

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
Modified: 8/20/2014 1:50:53 PM

Electrophoresis File Run Summary

Instrument Information:

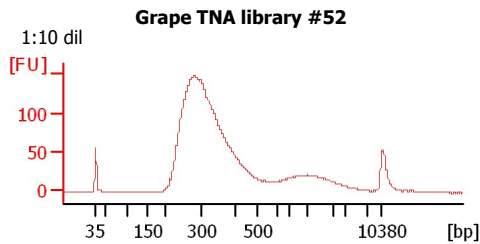
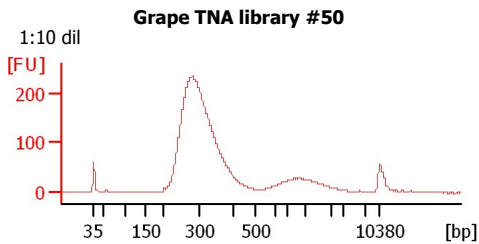
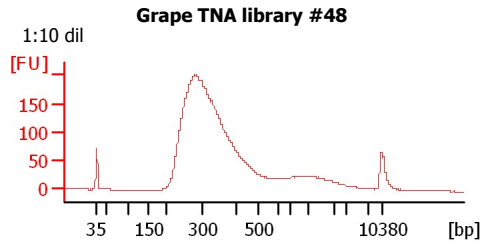
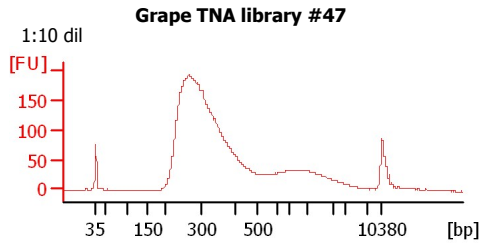
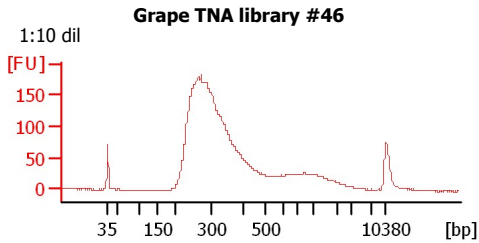
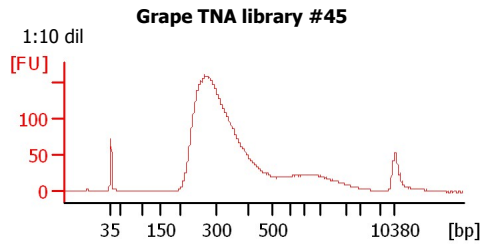
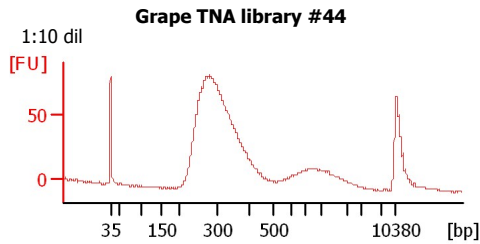
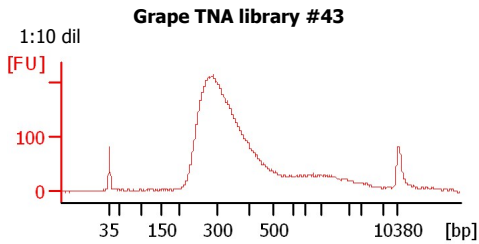
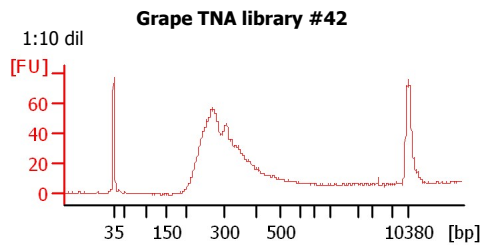
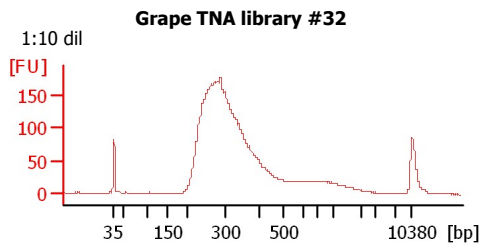
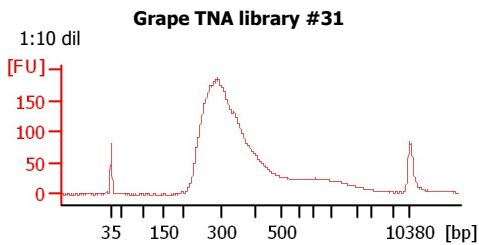
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Grape TNA library #31	1:10 dil	<input type="checkbox"/>	✓			
Grape TNA library #32	1:10 dil	<input type="checkbox"/>	✓			
Grape TNA library #42	1:10 dil	<input type="checkbox"/>	✓			
Grape TNA library #43	1:10 dil	<input type="checkbox"/>	✓			
Grape TNA library #44	1:10 dil	<input type="checkbox"/>	✓			
Grape TNA library #45	1:10 dil	<input type="checkbox"/>	✓			
Grape TNA library #46	1:10 dil	<input type="checkbox"/>	✓			
Grape TNA library #47	1:10 dil	<input type="checkbox"/>	✓			
Grape TNA library #48	1:10 dil	<input type="checkbox"/>	✓			
Grape TNA library #50	1:10 dil	<input type="checkbox"/>	✓			
Grape TNA library #52	1:10 dil	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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Created: 8/20/2014 1:08:26 PM
Modified: 8/20/2014 1:50:53 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

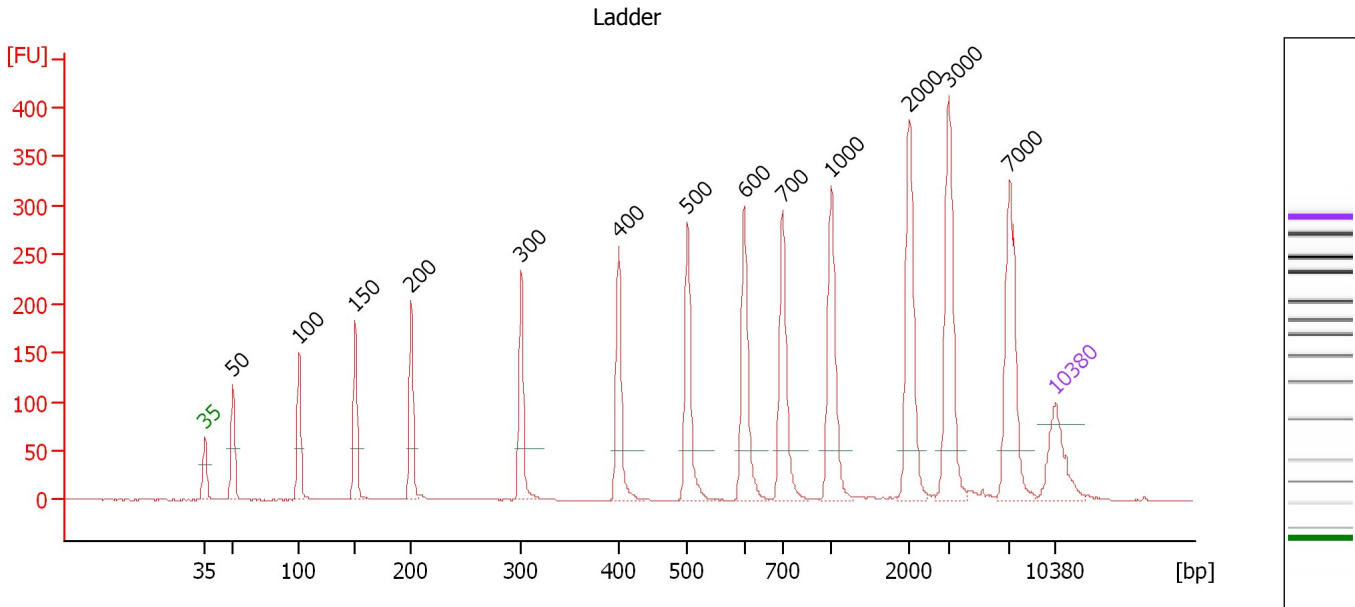
Ladder

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

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Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

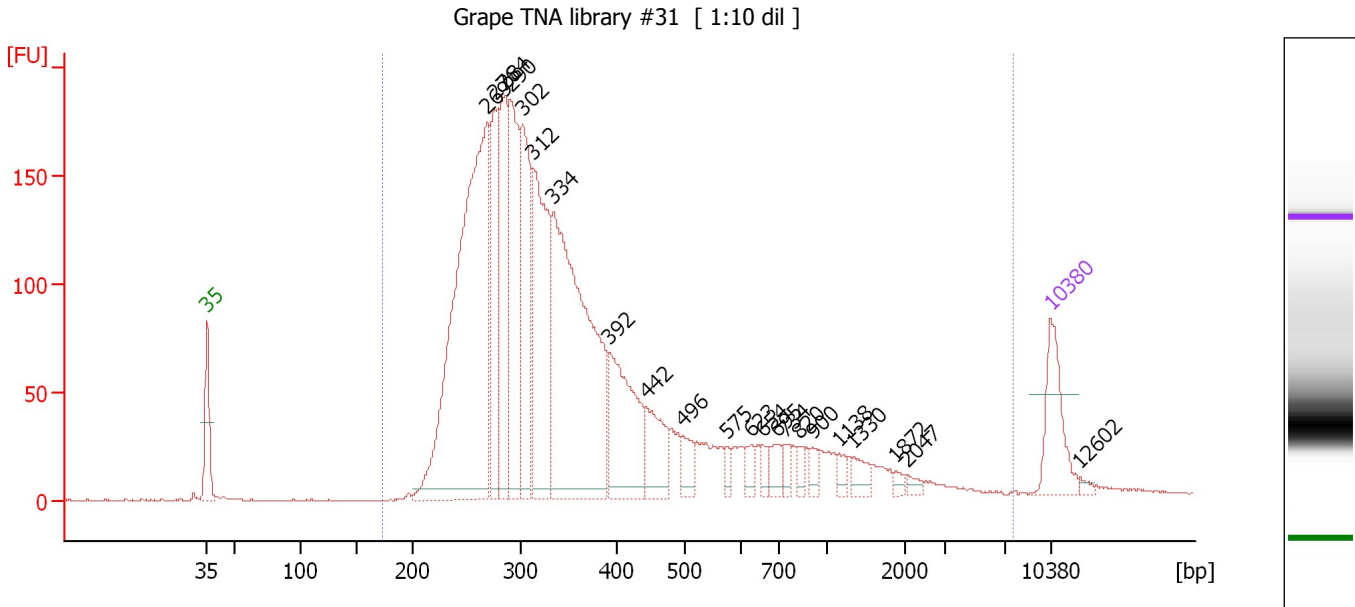
Peak table for Ladder

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

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Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Grape TNA library #31

Number of peaks found: 22 Corr. Area 1: 3,592.2
 Noise: 0.2

Peak table for sample 1 : Grape TNA library #31

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	269	919.65	5,181.5	
3	276	199.88	1,098.1	
4	284	256.06	1,365.5	
5	290	283.75	1,482.5	
6	302	244.27	1,225.6	
7	312	338.15	1,642.3	
8	334	673.93	3,060.8	
9	392	204.80	791.9	
10	442	94.25	323.0	
11	496	35.11	107.3	
12	575	13.91	36.7	
13	623	19.87	48.3	
14	654	17.83	41.3	
15	695	24.45	53.3	
16	734	17.87	36.9	
17	820	15.49	28.6	
18	900	14.96	25.2	
19	1,138	13.27	17.7	
20	1,330	19.70	22.4	
21	1,872	6.79	5.5	
22	2,047	8.21	6.1	
23	10,380	75.00	10.9	Upper Marker
24	12,602	0.00	0.0	

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Created: 8/20/2014 1:08:26 PM
Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...

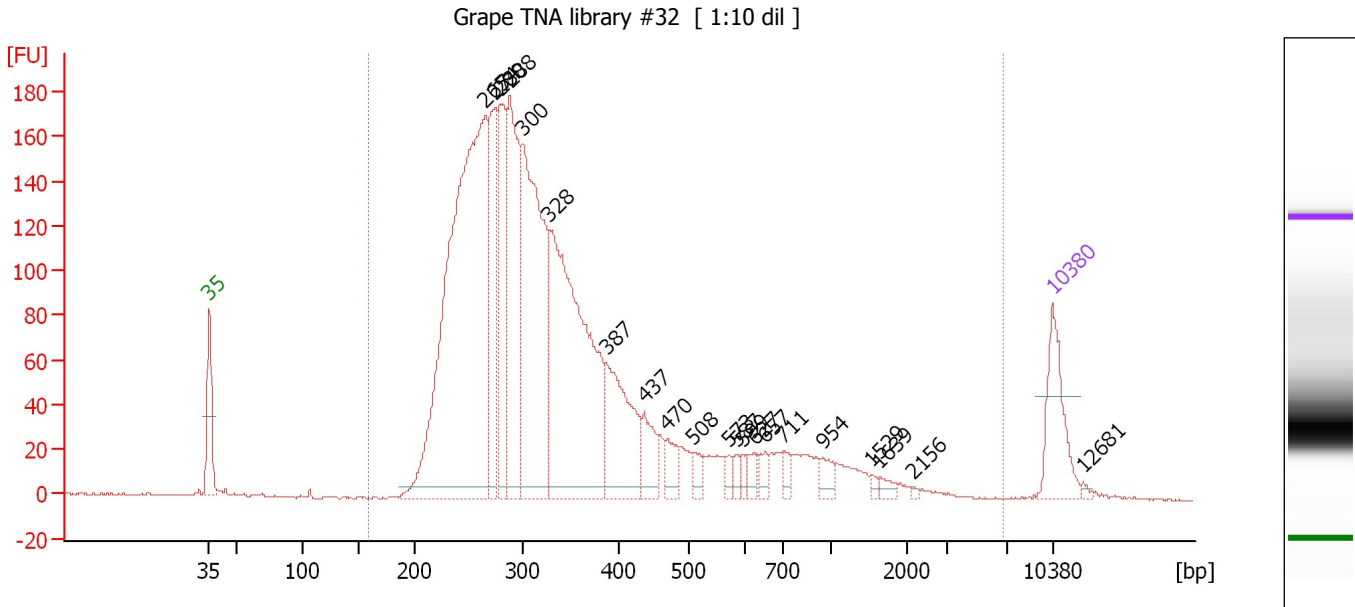
... Region table for sample 1 : Grape TNA library #31

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
173	7,592	436	17,185.0	3,659.19	■ 3,592.2	99	97.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Grape TNA library #32

Number of peaks found: 21 Corr. Area 1: 3,477.5
 Noise: 0.5

Peak table for sample 2 : Grape TNA library #32

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	1,033.89	5,911.3	
3	274	183.60	1,014.1	
4	280	195.62	1,057.8	
5	288	321.14	1,689.3	
6	300	475.43	2,402.8	
7	328	573.03	2,651.1	
8	387	180.96	708.8	
9	437	52.54	182.3	
10	470	33.39	107.6	
11	508	19.11	57.0	
12	573	10.83	28.6	
13	587	11.53	29.8	
14	599	10.65	26.9	
15	627	15.87	38.3	
16	657	15.33	35.4	
17	711	13.90	29.6	
18	954	18.16	28.9	
19	1,529	4.59	4.6	
20	1,639	9.36	8.7	
21	2,156	2.20	1.5	
22	10,380	75.00	10.9	Upper Marker
23	12,681	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...

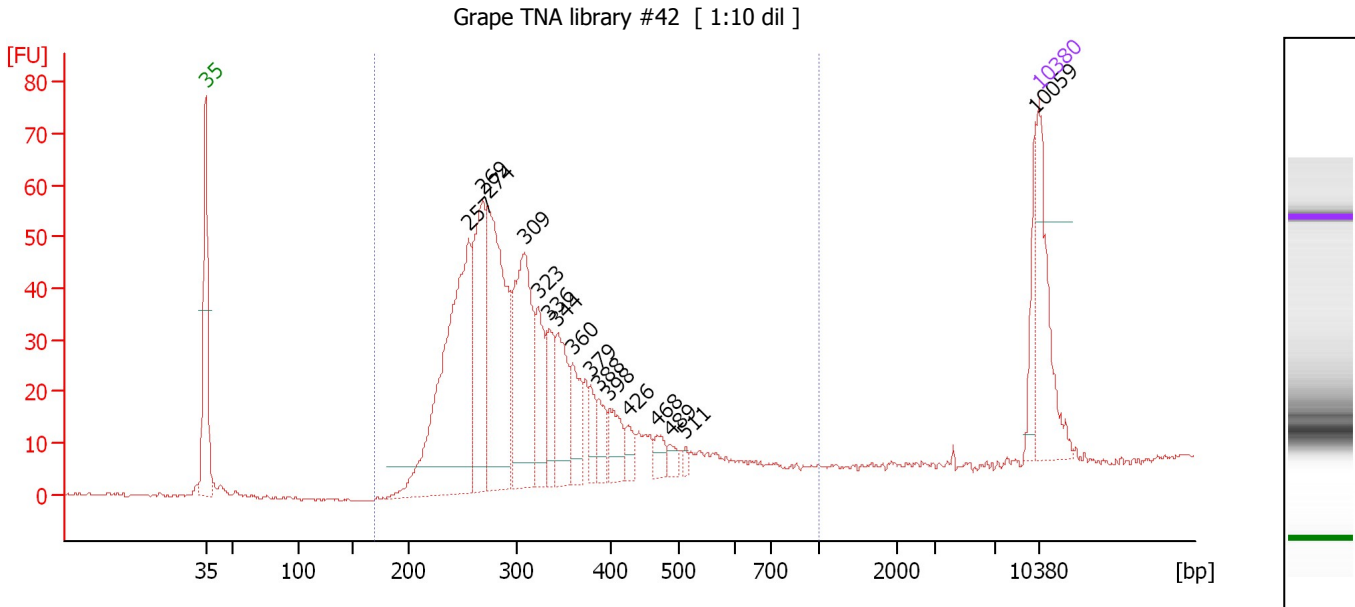
... Region table for sample 2 : Grape TNA library #32

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
158	6,717	395	16,629.3	3,382.87	 3,477.5	99	83.4

Assay Class: High Sensitivity DNA Assay
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Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Grape TNA library #42

Number of peaks found: 16 Corr. Area 1: 823.9
 Noise: 0.3

Peak table for sample 3 : Grape TNA library #42

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	257	363.97	2,149.8	
3	269	163.71	922.4	
4	274	251.94	1,393.9	
5	309	192.33	942.7	
6	323	67.45	316.3	
7	336	48.23	217.8	
8	344	77.23	340.3	
9	360	47.29	198.9	
10	379	24.20	96.8	
11	388	25.60	100.0	
12	398	34.11	129.7	
13	426	16.21	57.7	
14	468	15.60	50.5	
15	489	9.87	30.6	
16	511	5.16	15.3	
17	10,059	30.27	4.6	
18	10,380	75.00	10.9	Upper Marker

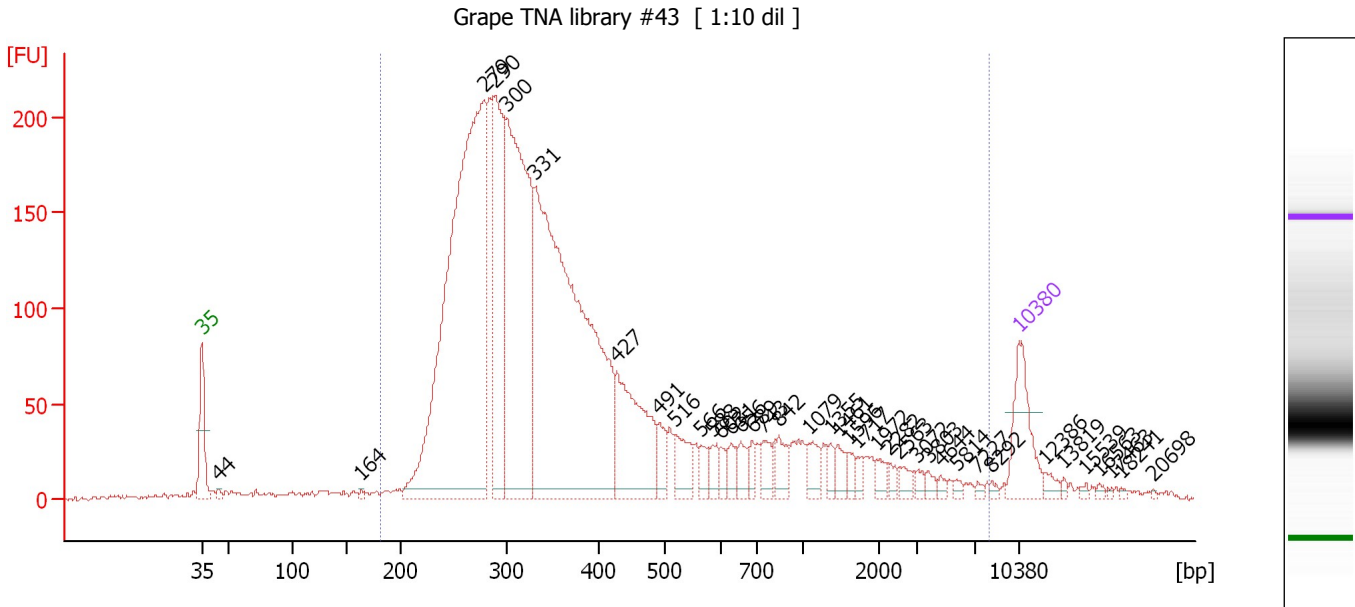
Region table for sample 3 : Grape TNA library #42

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
169	1,000	319	6,815.4	1,339.36	823.9	96	25.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Grape TNA library #43

Number of peaks found: 38 Corr. Area 1: 4,337.8
 Noise: 1.6

Peak table for sample 4 : Grape TNA library #43

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	7.16	245.9	
3	164	4.64	43.0	
4	279	1,168.80	6,343.4	
5	290	349.77	1,828.7	
6	300	636.61	3,216.2	
7	331	1,039.50	4,752.9	
8	427	206.29	732.8	
9	491	33.18	102.4	
10	516	52.56	154.3	
11	566	20.53	54.9	
12	588	22.30	57.5	
13	602	16.66	41.9	
14	631	19.73	47.4	
15	656	24.65	57.0	
16	689	15.94	35.1	
17	743	26.95	55.0	
18	842	29.82	53.6	
19	1,079	27.08	38.0	
20	1,355	13.05	14.6	
21	1,461	17.88	18.5	
22	1,596	12.01	11.4	
23	1,717	10.28	9.1	
24	1,972	11.26	8.7	
25	2,282	8.76	5.8	
26	2,563	12.99	7.7	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : Grape TNA library #43

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	3,072	6.62	3.3	
28	3,803	8.45	3.4	
29	4,644	5.74	1.9	
30	5,814	5.07	1.3	
31	7,227	3.96	0.8	
32	8,292	3.98	0.7	
33	10,380	75.00	10.9	Upper Marker
34	12,386	0.00	0.0	
35	13,819	0.00	0.0	
36	15,539	0.00	0.0	
37	16,563	0.00	0.0	
38	17,463	0.00	0.0	
39	18,241	0.00	0.0	
40	20,698	0.00	0.0	

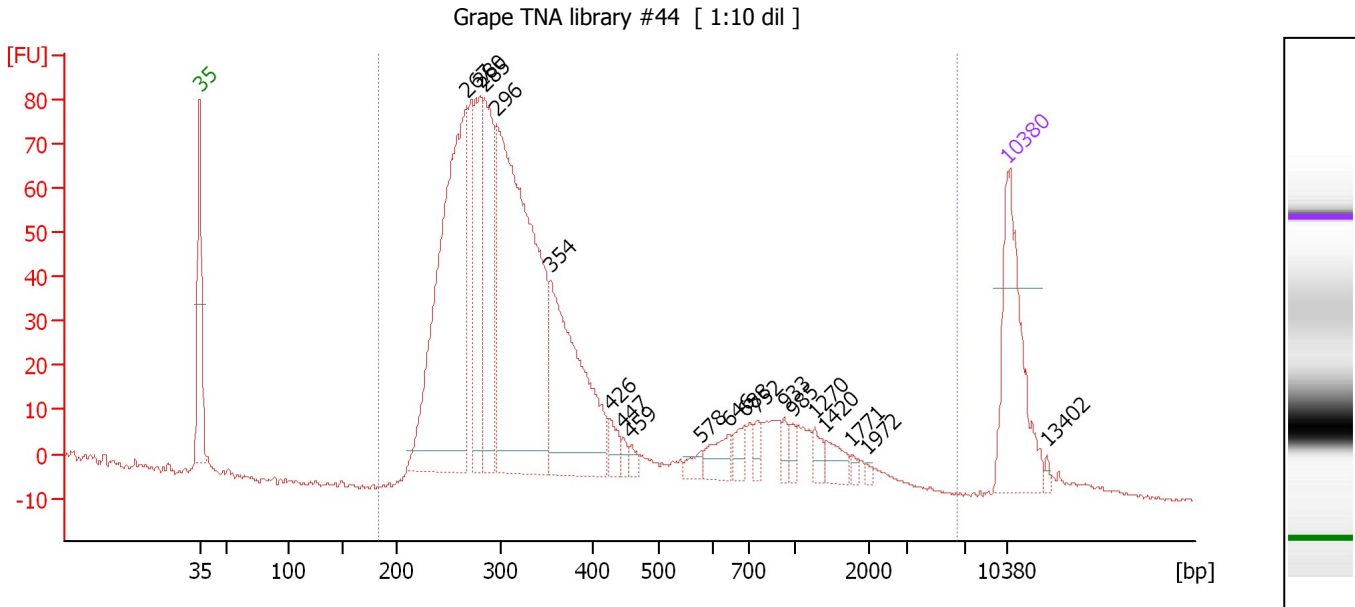
Region table for sample 4 : Grape TNA library #43

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
181	8,061	539	18,286.0	4,011.87	4,337.8	97	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Grape TNA library #44

Number of peaks found: 19 Corr. Area 1: 1,471.5
 Noise: 0.3

Peak table for sample 5 : Grape TNA library #44

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	267	347.03	1,966.7	
3	280	103.51	559.9	
4	285	116.53	620.1	
5	296	397.05	2,029.0	
6	354	172.45	738.3	
7	426	12.33	43.8	
8	447	5.59	19.0	
9	459	5.78	19.1	
10	578	7.78	20.4	
11	646	18.65	43.8	
12	688	11.94	26.3	
13	752	7.58	15.3	
14	933	6.48	10.5	
15	985	5.99	9.2	
16	1,270	8.24	9.8	
17	1,420	12.32	13.1	
18	1,771	2.61	2.2	
19	1,972	1.67	1.3	
20	10,380	75.00	10.9	Upper Marker
21	13,402	0.00	0.0	

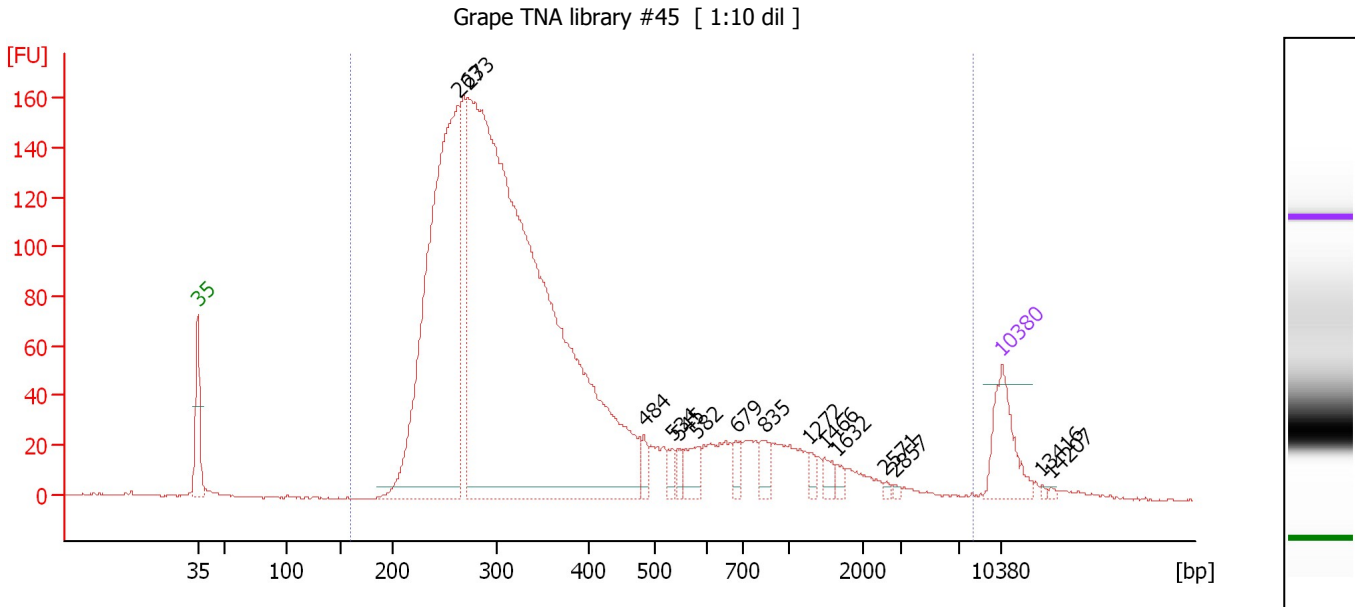
Region table for sample 5 : Grape TNA library #44

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
183	6,464	429	6,456.0	1,353.79	1,471.5	99	80.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Grape TNA library #45

Number of peaks found: 15 Corr. Area 1: 3,202.4
 Noise: 0.4

Peak table for sample 6 : Grape TNA library #45

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	263	1,028.25	5,926.4	
3	273	2,474.54	13,725.8	
4	484	22.24	69.6	
5	534	17.71	50.3	
6	545	15.03	41.8	
7	582	37.24	97.0	
8	679	20.08	44.8	
9	835	24.37	44.2	
10	1,272	10.83	12.9	
11	1,466	14.75	15.2	
12	1,632	9.76	9.1	
13	2,571	3.46	2.0	
14	2,857	2.69	1.4	
15	10,380	75.00	10.9	Upper Marker
16	13,416	0.00	0.0	
17	14,207	0.00	0.0	

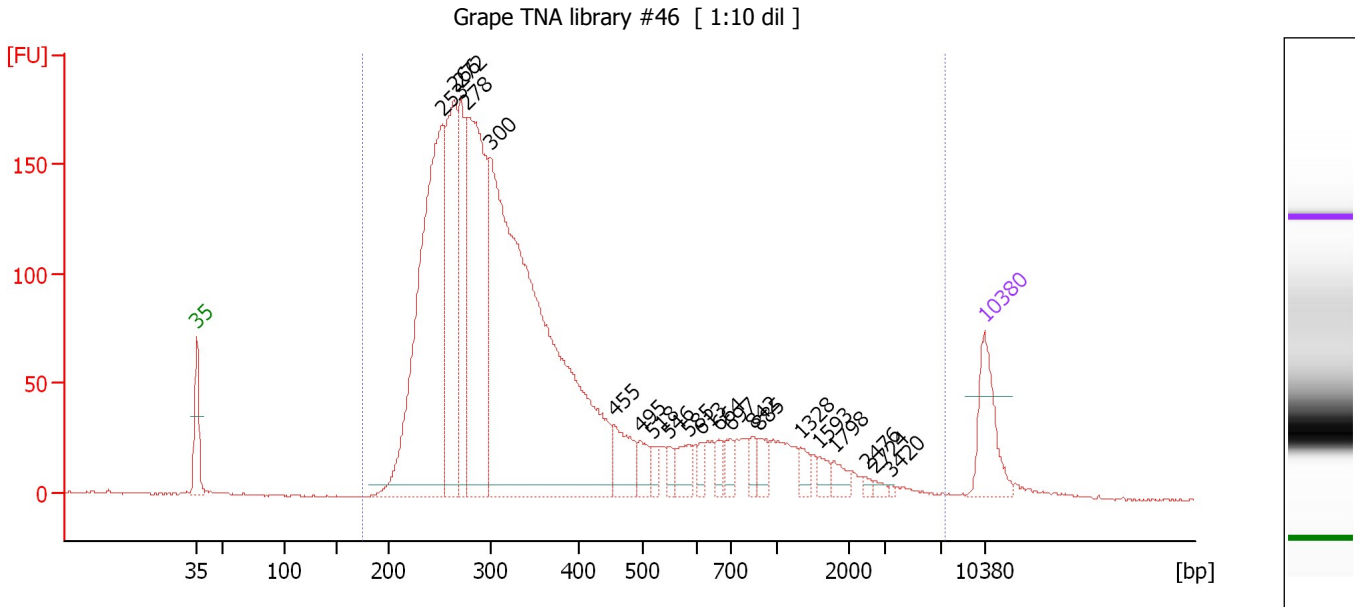
Region table for sample 6 : Grape TNA library #45

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
159	8,097	444	18,513.2	3,853.52	3,202.4	99	100.0

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 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Grape TNA library #46

Number of peaks found: 21 Corr. Area 1: 3,548.7
 Noise: 0.5

Peak table for sample 7 : Grape TNA library #46


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	253	796.72	4,762.6	
3	266	342.21	1,952.7	
4	272	238.74	1,330.7	
5	278	520.93	2,837.9	
6	300	1,396.02	7,046.6	
7	455	73.25	244.1	
8	495	31.71	97.1	
9	518	16.93	49.5	
10	546	14.82	41.1	
11	585	35.29	91.4	
12	613	14.88	36.8	
13	664	18.30	41.8	
14	697	22.23	48.3	
15	842	16.54	29.8	
16	885	26.79	45.9	
17	1,328	18.97	21.6	
18	1,593	15.08	14.3	
19	1,798	16.50	13.9	
20	2,476	4.89	3.0	
21	2,724	5.54	3.1	
22	3,420	2.09	0.9	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...

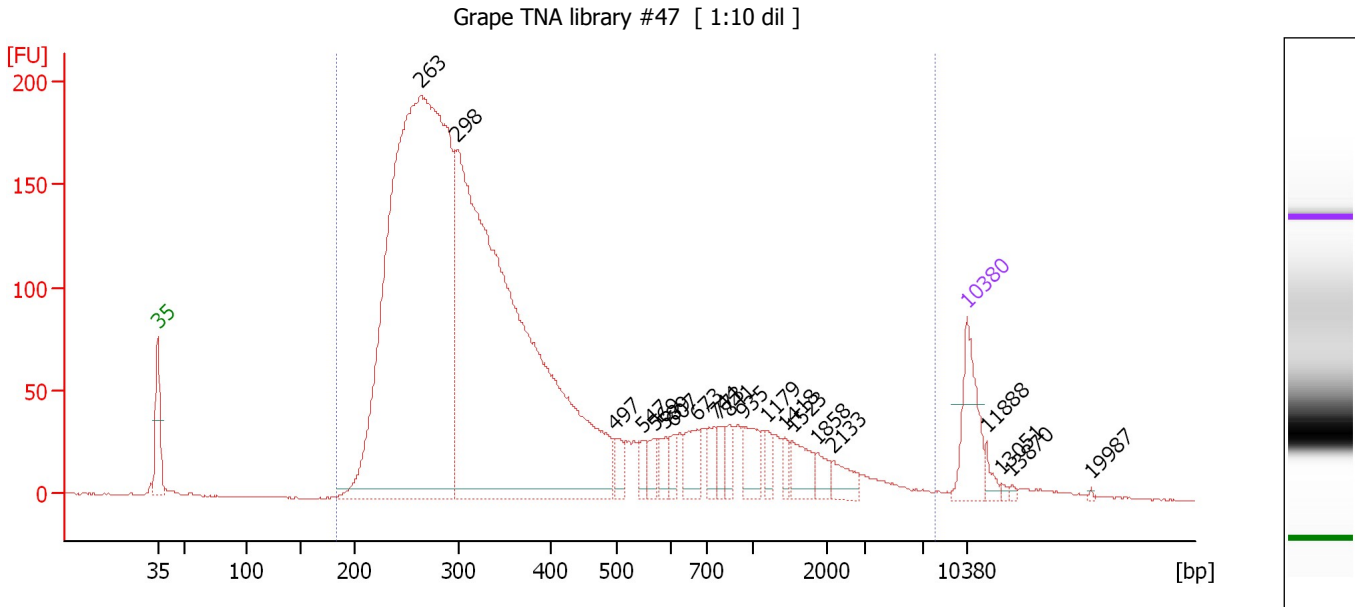
... Region table for sample 7 : Grape TNA library #46

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
175	7,203	463	17,576.5	3,667.36	 3,548.7	99	100.0

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 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Grape TNA library #47

Number of peaks found: 21 Corr. Area 1: 4,063.1
 Noise: 0.4

Peak table for sample 8 : Grape TNA library #47

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	263	1,999.58	11,504.7	
3	298	1,783.21	9,052.6	
4	497	31.40	95.7	
5	547	21.40	59.3	
6	569	24.07	64.1	
7	589	23.97	61.6	
8	607	20.24	50.5	
9	673	46.80	105.4	
10	744	27.38	55.8	
11	773	23.97	47.0	
12	841	20.21	36.4	
13	935	48.27	78.2	
14	1,179	16.30	20.9	
15	1,418	13.96	14.9	
16	1,523	40.16	40.0	
17	1,858	19.37	15.8	
18	2,133	24.83	17.6	
19	10,380	75.00	10.9	Upper Marker
20	11,888	0.00	0.0	
21	13,051	0.00	0.0	
22	13,870	0.00	0.0	
23	19,987	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...

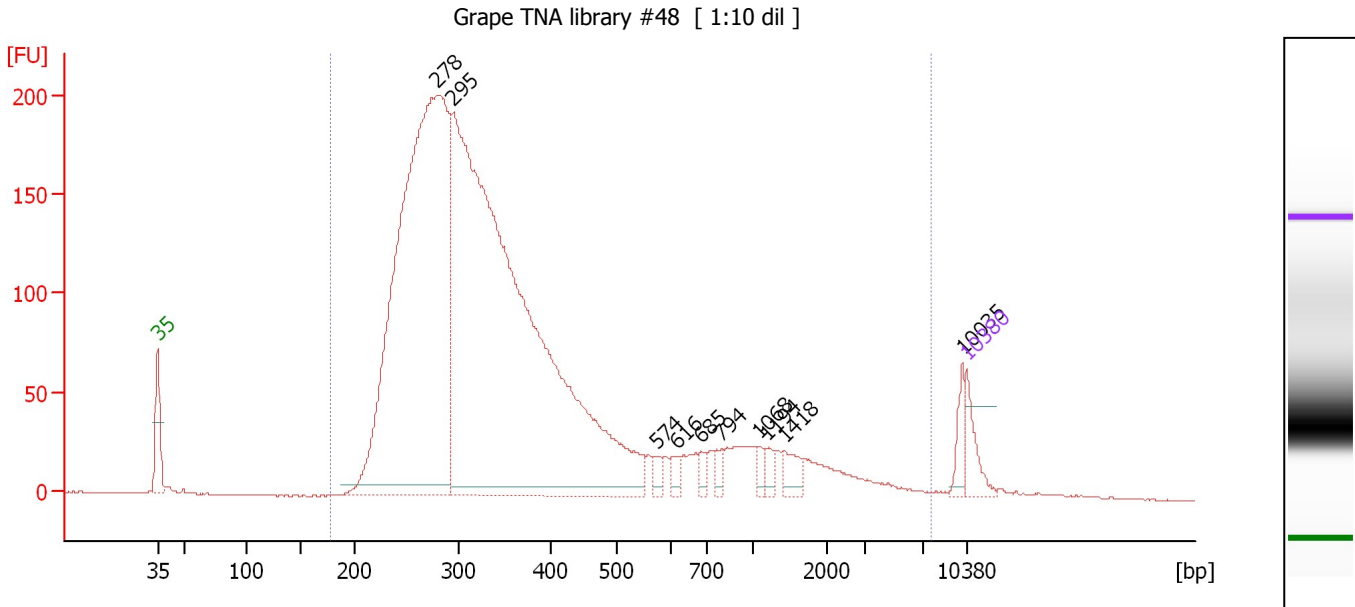
... Region table for sample 8 : Grape TNA library #47

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
183	7,923	515	19,374.2	4,100.41	4,063.1	98	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Grape TNA library #48

Number of peaks found: 10 Corr. Area 1: 3,964.2
 Noise: 0.3

Peak table for sample 9 : Grape TNA library #48

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	278	3,323.61	18,098.7	
3	295	4,515.99	23,215.5	
4	574	31.45	83.0	
5	616	33.84	83.2	
6	685	29.52	65.3	
7	794	31.76	60.6	
8	1,068	29.32	41.6	
9	1,194	33.40	42.4	
10	1,418	59.07	63.1	
11	10,035	57.13	8.6	
12	10,380	75.00	10.9	Upper Marker

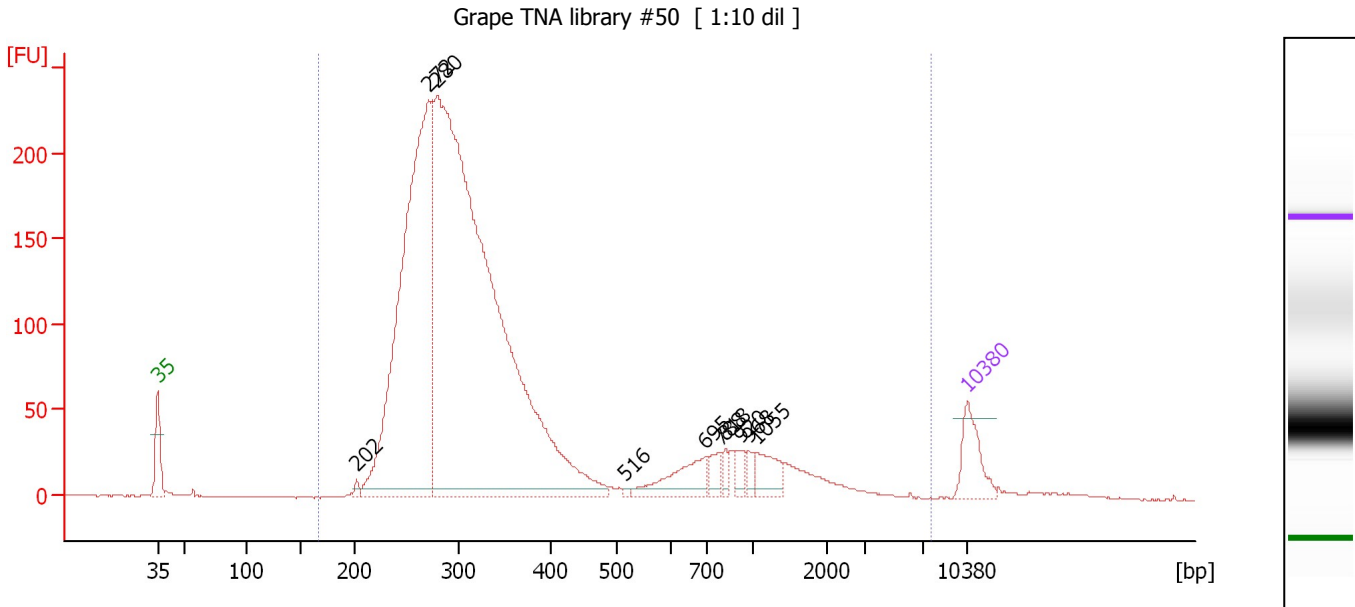
Region table for sample 9 : Grape TNA library #48

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
178	7,650	484	37,915.9	8,066.68	3,964.2	98	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Grape TNA library #50

Number of peaks found: 10 Corr. Area 1: 3,457.3
 Noise: 0.3

Peak table for sample 10 : Grape TNA library #50

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	202	12.53	93.8	
3	272	1,518.98	8,476.2	
4	280	3,048.01	16,515.5	
5	516	5.37	15.8	
6	695	116.97	254.9	
7	788	35.29	67.8	
8	818	21.29	39.5	
9	920	30.64	50.4	
10	968	20.44	32.0	
11	1,055	61.82	88.8	
12	10,380	75.00	10.9	Upper Marker

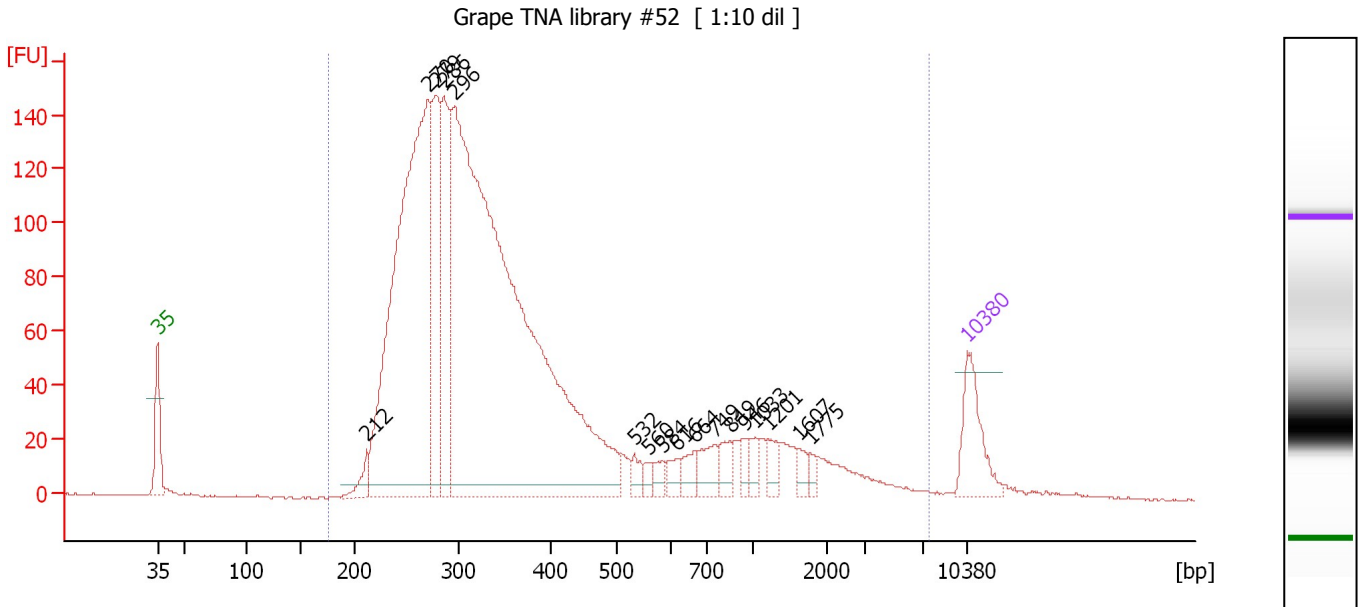
Region table for sample 10 : Grape TNA library #50

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
167	7,584	431	23,179.4	4,757.48	3,457.3	99	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Grape TNA library #52

Number of peaks found: 17 Corr. Area 1: 2,830.6
 Noise: 0.3

Peak table for sample 11 : Grape TNA library #52

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	212	33.87	242.1	
3	270	1,067.73	5,981.8	
4	279	257.15	1,398.3	
5	286	264.57	1,402.9	
6	296	1,941.56	9,953.0	
7	532	20.79	59.2	
8	560	12.63	34.2	
9	584	17.57	45.6	
10	616	21.57	53.1	
11	664	27.39	62.5	
12	749	40.28	81.5	
13	849	28.85	51.5	
14	946	17.68	28.3	
15	1,033	20.56	30.2	
16	1,201	20.14	25.4	
17	1,607	15.25	14.4	
18	1,775	9.24	7.9	
19	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : Grape TNA library #52

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
175	7,410	504	17,664.8	3,765.56	2,830.6	99	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
Modified: 8/20/2014 1:50:53 PM

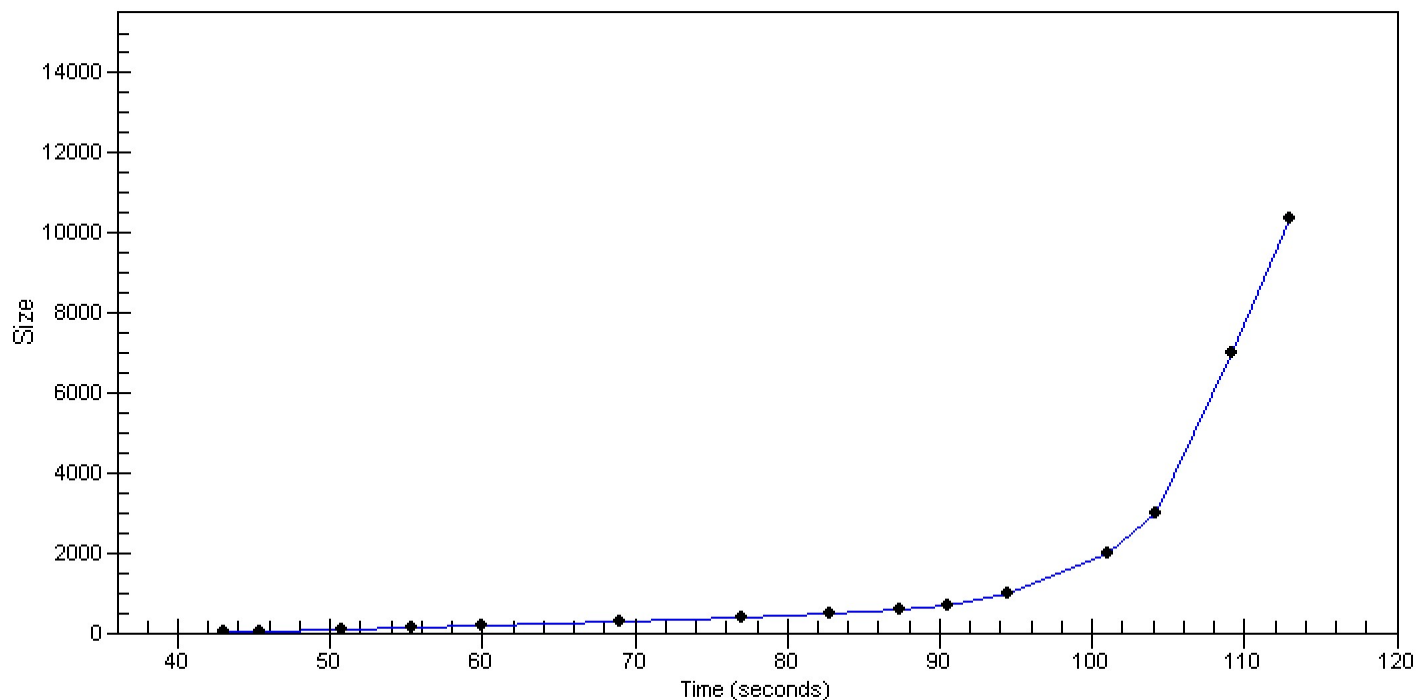
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
Modified: 8/20/2014 1:50:53 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_003.xad

Created: 8/20/2014 1:08:26 PM
 Modified: 8/20/2014 1:50:53 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		8/20/2014 1:49:46 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\2014-08-20\2014-08-20_003.xad)		Instrument	Run		8/20/2014 1:08:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/20/2014 1:08:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/20/2014 1:08:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/20/2014 1:08:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/20/2014 1:08:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/20/2014 1:08:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/20/2014 1:08:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1