

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-15\2018-05-15_002.xad

Created: 5/15/2018 3:59:18 PM
Modified: 5/15/2018 4:40:34 PM

Electrophoresis File Run Summary

Instrument Information:

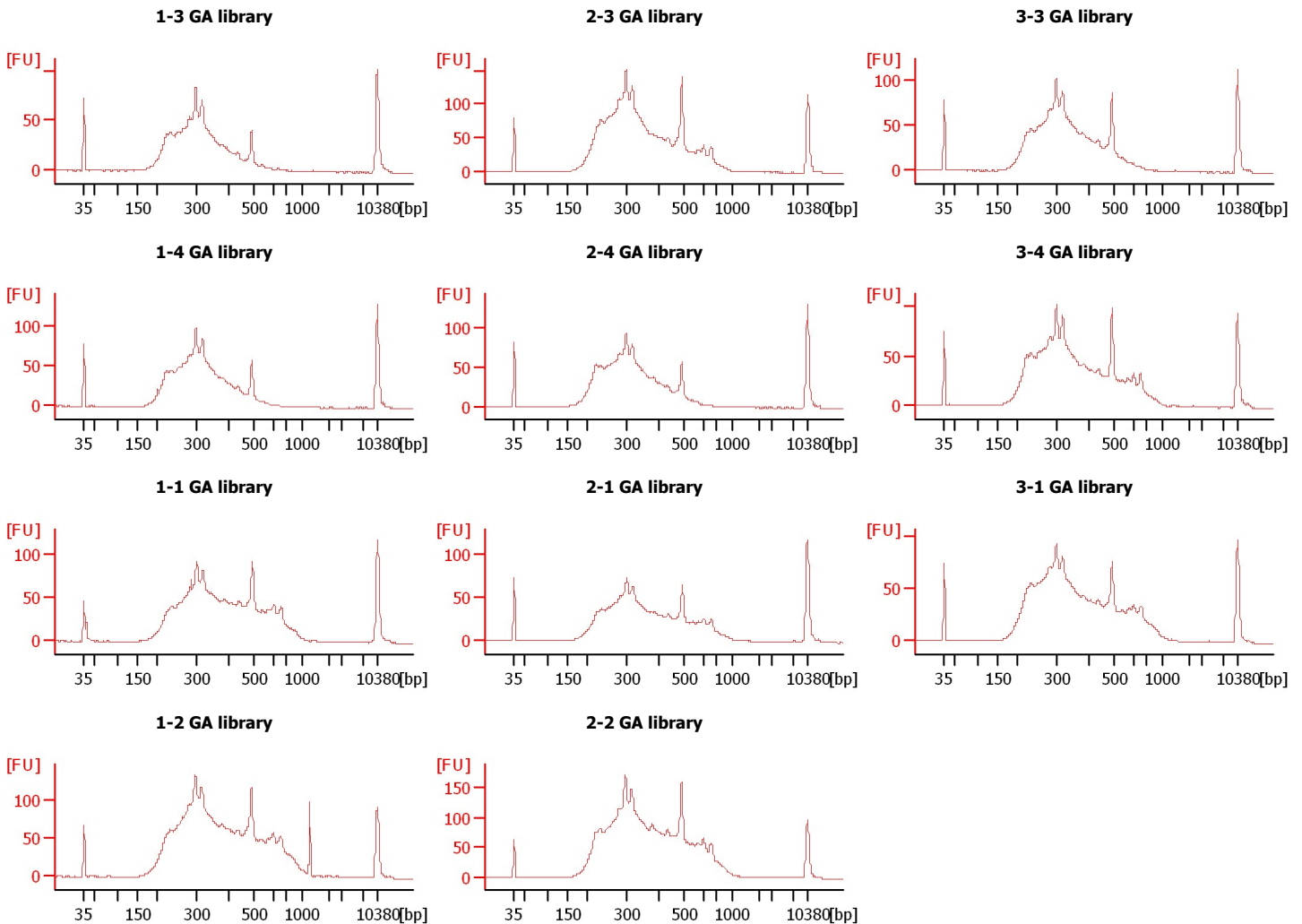
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files\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
1-3 GA library		<input type="checkbox"/>	✓			
2-3 GA library		<input type="checkbox"/>	✓			
3-3 GA library		<input type="checkbox"/>	✓			
1-4 GA library		<input type="checkbox"/>	✓			
2-4 GA library		<input type="checkbox"/>	✓			
3-4 GA library		<input type="checkbox"/>	✓			
1-1 GA library		<input type="checkbox"/>	✓			
2-1 GA library		<input type="checkbox"/>	✓			
3-1 GA library		<input type="checkbox"/>	✓			
1-2 GA library		<input type="checkbox"/>	✓			
2-2 GA library		<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

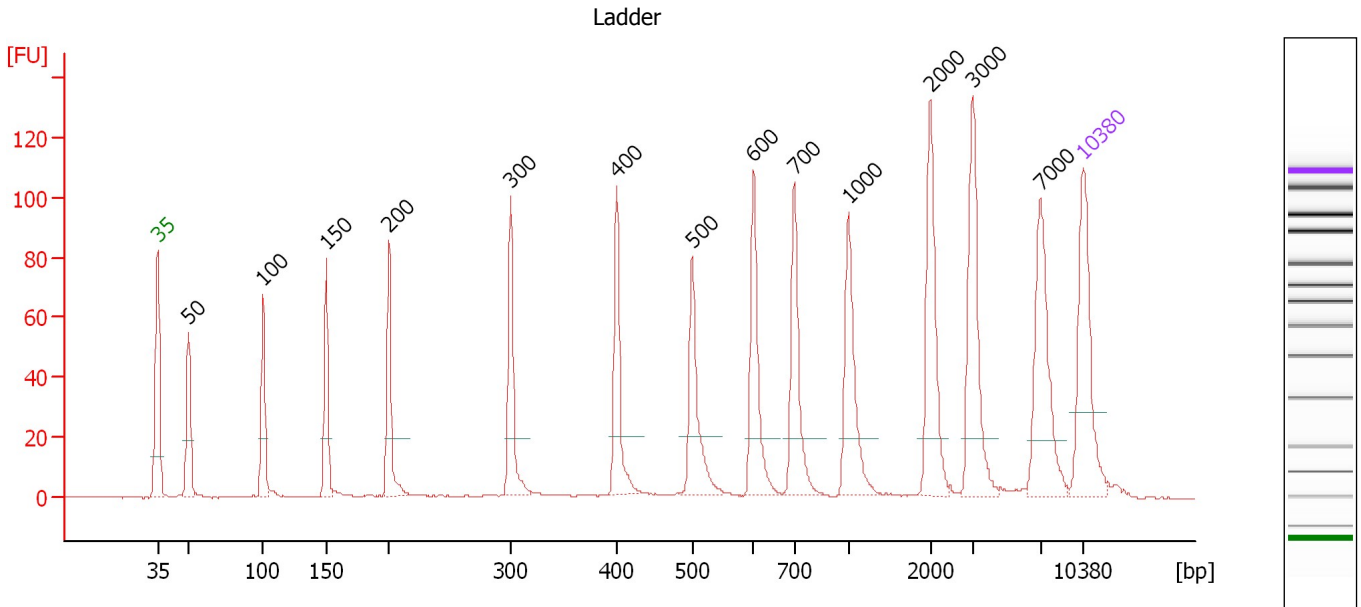
Ladder

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: 0.2

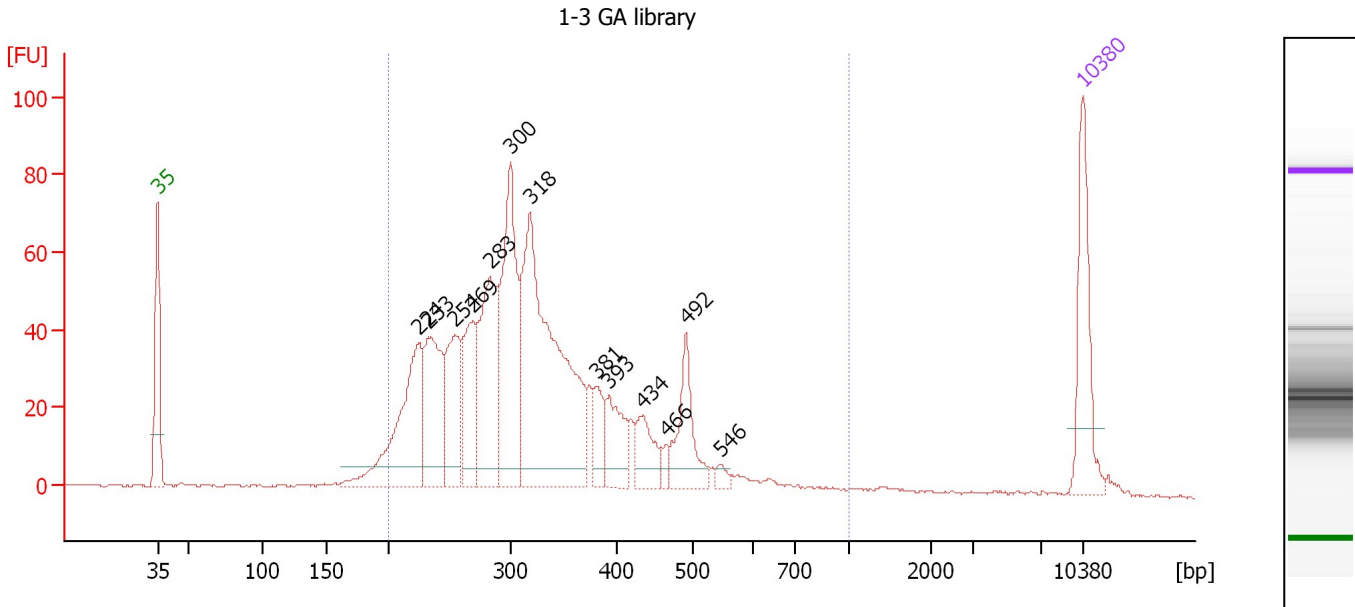
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	51.01
4	150	150.00	1,515.2	Ladder Peak	55.75
5	200	150.00	1,136.4	Ladder Peak	60.50
6	300	150.00	757.6	Ladder Peak	69.71
7	400	150.00	568.2	Ladder Peak	77.71
8	500	150.00	454.5	Ladder Peak	83.42
9	600	150.00	378.8	Ladder Peak	88.07
10	700	150.00	324.7	Ladder Peak	91.14
11	1,000	150.00	227.3	Ladder Peak	95.26
12	2,000	150.00	113.6	Ladder Peak	101.45
13	3,000	150.00	75.8	Ladder Peak	104.66
14	7,000	150.00	32.5	Ladder Peak	109.74
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 1-3 GA library

Number of peaks found: 13 Corr. Area 1: 1,212.1
 Noise: 0.3

Peak table for sample 1 : 1-3 GA 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	224	187.98	1,270.6		62.72
3	233	132.57	863.7		63.50
4	254	104.52	623.3		65.48
5	269	97.48	549.5		66.83
6	283	162.34	869.2		68.14
7	300	208.25	1,052.5		69.69
8	318	397.28	1,890.2		71.18
9	381	36.85	146.7		76.16
10	393	54.48	210.2		77.13
11	434	42.35	147.9		79.64
12	466	10.09	32.8		81.48
13	492	69.94	215.2		82.98
14	546	7.56	21.0		85.54
15	10,380	75.00	10.9	Upper Marker	113.00

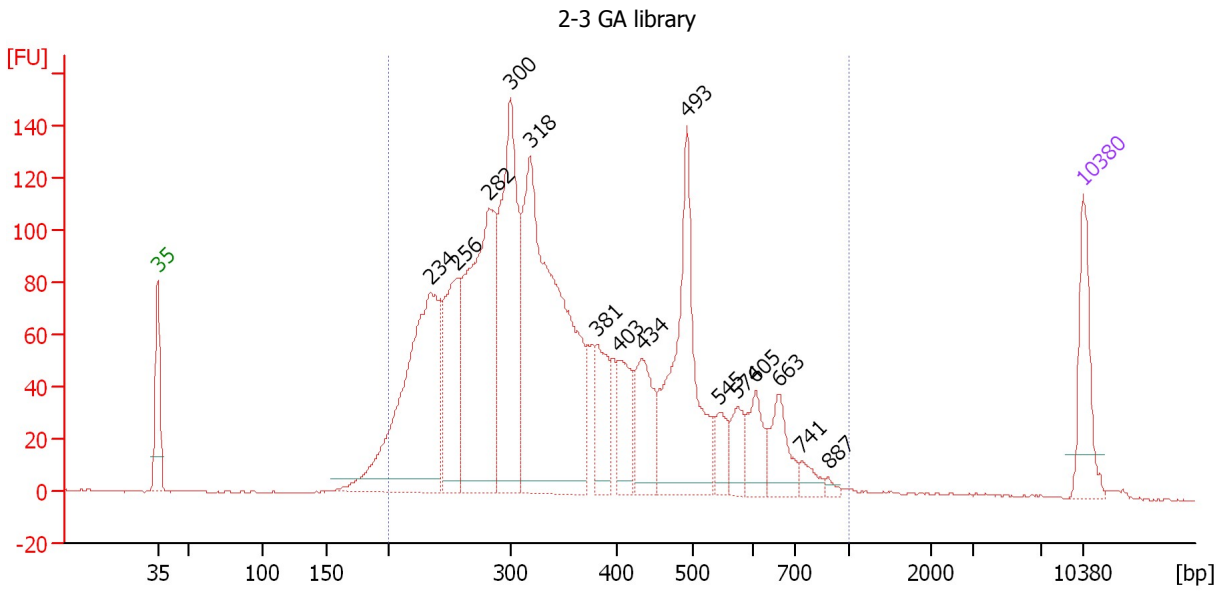
Region table for sample 1 : 1-3 GA library

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	332	1,591.13	1,212.1	7,932.9	94	29.6

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 2-3 GA library

Number of peaks found: 15 Corr. Area 1: 2,788.0
 Noise: 0.2

Peak table for sample 2 : 2-3 GA 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	234	512.93	3,316.1		63.66
3	256	210.13	1,243.1		65.67
4	282	471.59	2,532.8		68.06
5	300	390.23	1,969.6		69.72
6	318	705.38	3,355.7		71.19
7	381	92.52	367.6		76.22
8	403	84.12	316.3		77.88
9	434	105.34	368.0		79.64
10	493	311.10	956.5		83.01
11	545	39.29	109.3		85.50
12	574	42.88	113.2		86.87
13	605	58.07	145.3		88.23
14	663	67.37	154.0		89.99
15	741	20.50	41.9		91.70
16	887	6.52	11.1		93.70
17	10,380	75.00	10.9	Upper Marker	113.00

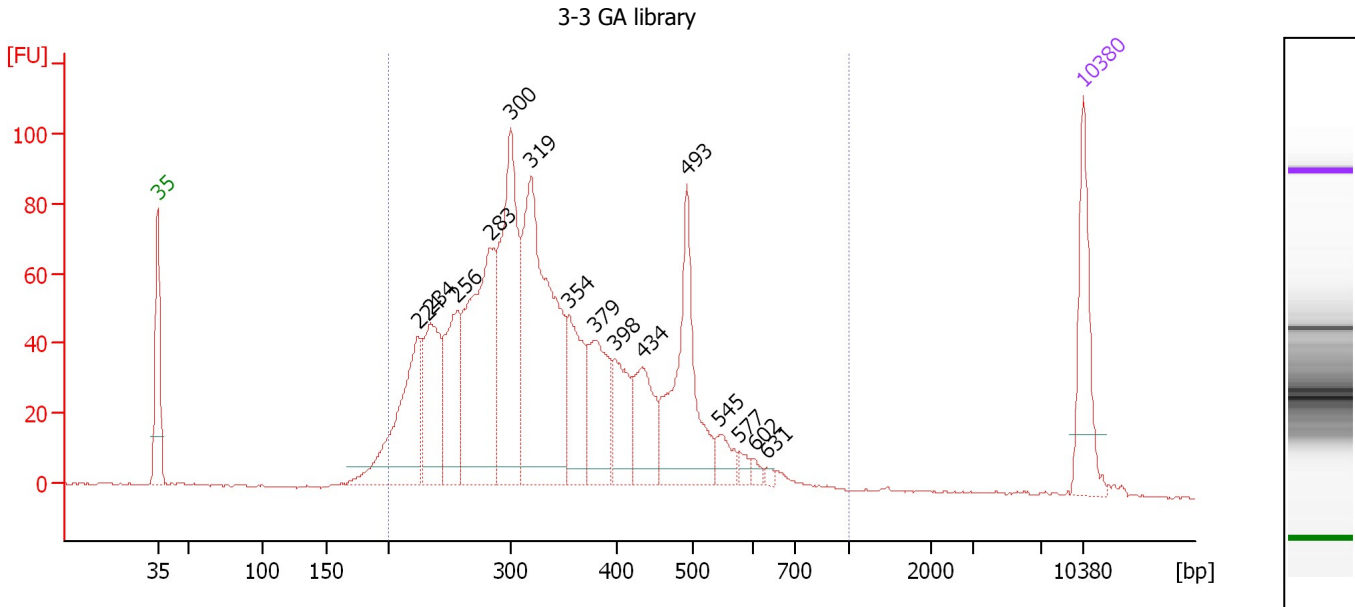
Region table for sample 2 : 2-3 GA library

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	368	3,196.70	2,788.0	15,067.7	96	34.6

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 3-3 GA library

Number of peaks found: 15 Corr. Area 1: 1,718.6
 Noise: 0.3

Peak table for sample 3 : 3-3 GA 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	224	197.89	1,338.5		62.71
3	234	143.73	929.7		63.65
4	256	129.86	767.5		65.69
5	283	294.75	1,576.2		68.17
6	300	274.99	1,388.6		69.71
7	319	391.76	1,859.2		71.25
8	354	114.51	490.1		74.03
9	379	108.50	434.0		76.01
10	398	76.76	292.2		77.55
11	434	85.18	297.5		79.64
12	493	187.05	574.9		83.01
13	545	25.80	71.8		85.50
14	577	9.60	25.2		86.99
15	602	6.81	17.1		88.13
16	631	4.03	9.7		89.02
17	10,380	75.00	10.9	Upper Marker	113.00

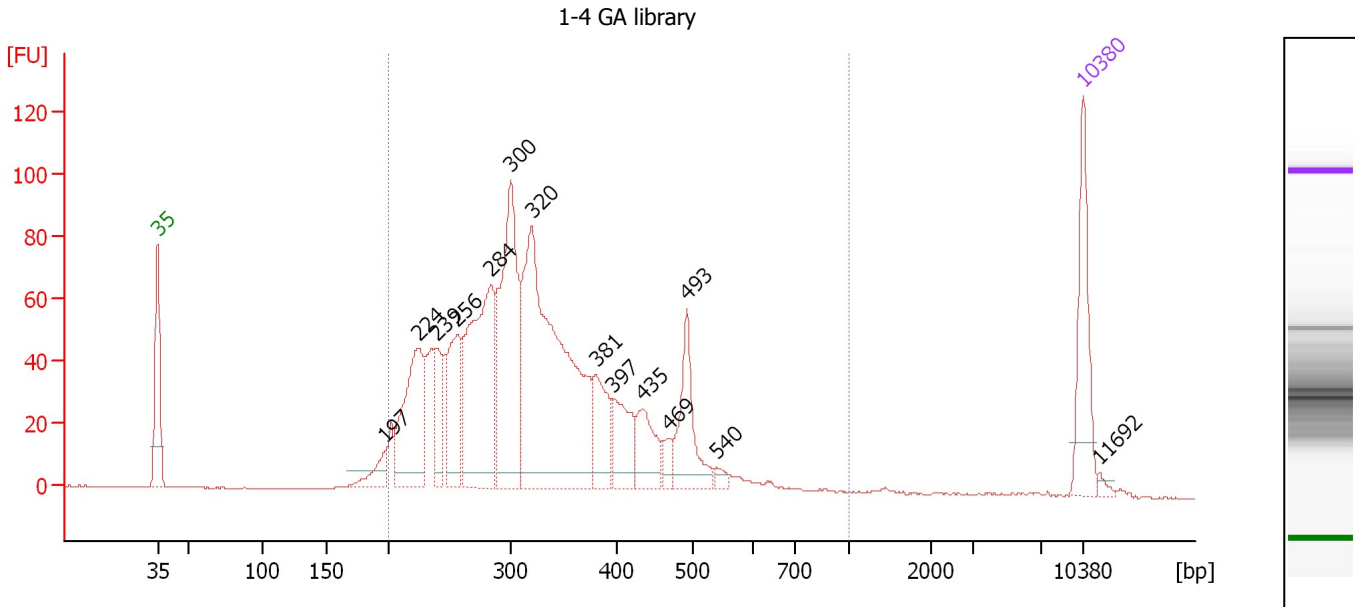
Region table for sample 3 : 3-3 GA library

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	351	2,121.96	1,718.6	10,172.2	97	29.8

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 1-4 GA library

Number of peaks found: 14 Corr. Area 1: 1,499.2
 Noise: 0.3

Peak table for sample 4 : 1-4 GA 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	197	29.37	225.9		60.21
3	224	172.46	1,167.7		62.69
4	239	60.00	381.0		64.06
5	256	108.13	639.4		65.68
6	284	264.22	1,408.3		68.26
7	300	255.66	1,290.2		69.72
8	320	475.74	2,253.7		71.29
9	381	69.16	275.4		76.15
10	397	66.18	252.6		77.47
11	435	57.45	200.2		79.70
12	469	16.42	53.0		81.67
13	493	86.98	267.2		83.04
14	540	8.84	24.8		85.26
15	10,380	75.00	10.9	Upper Marker	113.00
16	11,692	0.00	0.0		114.27

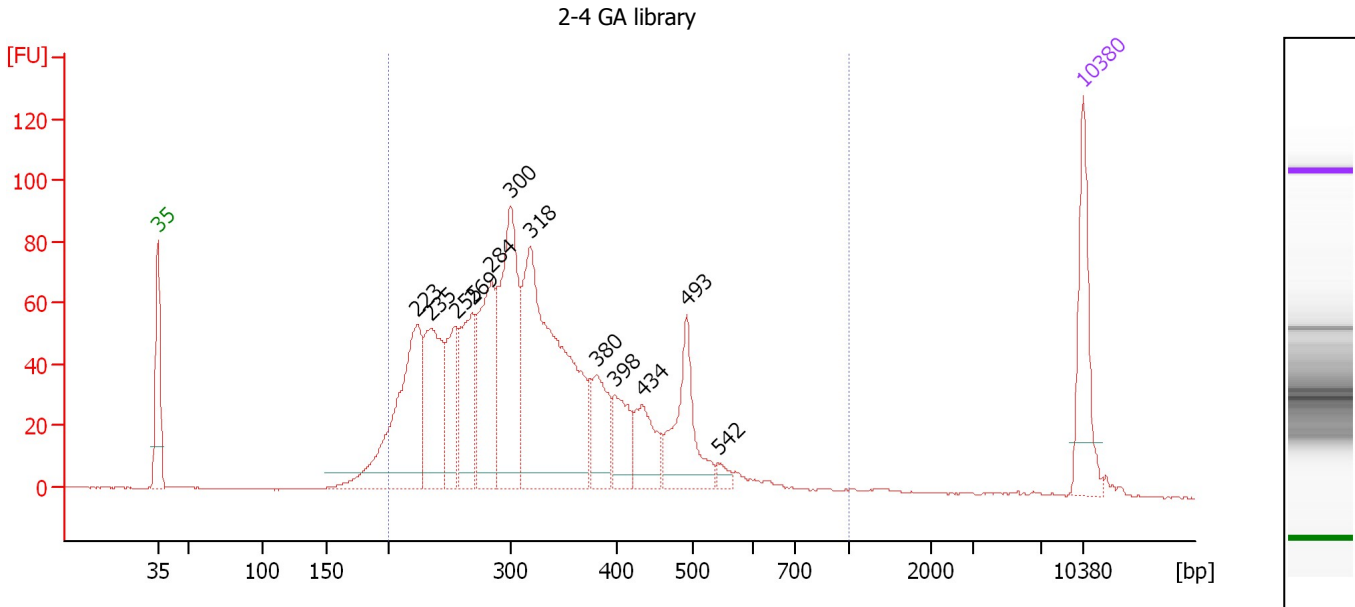
Region table for sample 4 : 1-4 GA library

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	332	1,803.99	1,499.2	8,952.6	97	27.6

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 2-4 GA library

Number of peaks found: 12 Corr. Area 1: 1,591.1
 Noise: 0.2

Peak table for sample 5 : 2-4 GA 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	223	259.99	1,764.0		62.65
3	235	151.18	976.6		63.68
4	255	91.01	541.3		65.54
5	269	121.01	682.1		66.83
6	284	155.53	829.9		68.23
7	300	231.96	1,170.4		69.73
8	318	421.16	2,004.4		71.18
9	380	72.54	289.0		76.14
10	398	55.78	212.1		77.59
11	434	64.04	223.5		79.65
12	493	107.43	330.2		83.01
13	542	10.44	29.2		85.39
14	10,380	75.00	10.9	Upper Marker	113.00

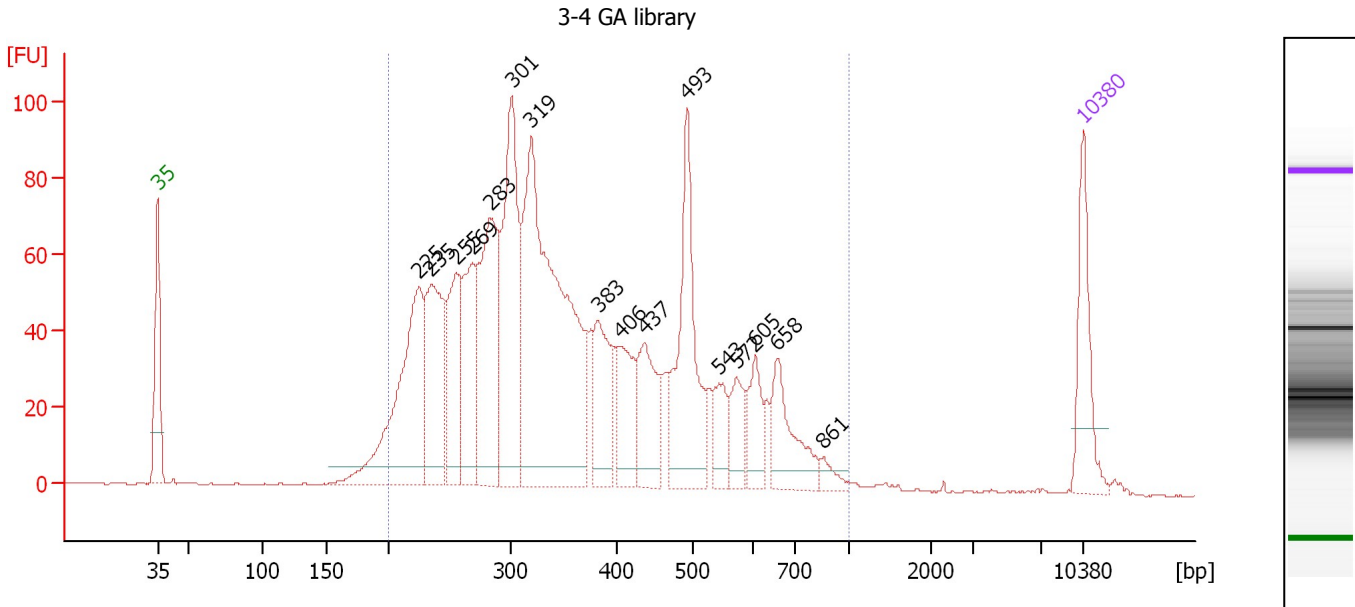
Region table for sample 5 : 2-4 GA library

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	333	1,782.27	1,591.1	8,904.6	95	29.4

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 3-4 GA library

Number of peaks found: 16 Corr. Area 1: 1,938.8
 Noise: 0.3

Peak table for sample 6 : 3-4 GA 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	225	301.06	2,026.4		62.81
3	235	196.86	1,270.0		63.71
4	255	130.89	777.9		65.56
5	269	141.49	797.8		66.83
6	283	224.60	1,202.2		68.15
7	301	276.20	1,390.3		69.78
8	319	585.20	2,775.4		71.26
9	383	110.12	435.9		76.34
10	406	83.69	312.0		78.08
11	437	100.24	347.6		79.82
12	493	199.85	613.6		83.05
13	543	42.27	117.9		85.42
14	572	47.27	125.3		86.74
15	605	50.08	125.4		88.22
16	658	85.31	196.3		89.86
17	861	13.63	24.0		93.35
18	10,380	75.00	10.9	Upper Marker	113.00

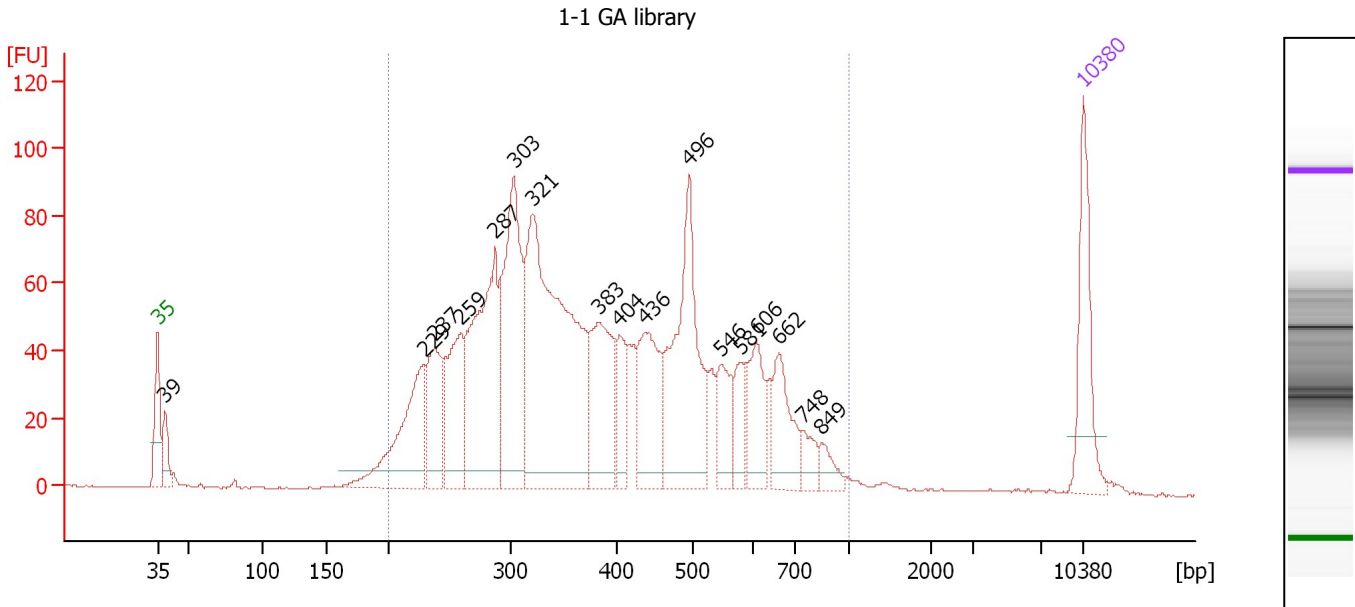
Region table for sample 6 : 3-4 GA library

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	379	2,699.77	1,938.8	12,563.2	97	36.0

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 1-1 GA library

Number of peaks found: 17 Corr. Area 1: 1,980.0
 Noise: 0.2

Peak table for sample 7 : 1-1 GA 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	39	35.48	1,386.5		43.59
3	229	166.07	1,100.9		63.13
4	237	98.53	629.1		63.94
5	259	125.74	735.9		65.92
6	287	258.98	1,367.8		68.50
7	303	236.50	1,182.5		69.95
8	321	473.83	2,235.6		71.40
9	383	133.40	527.1		76.39
10	404	52.03	195.1		77.95
11	436	116.01	403.1		79.77
12	496	223.51	682.3		83.21
13	546	49.56	137.5		85.57
14	581	39.88	104.0		87.18
15	606	63.96	159.9		88.25
16	662	69.55	159.2		89.97
17	748	22.42	45.4		91.80
18	849	17.04	30.4		93.19
19	10,380	75.00	10.9	Upper Marker	113.00

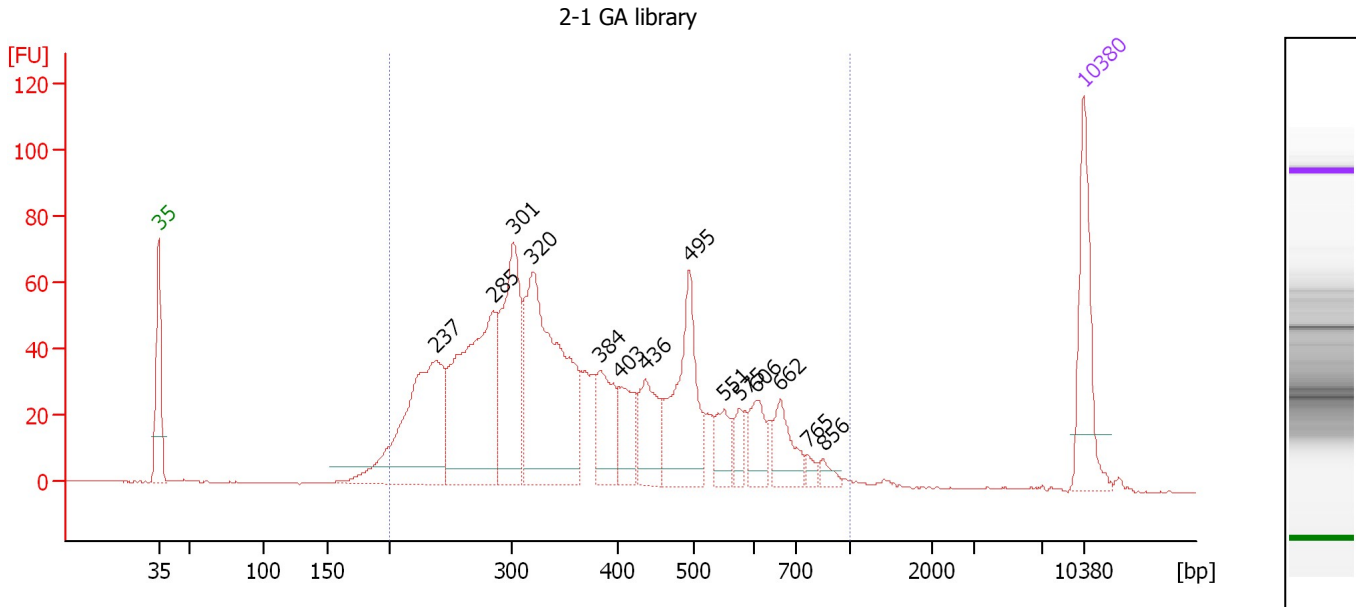
Region table for sample 7 : 1-1 GA library

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	406	2,251.81	1,980.0	9,844.7	95	35.7

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 2-1 GA library

Number of peaks found: 14 Corr. Area 1: 1,481.5
 Noise: 0.2

Peak table for sample 8 : 2-1 GA 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	237	260.41	1,664.3		63.91
3	285	274.56	1,460.9		68.30
4	301	186.86	939.3		69.82
5	320	314.28	1,489.5		71.28
6	384	69.86	275.7		76.43
7	403	50.61	190.2		77.89
8	436	66.70	231.6		79.79
9	495	136.39	417.3		83.15
10	551	30.27	83.2		85.80
11	575	19.60	51.7		86.89
12	606	37.17	93.0		88.24
13	662	43.40	99.3		89.97
14	765	7.34	14.5		92.03
15	856	9.22	16.3		93.28
16	10,380	75.00	10.9	Upper Marker	113.00

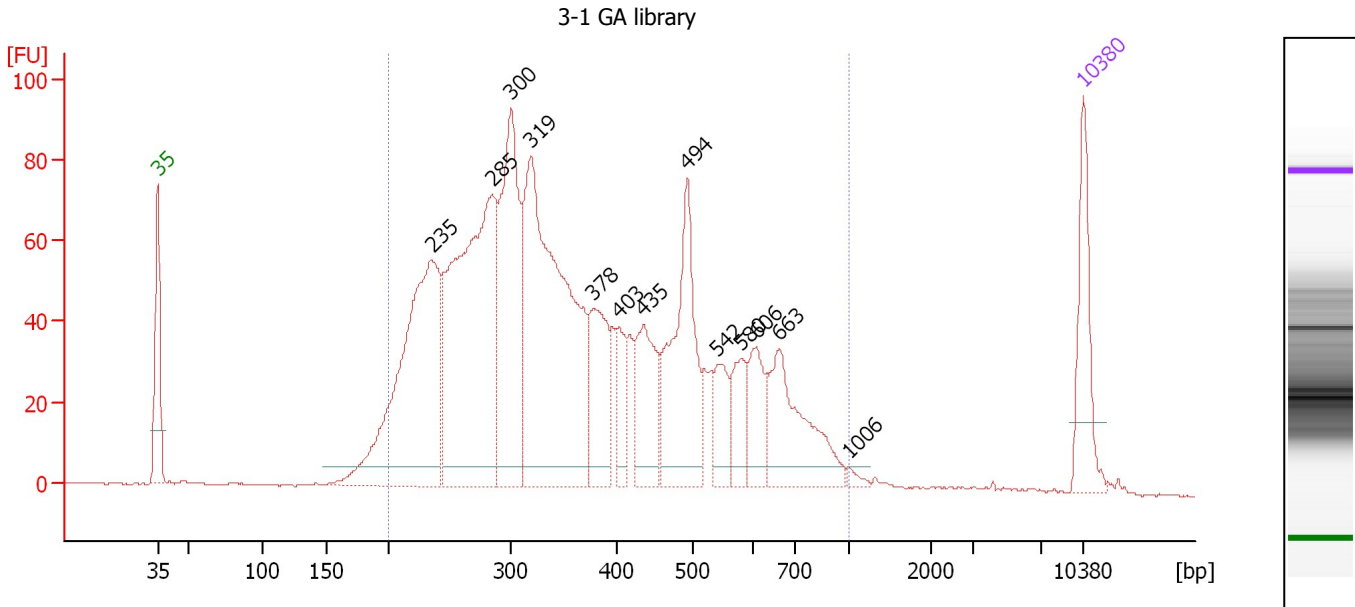
Region table for sample 8 : 2-1 GA library

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	387	1,614.13	1,481.5	7,364.3	96	36.0

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 3-1 GA library

Number of peaks found: 13 Corr. Area 1: 2,005.5
 Noise: 0.2

Peak table for sample 9 : 3-1 GA 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	235	484.67	3,118.7		63.77
3	285	544.79	2,899.0		68.30
4	300	304.06	1,534.7		69.72
5	319	566.92	2,695.8		71.20
6	378	120.39	482.6		75.95
7	403	48.41	182.1		77.86
8	435	112.39	391.3		79.72
9	494	214.14	657.3		83.05
10	542	52.99	148.3		85.35
11	580	51.90	135.5		87.15
12	606	60.00	150.1		88.25
13	663	141.05	322.5		89.99
14	1,006	6.51	9.8		95.30
15	10,380	75.00	10.9	Upper Marker	113.00

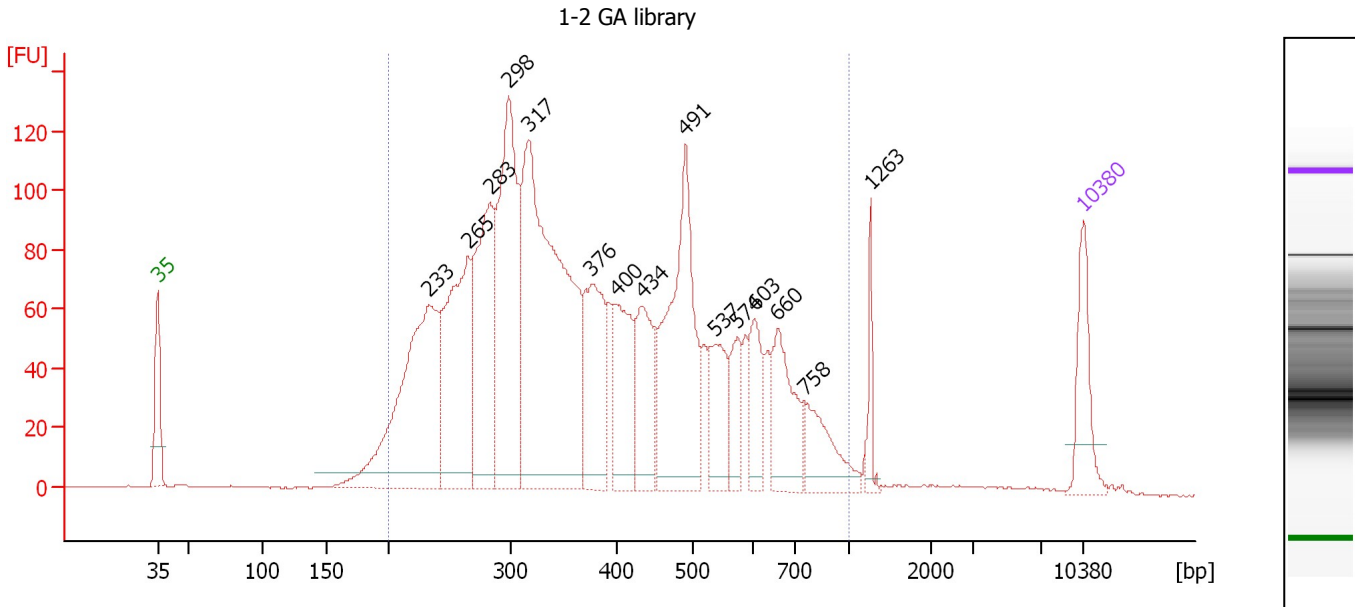
Region table for sample 9 : 3-1 GA library

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	388	2,799.30	2,005.5	12,907.4	96	38.0

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Electropherogram Summary Continued ...



Overall Results for sample 10 : 1-2 GA library

Number of peaks found: 15 Corr. Area 1: 2,844.4
 Noise: 0.2

Peak table for sample 10 : 1-2 GA 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	233	499.23	3,242.2		63.57
3	265	350.75	2,005.7		66.48
4	283	311.60	1,669.0		68.13
5	298	415.52	2,109.8		69.56
6	317	778.13	3,722.5		71.04
7	376	214.04	861.5		75.83
8	400	152.80	579.1		77.70
9	434	144.56	504.2		79.68
10	491	350.75	1,081.7		82.92
11	537	95.92	270.8		85.12
12	574	61.00	160.9		86.88
13	603	78.19	196.6		88.15
14	660	125.15	287.4		89.90
15	758	93.33	186.5		91.94
16	1,263	33.68	40.4		96.89
17	10,380	75.00	10.9	Upper Marker	113.00

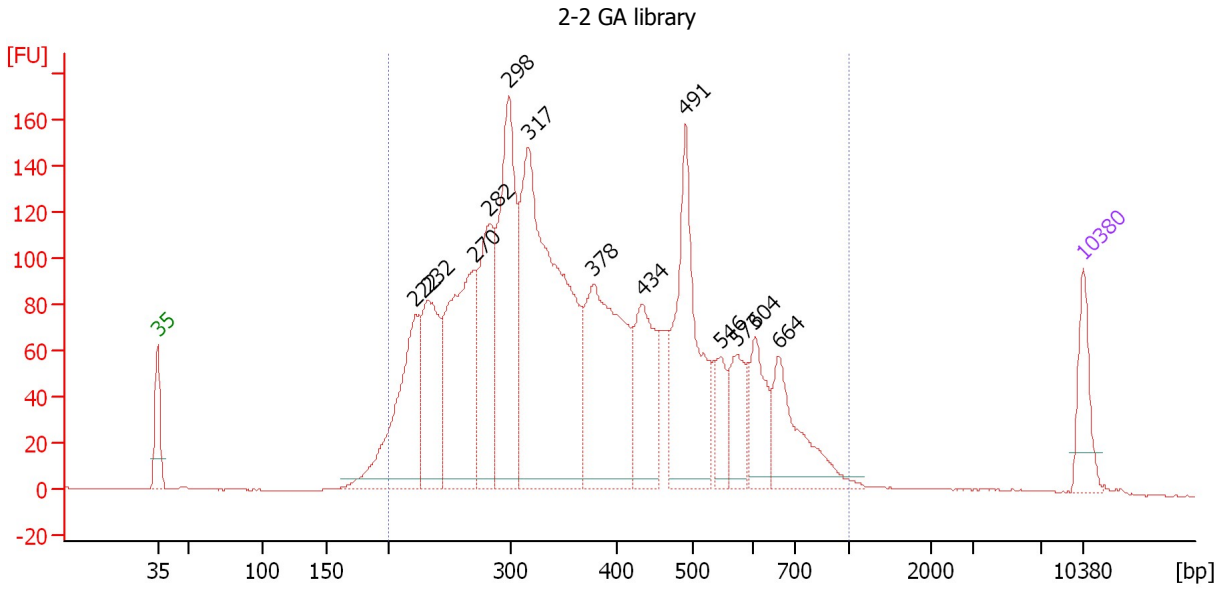
Region table for sample 10 : 1-2 GA library

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	402	3,778.55	2,844.4	16,810.5	95	37.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-15\2018-05-15_002.xad

Created: 5/15/2018 3:59:18 PM
 Modified: 5/15/2018 4:40:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 2-2 GA library

Number of peaks found: 13 Corr. Area 1: 3,440.6
 Noise: 0.2

Peak table for sample 11 : 2-2 GA 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	222	385.75	2,638.0		62.48
3	232	299.59	1,953.1		63.48
4	270	506.34	2,843.5		66.93
5	282	290.15	1,556.4		68.09
6	298	499.62	2,539.1		69.53
7	317	987.49	4,726.1		71.03
8	378	498.98	1,998.6		75.97
9	434	235.62	823.1		79.64
10	491	403.20	1,243.8		82.91
11	546	80.60	223.5		85.58
12	573	107.28	283.8		86.80
13	604	118.91	298.4		88.19
14	664	184.96	422.3		90.02
15	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 2-2 GA library

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	391	4,679.89	3,440.6	21,148.9	96	35.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-15\2018-05-15_002.xad

Created: 5/15/2018 3:59:18 PM
Modified: 5/15/2018 4:40:34 PM

Gel Image