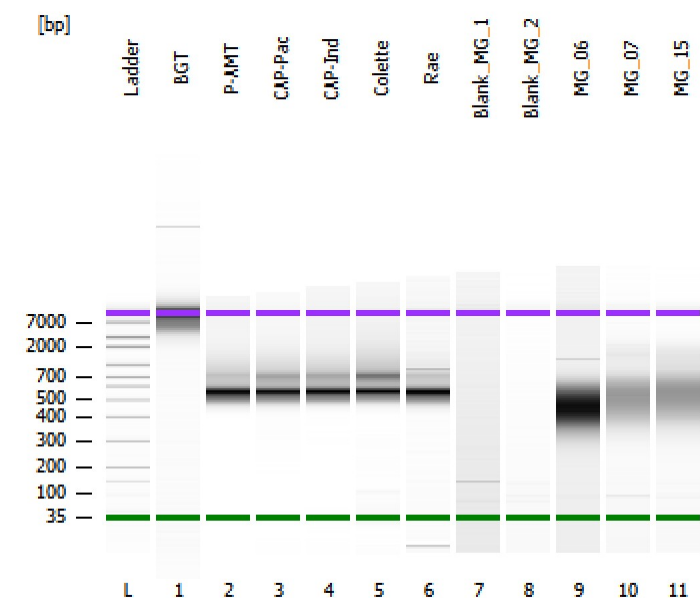


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
Modified: 1/18/2022 1:49:12 PM

Electrophoresis File Run Summary



Instrument Information:

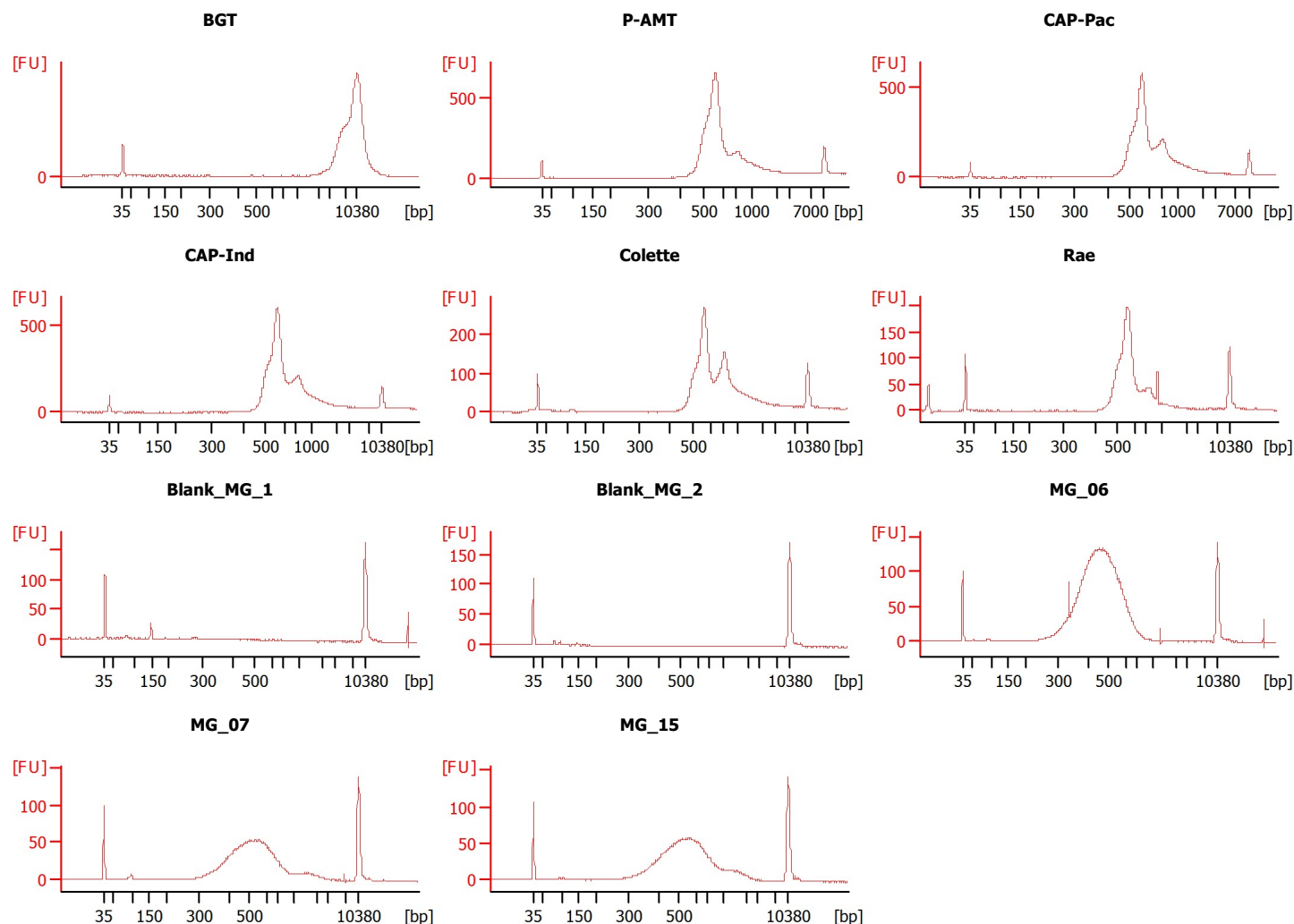
Instrument Name: DE54700632 Firmware: C.01.069
Serial#: DE54700632 Type: G2939A

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:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
Modified: 1/18/2022 1:49:12 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Sta tus	Observation	Result Label	Result Color
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BGT		<input type="checkbox"/>	✓			
P-AMT		<input type="checkbox"/>	✓			
CAP-Pac		<input type="checkbox"/>	✓			
CAP-Ind		<input type="checkbox"/>	✓			
Colette		<input type="checkbox"/>	✓			
Rae		<input type="checkbox"/>	✓			
Blank_MG_1		<input type="checkbox"/>	✓			
Blank_MG_2		<input type="checkbox"/>	✓			
MG_06		<input type="checkbox"/>	✓			
MG_07		<input type="checkbox"/>	✓			
MG_15		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
Modified: 1/18/2022 1:49:12 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

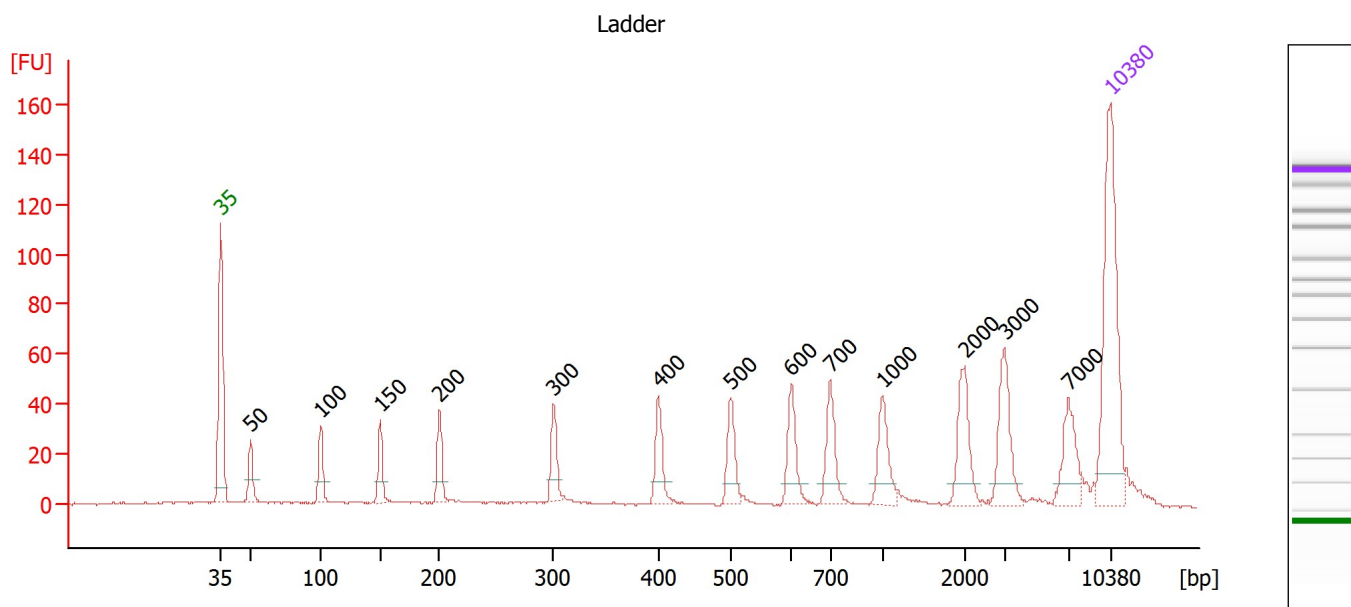
Ladder

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:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
 Modified: 1/18/2022 1:49:12 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

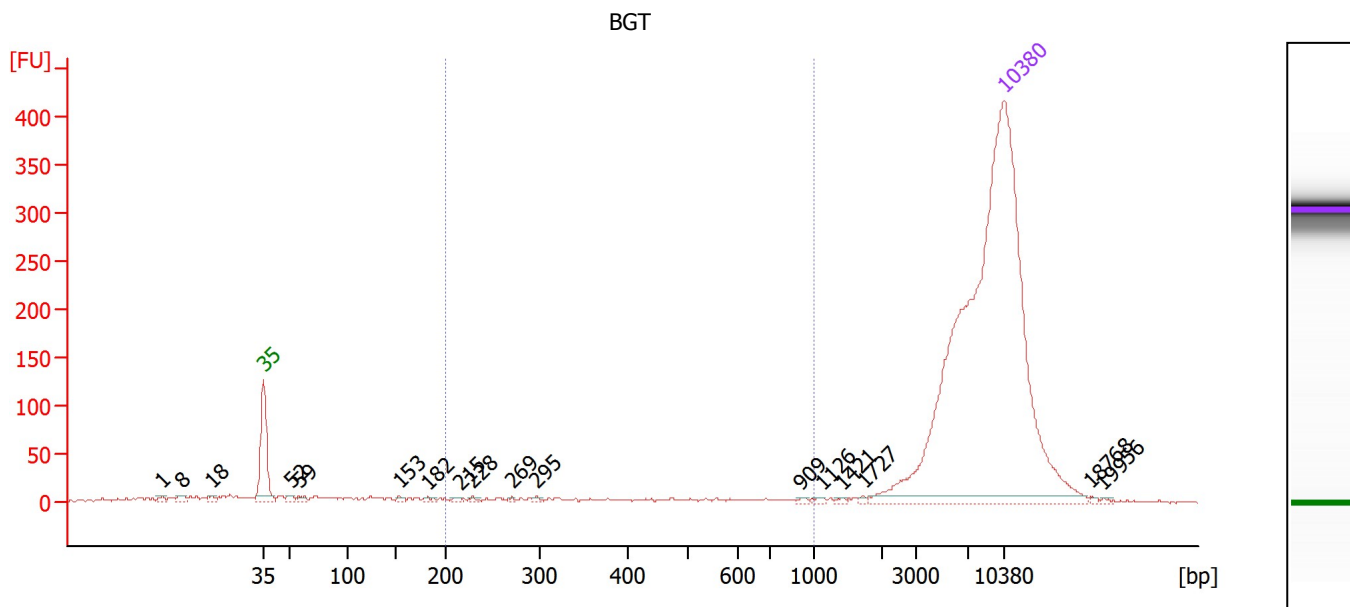
Peak table for Ladder

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:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
 Modified: 1/18/2022 1:49:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : BGT

Number of peaks found: 17 Corr. Area 1: 124.7
 Noise: 0.5

Peak table for sample 1 : BGT

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	1	0.00	0.0	
2	8	0.00	0.0	
3	18	0.00	0.0	
4	35	125.00	5,411.3	Lower Marker
5	52	0.64	18.5	
6	59	0.53	13.7	
7	153	0.37	3.7	
8	182	0.40	3.3	
9	215	0.46	3.2	
10	228	0.32	2.2	
11	269	0.24	1.4	
12	295	0.31	1.6	
13	909	0.21	0.3	
14	1,126	0.24	0.3	
15	1,421	0.20	0.2	
16	1,727	0.20	0.2	
17	10,380	75.00	10.9	Upper Marker
18	18,768	0.00	0.0	
19	19,956	0.00	0.0	

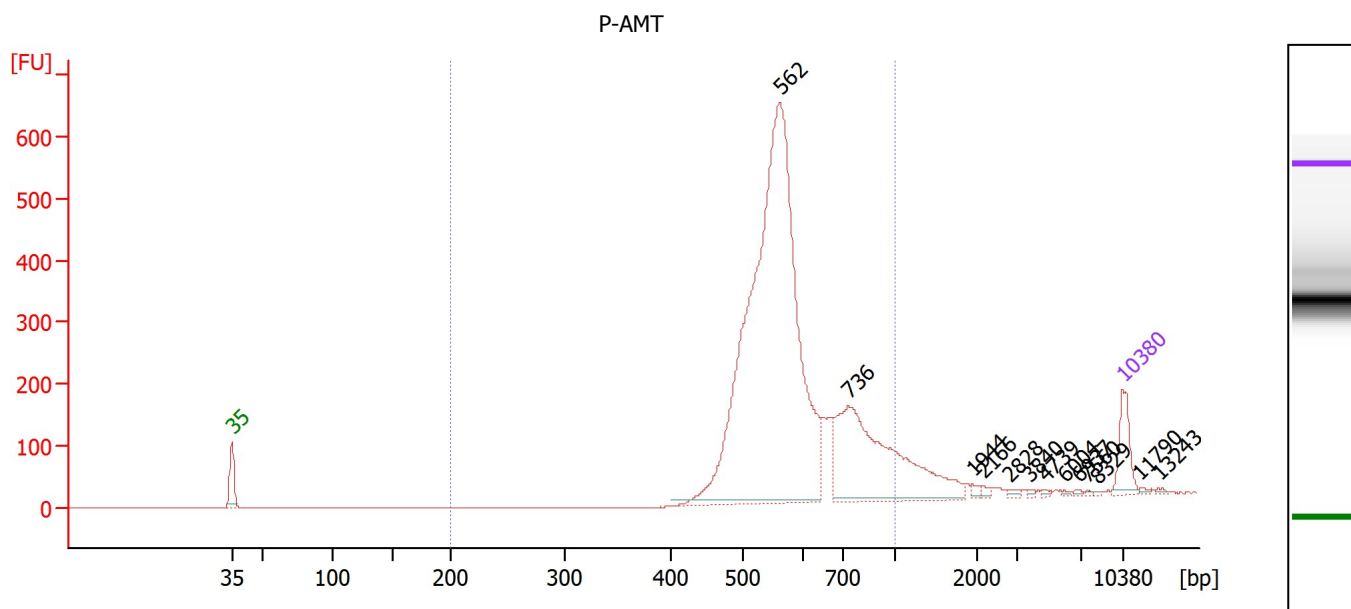
Region table for sample 1 : BGT

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	124.7	30	453	45.2	7.09	30.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
 Modified: 1/18/2022 1:49:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : P-AMT

Number of peaks found: 13 Corr. Area 1: 3,961.3
 Noise: 0.4

Peak table for sample 2 : P-AMT

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	562	2,174.97	5,862.9	
3	736	625.08	1,286.9	
4	1,944	9.20	7.2	
5	2,166	7.47	5.2	
6	2,828	7.16	3.8	
7	3,840	3.74	1.5	
8	4,739	4.57	1.5	
9	6,004	3.60	0.9	
10	6,937	4.10	0.9	
11	7,560	2.53	0.5	
12	8,329	2.00	0.4	
13	10,380	75.00	10.9	Upper Marker
14	11,790	0.00	0.0	
15	13,243	0.00	0.0	

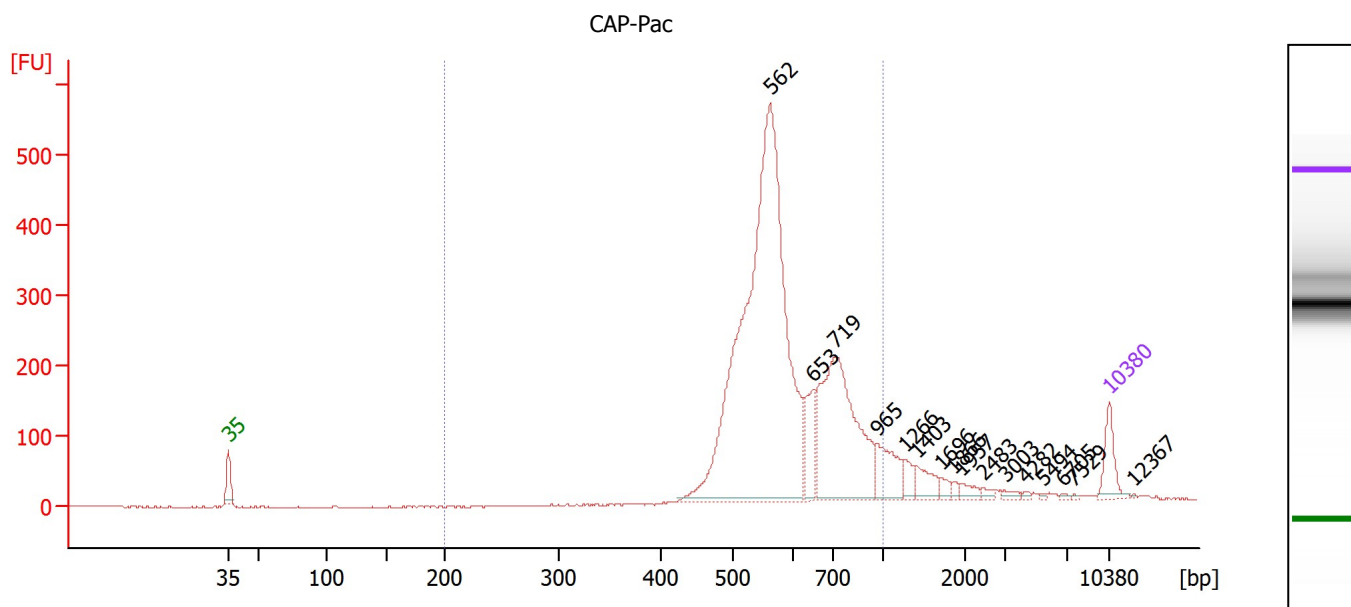
Region table for sample 2 : P-AMT

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	3,961.3	91	594	18.1	2,623.45	6,910.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
 Modified: 1/18/2022 1:49:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : CAP-Pac

Number of peaks found: 16 Corr. Area 1: 3,579.8
 Noise: 1.0

Peak table for sample 3 : CAP-Pac

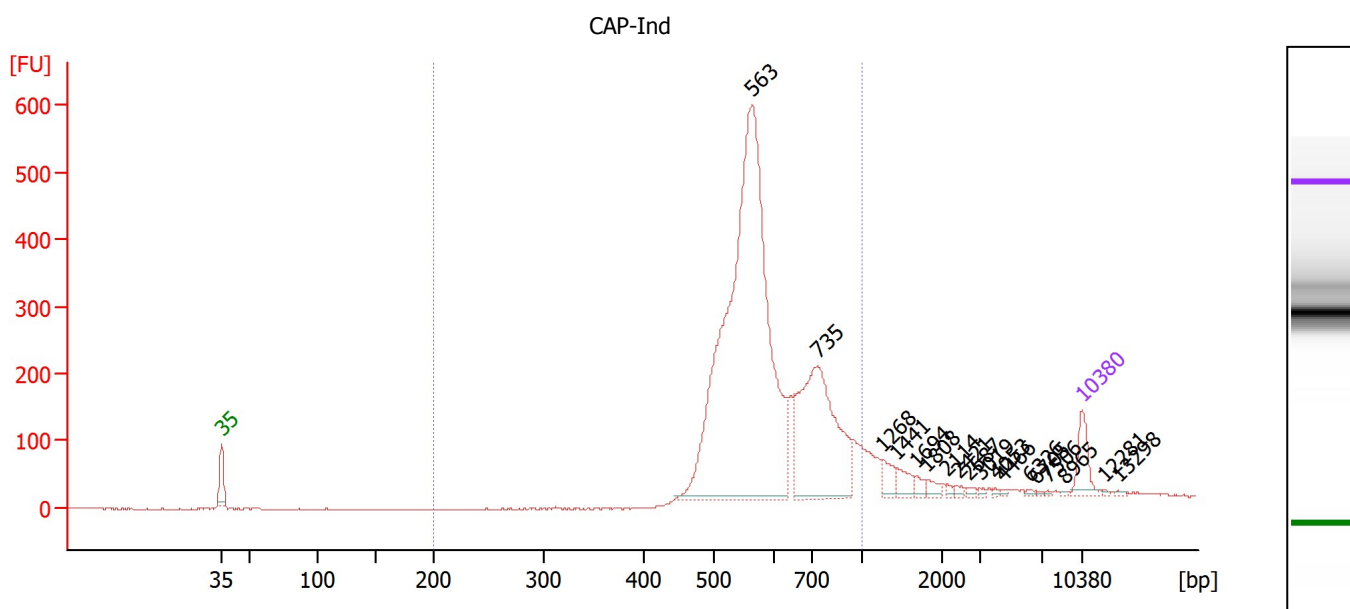
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	562	2,286.27	6,162.1	
3	653	134.02	311.0	
4	719	703.17	1,482.6	
5	965	134.29	210.8	
6	1,266	39.87	47.7	
7	1,403	63.26	68.3	
8	1,696	21.53	19.2	
9	1,866	11.55	9.4	
10	1,957	23.92	18.5	
11	2,483	11.27	6.9	
12	3,003	12.96	6.5	
13	4,282	5.38	1.9	
14	5,494	3.46	1.0	
15	6,705	3.88	0.9	
16	7,529	2.59	0.5	
17	10,380	75.00	10.9	Upper Marker
18	12,367	0.00	0.0	

Region table for sample 3 : CAP-Pac

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	3,579.8	89	608	18.8	3,237.80	8,359.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
 Modified: 1/18/2022 1:49:12 PM

Electropherogram Summary Continued ...**Overall Results for sample 4 : CAP-Ind**

Number of peaks found: 18 Corr. Area 1: 3,648.2
 Noise: 0.7

Peak table for sample 4 : CAP-Ind

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	563	2,356.43	6,337.0	
3	735	698.02	1,438.6	
4	1,268	44.84	53.6	
5	1,441	44.52	46.8	
6	1,694	20.04	17.9	
7	1,808	22.66	19.0	
8	2,114	8.99	6.4	
9	2,421	8.98	5.6	
10	2,687	9.29	5.2	
11	3,019	6.38	3.2	
12	4,053	4.40	1.6	
13	4,466	5.55	1.9	
14	6,326	5.22	1.2	
15	6,705	3.35	0.8	
16	7,506	2.91	0.6	
17	8,965	2.38	0.4	
18	10,380	75.00	10.9	Upper Marker
19	12,281	0.00	0.0	
20	13,298	0.00	0.0	

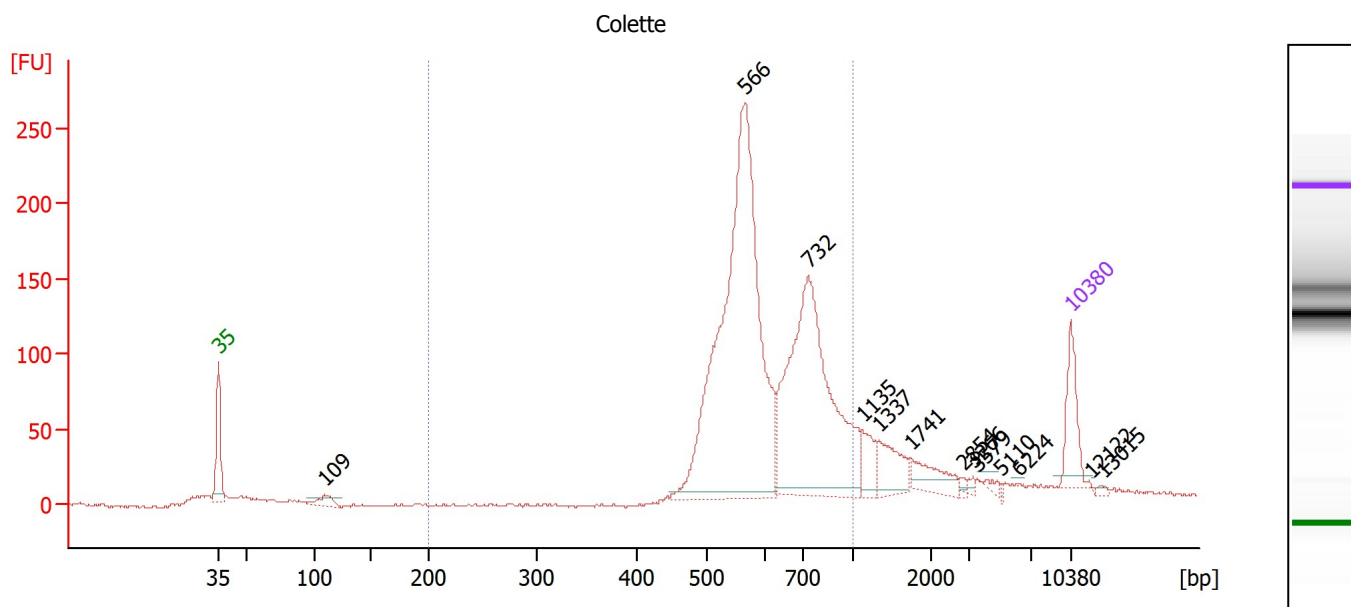
Region table for sample 4 : CAP-Ind

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	3,648.2	88	611	18.6	3,243.70	8,328.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
 Modified: 1/18/2022 1:49:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Colette

Number of peaks found: 13 Corr. Area 1: 1,734.4
 Noise: 0.9

Peak table for sample 5 : Colette

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	109	29.23	405.4	
3	566	1,122.63	3,005.0	
4	732	693.64	1,435.4	
5	1,135	51.09	68.2	
6	1,337	77.34	87.7	
7	1,741	54.07	47.1	
8	3,266	11.17	5.2	
9	2,854	6.20	3.3	
10	3,579	6.21	2.6	
11	5,110	1.43	0.4	
12	6,224	0.60	0.1	
13	10,380	75.00	10.9	Upper Marker
14	12,122	0.00	0.0	
15	13,015	0.00	0.0	

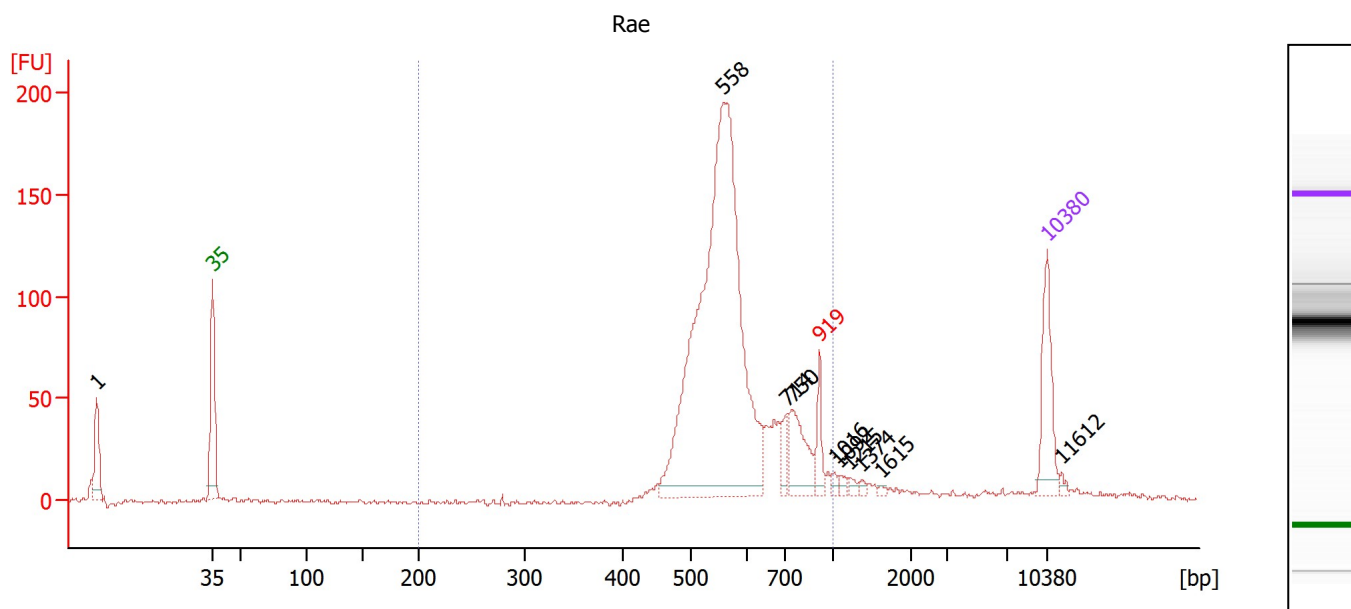
Region table for sample 5 : Colette

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	1,734.4	81	633	19.2	1,797.56	4,471.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
 Modified: 1/18/2022 1:49:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Rae

Number of peaks found: 10 Corr. Area 1: 1,180.4
 Noise: 1.1

Peak table for sample 6 : Rae

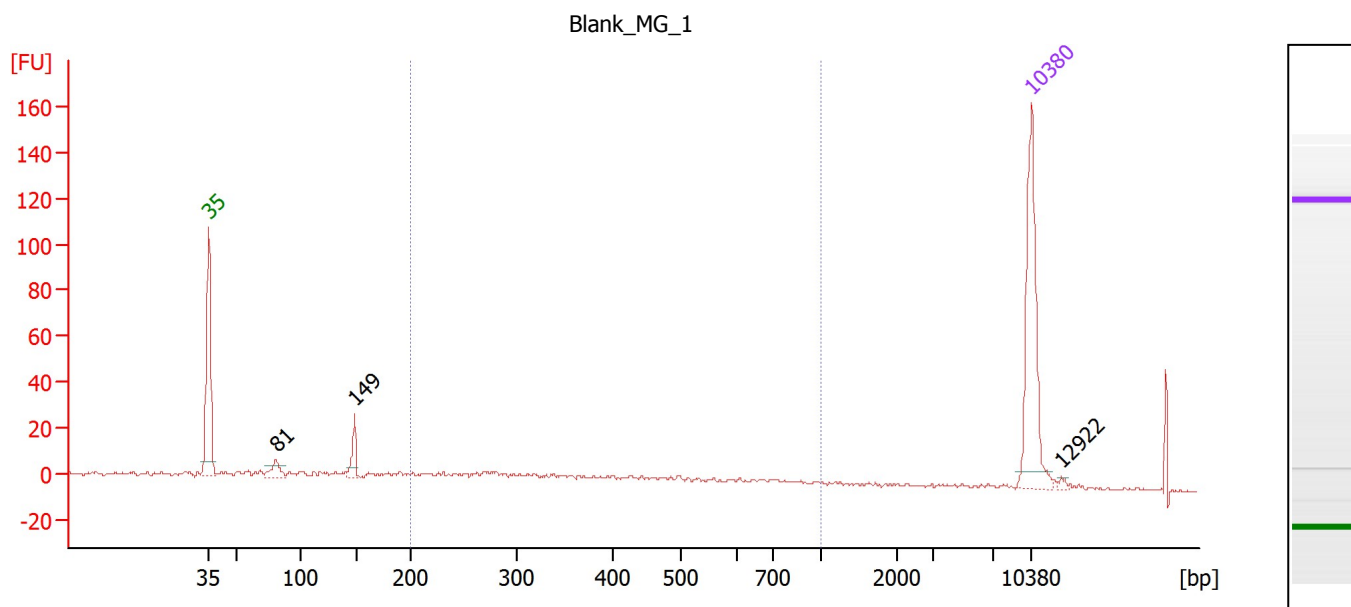
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	1	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	558	954.28	2,592.9	
4	714	26.36	55.9	
5	750	78.78	159.1	
6	919	33.10	54.6	excluded peak
7	1,016	6.65	9.9	
8	1,092	7.56	10.5	
9	1,215	6.17	7.7	
10	1,374	5.21	5.7	
11	1,615	3.08	2.9	
12	10,380	75.00	10.9	Upper Marker
13	11,612	0.00	0.0	

Region table for sample 6 : Rae

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	1,180.4	84	592	18.4	1,231.21	3,260.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
 Modified: 1/18/2022 1:49:12 PM

Electropherogram Summary Continued ...**Overall Results for sample 7 : Blank MG 1**

Number of peaks found: 3 Corr. Area 1: 94.2
 Noise: 0.6

Peak table for sample 7 : Blank MG 1

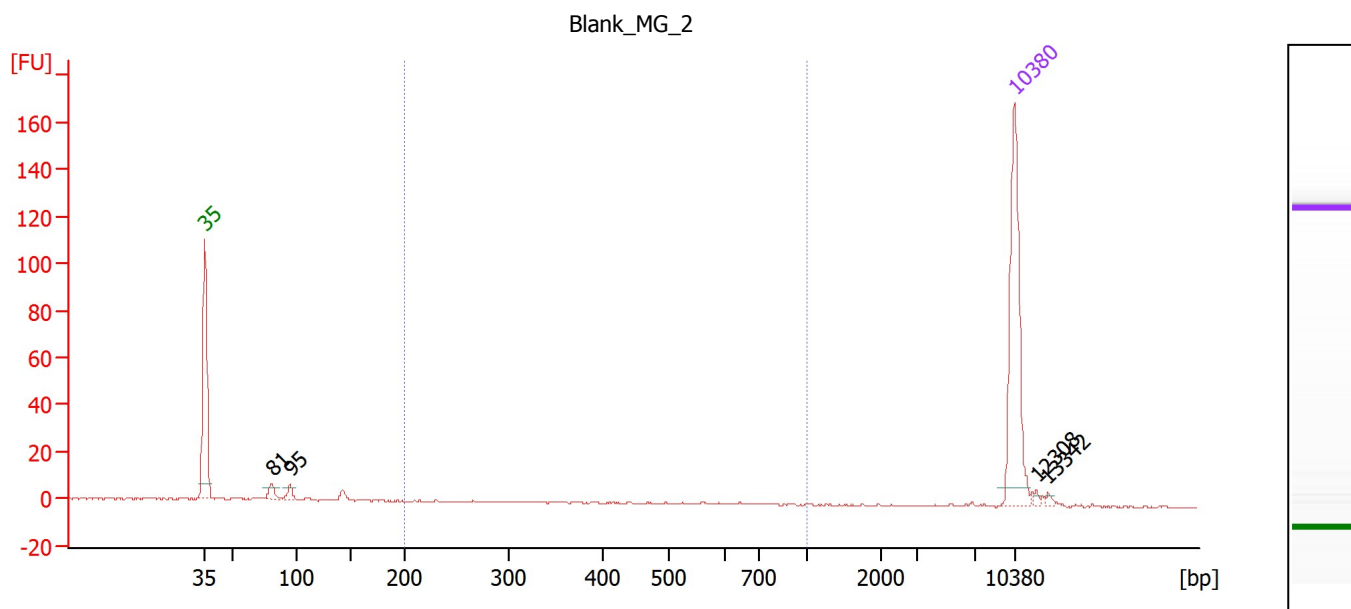
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	16.20	304.6	
3	149	19.35	197.2	
4	10,380	75.00	10.9	Upper Marker
5	12,922	0.00	0.0	

Region table for sample 7 : Blank MG 1

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	94.2	46	421	42.0	74.45	332.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
 Modified: 1/18/2022 1:49:12 PM

Electropherogram Summary Continued ...**Overall Results for sample 8 : Blank MG 2**

Number of peaks found: 4 Corr. Area 1: 9.6
 Noise: 0.4

Peak table for sample 8 : Blank MG 2

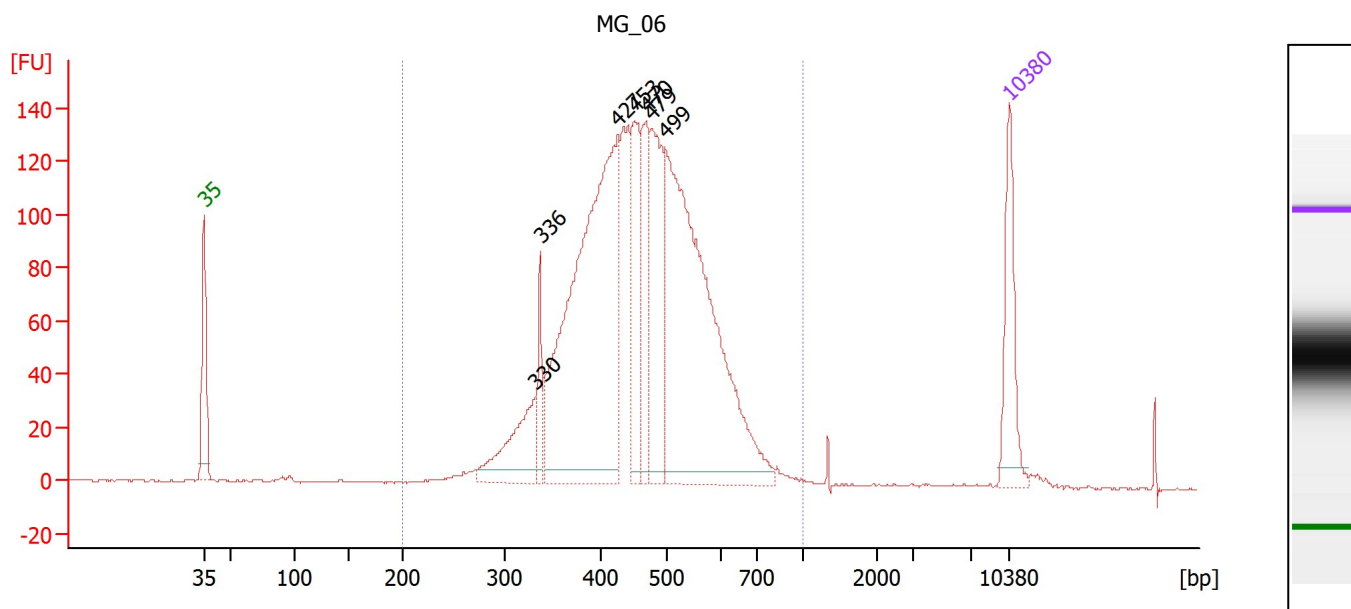
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	9.07	169.6	
3	95	7.16	113.8	
4	10,380	75.00	10.9	Upper Marker
5	12,308	0.00	0.0	
6	13,342	0.00	0.0	

Region table for sample 8 : Blank MG 2

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	9.6	14	456	38.0	7.33	30.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
 Modified: 1/18/2022 1:49:12 PM

Electropherogram Summary Continued ...**Overall Results for sample 9 : MG_06**

Number of peaks found: 7 Corr. Area 1: 2,303.7
 Noise: 0.4

Peak table for sample 9 : MG_06

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	330	114.15	523.3	
3	336	42.41	191.2	
4	427	641.09	2,277.3	
5	453	129.75	434.4	
6	470	100.91	325.6	
7	479	181.08	573.4	
8	499	610.49	1,854.3	
9	10,380	75.00	10.9	Upper Marker

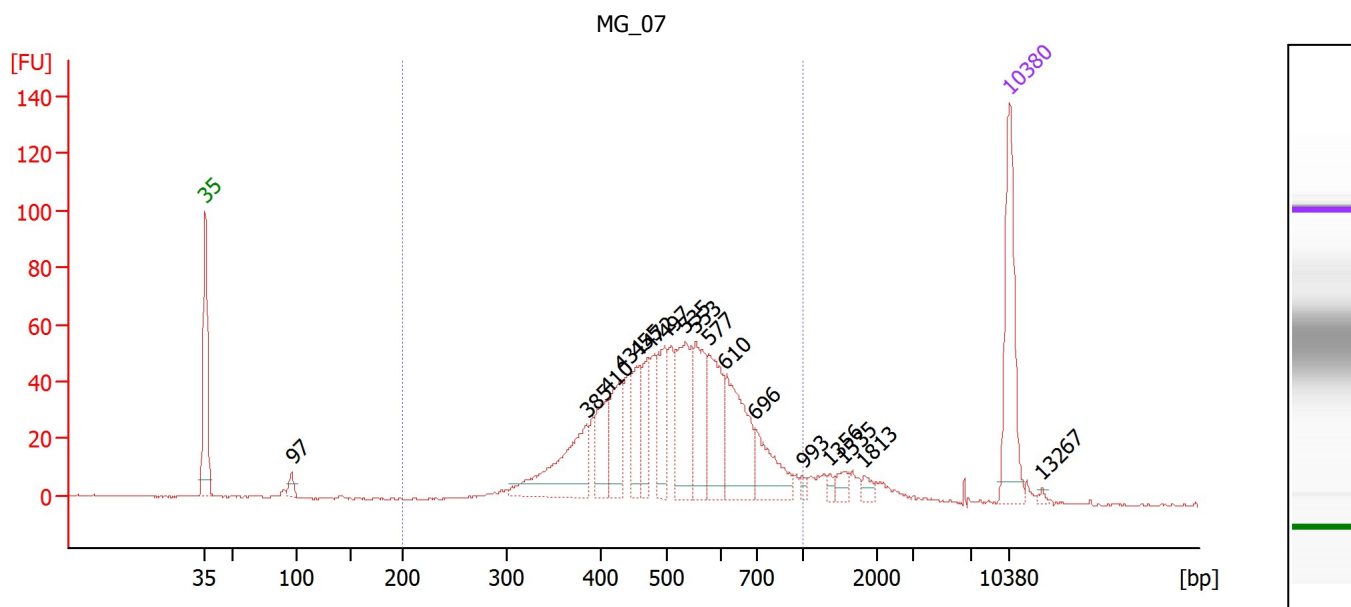
Region table for sample 9 : MG_06

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	2,303.7	98	463	20.4	1,991.25	6,889.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
 Modified: 1/18/2022 1:49:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : MG_07

Number of peaks found: 17 Corr. Area 1: 974.8
 Noise: 0.4

Peak table for sample 10 : MG_07

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	97	11.64	181.8	
3	385	96.08	378.5	
4	410	43.65	161.2	
5	431	55.80	196.0	
6	455	46.04	153.3	
7	472	35.96	115.4	
8	497	53.40	163.0	
9	535	79.52	225.4	
10	553	64.37	176.3	
11	577	69.03	181.2	
12	610	83.45	207.3	
13	696	47.88	104.2	
14	993	4.11	6.3	
15	1,356	3.90	4.4	
16	1,535	8.77	8.7	
17	1,813	5.96	5.0	
18	10,380	75.00	10.9	Upper Marker
19	13,267	0.00	0.0	

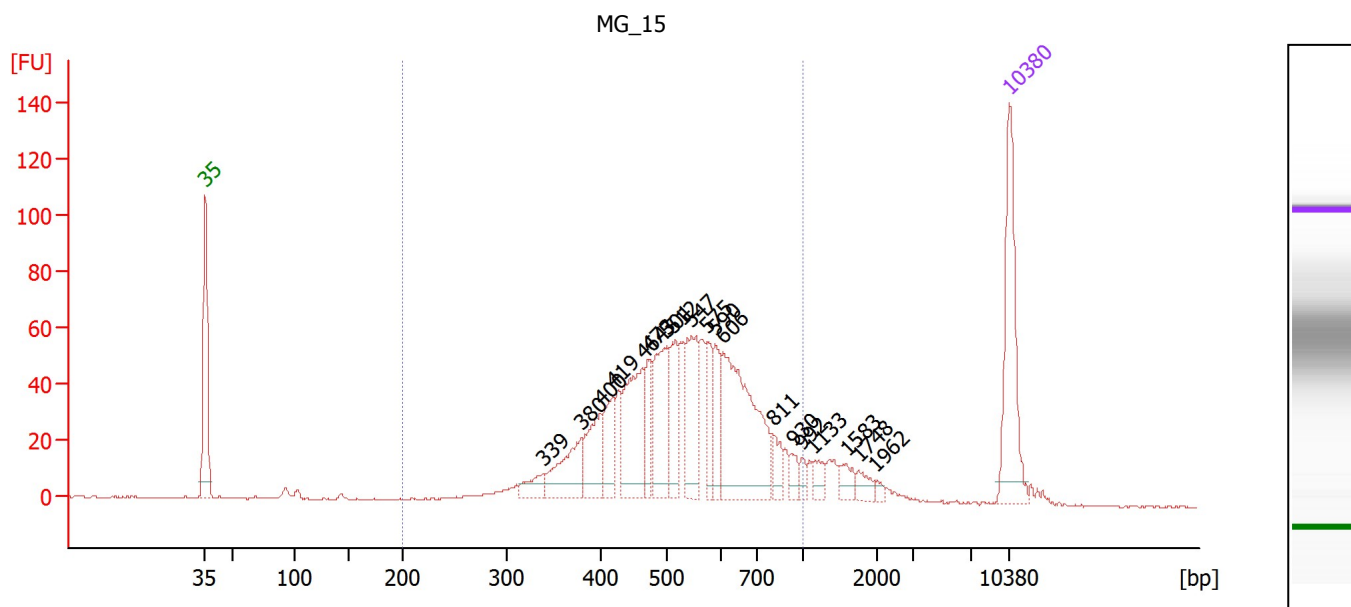
Region table for sample 10 : MG_07

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	974.8	91	522	23.8	826.97	2,579.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
 Modified: 1/18/2022 1:49:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : MG_15

Number of peaks found: 19 Corr. Area 1: 1,066.5
 Noise: 0.3

Peak table for sample 11 : MG_15

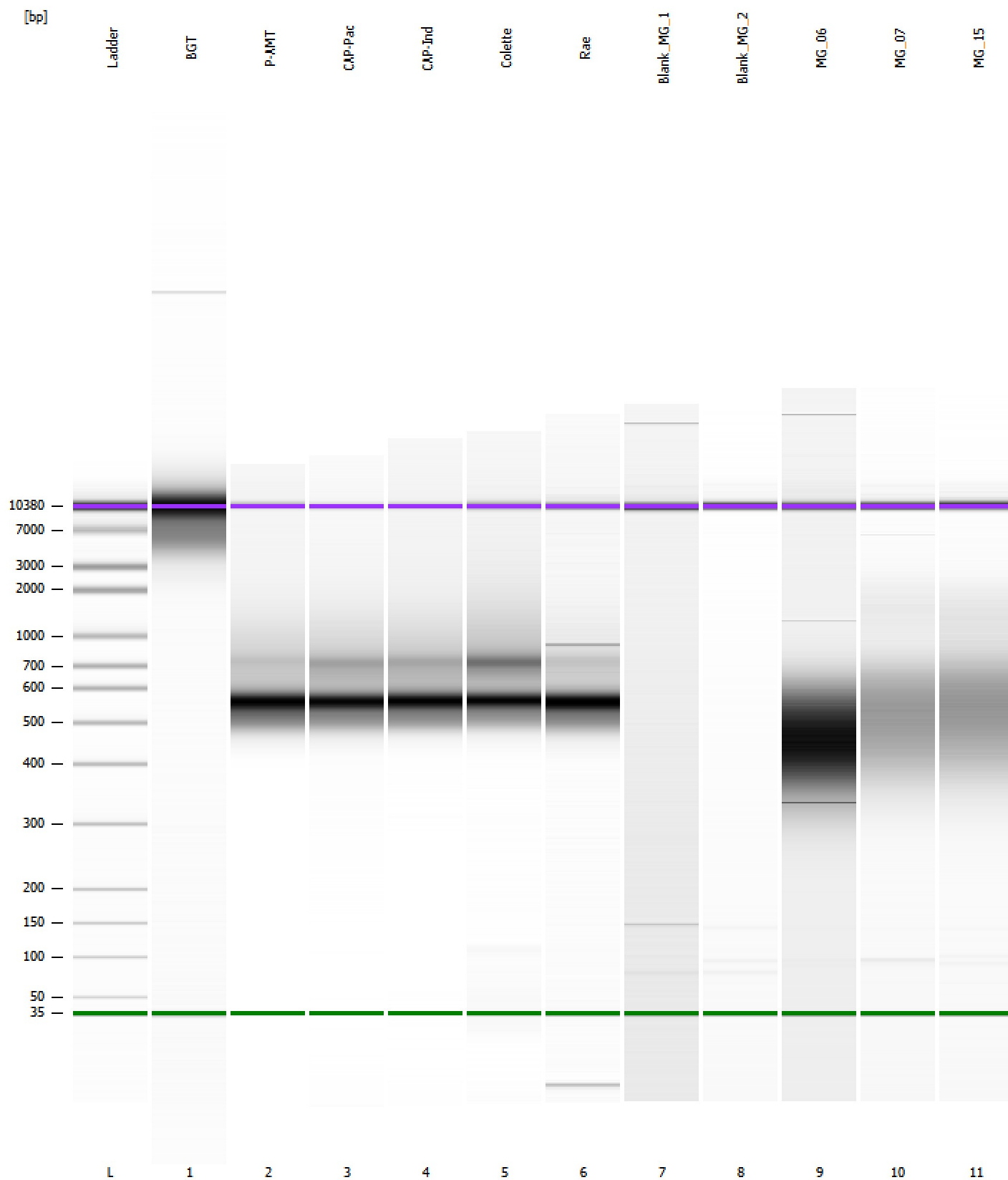
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	339	17.21	76.9	
3	380	48.90	195.1	
4	400	49.68	188.4	
5	419	32.31	116.9	
6	464	85.46	278.8	
7	473	31.53	101.1	
8	501	75.76	229.0	
9	512	41.80	123.7	
10	547	64.91	179.8	
11	575	29.20	76.9	
12	590	31.89	81.9	
13	606	142.81	356.8	
14	811	15.33	28.7	
15	930	9.14	14.9	
16	992	7.12	10.9	
17	1,133	11.01	14.7	
18	1,583	11.57	11.1	
19	1,748	8.72	7.6	
20	1,962	3.40	2.6	
21	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : MG_15

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	1,066.5	89	539	25.5	839.50	2,576.2	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
Modified: 1/18/2022 1:49:12 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad

Created: 1/18/2022 11:37:01 AM
 Modified: 1/18/2022 1:49:12 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		1/18/2022 12:18:27 PM	(GMT --08:00) Pacific Standard Time	Rohan	HEIDELBERG-G EL
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2022-01-18\2100 expert_High Sensitivity DNA Assay_DE54700632_2022-01-18_11-37-01.xad)		Instrument	Run		1/18/2022 11:37:06 AM	(GMT --08:00) Pacific Standard Time	Rohan	HEIDELBERG-G EL
Product Number : G2939A		Instrument	Run		1/18/2022 11:37:06 AM	(GMT --08:00) Pacific Standard Time	Rohan	HEIDELBERG-G EL
Name :		Instrument	Run		1/18/2022 11:37:06 AM	(GMT --08:00) Pacific Standard Time	Rohan	HEIDELBERG-G EL
Vendor : Agilent Technologies		Instrument	Run		1/18/2022 11:37:06 AM	(GMT --08:00) Pacific Standard Time	Rohan	HEIDELBERG-G EL
Serial# : DE54700632		Instrument	Run		1/18/2022 11:37:06 AM	(GMT --08:00) Pacific Standard Time	Rohan	HEIDELBERG-G EL
Firmware : C.01.069		Instrument	Run		1/18/2022 11:37:06 AM	(GMT --08:00) Pacific Standard Time	Rohan	HEIDELBERG-G EL
Cartridge : Electrode		Instrument	Run		1/18/2022 11:37:06 AM	(GMT --08:00) Pacific Standard Time	Rohan	HEIDELBERG-G EL