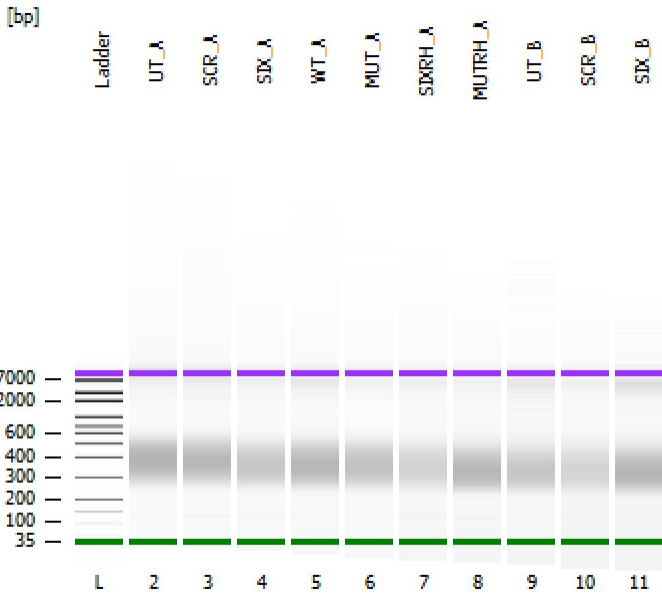


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
Modified: 10/16/2023 3:41:31 PM

**Electrophoresis File Run Summary**



Instrument Information:

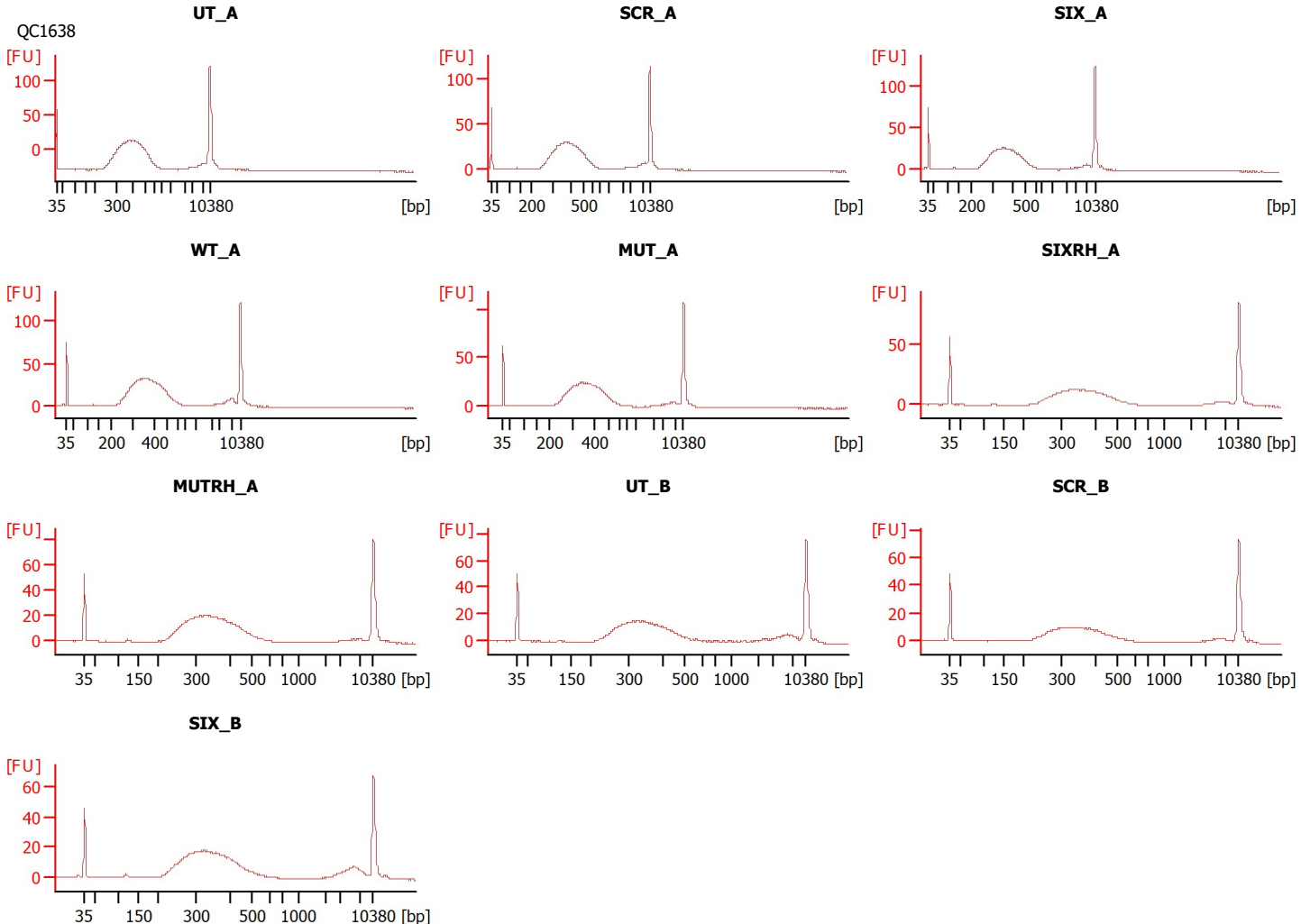
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 PM

**Electrophoresis File Run Summary (Chip Summary)**

| Sample Name | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| UT_A        | QC1638         | <input type="checkbox"/> | ✓      |             |              |              |
| SCR_A       |                | <input type="checkbox"/> | ✓      |             |              |              |
| SIX_A       |                | <input type="checkbox"/> | ✓      |             |              |              |
| WT_A        |                | <input type="checkbox"/> | ✓      |             |              |              |
| MUT_A       |                | <input type="checkbox"/> | ✓      |             |              |              |
| SIXRH_A     |                | <input type="checkbox"/> | ✓      |             |              |              |
| MUTRH_A     |                | <input type="checkbox"/> | ✓      |             |              |              |
| UT_B        |                | <input type="checkbox"/> | ✓      |             |              |              |
| SCR_B       |                | <input type="checkbox"/> | ✓      |             |              |              |
| SIX_B       |                | <input type="checkbox"/> | ✓      |             |              |              |
| Ladder      |                | <input type="checkbox"/> | ✓      |             |              |              |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 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

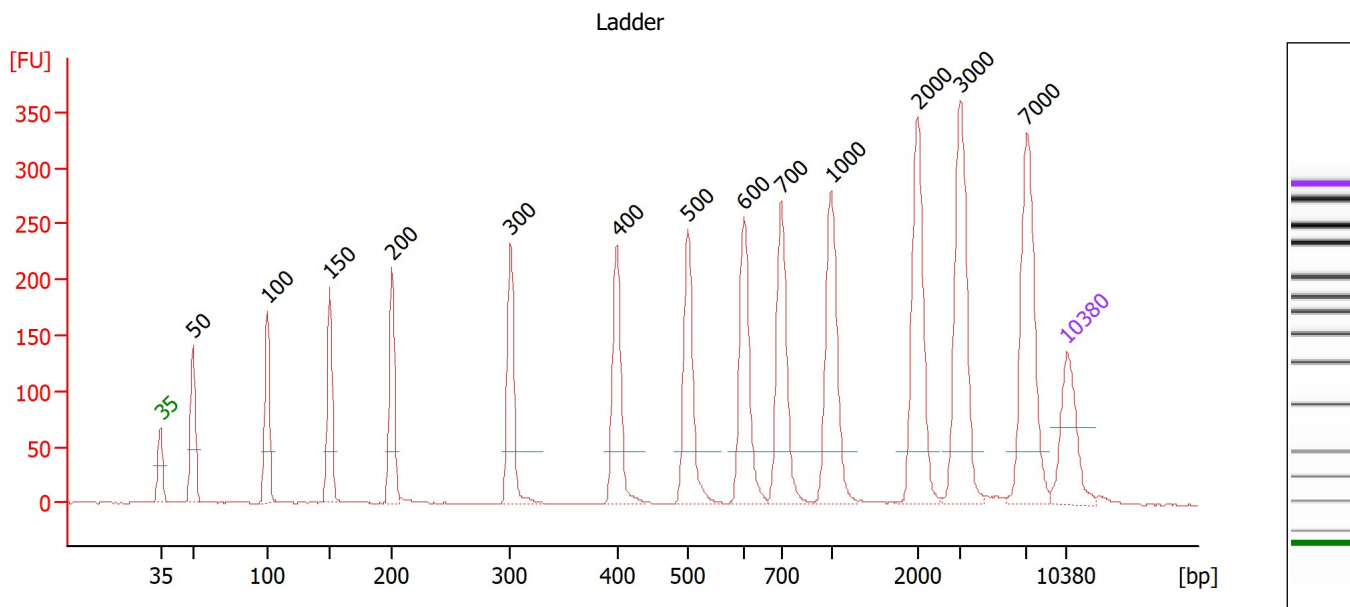
**Ladder**

| 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:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

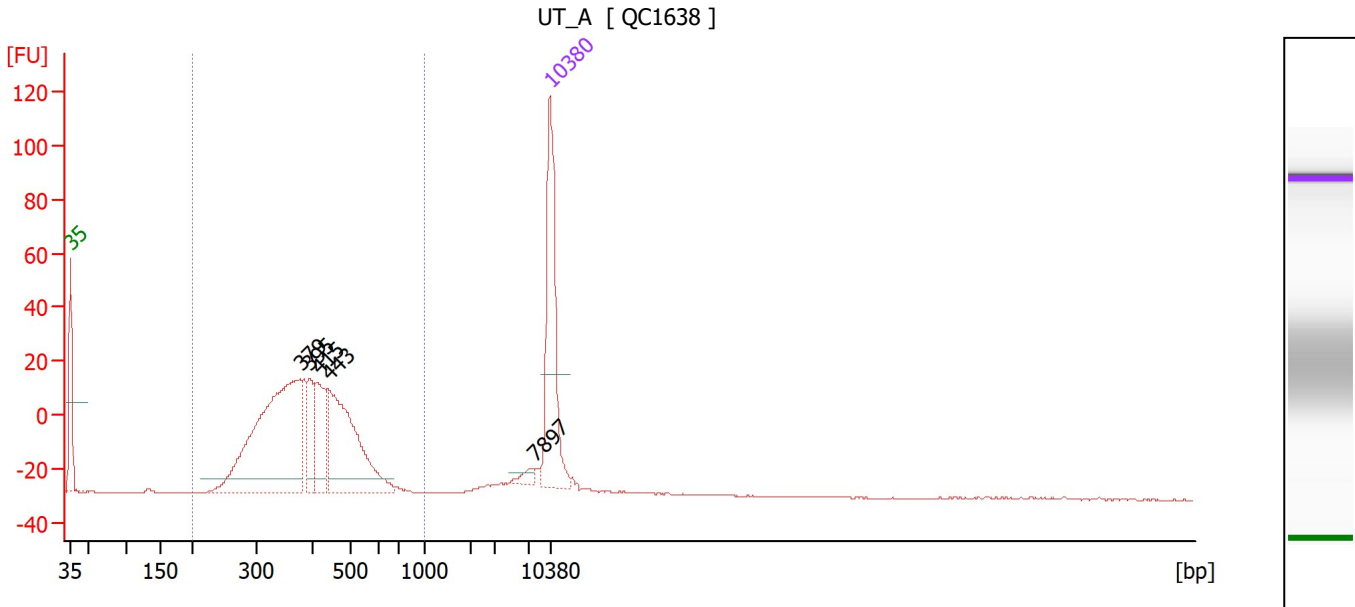
**Peak table for Ladder**

| 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 |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : UT\_A**

Number of peaks found: 5                      Corr. Area 1: 721.9  
 Noise: 0.2

**Peak table for sample 2 : UT\_A**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 379       | 220.38        | 881.9             |              |
| 3    | 395       | 30.89         | 118.6             |              |
| 4    | 415       | 43.40         | 158.5             |              |
| 5    | 443       | 119.26        | 407.8             |              |
| 6    | 7,897     | 5.08          | 1.0               |              |
| 7    | 10,380    | 75.00         | 10.9              | Upper Marker |

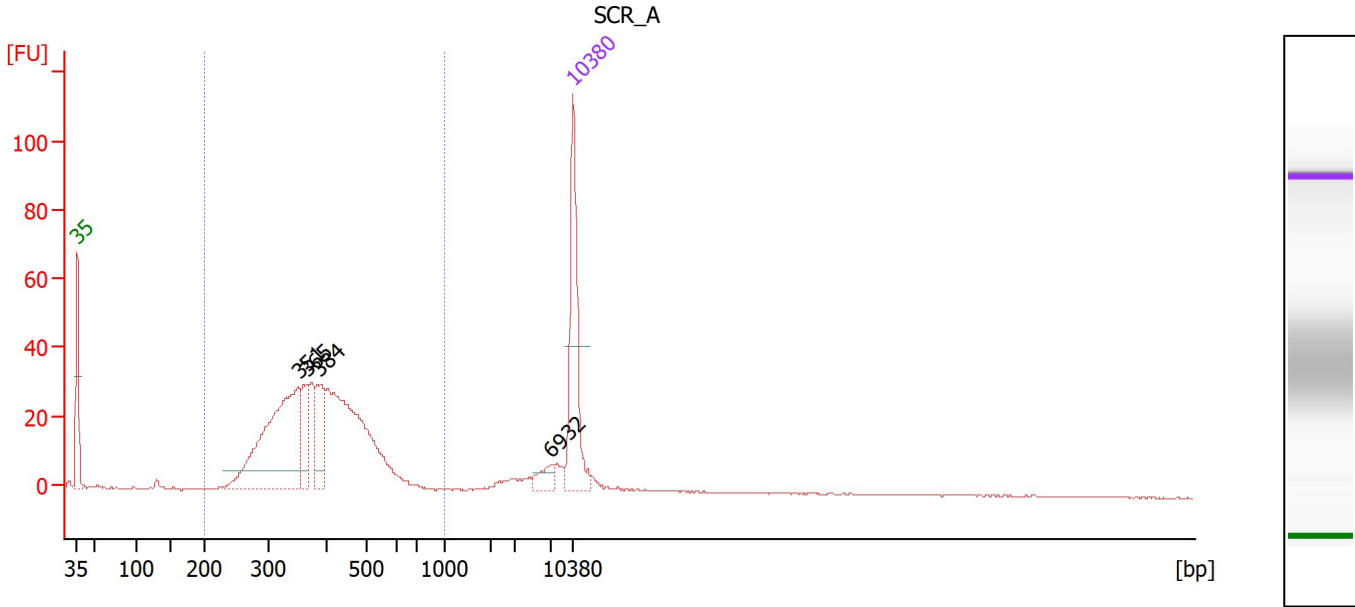
**Region table for sample 2 : UT\_A**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 721.9      | 94         | 399               | 20.1                        | 435.93        | 1,746.7           | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : SCR\_A**

Number of peaks found: 4                      Corr. Area 1: 485.3  
 Noise: 0.2

**Peak table for sample 3 : SCR\_A**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 351       | 198.13        | 854.5             |              |
| 3    | 365       | 39.55         | 164.1             |              |
| 4    | 384       | 45.47         | 179.3             |              |
| 5    | 6,932     | 10.64         | 2.3               |              |
| 6    | 10,380    | 75.00         | 10.9              | Upper Marker |

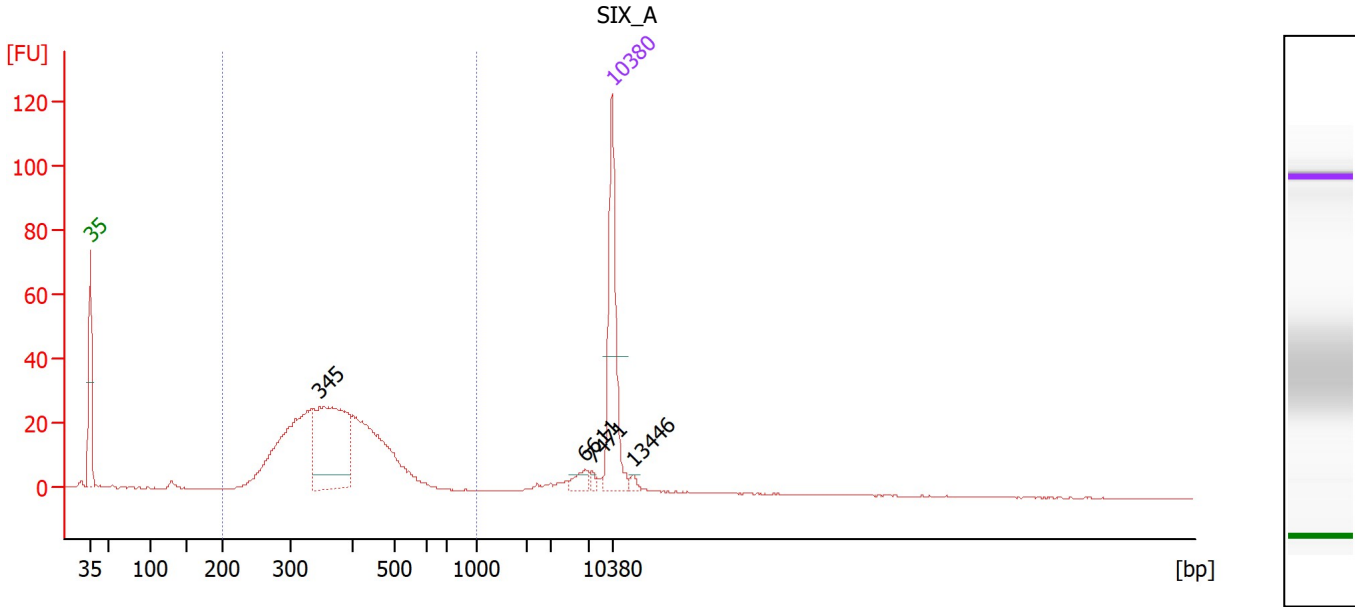
**Region table for sample 3 : SCR\_A**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 485.3      | 94         | 393               | 19.1                        | 467.80        | 1,893.1           | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : SIX\_A**

Number of peaks found: 4                      Corr. Area 1: 474.4  
 Noise: 0.2

**Peak table for sample 4 : SIX\_A**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 345       | 150.71        | 661.2             |              |
| 3    | 6,611     | 8.42          | 1.9               |              |
| 4    | 7,471     | 2.97          | 0.6               |              |
| 5    | 10,380    | 75.00         | 10.9              | Upper Marker |
| 6    | 13,446    | 0.00          | 0.0               |              |

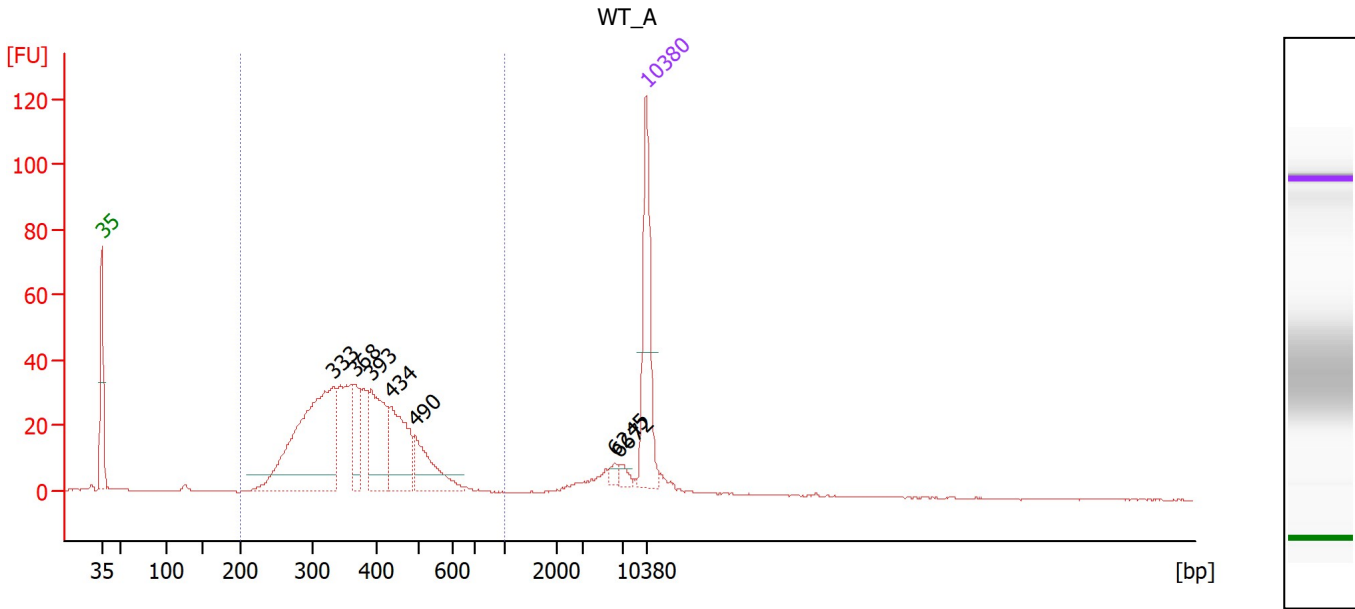
**Region table for sample 4 : SIX\_A**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 474.4      | 91         | 377               | 21.1                        | 448.37        | 1,906.2           | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : WT\_A**

Number of peaks found: 7                      Corr. Area 1: 644.5  
 Noise: 0.2

**Peak table for sample 5 : WT\_A**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 333       | 244.07        | 1,109.5           |              |
| 3    | 368       | 34.40         | 141.5             |              |
| 4    | 393       | 79.71         | 307.0             |              |
| 5    | 434       | 76.11         | 265.9             |              |
| 6    | 490       | 51.56         | 159.5             |              |
| 7    | 6,245     | 4.71          | 1.1               |              |
| 8    | 6,672     | 6.05          | 1.4               |              |
| 9    | 10,380    | 75.00         | 10.9              | Upper Marker |

**Region table for sample 5 : WT\_A**

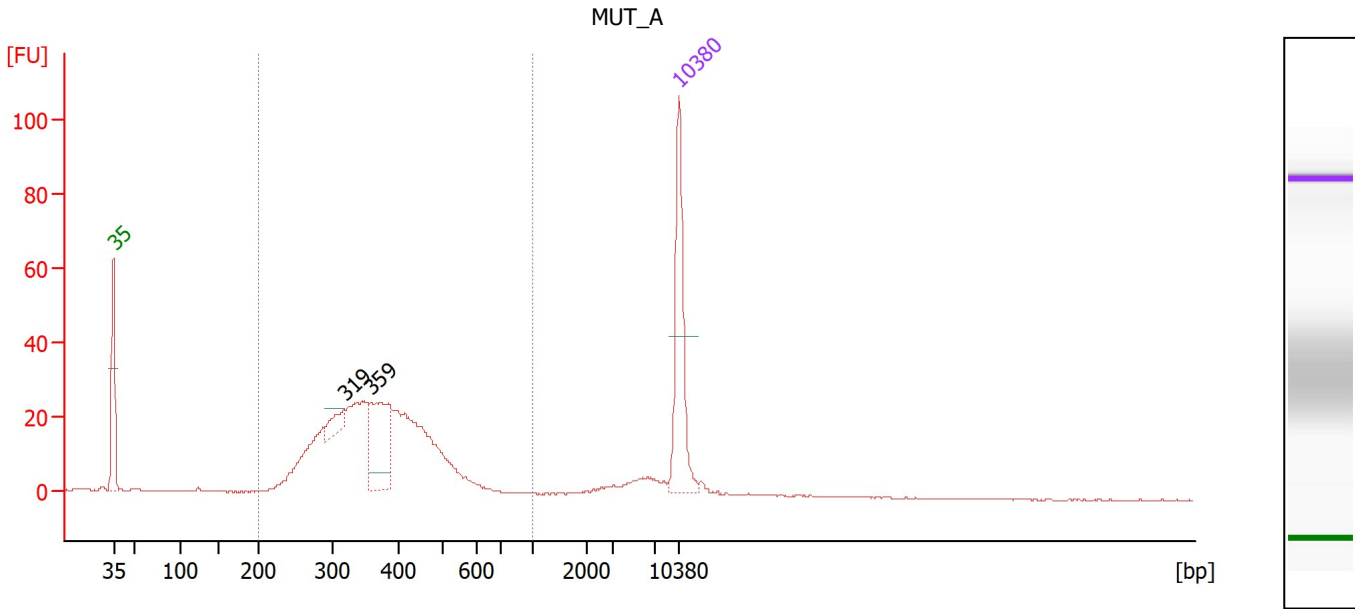
| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 644.5      | 89         | 381               | 23.3                        | 641.09        | 2,727.2           | Blue  |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : MUT\_A**

Number of peaks found: 2                      Corr. Area 1: 475.0  
 Noise: 0.2

**Peak table for sample 6 : MUT\_A**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 319       | 18.17         | 86.4              |              |
| 3    | 359       | 82.51         | 348.2             |              |
| 4    | 10,380    | 75.00         | 10.9              | Upper Marker |

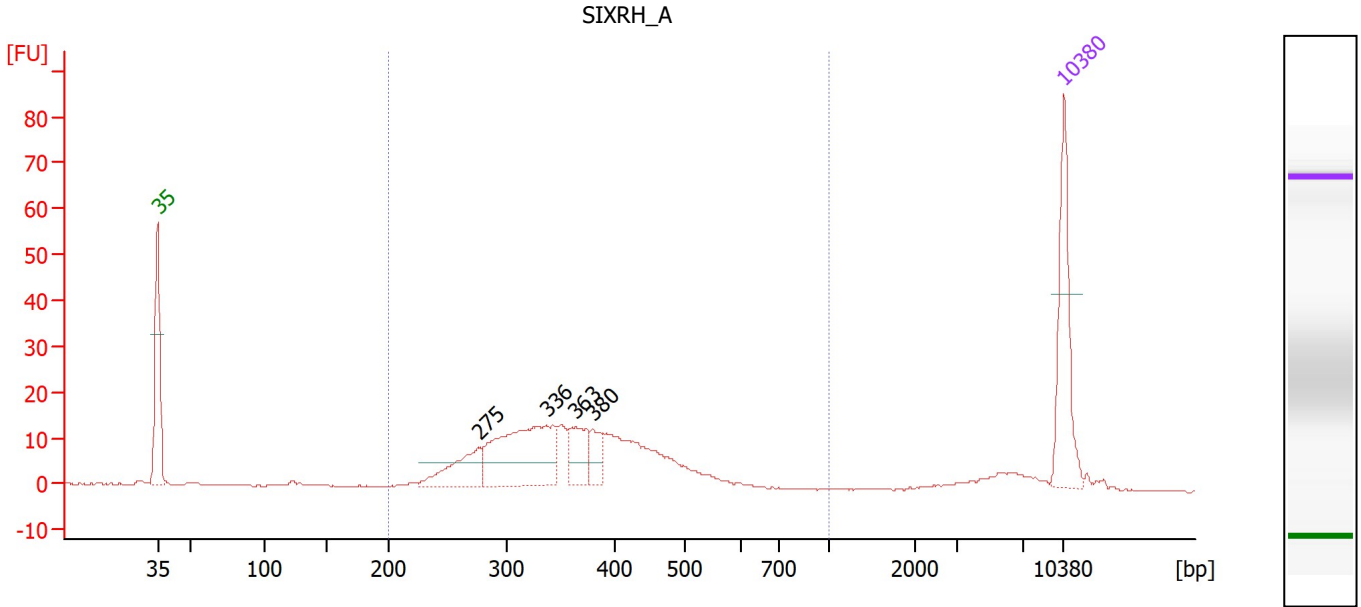
**Region table for sample 6 : MUT\_A**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 475.0      | 93         | 374               | 21.9                        | 515.23        | 2,217.6           | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : SIXRH\_A**

Number of peaks found: 4                      Corr. Area 1: 264.6  
 Noise: 0.1

**Peak table for sample 7 : SIXRH\_A**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 275       | 56.16         | 309.4             |              |
| 3    | 336       | 147.26        | 663.3             |              |
| 4    | 363       | 41.56         | 173.3             |              |
| 5    | 380       | 25.75         | 102.7             |              |
| 6    | 10,380    | 75.00         | 10.9              | Upper Marker |

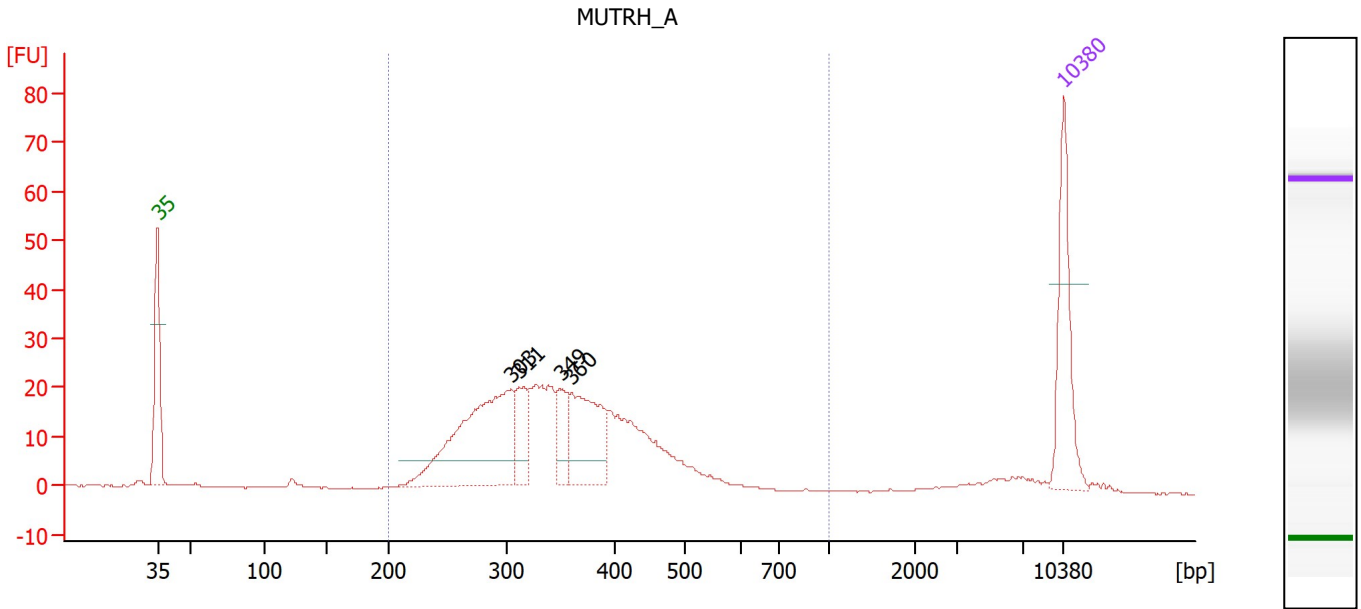
**Region table for sample 7 : SIXRH\_A**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 264.6      | 85         | 370               | 23.8                        | 454.46        | 1,988.3           | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : MUTRH\_A**

Number of peaks found: 4                      Corr. Area 1: 410.8  
 Noise: 0.2

**Peak table for sample 8 : MUTRH\_A**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 303       | 225.40        | 1,128.7           |              |
| 3    | 311       | 48.80         | 237.4             |              |
| 4    | 349       | 33.26         | 144.2             |              |
| 5    | 360       | 107.41        | 452.2             |              |
| 6    | 10,380    | 75.00         | 10.9              | Upper Marker |

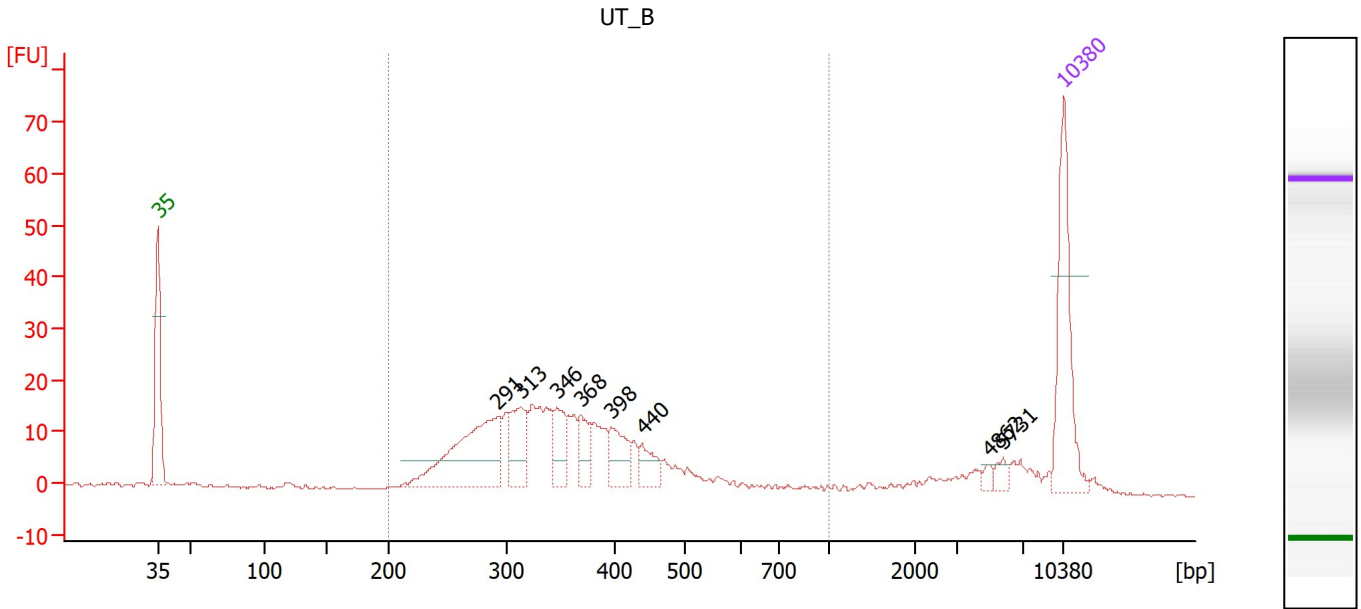
**Region table for sample 8 : MUTRH\_A**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 410.8      | 93         | 354               | 22.8                        | 710.49        | 3,237.0           | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : UT\_B**

Number of peaks found: 8                      Corr. Area 1: 300.1  
 Noise: 0.3

**Peak table for sample 9 : UT\_B**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 291       | 131.03        | 681.2             |              |
| 3    | 313       | 46.54         | 225.5             |              |
| 4    | 346       | 33.20         | 145.2             |              |
| 5    | 368       | 24.83         | 102.1             |              |
| 6    | 398       | 33.29         | 126.8             |              |
| 7    | 440       | 21.18         | 73.0              |              |
| 8    | 4,862     | 4.19          | 1.3               |              |
| 9    | 5,731     | 6.40          | 1.7               |              |
| 10   | 10,380    | 75.00         | 10.9              | Upper Marker |

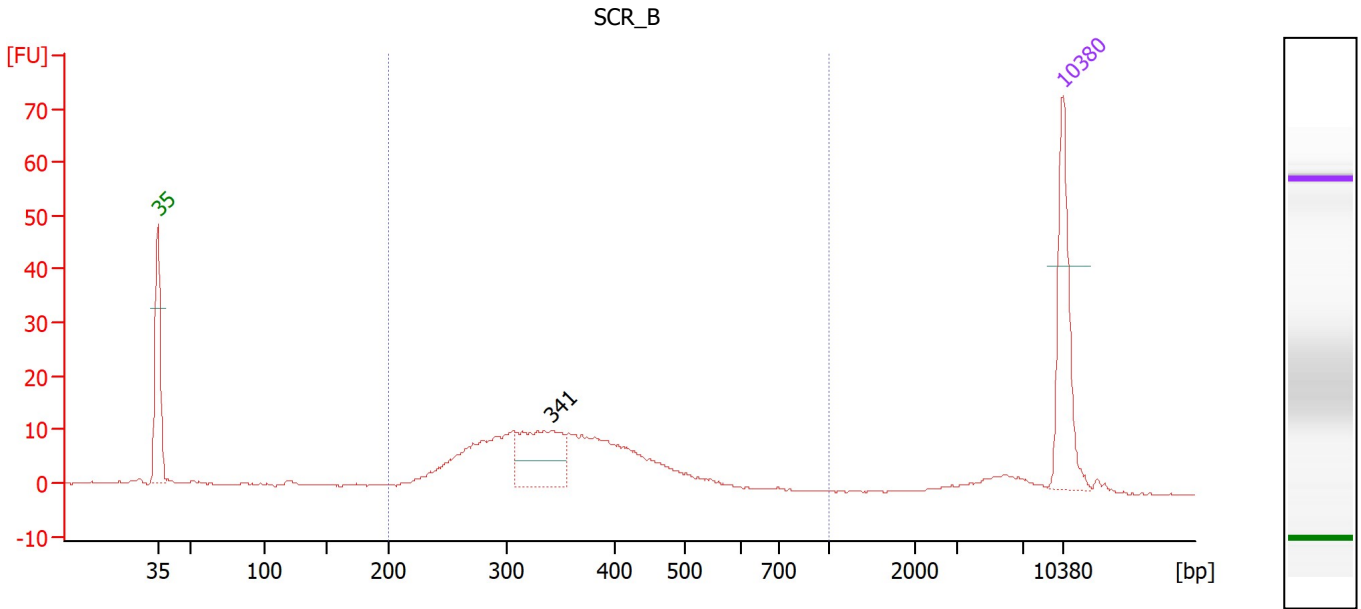
**Region table for sample 9 : UT\_B**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 300.1      | 85         | 360               | 26.4                        | 501.17        | 2,271.1           | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : SCR\_B**

Number of peaks found: 1                      Corr. Area 1: 214.8  
 Noise: 0.1

**Peak table for sample 10 : SCR\_B**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 341       | 94.76         | 421.7             |              |
| 3    | 10,380    | 75.00         | 10.9              | Upper Marker |

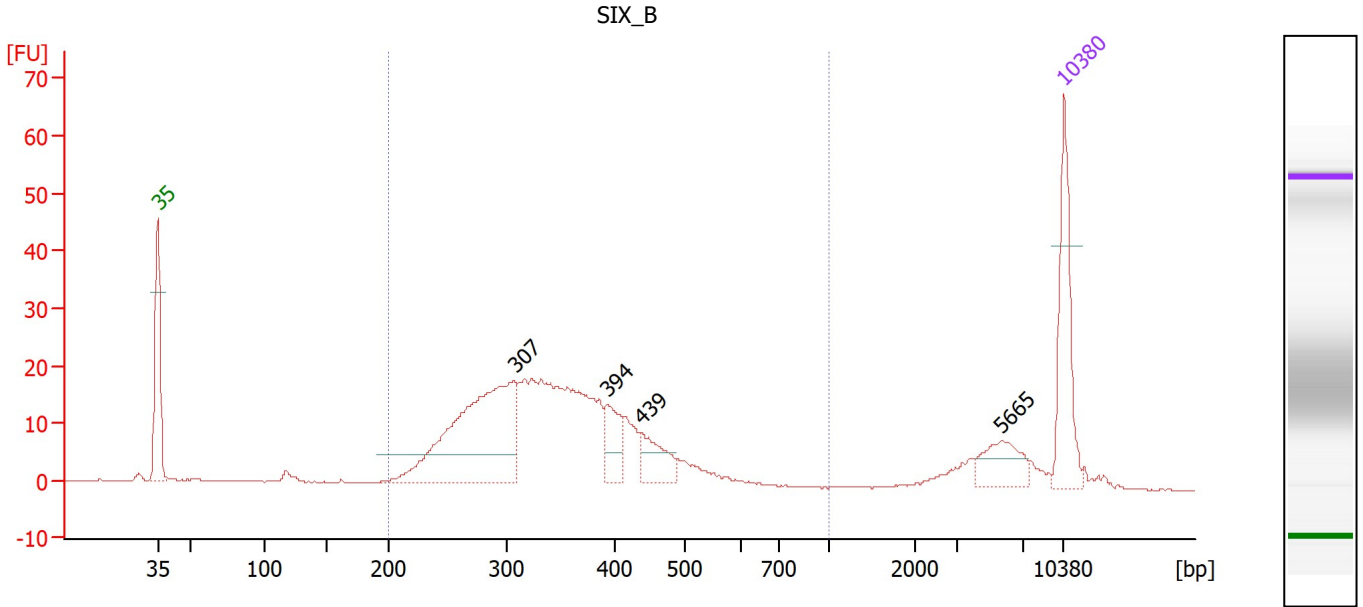
**Region table for sample 10 : SCR\_B**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 214.8      | 87         | 357               | 23.5                        | 383.72        | 1,738.2           | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : SIX\_B**

Number of peaks found: 4                      Corr. Area 1: 375.3  
 Noise: 0.1

**Peak table for sample 11 : SIX\_B**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 307       | 276.57        | 1,366.8           |              |
| 3    | 394       | 42.03         | 161.8             |              |
| 4    | 439       | 40.06         | 138.3             |              |
| 5    | 5,665     | 35.48         | 9.5               |              |
| 6    | 10,380    | 75.00         | 10.9              | Upper Marker |

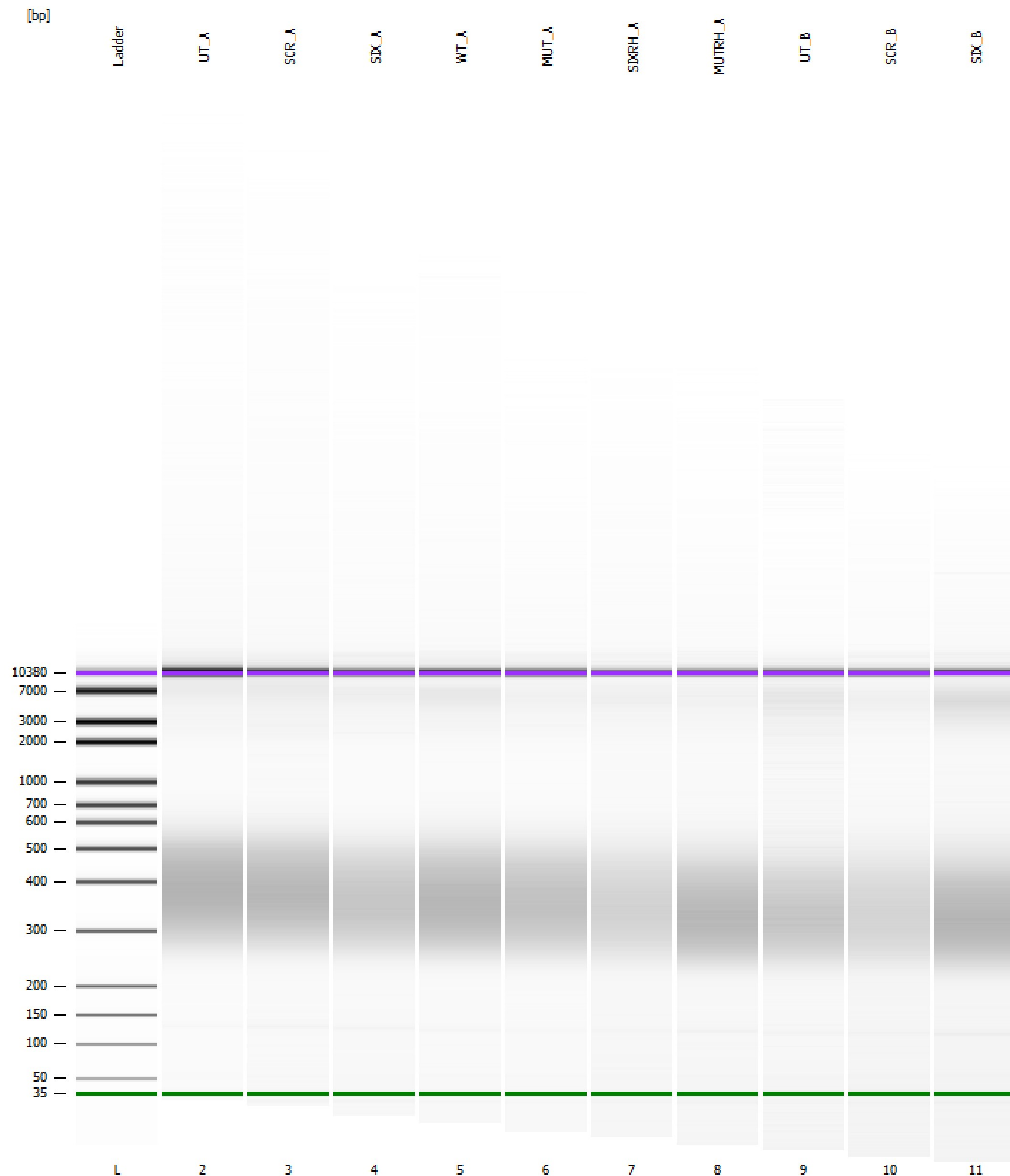
**Region table for sample 11 : SIX\_B**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 375.3      | 81         | 353               | 25.8                        | 783.50        | 3,619.7           | Blue  |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
Modified: 10/16/2023 3:41:31 PM

Gel Image

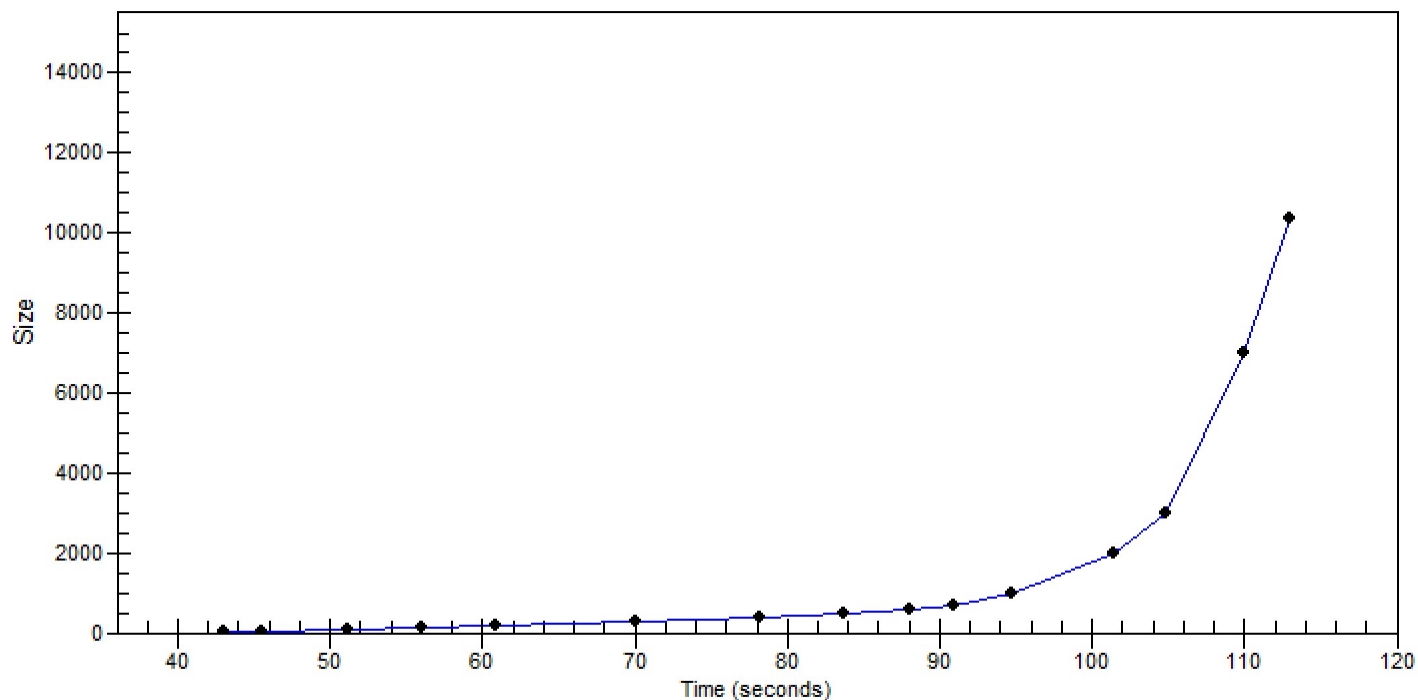


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
Modified: 10/16/2023 3:41:31 PM

**Curves**

**Standard Curve**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... Sensitivity DNA Assay\_DE34903152\_2023-10-16\_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM  
 Modified: 10/16/2023 3:41:31 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      |              | 10/16/2023 1:11:14 PM  | (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\2023-10-16\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-10-16_002.xad) |        | Instrument | Run      |              | 10/16/2023 12:30:53 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Product Number : G2938C   |        | Instrument | Run      |              | 10/16/2023 12:30:53 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Name :  |        | Instrument | Run      |              | 10/16/2023 12:30:53 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Vendor : Agilent Technologies   |        | Instrument | Run      |              | 10/16/2023 12:30:53 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Serial# : DE34903152  |        | Instrument | Run      |              | 10/16/2023 12:30:53 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Firmware : C.01.069   |        | Instrument | Run      |              | 10/16/2023 12:30:53 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |
| Cartridge : Electrode   |        | Instrument | Run      |              | 10/16/2023 12:30:53 PM | (GMT --07:00) Pacific Standard Time | sbsuser | DESKTOP-4UNV VOB |