

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-10-19\QC1648_BioA.xad

Created: 10/19/2023 10:29:51 AM
 Modified: 10/19/2023 11:17:23 AM

Electrophoresis File Run Summary

Instrument Information:

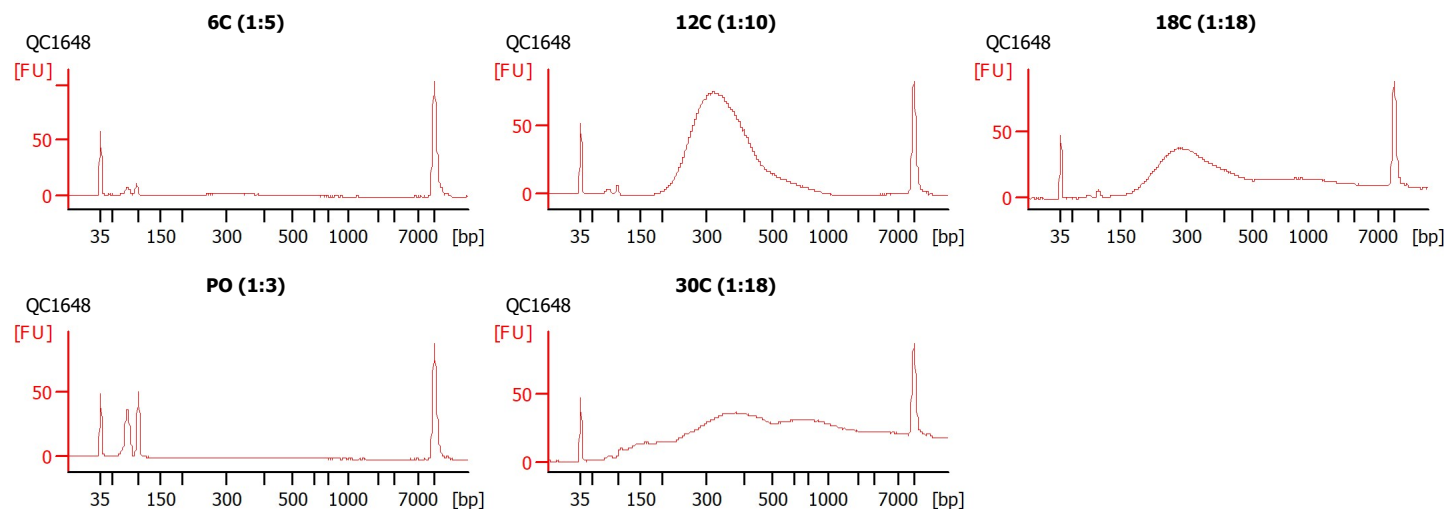
Instrument Name: DE34903152 Firmware: C.01.069
 Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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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Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| 6C (1:5) | QC1648 | <input type="checkbox"/> | ✓ | | | |
| 12C (1:10) | QC1648 | <input type="checkbox"/> | ✓ | | | |
| 18C (1:18) | QC1648 | <input type="checkbox"/> | ✓ | | | |
| PO (1:3) | QC1648 | <input type="checkbox"/> | ✓ | | | |
| 30C (1:18) | QC1648 | <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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

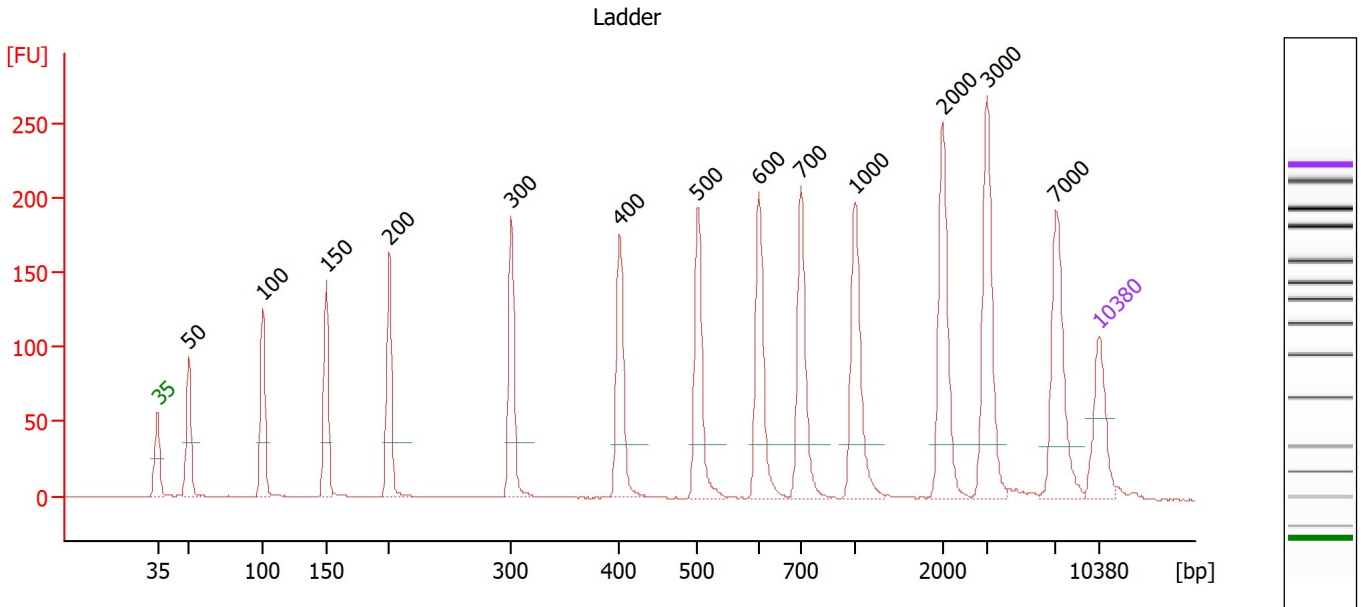
Ladder

| 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: 0.2

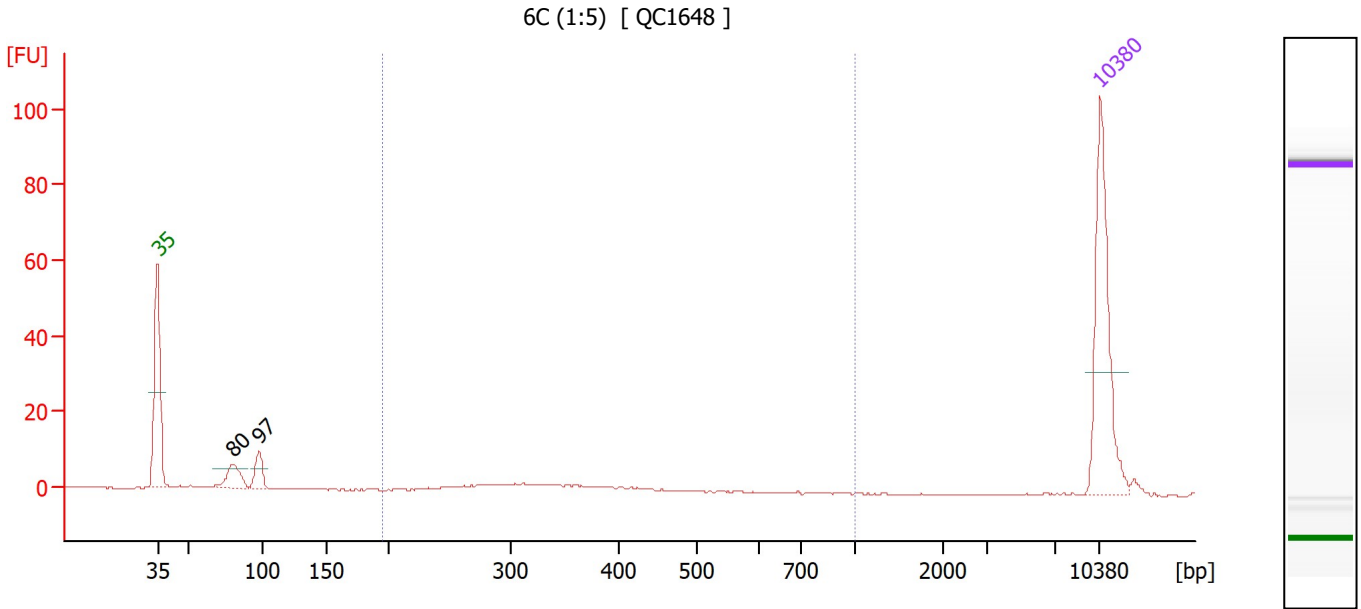
Peak table for Ladder

| 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 |

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 6C (1:5)

Number of peaks found: 2 Corr. Area 1: 31.9
 Noise: 0.2

Peak table for sample 5 : 6C (1:5)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 80 | 22.25 | 422.9 | |
| 3 | 97 | 17.90 | 279.6 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

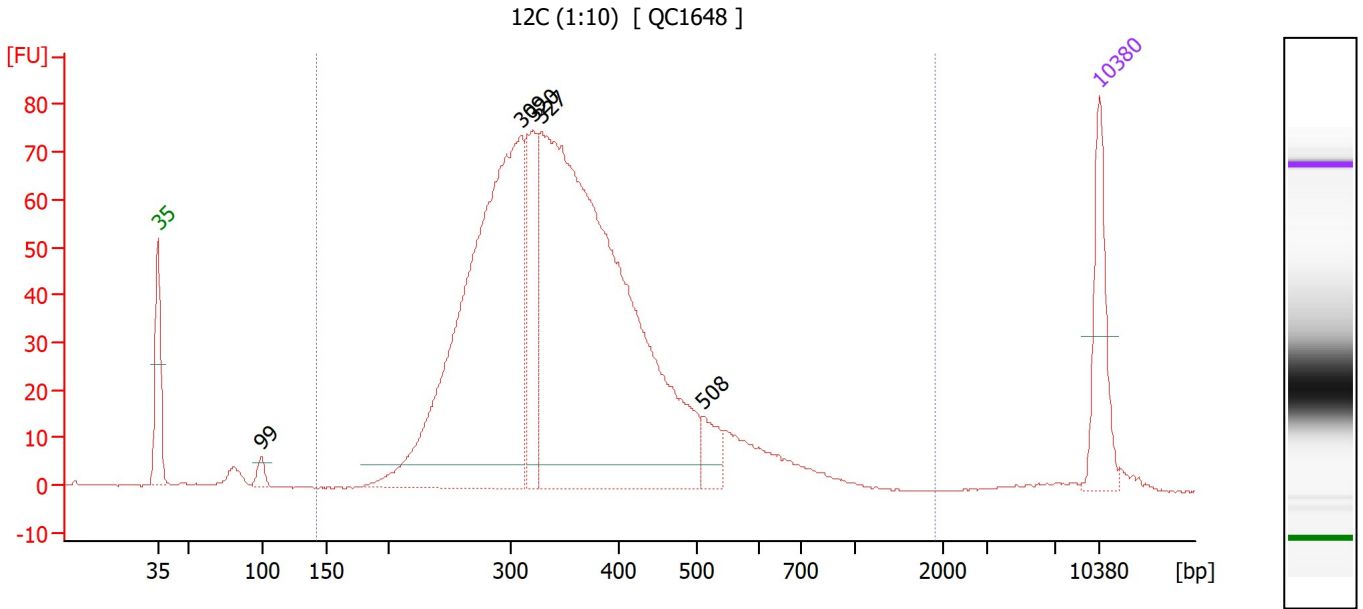
Region table for sample 5 : 6C (1:5)

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 194 | 1,000 | 31.9 | 47 | 353 | 26.3 | 36.76 | 169.5 | Blue |

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 12C (1:10)

Number of peaks found: 5 Corr. Area 1: 1,431.4
 Noise: 0.2

Peak table for sample 6 : 12C (1:10)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 99 | 15.28 | 233.9 | |
| 3 | 309 | 797.31 | 3,913.9 | |
| 4 | 320 | 140.07 | 663.6 | |
| 5 | 327 | 1,130.26 | 5,232.8 | |
| 6 | 508 | 35.73 | 106.5 | |
| 7 | 10,380 | 75.00 | 10.9 | Upper Marker |

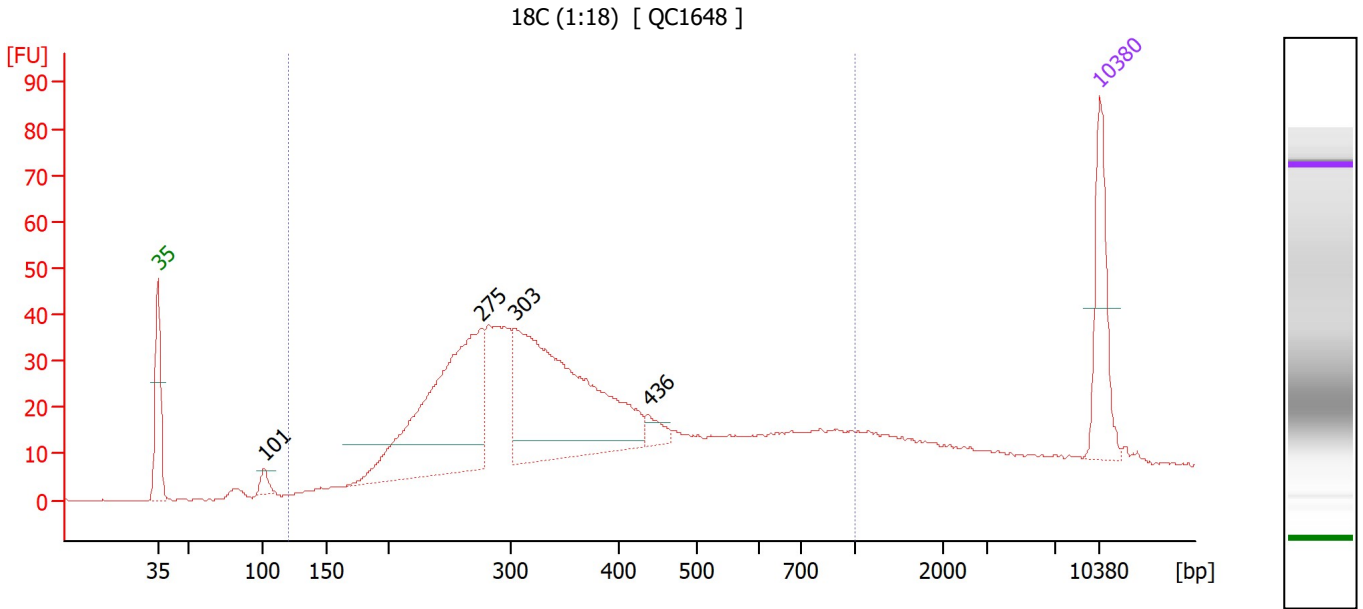
Region table for sample 6 : 12C (1:10)

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 142 | 1,906 | 1,431.4 | 96 | 366 | 33.5 | 2,190.00 | 9,967.7 | Blue |

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 18C (1:18)

Number of peaks found: 4 Corr. Area 1: 1,002.9
 Noise: 0.2

Peak table for sample 7 : 18C (1:18)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 101 | 16.35 | 245.3 | |
| 3 | 275 | 381.08 | 2,097.5 | |
| 4 | 303 | 407.72 | 2,037.0 | |
| 5 | 436 | 16.70 | 58.0 | |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker |

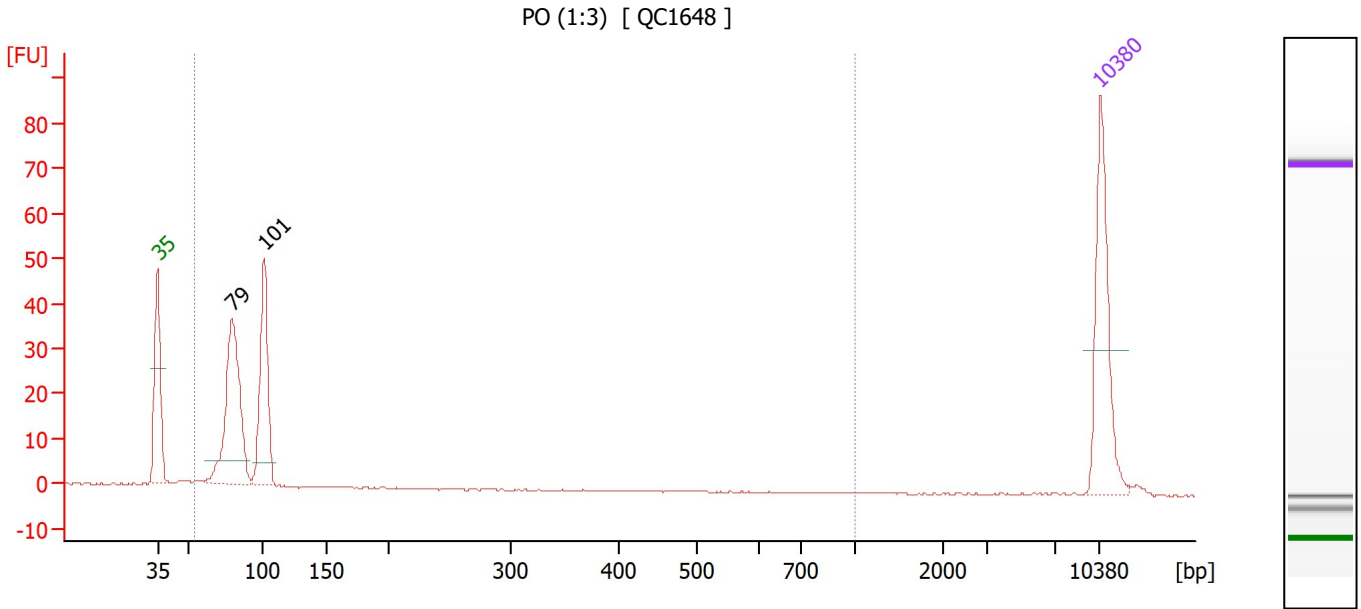
Region table for sample 7 : 18C (1:18)

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 120 | 1,000 | 1,002.9 | 75 | 395 | 45.0 | 1,724.23 | 8,289.5 | Blue |

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Electropherogram Summary Continued ...



Overall Results for sample 8 : PO (1:3)

Number of peaks found: 2 Corr. Area 1: 149.0
 Noise: 0.1

Peak table for sample 8 : PO (1:3)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 79 | 166.02 | 3,165.6 | |
| 3 | 101 | 119.96 | 1,800.2 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

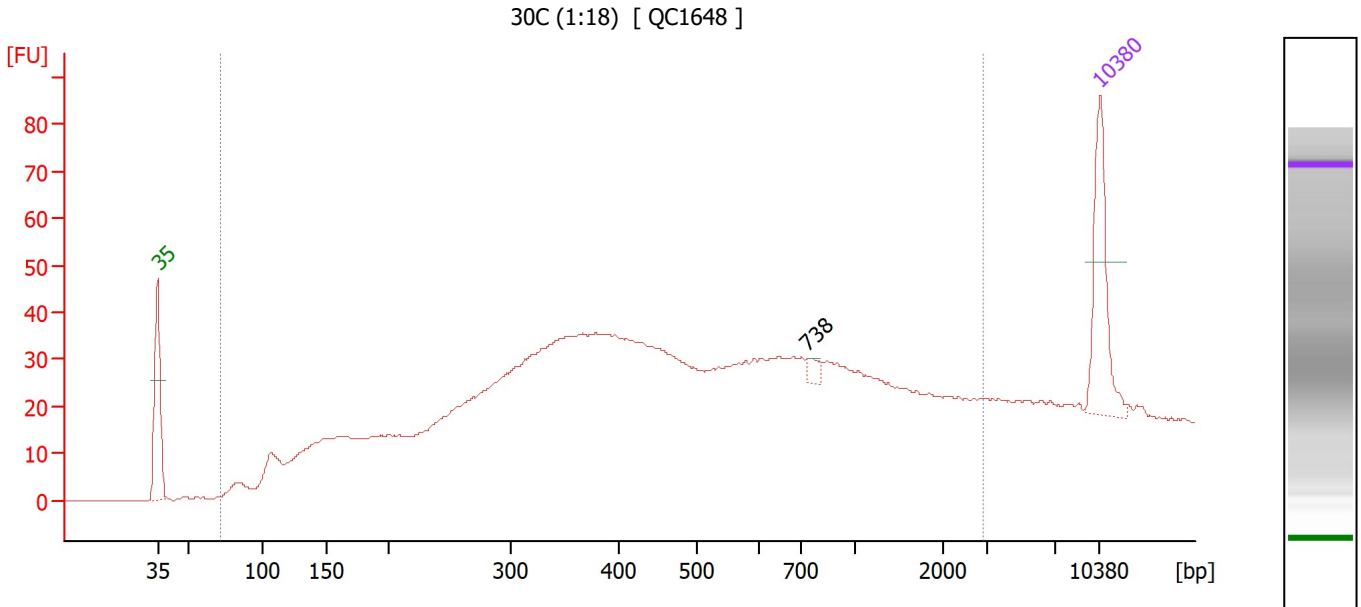
Region table for sample 8 : PO (1:3)

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 54 | 1,000 | 149.0 | 97 | 88 | 13.3 | 293.52 | 5,077.9 | Blue |

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 30C (1:18)

Number of peaks found: 1 Corr. Area 1: 1,519.2
 Noise: 0.2

Peak table for sample 9 : 30C (1:18)

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 738 | 9.35 | 19.2 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

Region table for sample 9 : 30C (1:18)

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 72 | 2,918 | 1,519.2 | 78 | 656 | 86.8 | 2,734.04 | 13,057.0 | Blue |

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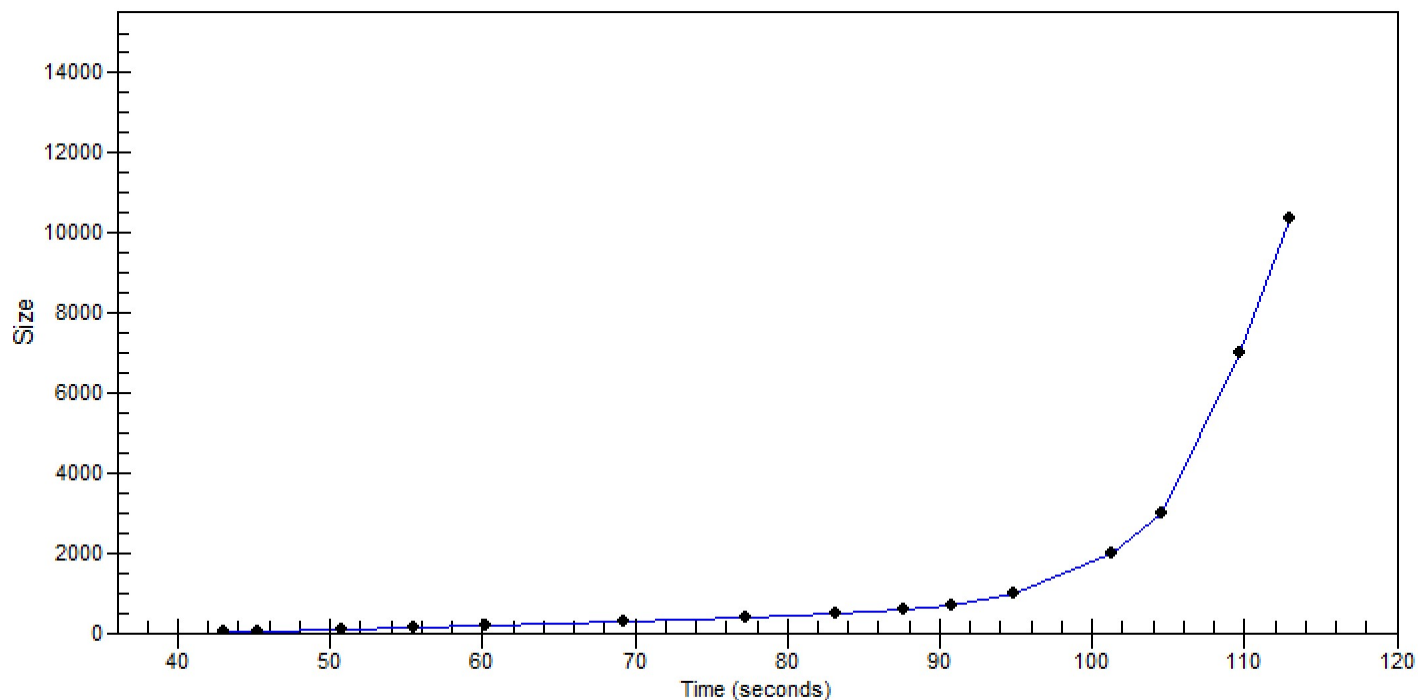
Gel Image

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Data Path: C:\...100 bioanalyzer\2100 expert\data\2023-10-19\QC1648_BioA.xad

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Curves

Standard Curve



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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 | | 10/19/2023 11:11:12 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-10-19\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-10-19_001.xad) | | Instrument | Run | | 10/19/2023 10:29:57 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Product Number : G2938C | | Instrument | Run | | 10/19/2023 10:29:57 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Name : | | Instrument | Run | | 10/19/2023 10:29:57 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Vendor : Agilent Technologies | | Instrument | Run | | 10/19/2023 10:29:57 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Serial# : DE34903152 | | Instrument | Run | | 10/19/2023 10:29:57 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Firmware : C.01.069 | | Instrument | Run | | 10/19/2023 10:29:57 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Cartridge : Electrode | | Instrument | Run | | 10/19/2023 10:29:57 AM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |