

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-03-16_001.xad

Created: 3/16/2020 1:11:56 PM
Modified: 3/16/2020 1:51:16 PM

Electrophoresis File Run Summary

Instrument Information:

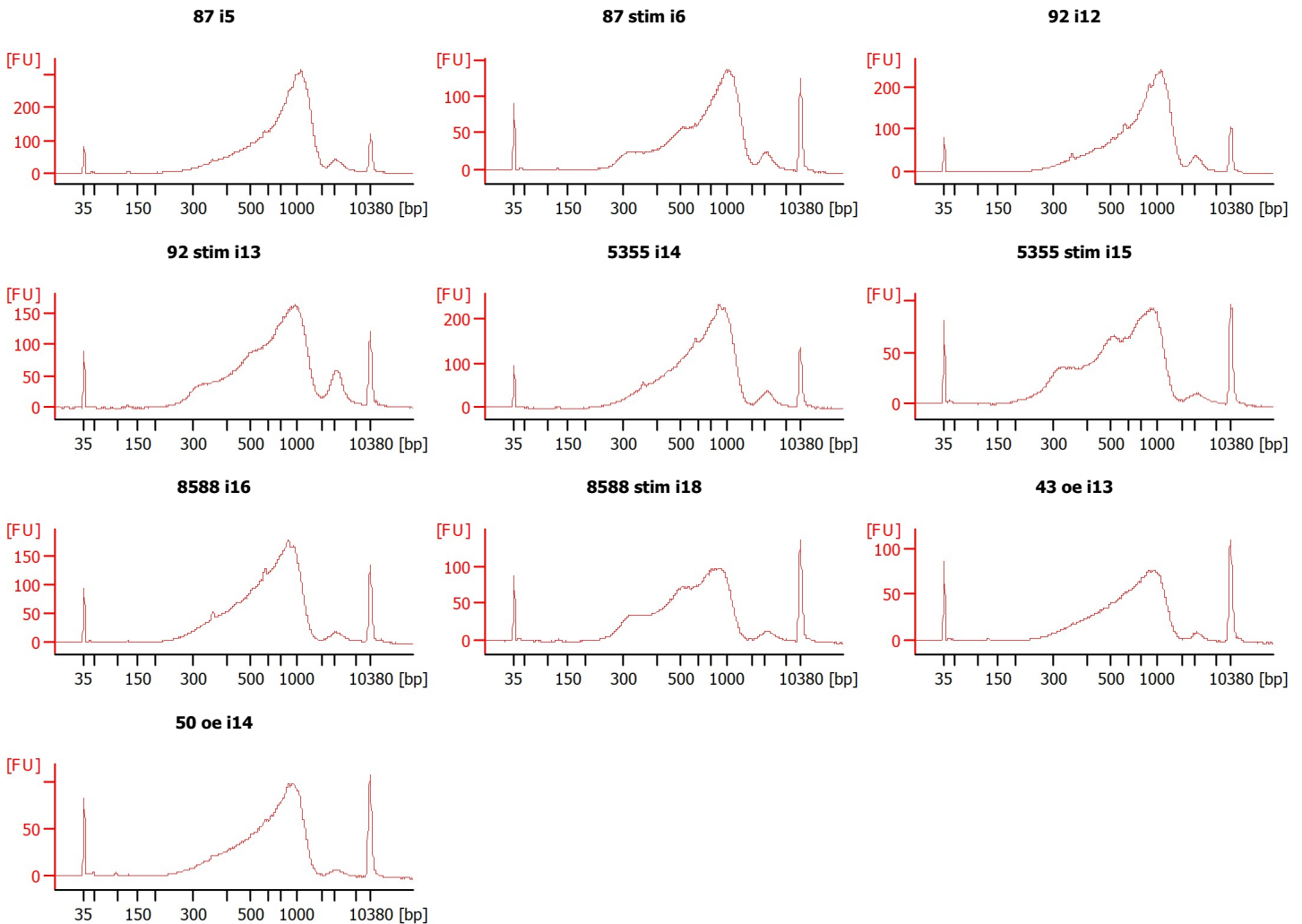
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



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Created: 3/16/2020 1:11:56 PM
 Modified: 3/16/2020 1:51:16 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
87 i5		<input type="checkbox"/>	✓			
87 stim i6		<input type="checkbox"/>	✓			
92 i12		<input type="checkbox"/>	✓			
92 stim i13		<input type="checkbox"/>	✓			
5355 i14		<input type="checkbox"/>	✓			
5355 stim i15		<input type="checkbox"/>	✓			
8588 i16		<input type="checkbox"/>	✓			
8588 stim i18		<input type="checkbox"/>	✓			
43 oe i13		<input type="checkbox"/>	✓			
50 oe i14		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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 Modified: 3/16/2020 1:51:16 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

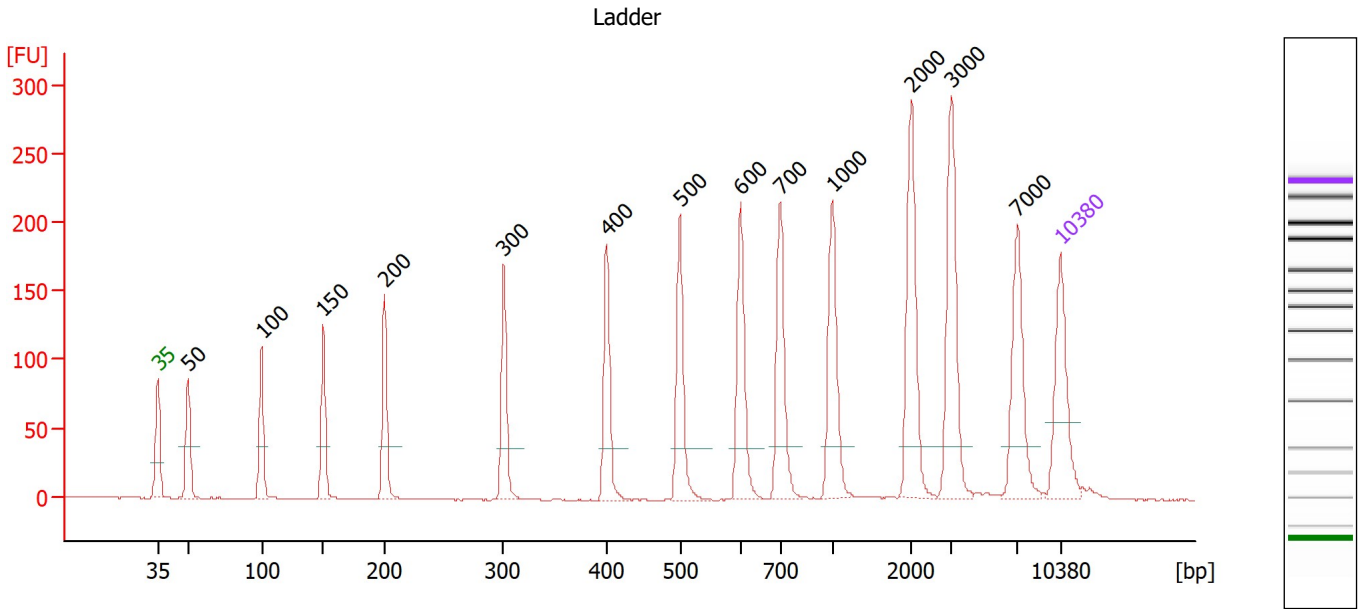
Ladder

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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 Modified: 3/16/2020 1:51:16 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

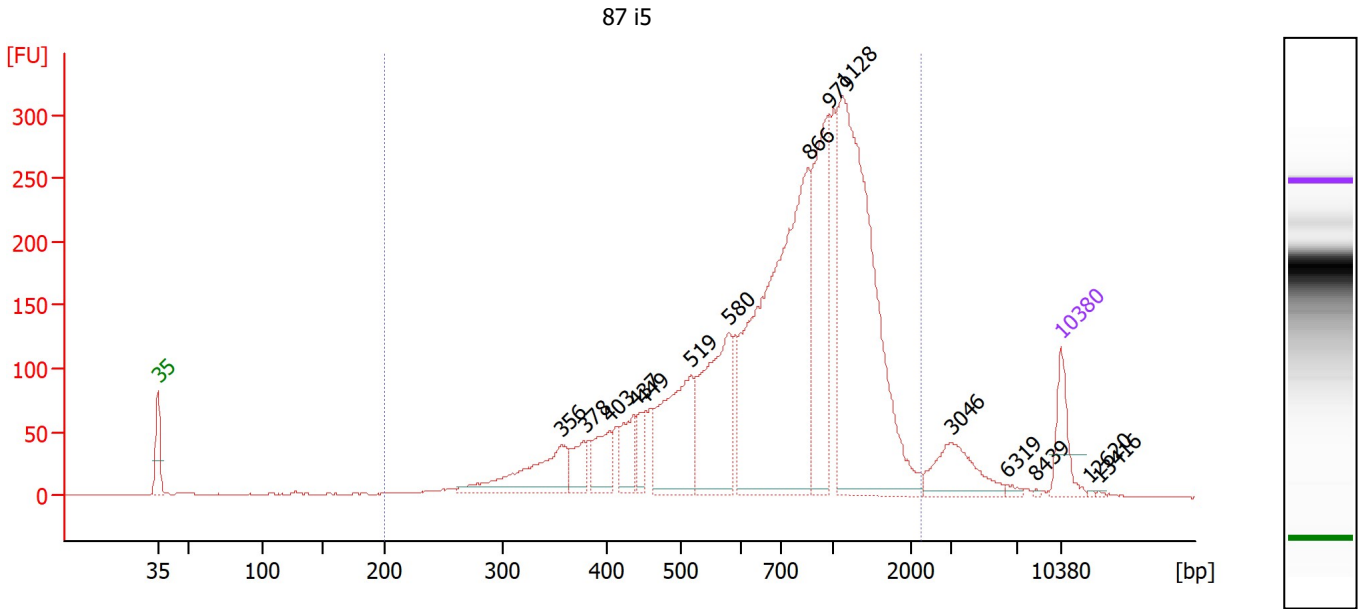
Peak table for Ladder

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

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Created: 3/16/2020 1:11:56 PM
 Modified: 3/16/2020 1:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 87 i5

Number of peaks found: 15 Corr. Area 1: 4,427.2
 Noise: 0.3

Peak table for sample 1 : 87 i5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	356	214.52	913.4	
3	378	66.06	265.0	
4	403	96.83	364.1	
5	437	89.29	309.3	
6	449	59.27	199.8	
7	519	301.53	880.3	
8	580	343.09	896.0	
9	866	1,002.72	1,753.5	
10	979	371.70	575.3	
11	1,128	901.43	1,210.3	
12	3,046	116.76	58.1	
13	6,319	7.73	1.9	
14	8,439	2.29	0.4	
15	10,380	75.00	10.9	Upper Marker
16	12,620	0.00	0.0	
17	13,416	0.00	0.0	

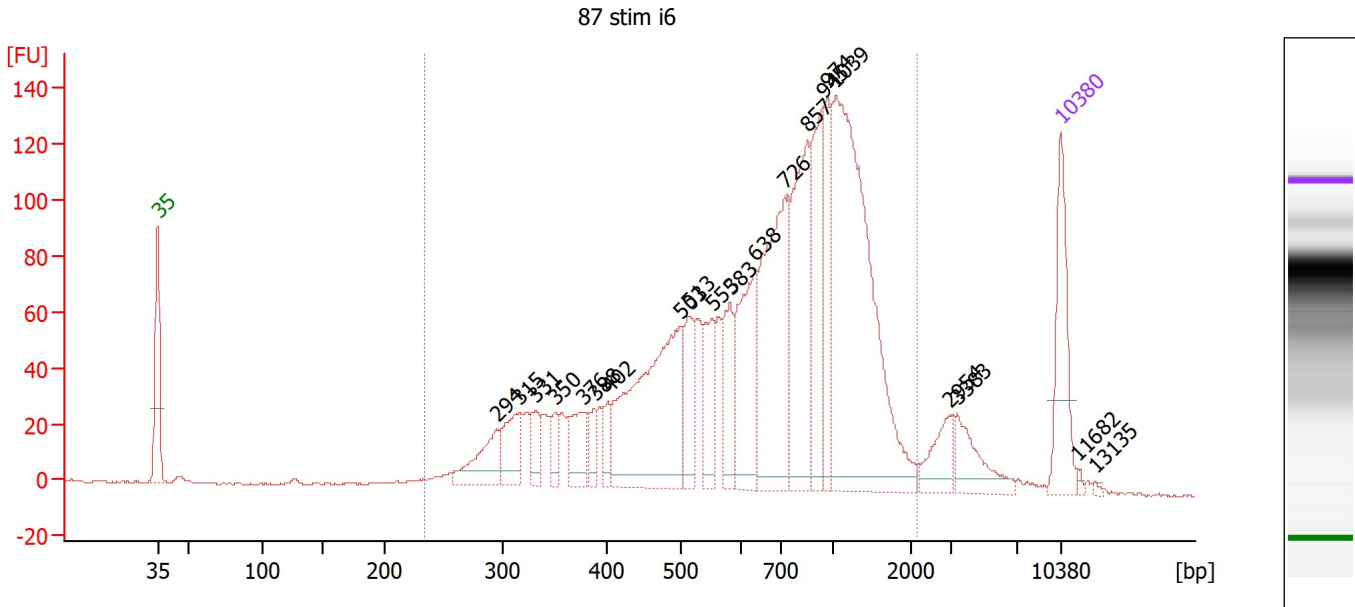
Region table for sample 1 : 87 i5

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,231	4,427.2	94	856	44.9	4,009.98	9,433.9	Blue

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Created: 3/16/2020 1:11:56 PM
 Modified: 3/16/2020 1:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 87 stim i6

Number of peaks found: 21 Corr. Area 1: 2,344.4
 Noise: 0.4

Peak table for sample 2 : 87 stim i6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	294	63.70	328.6	
3	315	57.71	277.2	
4	331	29.78	136.4	
5	350	24.65	106.6	
6	376	44.94	181.1	
7	388	21.99	85.8	
8	402	23.41	88.3	
9	503	274.88	828.6	
10	513	63.56	187.7	
11	553	59.29	162.5	
12	583	60.32	156.8	
13	638	128.09	304.3	
14	726	219.33	457.9	
15	857	175.30	309.8	
16	945	111.43	178.7	
17	974	75.56	117.5	
18	1,039	407.15	593.6	
19	2,954	35.69	18.3	
20	3,383	42.47	19.0	
21	10,380	75.00	10.9	Upper Marker
22	11,682	0.00	0.0	
23	13,135	0.00	0.0	

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Created: 3/16/2020 1:11:56 PM
 Modified: 3/16/2020 1:51:16 PM

Electropherogram Summary Continued ...

... Region table for sample 2 :

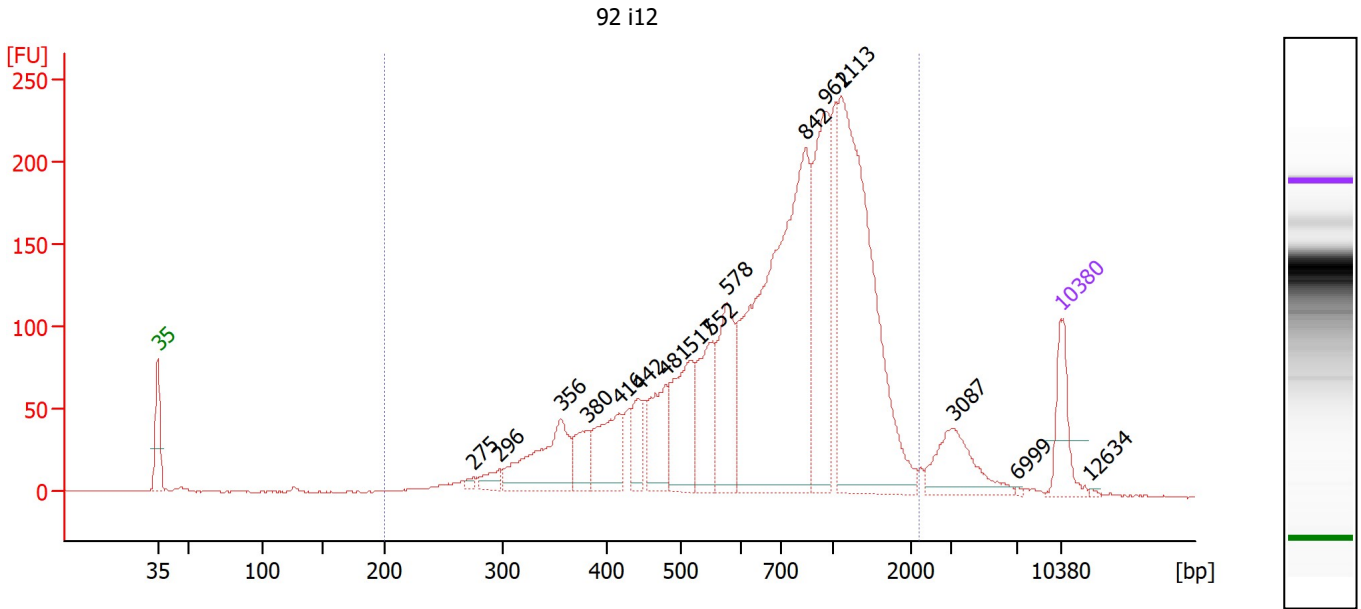
87 stim i6

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
234	2,163	2,344.4	94	785	47.4	2,058.88	5,371.9	■

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Created: 3/16/2020 1:11:56 PM
 Modified: 3/16/2020 1:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 92 i12

Number of peaks found: 16 Corr. Area 1: 3,584.5
 Noise: 0.4

Peak table for sample 3 : 92 i12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	275	9.47	52.3	
3	296	30.82	157.5	
4	356	201.58	857.8	
5	380	70.52	280.8	
6	416	138.94	506.3	
7	442	64.76	221.8	
8	481	126.64	399.3	
9	517	184.51	540.6	
10	552	150.07	411.7	
11	578	194.21	509.1	
12	842	856.78	1,541.0	
13	962	311.30	490.3	
14	1,113	671.81	914.7	
15	3,087	108.71	53.4	
16	6,999	2.24	0.5	
17	10,380	75.00	10.9	Upper Marker
18	12,634	0.00	0.0	

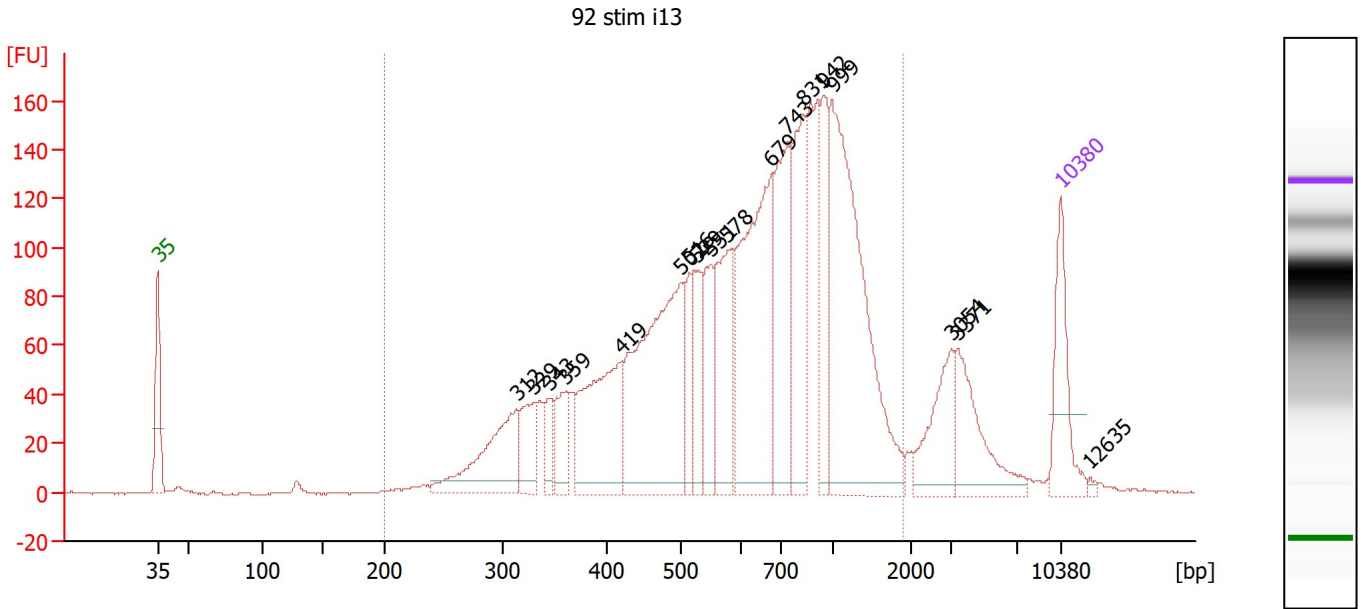
Region table for sample 3 : 92 i12

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,191	3,584.5	94	830	45.7	3,400.35	8,282.2	Blue

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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-03-16_001.xad

Created: 3/16/2020 1:11:56 PM
 Modified: 3/16/2020 1:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 92 stim i13

Number of peaks found: 18 Corr. Area 1: 3,106.8
 Noise: 0.4

Peak table for sample 4 : 92 stim i13

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	312	153.88	747.2	
3	329	63.08	290.7	
4	343	33.84	149.3	
5	359	63.10	266.0	
6	419	196.31	710.1	
7	502	357.94	1,081.0	
8	516	62.43	183.4	
9	529	62.47	178.9	
10	551	84.95	233.7	
11	578	128.52	336.8	
12	679	320.19	714.9	
13	743	175.10	357.2	
14	831	146.77	267.7	
15	942	100.86	162.3	
16	999	386.91	586.9	
17	3,054	77.78	38.6	
18	3,371	87.92	39.5	
19	10,380	75.00	10.9	Upper Marker
20	12,635	0.00	0.0	

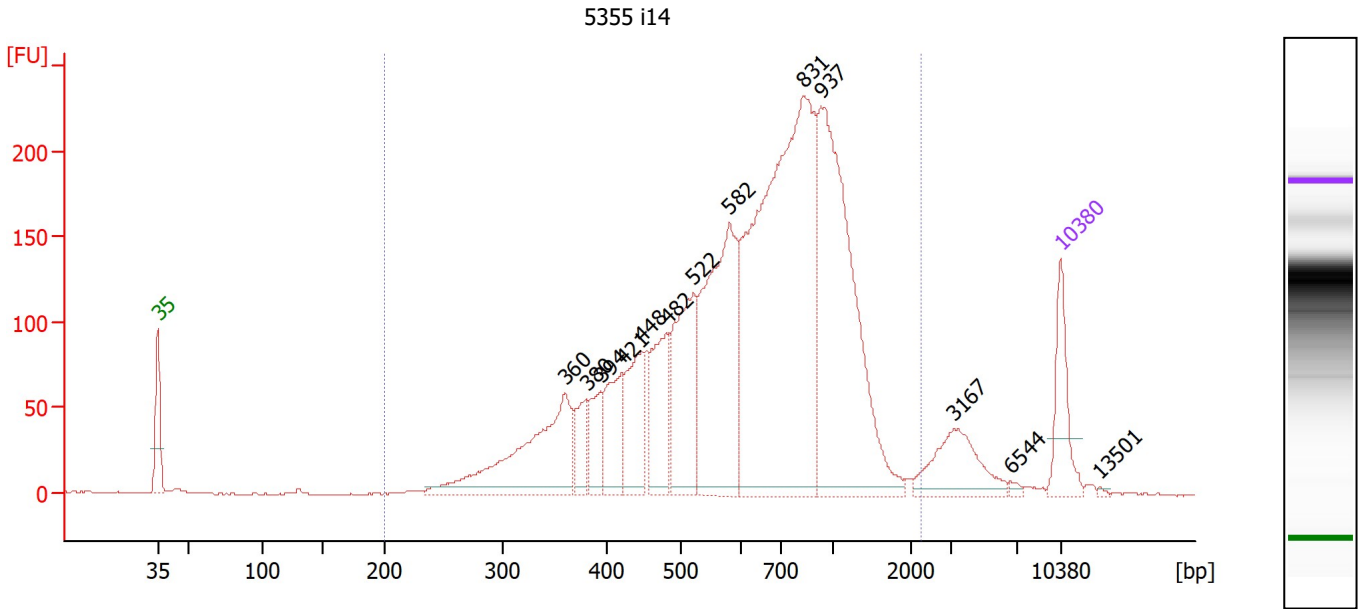
Region table for sample 4 : 92 stim i13

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,898	3,106.8	90	716	45.9	2,595.74	7,175.8	Blue

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Created: 3/16/2020 1:11:56 PM
 Modified: 3/16/2020 1:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 5355 i14

Number of peaks found: 13 Corr. Area 1: 3,914.1
 Noise: 0.5

Peak table for sample 5 : 5355 i14

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	360	311.44	1,310.8	
3	380	59.86	238.8	
4	394	69.44	266.9	
5	421	107.01	385.4	
6	448	136.20	461.0	
7	482	151.84	477.2	
8	522	213.62	619.8	
9	582	388.31	1,011.6	
10	831	932.27	1,700.3	
11	937	547.55	885.7	
12	3,167	99.52	47.6	
13	6,544	4.90	1.1	
14	10,380	75.00	10.9	Upper Marker
15	13,501	0.00	0.0	

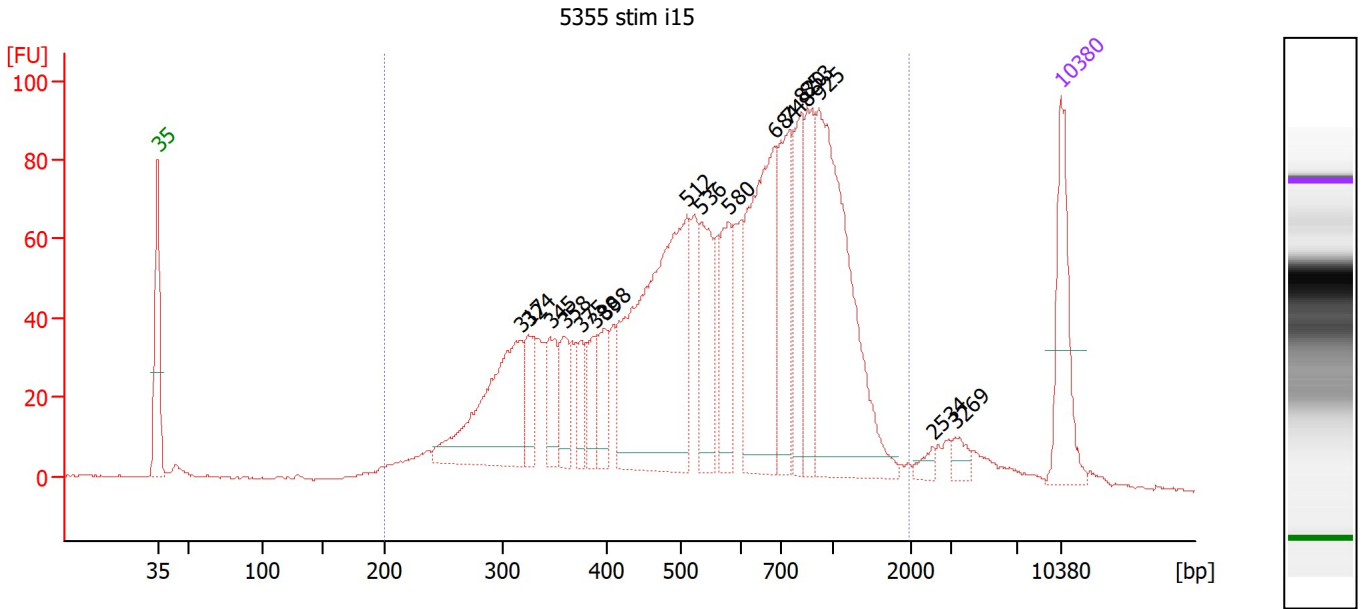
Region table for sample 5 : 5355 i14

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,248	3,914.1	95	711	42.6	3,018.83	8,044.5	Blue

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Created: 3/16/2020 1:11:56 PM
 Modified: 3/16/2020 1:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 5355 stim i15

Number of peaks found: 17 Corr. Area 1: 2,144.2
 Noise: 0.3

Peak table for sample 6 : 5355 stim i15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	317	202.83	970.6	
3	324	47.48	222.0	
4	345	52.75	231.7	
5	358	48.86	206.6	
6	375	33.59	135.6	
7	388	35.98	140.5	
8	398	42.91	163.3	
9	512	368.93	1,092.6	
10	536	91.37	258.4	
11	580	78.36	204.6	
12	684	233.45	517.0	
13	748	97.56	197.6	
14	820	77.81	143.7	
15	853	88.75	157.7	
16	925	287.66	471.3	
17	2,534	8.24	4.9	
18	3,269	11.96	5.5	
19	10,380	75.00	10.9	Upper Marker

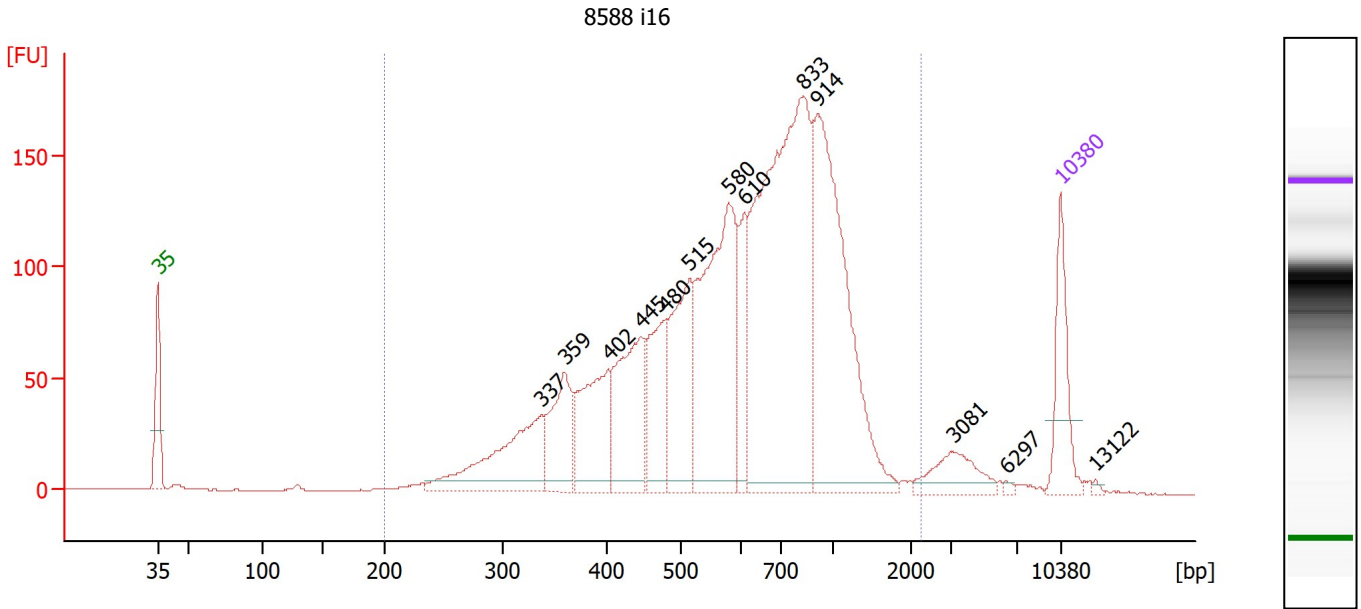
Region table for sample 6 : 5355 stim i15

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,966	2,144.2	94	636	46.5	2,295.92	7,162.2	Blue

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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-03-16_001.xad

Created: 3/16/2020 1:11:56 PM
 Modified: 3/16/2020 1:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 8588 i16

Number of peaks found: 13 Corr. Area 1: 3,085.0
 Noise: 0.3

Peak table for sample 7 : 8588 i16

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	337	197.98	890.8	
3	359	118.97	501.6	
4	402	160.11	604.2	
5	445	186.10	633.5	
6	480	125.51	396.2	
7	515	186.17	547.2	
8	580	351.15	917.9	
9	610	86.07	213.8	
10	833	659.43	1,200.0	
11	914	422.40	700.1	
12	3,081	50.11	24.6	
13	6,297	3.14	0.8	
14	10,380	75.00	10.9	Upper Marker
15	13,122	0.00	0.0	

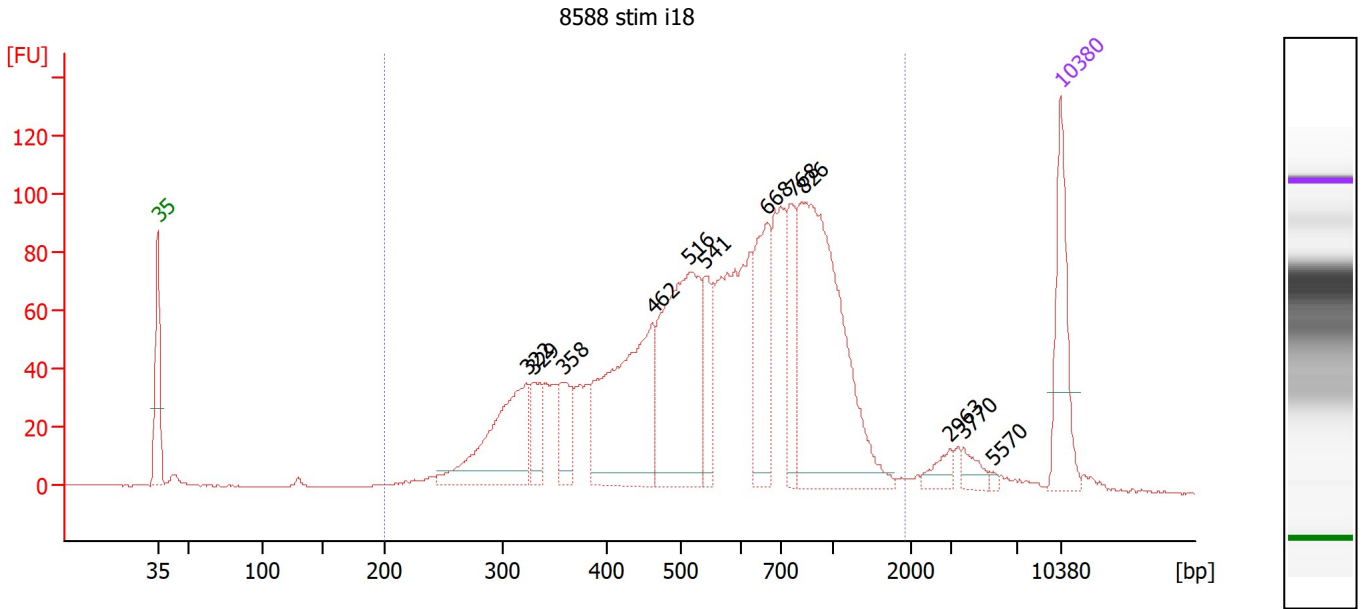
Region table for sample 7 : 8588 i16

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,221	3,085.0	96	673	41.5	2,585.71	7,224.6	Blue

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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-03-16_001.xad

Created: 3/16/2020 1:11:56 PM
 Modified: 3/16/2020 1:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 8588 stim i18

Number of peaks found: 12 Corr. Area 1: 2,141.8
 Noise: 0.3

Peak table for sample 8 : 8588 stim i18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	322	168.99	795.0	
3	329	45.19	208.1	
4	358	46.95	198.7	
5	462	239.02	783.4	
6	516	261.07	766.6	
7	541	56.36	157.9	
8	668	113.51	257.3	
9	768	68.08	134.3	
10	826	346.10	634.8	
11	2,963	15.51	7.9	
12	3,770	14.14	5.7	
13	5,570	2.65	0.7	
14	10,380	75.00	10.9	Upper Marker

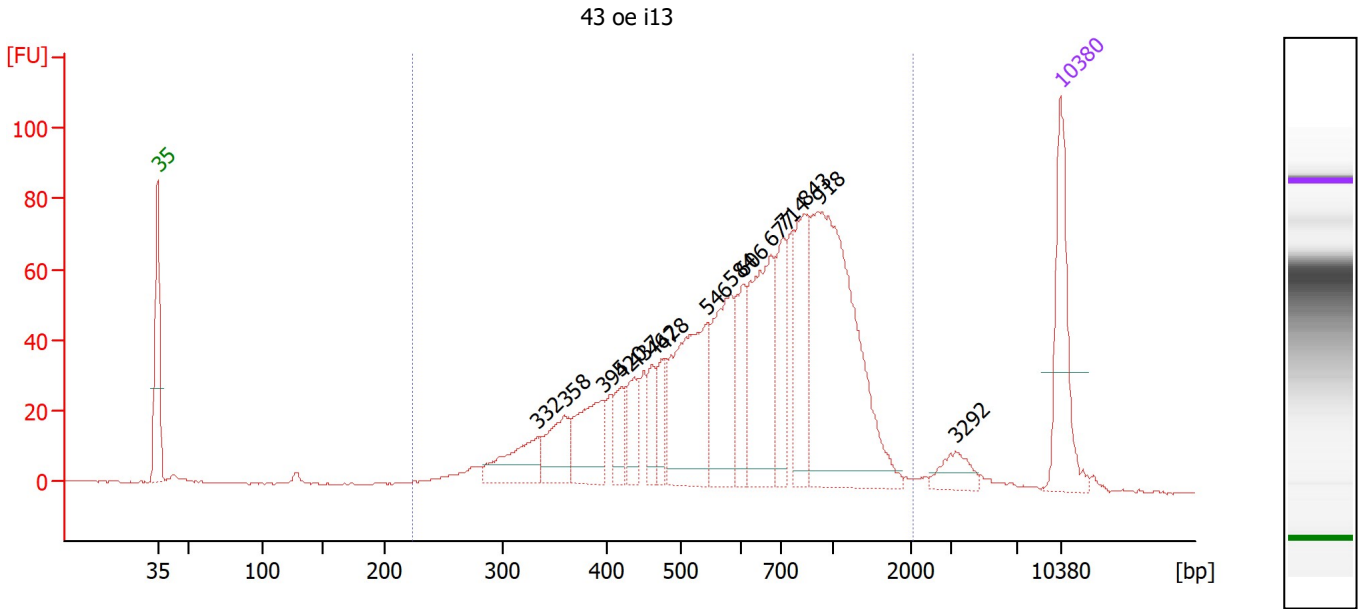
Region table for sample 8 : 8588 stim i18

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,926	2,141.8	94	628	42.6	1,880.81	5,681.7	Blue

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 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-03-16_001.xad

Created: 3/16/2020 1:11:56 PM
 Modified: 3/16/2020 1:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 43 oe i13

Number of peaks found: 15 Corr. Area 1: 1,451.0
 Noise: 0.2

Peak table for sample 9 : 43 oe i13

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	332	56.97	260.1	
3	358	52.00	219.8	
4	395	72.12	276.3	
5	420	31.72	114.4	
6	437	36.40	126.2	
7	462	29.15	95.7	
8	478	30.41	96.5	
9	546	149.24	414.4	
10	584	103.18	267.8	
11	606	47.53	118.8	
12	677	136.39	305.2	
13	714	58.67	124.5	
14	843	88.12	158.3	
15	918	293.20	483.8	
16	3,292	20.49	9.4	
17	10,380	75.00	10.9	Upper Marker

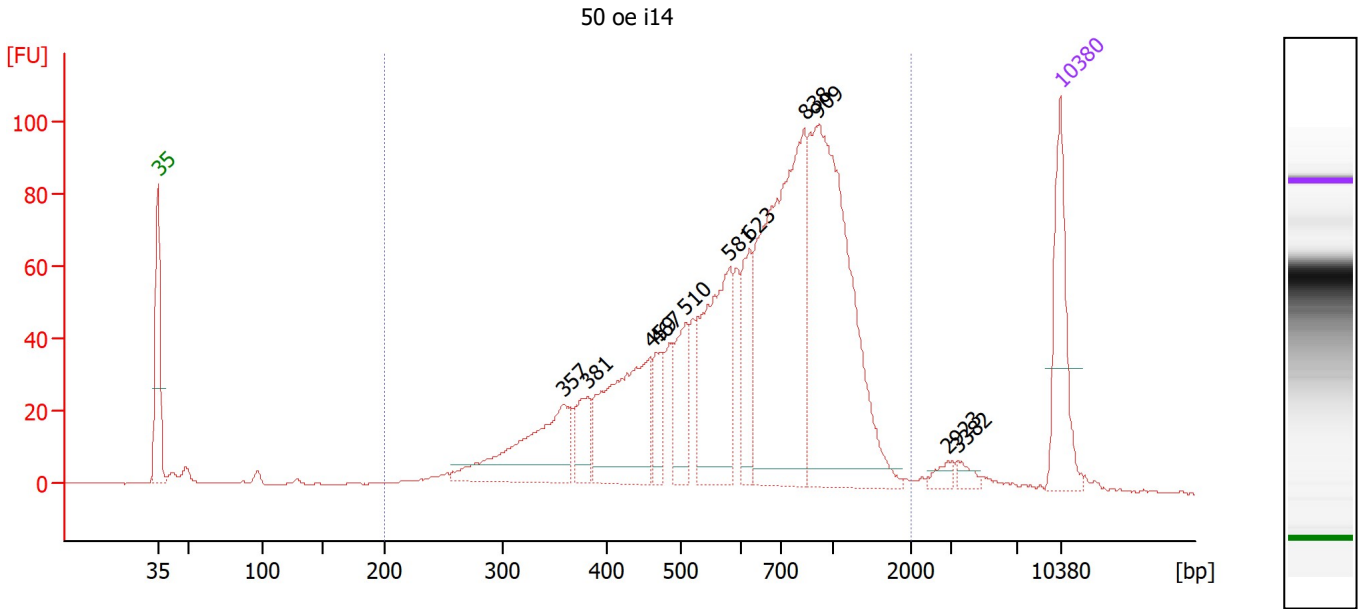
Region table for sample 9 : 43 oe i13

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
224	2,021	1,451.0	94	710	43.8	1,356.86	3,669.2	Blue

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Created: 3/16/2020 1:11:56 PM
 Modified: 3/16/2020 1:51:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 50 oe i14

Number of peaks found: 11 Corr. Area 1: 1,639.1
 Noise: 0.2

Peak table for sample 10 : 50 oe i14

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	357	140.87	597.1	
3	381	40.55	161.4	
4	459	169.34	558.8	
5	467	38.28	124.2	
6	510	60.40	179.6	
7	581	161.44	420.7	
8	623	63.98	155.6	
9	838	342.33	618.9	
10	909	360.54	600.7	
11	2,923	8.39	4.3	
12	3,382	7.95	3.6	
13	10,380	75.00	10.9	Upper Marker

Region table for sample 10 : 50 oe i14

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,009	1,639.1	95	705	42.0	1,608.19	4,361.2	Blue

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Created: 3/16/2020 1:11:56 PM
Modified: 3/16/2020 1:51:16 PM

Gel Image

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Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-03-16_001.xad

Created: 3/16/2020 1:11:56 PM
Modified: 3/16/2020 1:51:16 PM

Invalid Samples

Sample 11 has not been run, no results available.

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Created: 3/16/2020 1:11:56 PM
 Modified: 3/16/2020 1:51:16 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		3/16/2020 1:50:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-03-16\Bioanalyze r1_High Sensitivity DNA Assay_2020-03-16_001.xad)		Instrument	Run		3/16/2020 1:12:01 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		3/16/2020 1:12:01 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		3/16/2020 1:12:01 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		3/16/2020 1:12:01 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		3/16/2020 1:12:01 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		3/16/2020 1:12:01 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		3/16/2020 1:12:01 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB