak table for sample 8 : 242-8A Library (1:6)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 32 | 0.00 | 0.0 | | 42.17 |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 3 | 243 | 752.97 | 4,692.1 | | 64.87 |
| 4 | 248 | 1,400.78 | 8,561.2 | | 65.32 |
| 5 | 324 | 534.94 | 2,501.5 | | 72.09 |
| 6 | 444 | 33.51 | 114.4 | | 80.64 |
| 7 | 476 | 11.81 | 37.6 | | 82.47 |
| 8 | 550 | 6.55 | 18.0 | | 86.13 |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

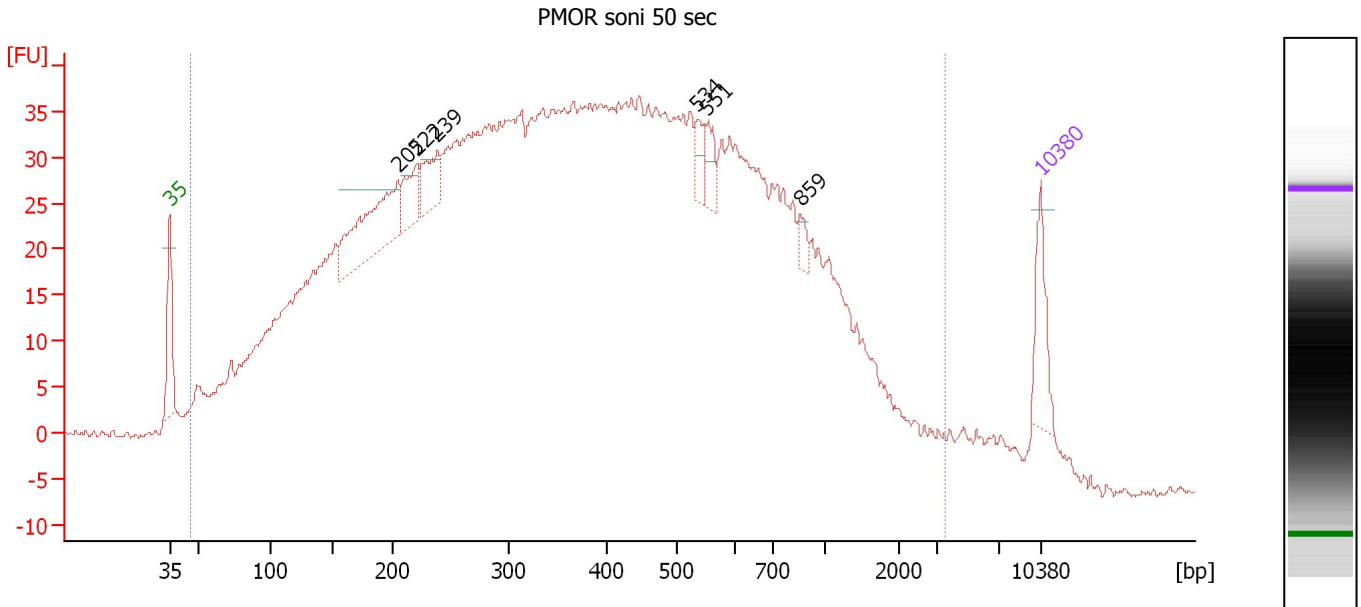
Region table for sample 8 : 242-8A Library (1:6)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 166 | 1,000 | 295 | 959.5 | 15,063.8 | 2,750.00 | 97 | 25.2 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
 Modified: 8/8/2016 1:15:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : PMOR soni 50 sec

Number of peaks found: 6 Corr. Area 1: 1,980.0
 Noise: 0.2

Peak table for sample 9 : PMOR soni 50 sec

| 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 | 205 | 245.66 | 1,811.3 | | 61.36 |
| 3 | 222 | 76.11 | 519.8 | | 62.89 |
| 4 | 239 | 78.39 | 496.1 | | 64.53 |
| 5 | 534 | 37.82 | 107.2 | | 85.43 |
| 6 | 551 | 44.82 | 123.1 | | 86.22 |
| 7 | 859 | 21.40 | 37.8 | | 93.68 |
| 8 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

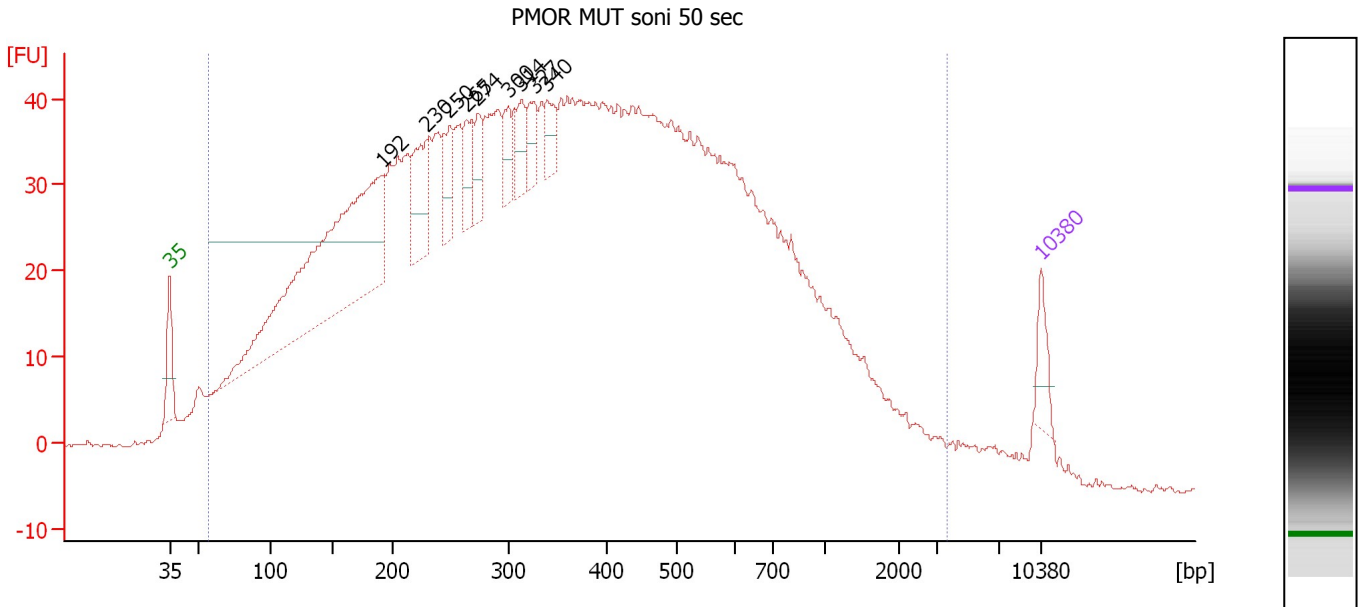
Region table for sample 9 : PMOR soni 50 sec

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 46 | 3,461 | 469 | 1,980.0 | 71,012.5 | 11,282.50 | 98 | 81.5 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
 Modified: 8/8/2016 1:15:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : PMOR MUT soni 50 sec

Number of peaks found: 9 Corr. Area 1: 2,171.6
 Noise: 0.1

Peak table for sample 10 : PMOR MUT soni 50 sec

| 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 | 192 | 1,495.34 | 11,786.5 | | 60.10 |
| 3 | 230 | 267.96 | 1,768.6 | | 63.60 |
| 4 | 250 | 153.76 | 933.6 | | 65.47 |
| 5 | 265 | 125.26 | 717.0 | | 66.88 |
| 6 | 274 | 119.69 | 662.4 | | 67.73 |
| 7 | 300 | 99.84 | 503.5 | | 70.21 |
| 8 | 314 | 120.85 | 583.3 | | 71.28 |
| 9 | 327 | 90.44 | 419.5 | | 72.30 |
| 10 | 340 | 80.58 | 359.0 | | 73.37 |
| 11 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

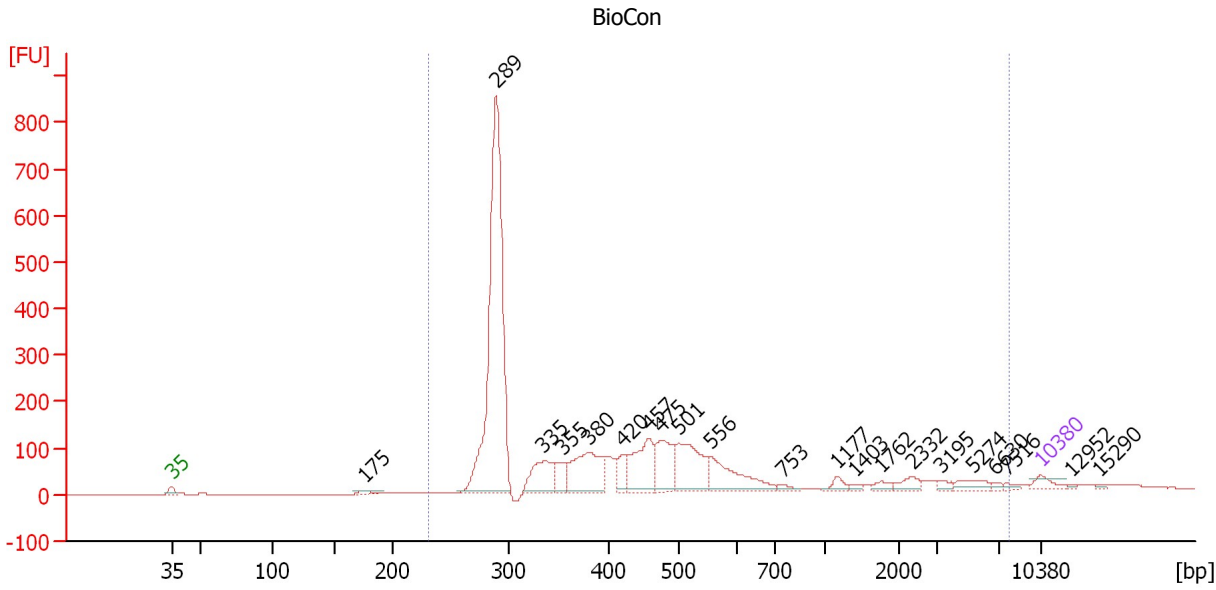
Region table for sample 10 : PMOR MUT soni 50 sec

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 57 | 3,590 | 450 | 2,171.6 | 121,309.7 | 18,959.14 | 98 | 85.1 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
 Modified: 8/8/2016 1:15:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : BioCon

Number of peaks found: 21 Corr. Area 1: 3,234.5
 Noise: 0.1

Peak table for sample 11 : BioCon

| 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 | 175 | 49.57 | 428.6 | | 58.48 |
| 3 | 289 | 3,760.30 | 19,732.5 | | 69.12 |
| 4 | 335 | 419.25 | 1,898.3 | | 72.93 |
| 5 | 355 | 201.90 | 862.7 | | 74.53 |
| 6 | 380 | 655.08 | 2,610.0 | | 76.58 |
| 7 | 420 | 179.16 | 645.7 | | 79.31 |
| 8 | 457 | 559.51 | 1,853.2 | | 81.41 |
| 9 | 475 | 444.64 | 1,416.9 | | 82.44 |
| 10 | 501 | 654.82 | 1,981.9 | | 83.86 |
| 11 | 556 | 494.19 | 1,347.1 | | 86.42 |
| 12 | 753 | 36.75 | 74.0 | | 92.23 |
| 13 | 1,177 | 65.02 | 83.7 | | 96.67 |
| 14 | 1,403 | 23.07 | 24.9 | | 98.03 |
| 15 | 1,762 | 50.34 | 43.3 | | 100.20 |
| 16 | 2,332 | 81.23 | 52.8 | | 102.64 |
| 17 | 3,195 | 36.28 | 17.2 | | 104.92 |
| 18 | 5,274 | 92.34 | 26.5 | | 107.54 |
| 19 | 6,630 | 19.18 | 4.4 | | 109.24 |
| 20 | 7,516 | 25.09 | 5.1 | | 110.21 |
| 21 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 22 | 12,952 | 0.00 | 0.0 | | 115.50 |
| 23 | 15,290 | 0.00 | 0.0 | | 117.78 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
Modified: 8/8/2016 1:15:52 PM

Electropherogram Summary Continued ...

... Region table for sample 11 :

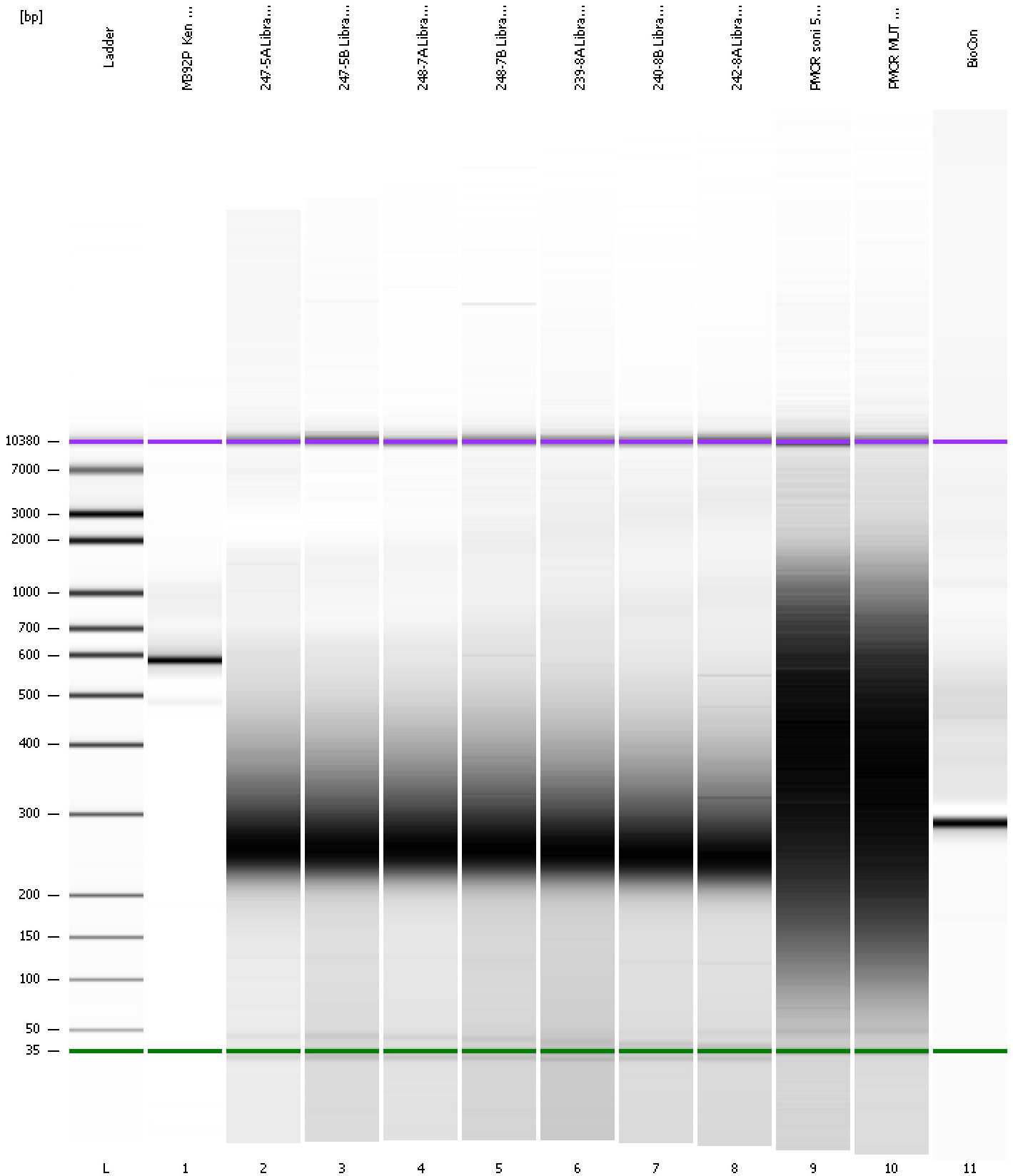
BioCon

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 231 | 7,836 | 651 | 3,234.5 | 32,977.4 | 7,919.86 | 98 | 100.0 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
Modified: 8/8/2016 1:15:52 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-08\2016-08-08_002.xad

Created: 8/8/2016 12:28:12 PM
 Modified: 8/8/2016 1:15:52 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 | | 8/8/2016 1:08:38 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\2016-08-08\2016-08-08_002.xad) | | Instrument | Run | | 8/8/2016 12:28:17 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 8/8/2016 12:28:17 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 8/8/2016 12:28:17 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 8/8/2016 12:28:17 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 8/8/2016 12:28:17 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 8/8/2016 12:28:17 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 8/8/2016 12:28:17 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |